Catalog

NORTON RIXSON

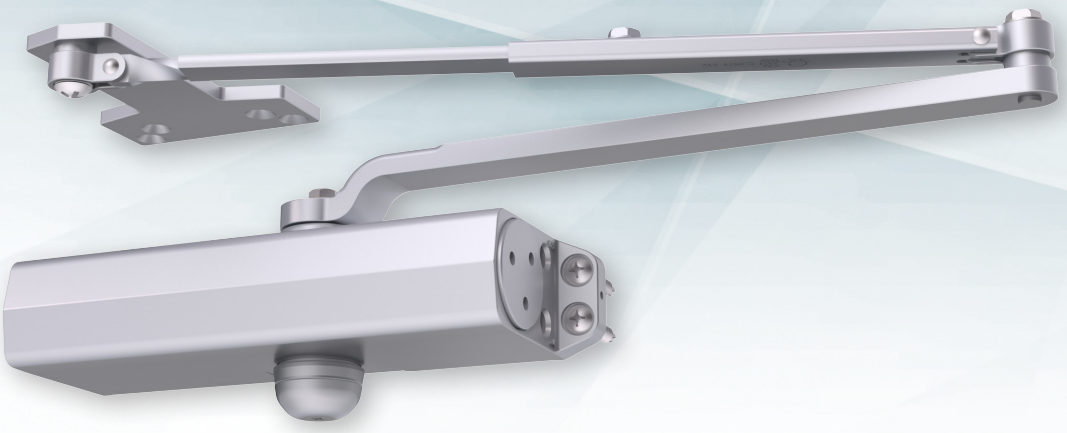
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1600 SERIES

DOOR CLOSER





1600

ALUMINUM STOREFRONT DOOR CLOSER

INTRODUCTION

The 1600 Series door closers offer proven quality, performance and reliability unmatched by the competition. A staple in the industry, these ANSI/BHMA Grade 1 closers are designed for exterior or interior doors. A full complement of regular and heavy-duty arms, brackets and options make the 1600 Series closers ideal for virtually any medium traffic, commercial application.



FEATURES

- Exceeds 25 million cycles
- Non-handed
- Rack-and-pinion design
- Cast aluminum closer body
- Door weight: 250 lbs.
- 2-7/8" (73mm) projection
- 1-3/8" (35mm) diameter piston
- 5/8" (16mm) diameter pinion journals
- Tri-Style® packaging (regular arm, top jamb and parallel arm mounting)
- All standard arm applications allow doors to swing 180°, conditions permitting
- Staked valves
- Heavy-duty arms: Parallel Rigid, CloserPlus®, CloserPlus Spring™, and Unitrol®
- Standard, separate and independent, latch, sweep and backcheck intensity valves
- 30-year limited warranty

Features	1600BC	1601
Sized springs 3 or 4 with no power adjustment	X	
Adjustable spring sizes 1 through 6		X

OPTIONAL FEATURES

- Molded plastic cover - specify suffix P
- Corrosion-resistant model (non-hold open only) - specify 1601SS (not tri-packed)

PATENTS

- assaabloydss.com/patents

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1600
ALUMINUM STOREFRONT DOOR CLOSER

CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 1
- ANSI/BHMA A117.1
- Americans with Disabilities Act (ADA) Compliant
- Environmental Product Declaration (EPD)
- UL10C positive pressure up to 3 hours
- UL-cUL listed
- Manufactured in an ISO 9001 and ISO14001 facility

CAUTION: Door Closers for Low Opening Force Applications:

Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

1600
ALUMINUM STOREFRONT DOOR CLOSER

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EXPLANATION OF FEATURES

Aluminum Alloy Housing
Closer bodies are constructed of a special aluminum alloy, carefully selected to accommodate interaction with steel components and operating conditions.

Rack & Pinion Operation
Provides a smooth constant control of the door through its full opening and closing cycle. 180° door swing can be achieved when door, frame, hardware and arm function do not limit door swing.

Non-Handed
With few exceptions, all series 1600BC and series 1601 door closers are non-handed and can be installed on either right- or left- hand swing doors. Pinion shaft extends vertically through the closer body in both directions. Some options (such as Parallel Rigid hold open arms) will require that the hand of the closer be specified.

Tri-Style®
1600BC/1601 closers come with screws, brackets & soffit plate to allow for regular, top jamb, & parallel arm installations.

Sweep Speed Control Valve
Allows adjustment of door speed from the door's full open position down to approximately 10° from the closed position.

Latch Speed Control Value
Allows adjustment of door speed from approximately 10° down to the door's fully closed position.

Adjustable Backcheck Cushion Valve
Provides control of the door in the opening cycle, beginning at approximately 75° of door opening. It slows/cushions the door opening, when the door is forcibly opened beyond its pre-adjusted opening speed limits.

Warranty
These closers carry a limited 30-year warranty against defects and a limited lifetime warranty on the aluminum housing.

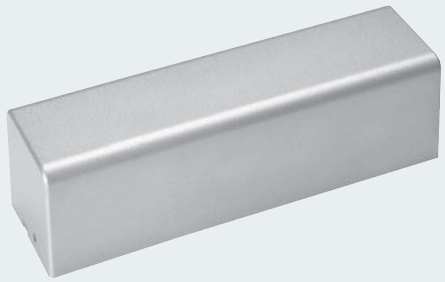
Closer Fluid
NorGlide® door closer fluid is a specially formulated hydraulic fluid that contains lubricity and anti oxidation agents that provide optimum performance and efficiency. This fluid complements the interaction of the door closer's aluminum housing with its steel and zinc components, while maintaining stable viscosity to allow the door closer to perform in temperatures ranging from extremely high to as low as -40° F.

Door Closer Power Options
Sized Door Closer: 1600BC

Available in power sizes 3 or 4. Outlined in ANSI specification A156.4. Spring power is not adjustable.

Multi-Sized Door Closer: 1601

Adjustable through the power range of sizes 1 through 6 to comply with the opening force requirements as outlined in the Americans with Disabilities Act (A.D.A.) and ANSI A117.1 for interior doors. Outlined in ANSI specification A156.4.



Optional Molded Cover - 1600P
Molded of high-impact U.L. listed material that covers the entire closer body assembly. This cover is non-handed for regular and parallel arm applications. Suffix "P" to catalog number. Not designed for top jamb applications.

Corrosion Resistant Door Closer
The series 1601SS door closers are available for use where corrosive conditions exist. This series is provided with zinc diecast adjustment valves, a 440 grade stainless steel pinion shaft, an all-aluminum body and bronze closer arm bushings; all other components and fasteners are of 302/303 grade stainless steel. This product is available for standard regular arm, top jamb and parallel arm, non-hold open, applications only. Not Tri-Style packed. "P" or "J" prefix required for parallel arm and top jamb applications.

Non-Hold Open
Self-closes door every time door is opened. Auxiliary stop (by others) required except when using the CloserPlus®, CloserPlus Spring™ or Unitrol® Arms.

Hold Open
Achieved by means of friction or ball and detent/roller. Friction hold open has a range of 90° to 180° using template location and mechanical adjustment. Ball and detent or roller hold open is effective in a range of 85° to 110°.

Hold open arm door closers are not permitted to be used on fire door assemblies.

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ALUMINUM STOREFRONT DOOR CLOSER

Door Opening Degrees

Arm Function	Regular Arm, Top Jamb Parallel Arm	Parallel Rigid Arm	*CloserPlus* Parallel Arm	*CloserPlus* Spring Parallel Arm	*Unitrol* Parallel Arm	*Unitrol* Top Jamb	Low Profile Regular, Parallel	Cushion Stop Arm
Non-Hold Open	✓	✓	85° to 110°	85° to 110°	85° to 110°	85° to 110°	✓	85° to 110°
Hold Open	90° to 180°	85° to 180°	85° to 110°	85° to 110°	85° to 110°	85° to 110°	N/A	N/A

✓ *= 180˚ trim and template permitting*

SPECIFICATIONS

1601 Series

Closers for interior and exterior doors shall be full rack-and-pinion type with cast aluminum alloy shell. Closers shall be surface mounted and shall project no more that 2-7/8" from the surface of the door. Closers shall be non-handed to permit installation on doors of either hand. Closer fluid shall contain lubricity and anti-oxidation agents. Closer fluid shall maintain stable viscosity to allow door closer to perform in temperatures ranging from extremely high to as low as -40°F. Closers shall have multi-size spring power adjustment to permit setting of spring from (1 through 6). Closers shall have two non-critical valves, hex key adjusted, to independently regulate sweep and latch speed. Closers shall have adjustable backcheck cushioning controlled by a hex key adjusted valve.

[Closer body shall be enclosed in/concealed with a full molded cover.]

[Closers shall be highly corrosion resistant and shall have all external body components of aluminum, zinc alloy or stainless steel material and all stainless steel fasteners.]

Regular arm and top jamb closers shall have a non-hold open shoe permitting 15% (+/- 7-1/2%) power adjustment. ** Norton Rixson [1601] [1601SS].

***For special arms insert the appropriate specification from column two on this page.*

1600BC Series

Closers for interior and exterior doors shall be full rack-and-pinion type with cast aluminum alloy shell. Closers shall be surface mounted and shall project no more that 2-7/8" from the surface of the door. Closers shall be non-handed to permit installation of doors of either hand. Closer fluid shall contain lubricity and anti-oxidation agents. Closer fluid shall maintain stable viscosity to allow the door closer to perform in temperatures ranging from extremely high to as low as -40°F. Closers shall be sized for each door. Closers shall have two non-critical valves, hex key adjusted, to independently regulate sweep and latch speed. [Closers shall have adjustable backcheck cushioning controlled by a hex key adjusted valve.]

Regular arm and top jamb closers shall have a non-hold open shoe permitting 15% (+/- 7-1/2%) power adjustment.** Norton Rixson [1600BC].

***For special arms insert that specification here (see column two on this page).*

**Unitrol® Arm

Door closers shall have built in-door stop [and holder] effective at one point selected at installation, from 85° - 115° in five-degree increments. Door stop shall be cushioned by a shock-absorbing heavy-duty spring action effective at the [soffit plate] [arm shoe] pivot. [Closers shall be provided for parallel arm installation using rigid steel main arm and secondary arm lengths proportional to the door width to reduce racking at the hinge/pivot.] [Closers shall be provided for top jamb installation using steel, rigid main arm and telescoping secondary arm adequate for the frame reveal of the openings.] (Closer arm shall have ball and detent hold open feature that can be engaged or disengaged by 1/4 turn of mechanism; and hold open strength shall be adjustable.)

**CloserPlus® Arm

Door closers shall have built-in door stop [and holder] effective at one point selected at installation, from 85° - 110° in five-degree increments. Door stop mechanism shall be reversible and attached to soffit plate. [Hold open mechanism shall have engage/disengage and strength selection actuated by thumbturn.] Closers shall be provided for parallel arm installation using rigid steel main and secondary arm.

**CloserPlus Spring™ Arm

Door closers shall have built in door stop[and holder] effective at one point selected at installation, from 85° - 110° in five-degree increments. Door stop mechanism shall have a buffer spring that engages prior to the dead stop feature, reducing shock loads to the door and frame assembly. Door stop mechanism shall be reversible and attached to soffit plate. [Hold open mechanism shall have engage/disengage and strength selection actuated by thumbturn.] Closers shall be provided for parallel installation using rigid steel main and secondary arm.

APPLICATIONS



Non-hold open arm shown

Regular Arm

This is the only pull-side application where a double lever arm is used. It is the most power-efficient application for a door closer. Sufficient frame, door and/or ceiling clearance must be considered.

Since the arm assembly projects directly out from the frame, this application may present an aesthetics issue or be prone to vandalism.



Non-hold open arm shown

Top Jamb

For efficiency reasons this application provides the best alternative to the regular arm application. There must be sufficient frame face and/or ceiling clearance for this application. It requires a top rail on the door of just 2-1/8" (54mm). This application provides the best door control for doors in exterior walls that swing out of a building.

The entire door closer and arm assembly project from the frame, similar to the regular arm application, where the matters of appearance and malicious abuse can be of concern. Consideration must be given to depth of the frame reveal.



Non-hold open arm shown

Parallel Arm

This application provides the most appealing design appearance for a surface-mounted door closer having a double lever arm. This may also be beneficial in vandalism-prone areas. It is on the push side of the door and the arm assembly extends almost parallel to the door. In the closed position, there is very little or no hardware projecting beyond the frame face in most situations.

Due to the geometry of the arm it is approximately 25% less power-efficient than a regular arm application.

The entire closer and arm assembly are mounted below the frame stop, requiring a top rail clearance on the door of between 5-3/8" (137mm), when using a low-profile arm (1680 series), to 6-3/8" (162mm), when using the hold open arm.

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1600
ALUMINUM STOREFRONT DOOR CLOSER

APPLICATIONS



Corner Bracket

This application can be used where top jamb and parallel arm application will not accommodate the door and frame conditions. Requires minimal top rail on the door; however, vertical clearance to the floor within the door opening should be checked to ensure code compliance.

The close proximity, for this application, of the door closer to the door's pivot point reduces the door closer's power efficiency by approximately 25% when compared to a regular arm. The projection of the arm from the door face might pose questions regarding design parameters or environment.



Non-hold open arm shown

Parallel Rigid Arm

An enhanced variation of the standard parallel arm assembly that is intended for use in heavy traffic areas where auxiliary door stops are installed.

Hold open arm available - specify hand when ordering.



Non-hold open arm shown

CloserPlus® Arm

Similar to the Parallel Rigid arm, this arm incorporates a stop at the arm's soffit plate to dead stop the door at a predetermined degree of door swing between 85° and 110°, in 5° increments. Prior to dead stop the door closer's backcheck feature slows the door speed to reduce the impact of the stop action.

The CloserPlus Arm is intended for use where an auxiliary door stop cannot be utilized and no more than moderate abuse is anticipated. Where more extreme conditions are expected, use of a Unitrol® arm is recommended.

Hold open arm available; hold open tension is adjustable.



CloserPlus Spring™ Arm

This heavy-duty stop arm includes all the features of the *CloserPlus* arm, plus an added buffer spring that is compressed prior to the arm hitting the dead stop point. This greatly reduces the shock of the stopping action that occurs with the *CloserPlus* arm.

Thumbturn hold open is available.

APPLICATIONS



Cushion Stop Arm

The Cushion Stop arm is designed to help protect the closer from damage in applications where an auxiliary stop cannot be used and moderate abuse is anticipated. Available for regular arm, non-hold open installations, this arm has a stop mounted on the arm elbow and allows the door to swing 85° to 110° based on template installation.



Unitrol® Arm

Can be used for either parallel arm or top jamb applications. *Unitrol* arms combine the features of a double lever arm overhead door stop/holder with the backcheck feature of the door closer to reduce door stopping shock loads to a minimum. The *Unitrol* uses a compression spring buffer at the soffit plate/arm shoe that will absorb 30 lbs. of force, 5° prior to the door's dead stop. Coupled with the door closer's backcheck feature, this arm provides the most controlled stop available with a surface door closer.

For parallel arm applications there are three different length arm assemblies. Each length is designed for a specific range of door widths, to provide precise door control. This further lessens the dead stop impact on the door's hinges/pivots.

Only available in painted finishes.

Specify depth of reveal when using top jamb mounting.





Low-Profile Arms

Supplied with series door closers for non-hold open installations only. Low-profile arms have a reduced height elbow joint and a straight main arm. This enables the door closer to be installed in less vertical space. Non-hold open function only.

Regular arm: allows closer to be installed where there is as little as 1" (25mm) of frame face or ceiling clearance. If installed top jamb, a 1687 drop plate is required. Order drop plate separately.



Parallel arm: allows closer to be installed 1/2" (13mm) higher up on door than standard parallel arm application. Prefix "P" to the catalog number; i.e., P1680BC, P1681.

CATALOG

SURFACE CLOSERS

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⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

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2800ST
CAM ACTION DOOR CLOSER

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INTRODUCTION

Easy Open - Secure Close

The 2800ST cam action door closer with Cam-Motion™ technology is designed to make doors easy to open while maintaining enough force to close doors securely. The 2800ST is one closer and track assembly that can support up to four installation positions and has a unique arm to simplify installation.

Ideal for applications where both security and accessibility are a priority.

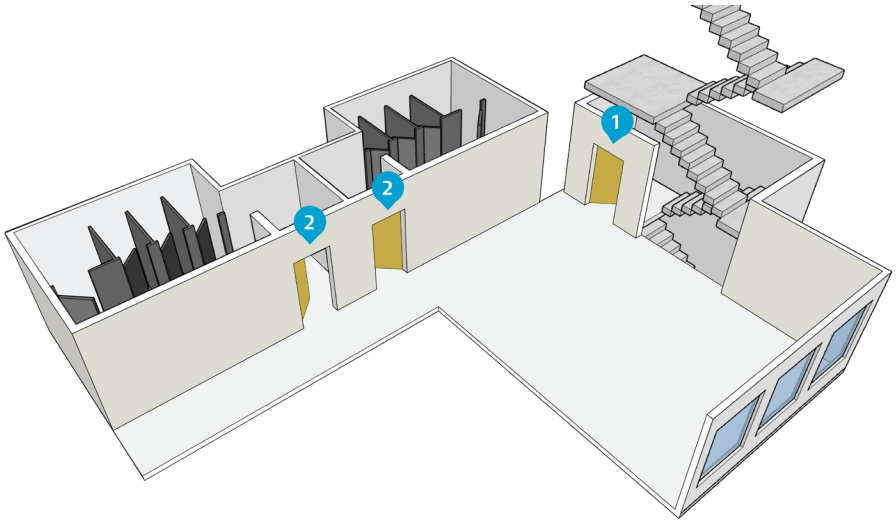


FEATURES

- Cast aluminum body
- Adjustable spring size 1 through 6
- Door weight: 250 lbs.
- Non-handed
- Unique spline arm
- Push and pull side installation, door or frame mounted
- Hold open; specify H suffix
- Sex nuts (optional)
- Adjustable closing force
- Adjustable closing and latching speed
- Backcheck standard
- Door size*:
  - Suitable for exterior and interior doors
  - Recommended maximum interior door width 54" (137)
  - Standard opening range: Pull Side = 140°, Push Side = 110°
- 30-year limited warranty

BENEFITS

- One model - four mounting options
- Easy to open
- Reliable closing
- Forward facing valves
- High efficiency
- Flexible:
  - Spline arm offers multiple indexing options to accommodate standard and special applications
  - 1/2" vertical adjustment



1

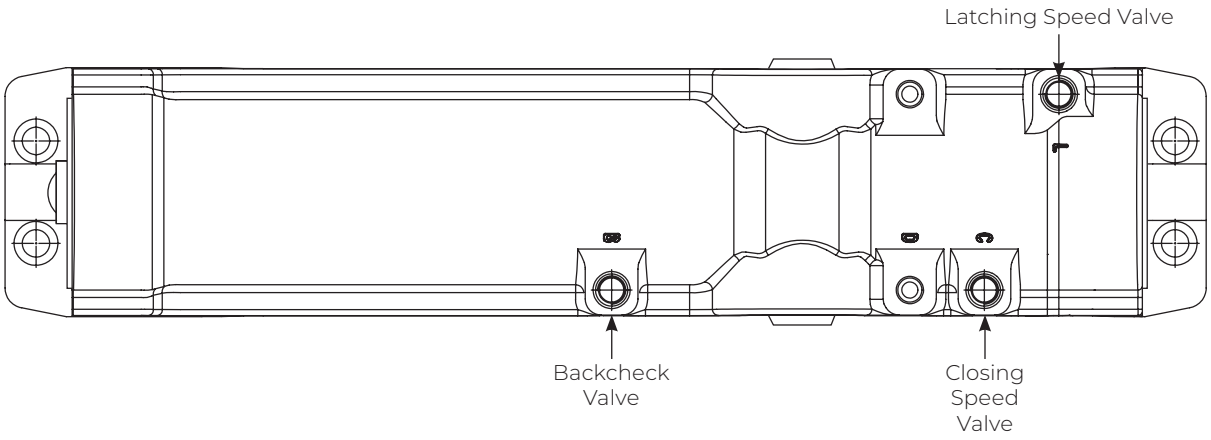
Security
The 2800ST provides reliable closing where safety is a priority, without sacrificing convenience.

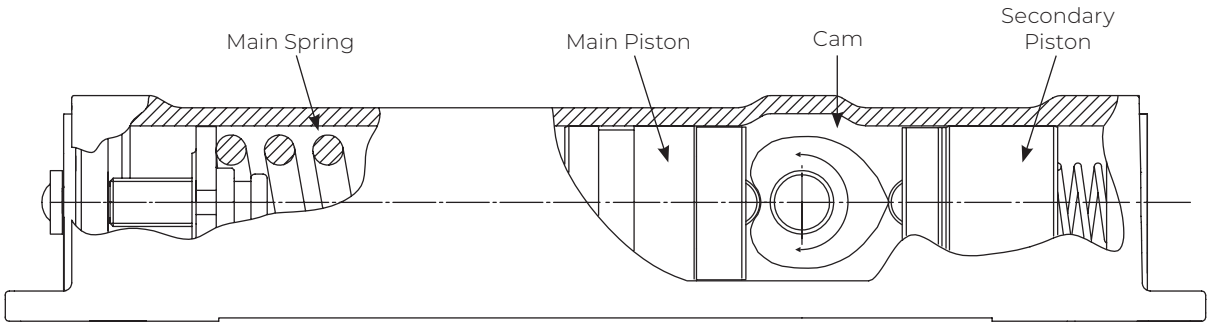
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Accessibility
Comfortable opening eases everyone's passage through frequently-used doors.

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2800ST
CAM ACTION DOOR CLOSER





CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 1
- Americans with Disabilities Act (ADA) Compliant
- Trade Agreement Act (TAA)
- UL10C positive pressure up to 3 hours
- UL-cUL listed

CAUTION: Door Closers for Low Opening Force Applications:

Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

SPECIFICATIONS

Door Closers, Surface Mounted (Cam Action): ANSI/BHMA 156.4, Grade 1 Certified Products Directory (CPD) listed surface mounted, high efficiency door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be of the cam and roller design, one piece cast aluminum silicon alloy body with adjustable backcheck and independently controlled valves for closing sweep and latch speed. Door closer to have adjustable hold open position with an on/off selector. Non-hold open units to be U.L. Listed for self-closing door. Unit to be in compliance with the requirements of the Americans With Disabilities Act (ADA). ANSI standards A117.1. Units to meet C-UL US.

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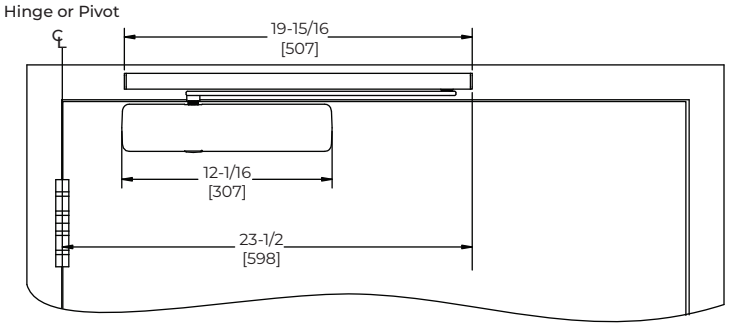
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CAM ACTION DOOR CLOSER

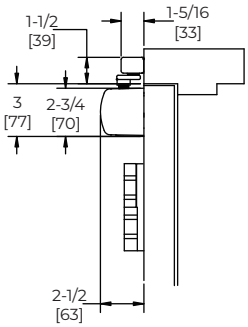
STANDARD APPLICATIONS

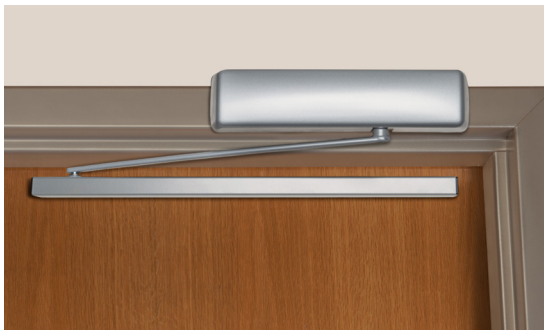


Pull Side, Door Mounted

- 140° swing (trim permitting)
- Hold open model, specify suffix "H"

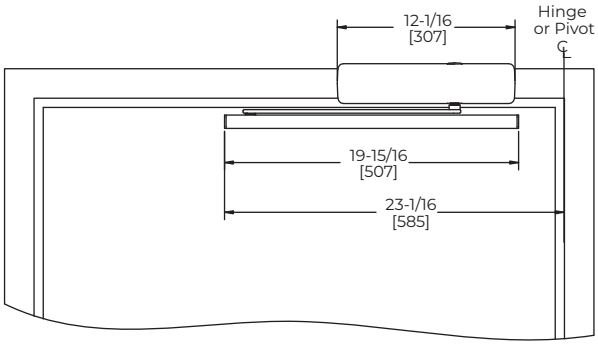


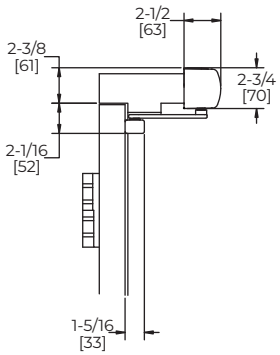




Push Side, Frame Mounted

- Maximum frame reveal is 4" (102mm)
- An auxiliary door stop is required
- 110° swing (trim permitting) without spring stop
- If hold open required, consult factory





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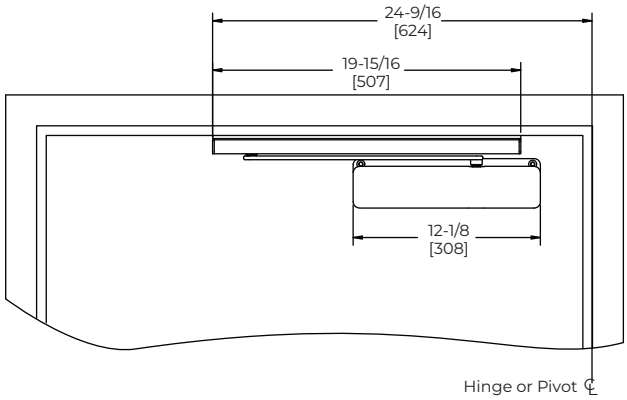
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CAM ACTION DOOR CLOSER

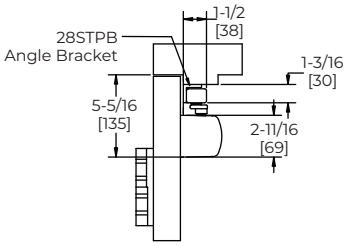
OPTIONAL APPLICATIONS

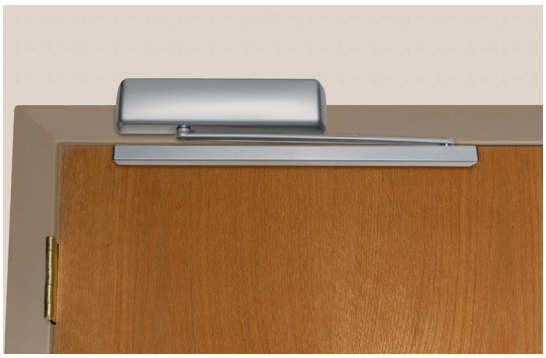


Push Side, Door Mounted

- Minimum frame reveal is 1-1/2" (13mm)
- 110° swing (trim permitting)
- 28STPB slide track angle bracket required (sold separately)
- Hold open model, specify suffix "H"

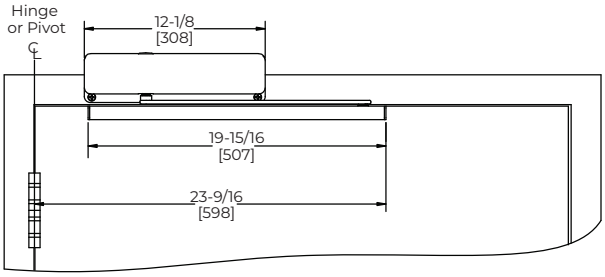


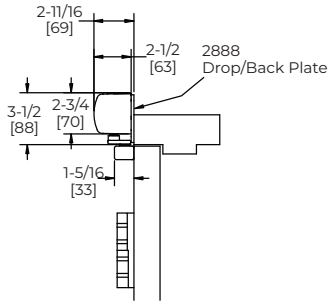




Pull Side, Frame Mounted

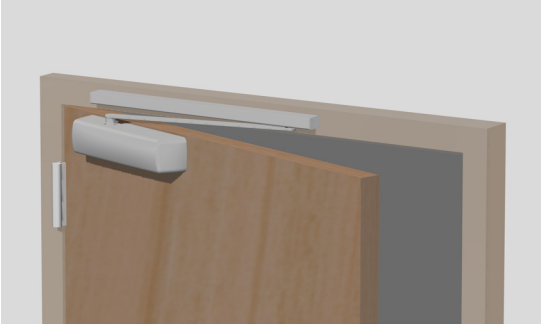
- 140° swing (trim permitting)
- 2888 back plate required if frame face is less than 3" (sold separately)
- Hold open model, specify suffix "H"





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FUNCTION



Inclusive Restroom Function

A standard 2800ST closer can be configured for an inclusive restroom application, commonly known as the telephone booth, with a minor adjustment during the installation process. See the installation instructions for specific details. When configured, the closer functions as follows:

- Closer normally holds door open at approximately ten (10) degrees; standard spline arm allows degree of hold open to be adjusted up or down
- Upon entering room, a user can push or pull the door closed
- When a user exits the room, the closer allows the door to open normally and returns the door to the preset position
- The standard cushion stop block and optional hold open assembly can be installed in the track to provide additional door control

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2800ST
CAM ACTION DOOR CLOSER

PARTS LIST

Part #	Description
2800LAP	Closer body only
28ST-1T	Track and arm assembly, non-hold open
28ST-3T	Track and arm assembly, hold open
2800P	Plastic cover
SP2800B	Closer screw pack
SP2800S	Spline screw pack
SP28T	Track screw pack
SN-134	Sex nut package: 1-3/4" door thickness
SN-214	Sex nut package: 2-1/4" door thickness
TX28*	Torx® security screw pack

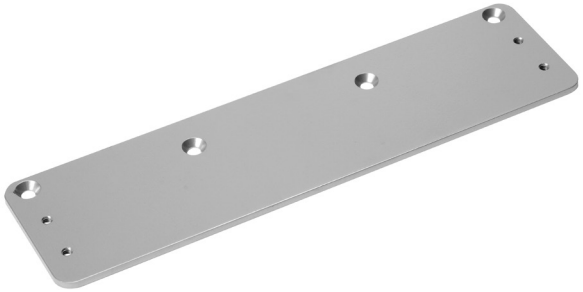
*Sex nuts included

28STHO
Hold-Open Assembly



ACCESSORIES

2888 Drop/Back Plate: For use where the narrow top rail of the door prevents the closer from being mounted directly to the door surface. This drop plate must be used for closer mounted on a top rail between 1-7/8" and 3-3/8" (48 and 86mm) in height.



28STPB - Slide Track Angle Bracket



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HOW TO ORDER

2800ST
Closer

X

H
Suffix

No Suffix – Non-hold open
H – Hold open

X

689
Finish

FINISHES

Product will be sprayed with a combination of waterborne acrylic and polyester powder coat.

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

NOTE:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).

NORTON RIXSON
ASSA ABLOY

7500
INSTITUTIONAL DOOR CLOSER

INTRODUCTION

The 7500 Series is a robust, multi-sized surface closer designed to deliver superior performance and long-term reliability. Ideal for interior or exterior doors in facilities that demand reliability, such as government, healthcare and educational institutions.



FEATURES

- Tri-Style® packaging; tri-packed for regular, top jamb or parallel arm mounting
- Non-handed
- Rack-and-pinion design
- Cast aluminum body
- Adjustable spring sizes 1-6
- Door weight: 250 lbs.
- 2-1/8" (54mm) projection
- 1-1/2" (38mm) diameter piston
- 5/8" (16mm) diameter pinion journals
- Standard, separate and independent, latch, sweep and backcheck intensity valves
- Backcheck positioning
- Staked valves
- Retrofit plates
- NorGlide® fluid
- Molded plastic cover
- All standard arm applications allow doors to swing 180°, conditions permitting
- Self-drilling screws
- Full-size template
- Application specific mounting: Regular (S), Top Jamb (JS) or Parallel (P) mount
- Heavy-duty arms: Regular Rigid, Parallel Rigid, CloserPlus®, CloserPlus Spring™ and Unitrol®
- Slide Tracks: push or pull side mounting

OPTIONAL FEATURES

- Metal cover: specify M suffix
- Enhanced backcheck. Specify EBC suffix (not available with DA)
- Delayed action with pressure relief valve
- Corrosion resistant model (non-hold open only): specify 7500SS
- Lead lined metal cover: specify MLL suffix
- Extra Power: specify 7706EP

PATENTS

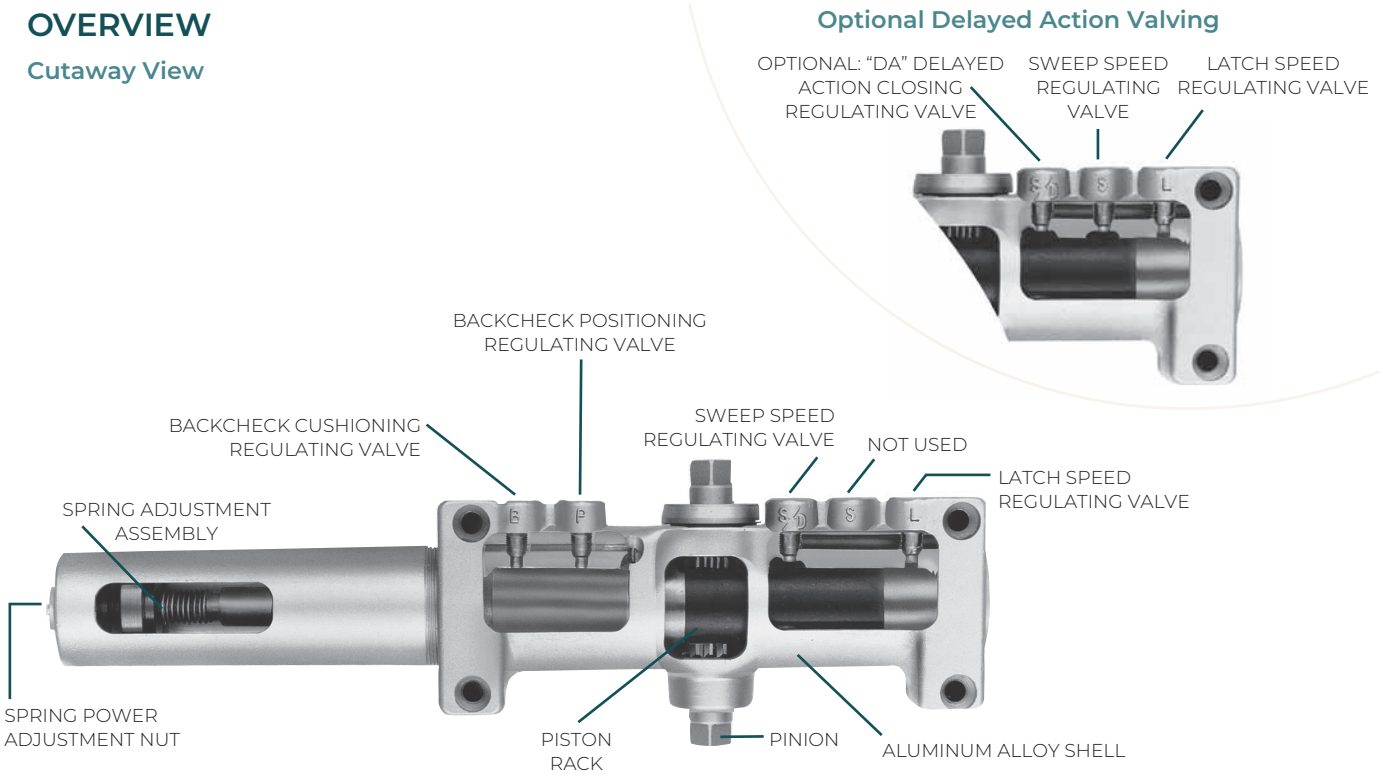
- assaabloydss.com/patents

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INSTITUTIONAL DOOR CLOSER

OVERVIEW

Cutaway View



Optional Delayed Action Valving

CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 1
- ANSI/BHMA A117.1
- Americans with Disabilities Act (ADA) Compliant
- Environmental Product Declaration (EPD)
- Health Product Declaration (HPD)
- GreenCircle Environmental facts
- UL10C positive pressure up to 3 hours
- UL-cUL listed
- Manufactured in an ISO9001, ISO14001 facility

CAUTION: Door Closers for Low Opening Force Applications:

Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

An Environmental Product Declaration (EPD) documents the cradle-to-grave life cycle of a product and how it affects the environment. An important aspect of EPD® is to provide the basis of a fair comparison of products and services by its environmental performance. EPDs can reflect the continuous environmental improvement of products and services over time and are able to communicate and add up relevant environmental information along a product's supply chain.

Windstorm

7500 door closers are UL certified for inswing and outswing single and pair (up to 8'0" x 8'0") door assemblies to ICC 500 for Storm Shelters. Closer bodies are thru-bolt mounted to the door. Additionally, the 7500 meets FEMA 361 guidelines. 7500 is part of a complete ASSA ABLOY tornado and hurricane shelter solutions utilizing Ceco StormPro 361, Curries StormPro 361, Fleming F5 doors and frames and McKinney SP hinges.

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7500
INSTITUTIONAL DOOR CLOSER

EXPLANATION OF FEATURES

Aluminum Alloy Housing
Closer bodies are constructed of a special aluminum alloy, carefully selected to accommodate interactive steel components and operating conditions.

Rack & Pinion Operation
Provides a smooth constant control of the door through its full opening and closing cycle. 180° door swing can be achieved when door, frame, hardware and arm function do not interfere.

Non-handed
With few exceptions all series 7500 door closers are non-handed and can be installed on either right or left hand swing doors. Pinion shaft extends vertically through the closer body in both directions. Some options will require that the hand of the closer be specified.

Sweep Speed Control Valve
Allows adjustment of door speed from the door's full open position down to approximately 10° from the closed position.

Latch Speed Control Value
Allows adjustment of door speed from approximately 10° down to the door's fully closed position.

Tri-Style® Packing
7500 comes with screws, brackets and soffit plates to allow for regular, top jamb, and parallel arm installations.

Adjustable Backcheck Cushion Valve
Provides control of the door in the opening cycle, beginning at approximately 75° of door opening. It slows/cushions the door opening, when the door is forcibly opened beyond its pre-adjusted limits.

Adjustable Backcheck Position Valve
Allows the door opening position, where backcheck cushioning begins, to be adjusted to a greater door angle, up to a maximum of 20° farther (approximately 95°).

Standard Molded Cover
Molded of high-impact U.L. listed material and covers the entire closer body assembly. This cover is non-handed for all applications.

Warranty
These closers carry a limited 30-year warranty against defect, and life of the building on the aluminum housing.

Closer Fluid
NorGlide® closer fluid is a specially formulated multi-viscosity hydraulic fluid that contains lubricity and anti-oxidation agents that provide optimum performance and efficiency. This fluid complements the interaction of the door closer's aluminum housing with its steel and brass components, while maintaining stable viscosity to allow the door closer to perform in temperatures ranging from extremely high to as low as -40° F.

DOOR CLOSER POWER OPTIONS

Series 7500 Multi-Sized Door Closer
Adjustable through the entire power range of door closer sizes 1 through 6, as outlined in ANSI/ BHMA standard A156.4.

The series 7500 also conforms to the minimum opening force requirements of the Americans with Disabilities Act (A.D.A.) and ANSI/ BHMA standard A117.1 for interior doors.

Extra Power
For applications that require additional closing power to overcome stack pressure, high wind, unbalanced HVAC and other issues that can prevent the doors from closing, model 7706EP is available. See page 27.

Corrosion-Resistant Door Closer
The series 7500SS door closers with molded plastic cover are available for use where corrosive conditions exist. This series is provided with brass adjustment valves, a 440 grade stainless steel pinion shaft, an all-aluminum body and bronze closer arm bushings; all other components are of 302/303 grade stainless steel. Fasteners are 8-18 stainless steel. This product is available for standard regular arm, top jamb and parallel arm, non-hold open, applications only.

Optional Metal Cover
This steel cover is non-handed for regular and parallel arm applications, but is handed for top jamb applications.

Cover is available in sprayed or architectural plated finishes.

Security Cover
Supplied standard with all series 7570 door closers. This deep drawn steel cover is handed for all applications. The cover is fastened to the closer body at two points on top and to the door closer body stand-offs at two points on the bottom.



Optional ABS Cover
Consult factory for details.

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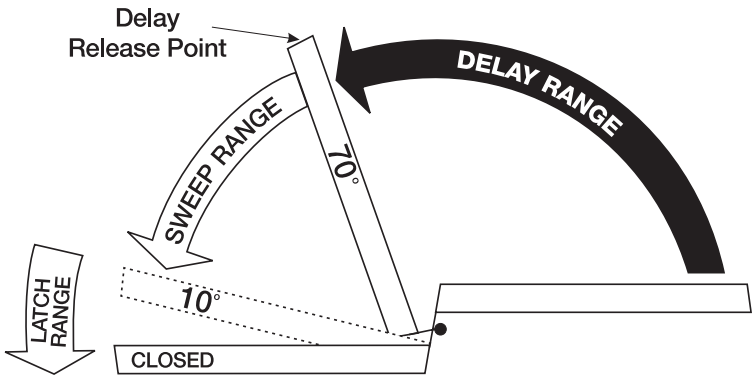
EXPLANATION OF FEATURES

Enhanced Backcheck

This feature provides adjustable backcheck intensity beginning at approximately 15° of the door opening cycle. It is intended for use in situations where the standard backcheck beginning at approximately 75° of door opening allows too much unrestricted door travel to obtain control of the door without the fear of peripheral damage to the door closer, door, frame, hinges or pivots; or adjacent walls or structures. This feature is most frequently used in schools and detention facilities. Specify suffix EBC (not available with Delayed Action).

Adjustable Delayed Action Closing

An optional hydraulic feature that adds a third speed range to the closing cycle. This feature becomes effective when the door is opened and released at any point beyond 70°. The amount of time delay depends upon the combination of the angle of door release and valve adjustment. The valve can be adjusted with a 1/8" (3mm) hex key from no delay time up to maximum delay times of:



Door Opened and Released at	Approximate Time of Delay Cycle
180°	4-5 minutes
120°	2-3 minutes
90°	25-30 seconds

Pressure Relief Safety Valve

The delayed action hydraulic system contains a pressure relief valve. Any time the door is forced toward the closed direction while it is in the closing cycle, the valve will open and permit the door to close. This prevents damage to door, frame and closer.

Suggested Applications

Delayed Action closing allows slow-moving traffic to clear the opening before the door closer's normal closing cycle begins. This feature can be helpful in health care facilities such as hospitals and nursing homes. It provides sufficient time for persons on crutches or in wheelchairs to pass through a door without concern of it closing. At the same time, it can accommodate the facility's staff with movement of food service carts, beds, and other wheeled traffic.

Use of delayed action closers on many doors throughout industrial and commercial buildings can also assist the flow of traffic. Locations where additional time to clear the opening is advantageous are doors between office and factory/warehouse facilities, doors to workshops or laboratories, to kitchen and food processing areas, etc.

OPTIONAL FEATURES – ARMS

Non-Hold Open

Self-closes door every time door is opened. Auxiliary stop (by others) required except when using the CloserPlus®, CloserPlus Spring™ or Unitrol® arms.

Hold Open

Achieved by means of ball and detent/roller. Ball and detent or roller hold open is effective in a range of 85° to 110°.

Hold open arm door closers are not permitted to be used on fire door assemblies.

Door Opening Degrees

Arm Function	Regular Top Jamb Parallel Arm	Parallel Rigid Arm	CloserPlus® Parallel Arm	CloserPlus Spring™ Parallel Arm	Unitrol® Parallel Arm	Unitrol® Top Jamb	Low Profile Regular, Parallel	Slide Track
Non-Hold Open	✓	✓	85° to 110°	85° to 110°	85° to 110°	85° to 110°	✓	85° to 110°/180°
Hold Open	90° to 180°	85° to 180°	85° to 110°	85° to 110°	85° to 110°	85° to 110°	N/A	85° to 110°

✓=180° trim and template permitting

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SUGGESTED SPECIFICATIONS

7500 Series

Closers for interior and exterior doors shall be full rack-and-pinion type with cast aluminum alloy body. Closers shall be surface mounted and shall project no more that 2-3/16" (55mm) from the surface of the door. Closers shall be non-handed to permit installation on doors of either hand. Closer fluid shall contain lubricity and anti-oxidation agents. Closer fluid shall maintain stable viscosity to allow door closer to perform in temperatures ranging from extremely high to as low as -40°F. Closers shall have multi-size spring power adjustment to permit setting of spring from size 1 through size 6. Closers shall have two non-critical valves, hex key adjusted, to independently regulate sweep speed and latch speed.

Closers shall have backcheck cushioning controlled by a hex key adjusted valve. Closers shall have backcheck position controlled by a hex key adjusted valve.

[Closers shall have adjustable delayed-action closing controlled by a hex key adjustable valve.]

[Closers shall be highly corrosion resistant and shall have all external body components of aluminum, brass or stainless steel material and all fasteners of stainless steel.]

Regular arm and top jamb closers shall have a non-hold open shoe permitting 15% (+/ – 7-1/2%) power adjustment. **Closers shall be enclosed in a [molded resin cover] [plated or sprayed metal cover]. Closers to be Norton Rixson [7500] [7500M] [7500SS].

**For special arms insert the appropriate specification from column two on this page.

**Unitrol® Arm

Door closers shall have a fixed door stop feature effective at one point selected at installation, from 85° - 110° in five-degree increments. Door stop shall be cushioned by a shock-absorbing heavy-duty spring action effective at the [soffit plate] [arm shoe] pivot. [Closers shall be provided for parallel arm installation using rigid steel main arm and secondary arm lengths proportional to the door width.] [Closers shall be provided for top jamb installation using steel, rigid main arm and telescoping secondary arm adequate for the frame reveal of the openings.]

**CloserPlus® Arm

Door closers shall have a field reversible door stop. Hold open tension shall be adjustable effective at one point selected at installation, from 85° - 110° in five degree increments. Closers shall be provided for parallel arm installation using a forged rigid steel main arm and secondary arm.

**CloserPlus Spring™ Arm

Door closers shall have built-in door stop [and holder] effective at one point selected at installation, from 85° - 110° in five-degree increments. Door stop mechanism shall be reversible and have a buffer spring that engages prior to the dead stop feature, reducing shock loads to the door and frame assembly. Door stop mechanism shall be attached to soffit plate. [Hold open mechanism shall have engage/disengage selection actuated by thumbturn]. Closers shall be provided for parallel installation using a forged rigid steel main arm and secondary arm.

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APPLICATIONS



Non-hold open arm shown

Regular Arm

This is the only pull-side application where a double lever arm is used. It is the most power efficient application for a door closer. Sufficient frame, door and/or ceiling clearance must be considered.

Since the arm assembly projects directly out from the frame, this application may present an aesthetics issue or be prone to vandalism.



Parallel Arm

This application provides the most appealing design appearance for a surface-mounted door closer having a double lever arm. This also makes it beneficial in vandalism-prone areas. It is on the push side of the door and the arm assembly extends almost parallel to the door. In the closed position, there is very little or no hardware projecting beyond the frame face in most situations.

Due to the geometry of the arm it is approximately 25% less power-efficient than a regular arm application. The entire closer and arm assembly are mounted below the frame stop, requiring a top rail clearance on the door of between 6-5/8" (168mm), when using a low profile arm, to 7-1/4" (184mm), when using the hold open arm.



Non-hold open arm shown

Top Jamb

For efficiency reasons this application provides the best alternative to the regular arm application. There must be sufficient frame face and/or ceiling clearance for this application. It requires a top rail on the door of just 2-1/8" (54mm). This application provides the best door control for doors in exterior walls that swing out of a building.

The entire door closer and arm assembly project from the frame, similar to the regular arm application, where matters of appearance and malicious abuse can be of concern. Consideration must be given to depth of frame reveal.

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7500
INSTITUTIONAL DOOR CLOSER

APPLICATIONS



Non-hold open arm shown

Parallel Rigid Arm

An enhanced variation of the standard parallel arm assembly that is intended for use in heavy traffic areas where auxiliary door stops are installed.

Hold open available - specify hand when ordering.



Non-hold open arm shown

CloserPlus® Arm

Similar to the Parallel Rigid arm, this arm incorporates a stop at the arm's soffit plate to dead stop the door at a predetermined degree of door swing between 85° and 110°, in 5° increments. Prior to dead stop the door closer's backcheck feature slows the door speed to reduce the impact of the stop action.

The CloserPlus arm is intended for use where an auxiliary door stop cannot be utilized and no more than moderate abuse is anticipated. Where more extreme conditions are expected, use of a Unitrol® arm is recommended.

Hold open strength is adjustable.



Non-hold open arm shown

CloserPlus Spring™

This arm has all of the characteristics of the CloserPlus arm with an additional steel buffer spring that provides greater protection at the end of the door opening cycle.

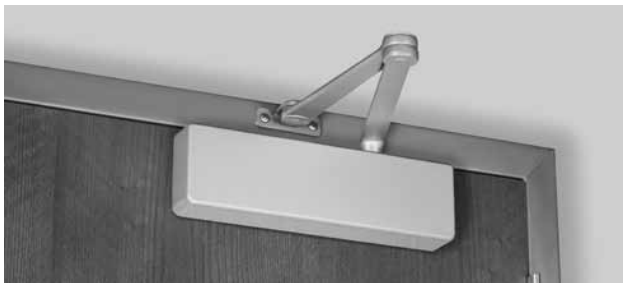
For extreme conditions, use of a Unitrol arm is recommended. Available with or without hold open.



CloserPlus Ramp™

The CLP-R uses a patent pending ramp and plunger design that easily slides into place reducing wear often seen on traditional hold open arms. Ideal for applications where the door will constantly be pulled out of hold open.

APPLICATIONS



Regular Rigid Heavy-Duty Arm

This double lever arm features a non-adjustable secondary arm. Orbitally riveted joints prevent tampering or disassembly. Prefix “R” to model number. **Available non-hold open only.**



Non-hold open arm shown

Parallel Rigid Offset Arm

This heavy-duty parallel rigid arm provides additional vertical clearance. It is well suited for applications where weather-stripping or other hardware prevents the use of the standard Parallel Rigid (PR) soffit plate. The non-hold open and hold arms allow 1-1/4" clearance. When used in conjunction with a 6891 spacer block, the PRO arm provides 1-7/8" clearance to accommodate the use of a surface overhead stop/holder.



Unitrol® parallel arm



Unitrol® top jamb

Unitrol® Arm

Can be used for either parallel arm or top jamb applications. Unitrol arms combine the features of a double lever arm overhead door stop/holder with the backcheck feature of the door closer to reduce door stopping shock loads to a minimum. The Unitrol uses a compression spring buffer at the soffit plate/arm shoe that will absorb 30 lbs. of force, 5° prior to the door’s dead stop. Coupled with the door closer’s backcheck feature, this arm provides the most controlled stop available with a surface door closer.

For parallel arm applications there are three different length arm assemblies. Each length is designed for a specific range of door widths to provide precise door control. This further lessens the dead stop impact on the door’s hinges/pivots.

Only available in painted finishes.

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APPLICATIONS



Pull side



Low profile pull side



Push side



Low profile push side

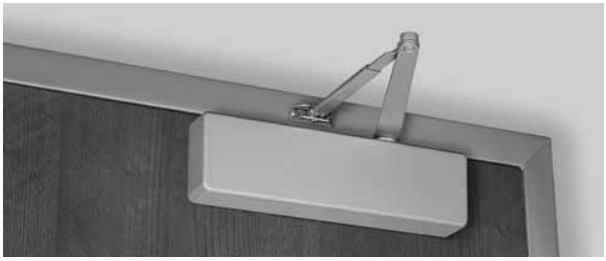
Slide Track

Whether pull or push side mounted, slide track applications provide the designer with the smoothest lines available in a surface mounted door closer. The single lever arm allows components to be located in a stack configuration to minimize projection and eliminate obtrusive arm angles. The arm geometry reduces door closer power efficiency by approximately 25% from that of a regular arm.

A variation of the standard slide track application is available for pocket doors, where it is desirable to have the door closer completely concealed when the door is in the 90° open position. See page 26 for details.

Standard Unit:

- Adjustable 85° to 110° (hold open and non-hold open). Track is supplied with a spring buffered stop. An auxiliary stop, by others, is recommended.
  - Specify if hold open unit is required.
  - 180° swing (non-hold open, pull side only) is also available. This track assembly requires that a door stop, by others, be supplied to stop the door.



Regular Arm - allows closer to be installed where there is as little as 1" (25mm) of frame face or ceiling clearance.



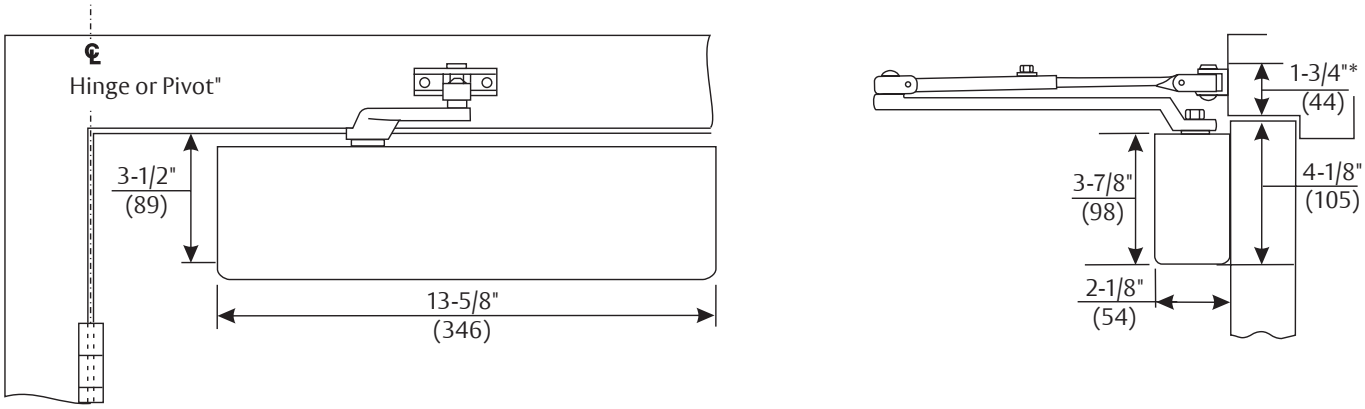
Parallel Arm - allows closer to be installed 1/2" (13mm) higher up on door than standard parallel arm application.

Low Profile Arm

Supplied with 7580 series door closers for non-hold open installations only. Low profile arms have a reduced height elbow joint and a straight main arm. This enables the door closer to be installed in less vertical space.

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REGULAR ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.
* This dimension will vary. Standard non-hold open arm illustrated.

Model	
Non-Hold Open	Hold Open
7500	7500H

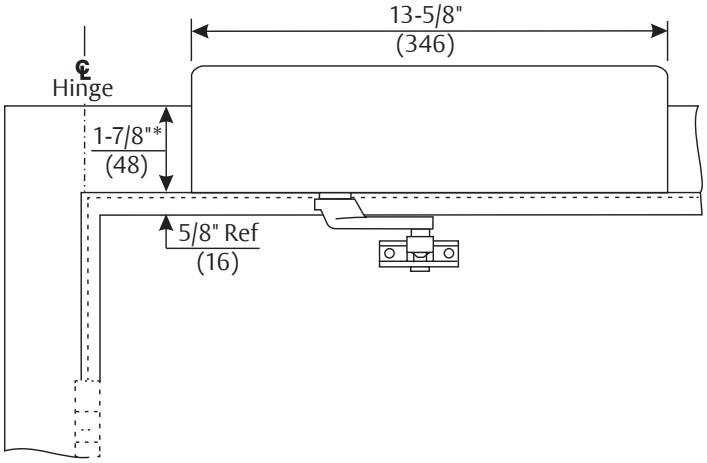
Notes:

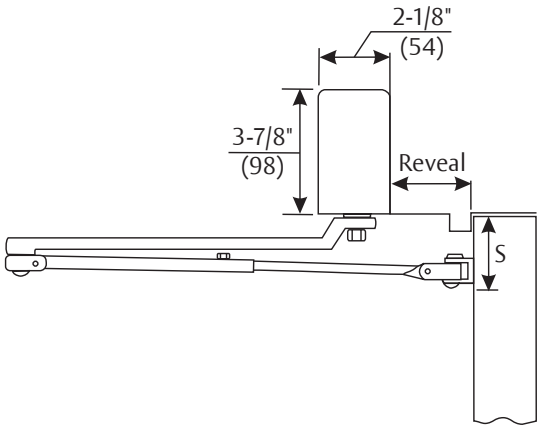
- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-54" (81-137cm)
  exterior 30"-48" (76-122cm)

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7500
INSTITUTIONAL DOOR CLOSER

TOP JAMB ARM





Mounting holes for closer body are spaced 2-3/8" (86mm) vertically x 6-3/4" (171mm) horizontally.
* Minimum frame face with 7786 drop plate. 3-1/4" (83mm) required when drop plate is not used.

Maximum Door Width Inches (cm)	Reveal Range Inches	Maximum Door Opening
Multi-Sized	**Non-Hold Open Arm**	
(JS)7500/7500M	0" to 3" (0 to 76mm)	180˚
J7500	2-3/4" to 7" (70 to 178mm)	150˚
JL7500	2-3/4" to 7" (70 to 178mm)	180˚
J7580 x 7787	0" to 2-3/4" (0 to 70mm)	180˚
Multi-Sized	**Hold Open Arm**	
J7500/J7530MH	0" to 3" (0 to 76mm)	180˚
J7500H	2-3/4" to 6-3/4" (70 to 171mm)	150˚
JL7500H	2-3/4" to 6-3/4" (70 to 171mm)	180˚

Model	
Non-Hold Open	**Hold Open**
7500 J7500 JL7500	7500H J7500H JL7500H

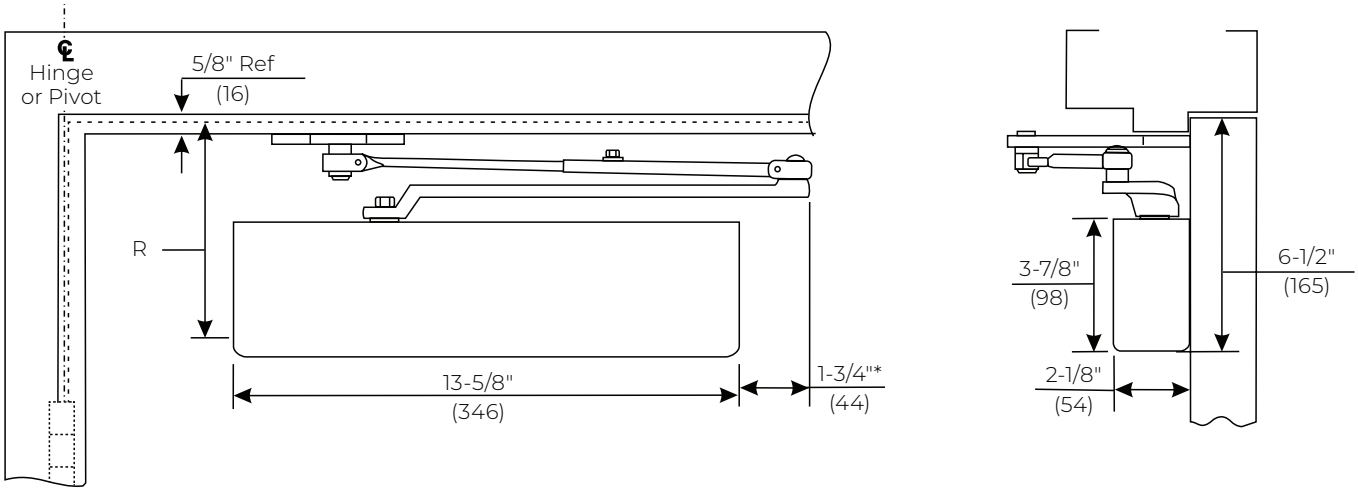
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-54" (81-137cm)
  exterior 30"-48" (76-122cm)

S Minimum Top Rail of Door					
Without Drop Plate or with 7786 Back Plate (mm)			**With 7787 Drop Plate (mm)**		
J7500/ J7530M J7500	J7500H/ J7530MH J7500H	J7580	J7500/ J7530M J7500	J7500H/ J7530MH J7500H	J7580
2" (51mm)	2-1/2" (64mm)	N/A	4-1/8" (105mm)	4-5/8" (117mm)	3-5/8" (92mm)

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PARALLEL ARM



Mounting holes for closer body are spaced 2-3/8" (86mm) vertically x 6-3/4" (171mm) horizontally.
* This dimension will vary. Standard non-hold open arm illustrated.

Model	
Non-Hold Open	Hold Open
7500	7500H

R (inches/mm) Minimum Top Rail of Door with 5/8" (16mm) Frame Stop				
Without Drop Plate			With 7788 Drop Plate	
P7500	P7500H	P7580	P7500H	P7580
5-7/8" (149)	6-1/4" (159)	5-3/8" (137)	2-3/4" (70)	1-7/8" (48)

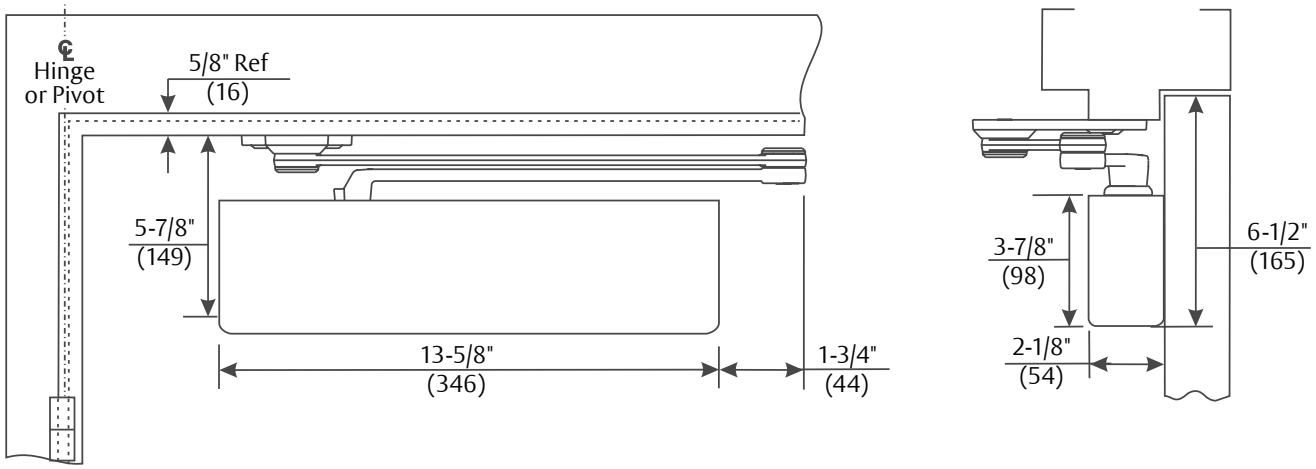
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 30"-54" (76-137cm)
  exterior 30"-48" (76-122cm)

NORTON RIXSON
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7500
INSTITUTIONAL DOOR CLOSER

PARALLEL RIGID ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

Model	
Non-Hold Open	Hold Open*
PR7500	PR7500H

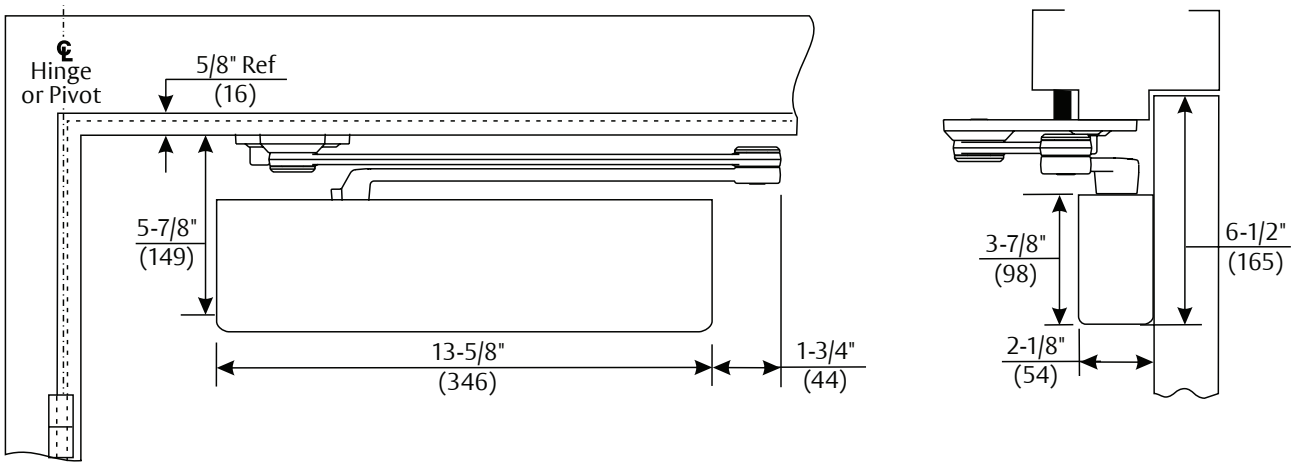
*Specify hand when ordering.

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 30"-48" (76-122cm)
  exterior 32"-48" (81-122cm)

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CLOSERPLUS® ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

Model		
Non-Hold Open	Thumbturn Hold Open	Ramp Hold Open
CLP7500	CLP7500T	CLP7500R

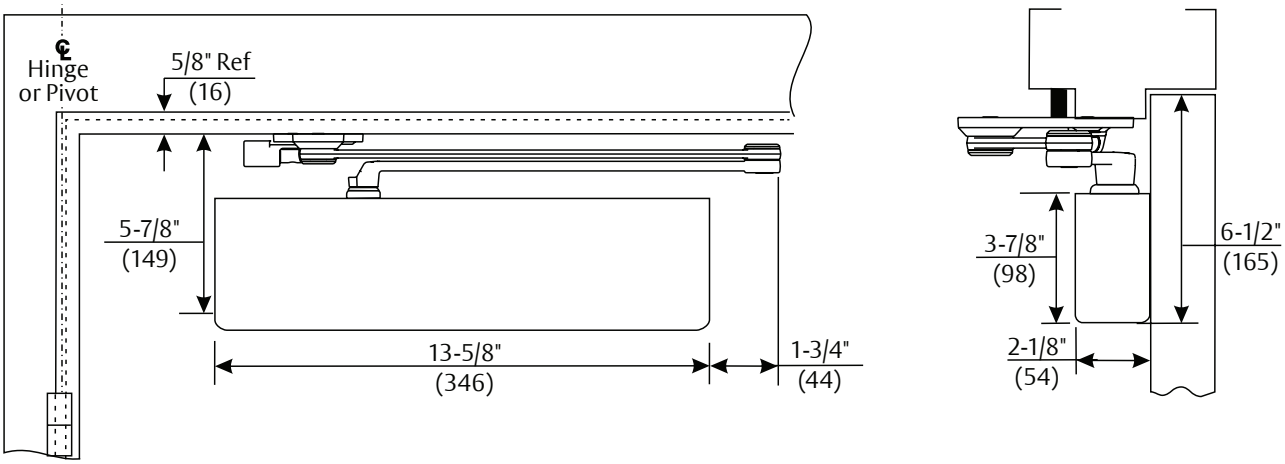
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 30"-48" (76-122cm)
  exterior 32"-48" (81-122cm)

NORTON RIXSON
ASSA ABLOY

7500
INSTITUTIONAL DOOR CLOSER

CLOSERPLUS SPRING™ ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

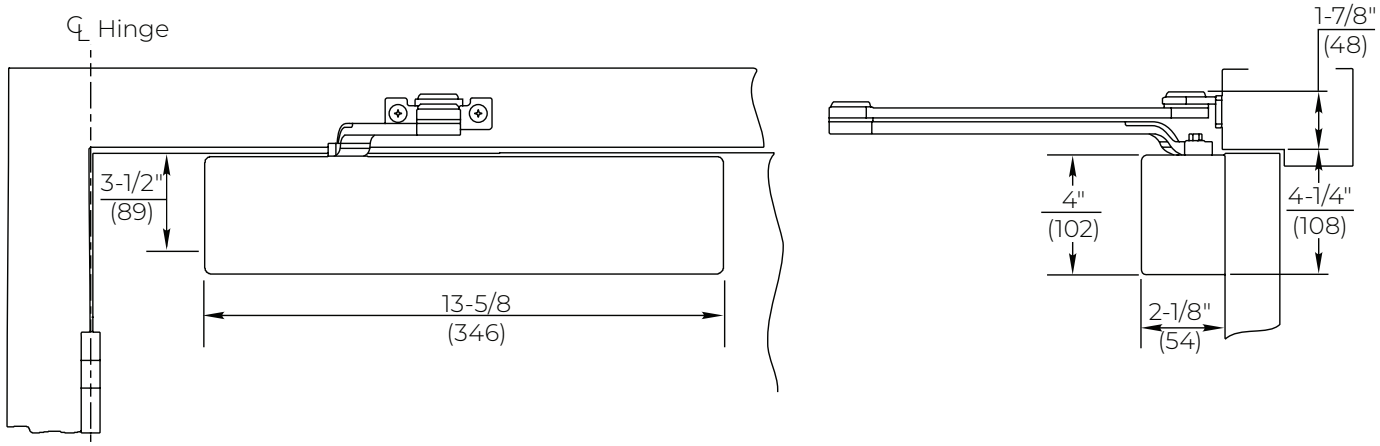
Model	
Non-Hold Open	Thumbturn Hold Open
CPS7500	CPS7500T

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 30"-48" (76-122cm)
  exterior 32"-48" (81-122cm)

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REGULAR RIGID HEAVY-DUTY ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

Model
Non-Hold Open Only
R7500

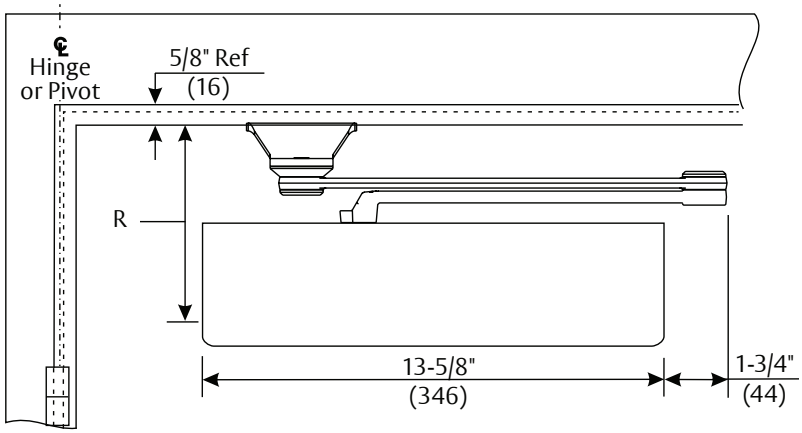
Notes:

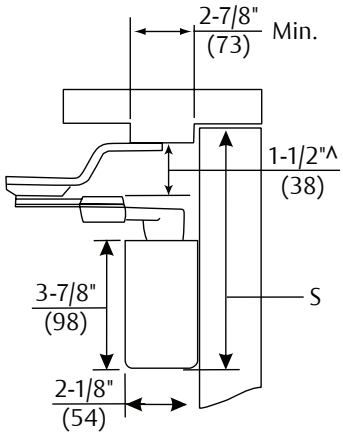
- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 30"-54" (76-137cm)
  exterior 30"-52" (76-132cm)

NORTON RIXSON
ASSA ABLOY

7500
INSTITUTIONAL DOOR CLOSER

PARALLEL RIGID OFFSET ARM





Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.
^ If clearance greater than 1-1/2" is needed, 6891 spacer block is required.

R (inches/mm) Minimum Top Rail of Door with 5/8" (16mm) Frame Stop		S Minimum Top Rail of Door	
Without 6891 Spacer	With 6891 Spacer	Without 6891 Spacer	With 6891 Spacer
7-1/8" (181)	7-5/8" (194)	7-5/8" (194)	8-1/8" (206)

Model	
Non-Hold Open	Hold Open*
PRO7500	PRO7500H

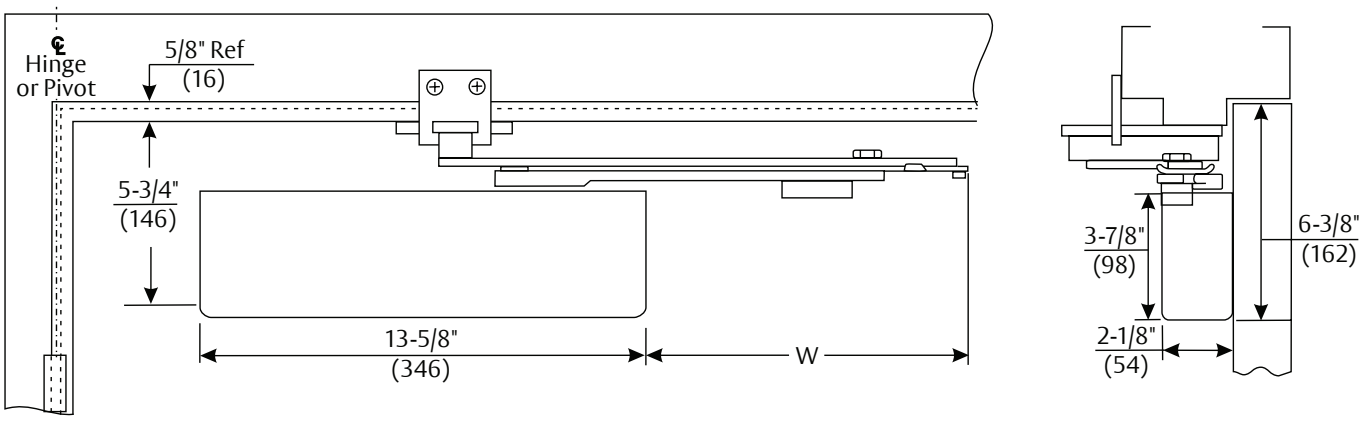
*Specify hand when ordering.

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 30"-48" (76-122cm)
  exterior 32"-48" (81-122cm)

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PARALLEL UNITROL® ARM



Mounting holes for closer body are spaced 2-3/8" (86mm) vertically x 6-3/4" (171mm) horizontally.
Door width must be specified when ordering.

Door Width inches/cm	W Arm Extension Beyond Closer
28-32" (71-81)	8-5/8" (219)
33-41" (84-104)	10-1/8" (257)
42-48" (107-122)	11-1/2" (292)

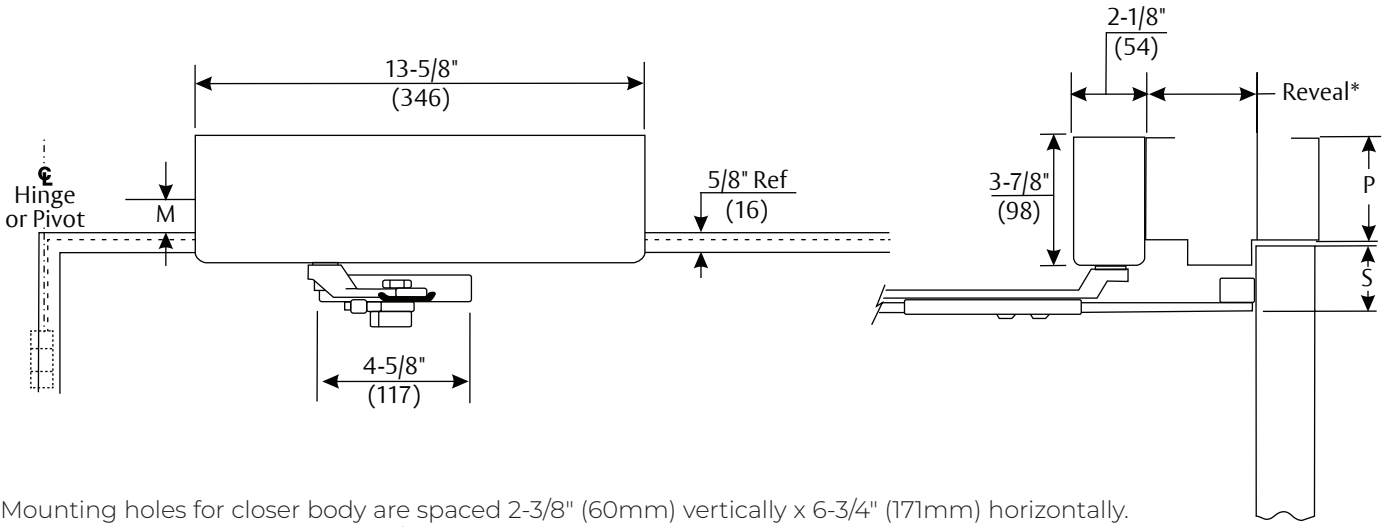
Model		
Non-Hold Open	Hold Open	x Specify Door Width
UNI7500	UNI7500H	

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 30"-48" (76-122cm)

NORTON RIXSON
ASSA ABLOY

TOP JAMB UNITROL® ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.
* Reveals up to a maximum of 7-3/8" (187mm).
Reveal must be specified when ordering.

Use 6190 bracket for reveals 1-7/8" - 4-5/8" (48 to 117mm). Reveals in excess of 4-5/8" (117mm) require use of a 6191 reinforcing kit. Reveals to 1/8" (3mm) require use of a 2019L angle bracket.

Backplates	M Minimum Frame Face	P Minimum Ceiling Clearance	S Minimum Top Rail Clearance
7786^	1-5/8" (41)	3-1/8" (79)	2-1/4" (57)
7787	1-7/8" (48)		3-1/2" (89)

^ supplied standard with closer

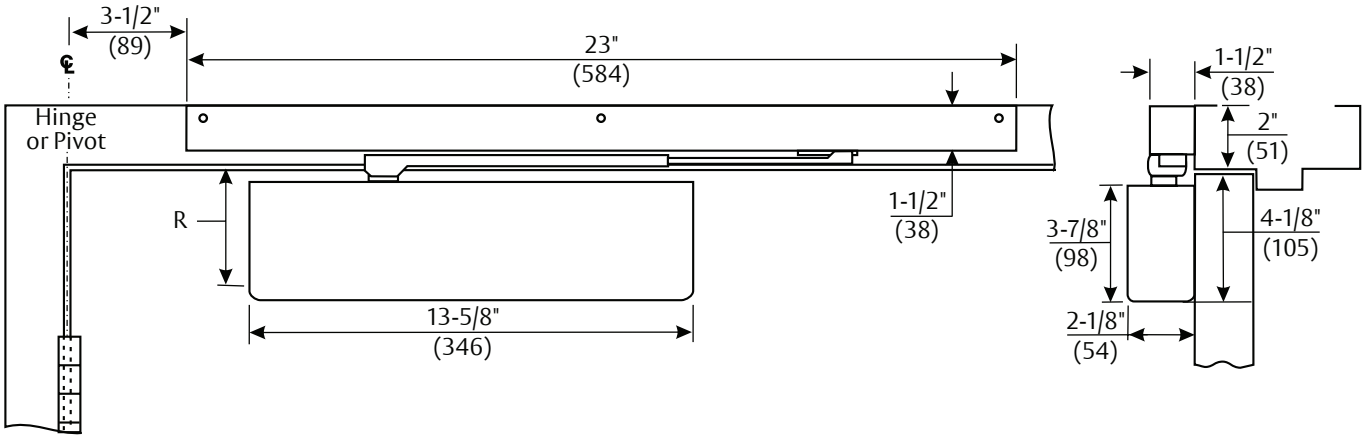
Model		
Non-Hold Open	Hold Open	x Specify Frame Reveal
UNIJ7500	UNIJ7500H	

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 34"-54" (86-137cm)

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PULL SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

R (inches/mm) Minimum Top Rail of Door with Frame Stop	
Without Drop Plate	**With 7786 Drop Plate**
3-1/2" (89)	2-5/8" (67)

Model	
Non-Hold Open	**Hold Open**
7500ST	7500STH

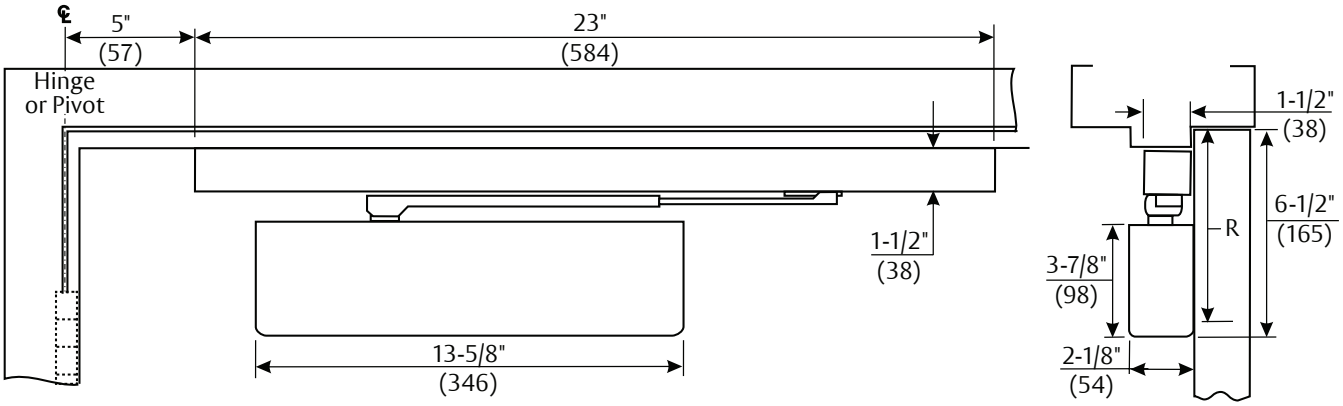
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-48" (81-122cm)
  exterior 32"-38" (81-97cm)

NORTON RIXSON
ASSA ABLOY

7500
INSTITUTIONAL DOOR CLOSER

PUSH SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

R (inches/mm) Minimum Top Rail of Door with Frame Stop	
Without Drop Plate	With 7786 Drop Plate
6" (152)	2-5/8" (67)

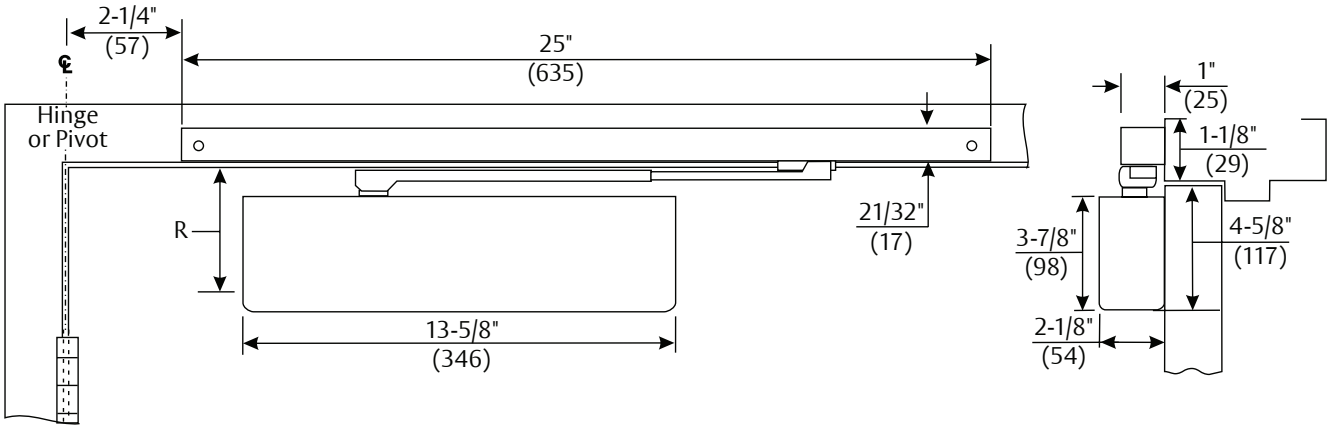
Model	
Non-Hold Open	Hold Open
PS7500ST	PS7500STH

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-48" (81-122cm)
  exterior 32"-38" (81-97cm)

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LOW PROFILE PULL SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

R (inches/mm) Minimum Top Rail of Door with Frame Stop	
Without Drop Plate	With 7786 Drop Plate
3-1/2" (89)	2" (51)

Model	
Non-Hold Open	Hold Open
7540ST	7540STH

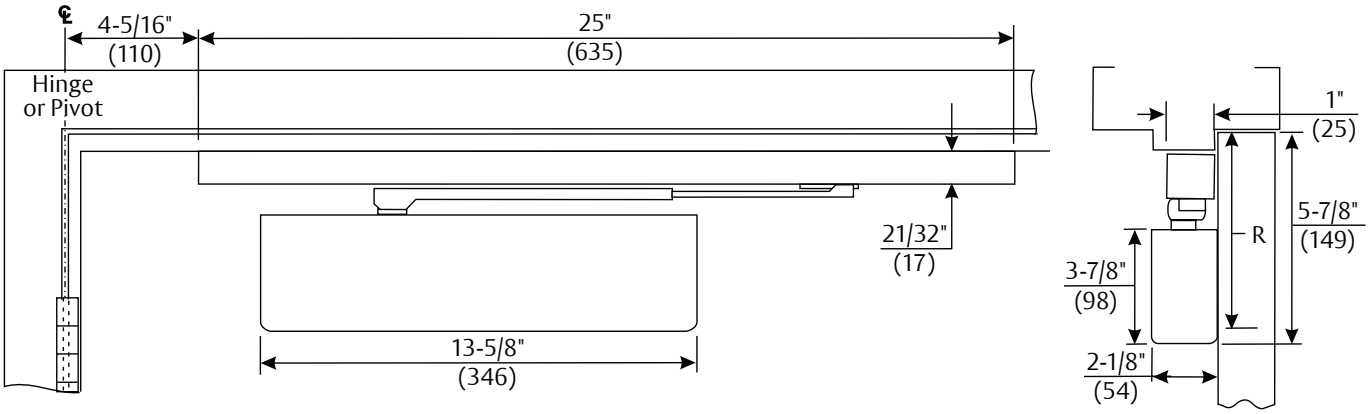
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-48" (81-122cm)

NORTON RIXSON
ASSA ABLOY

7500
INSTITUTIONAL DOOR CLOSER

LOW PROFILE PUSH SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

R (inches/mm) Minimum Top Rail of Door with Frame Stop	
Without Drop Plate	With 7786 Drop Plate
5-1/4" (133)	3-5/8" (92)

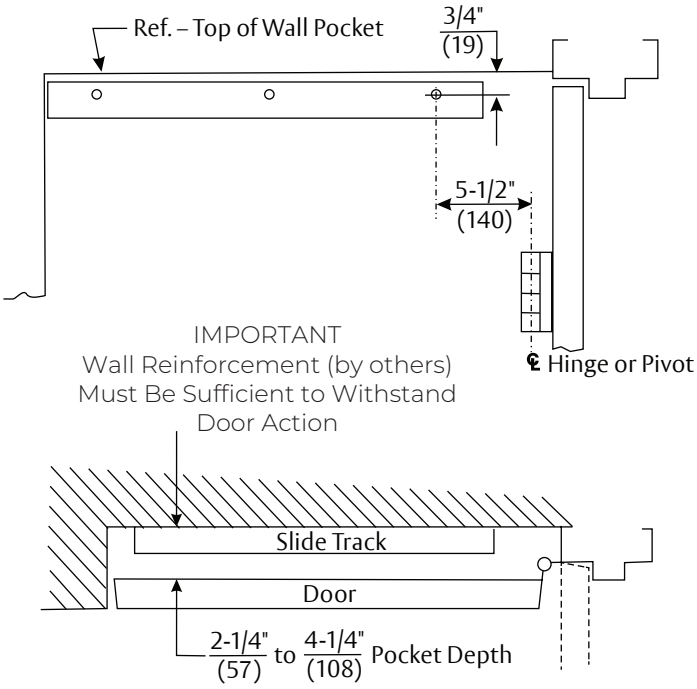
Model	
Non-Hold Open	Hold Open
PS7540ST	PS7540STH

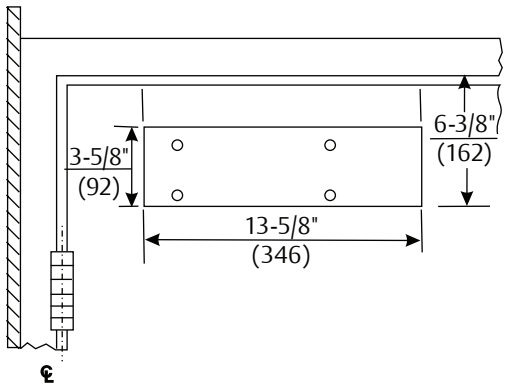
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-48" (81-122cm)

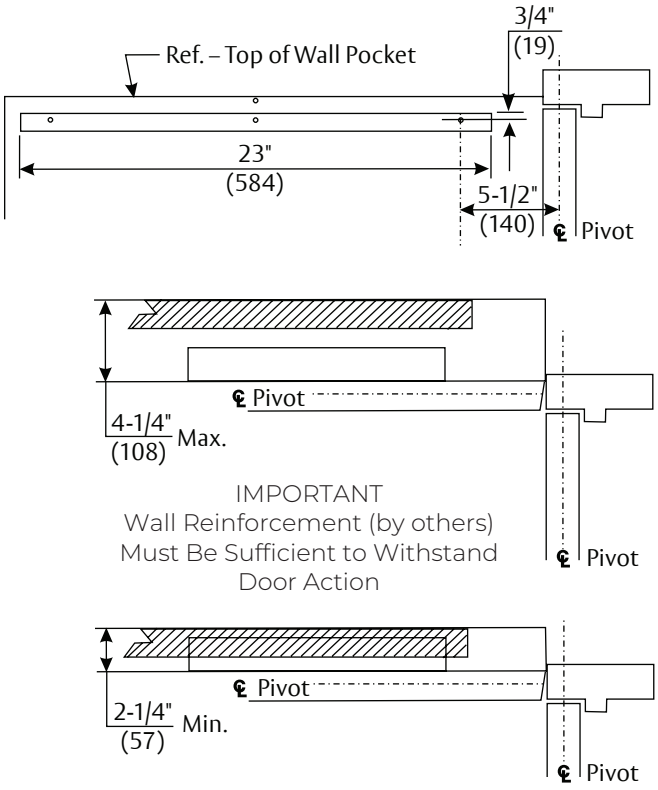
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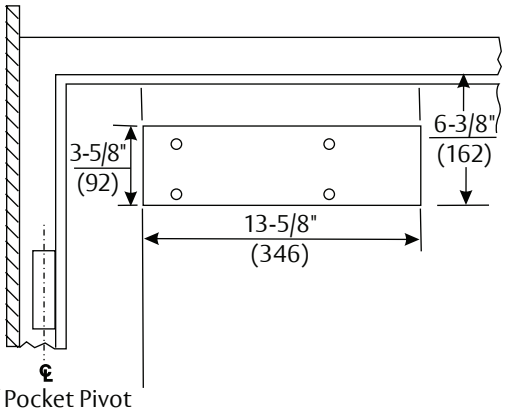
POCKET DOOR 7706EPSTP





7706EPSTP Closers
Slide Track for 90° Wall Pocket Installation
For Pocket Depths 2-1/4" to 4-1/4" (57mm to 108mm)





NORTON RIXSON
ASSA ABLOY

HIGH CLOSING FORCE 7706EP

The 7706EP is a heavy-duty closer that features additional spring power to overcome stack pressure, high wind, unbalanced HVAC and other issues that can prevent doors from closing. This closer offers as much as 22 lbs of closing force (not adjustable). Specify regular, top jamb or parallel arm when ordering; degree of swing determines the exact lbs. Non-ADA doors only.

Model	Approximate Closing Force
7500	3-14 lbs.
7706EP	13-22 lbs.

The 7706EP is an ideal problem solver for applications where consistent door closing and latching is a challenge, and security, safety and energy efficiency are high priorities.

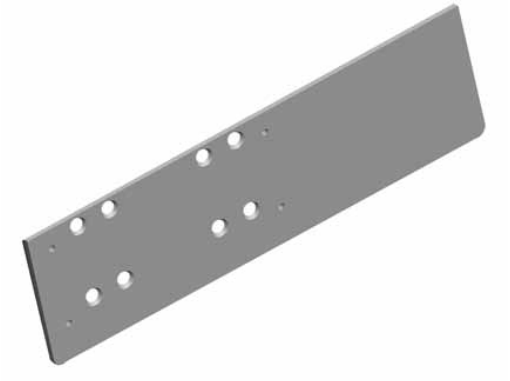
RETROFIT PLATE

The retrofit plates allow the 7500 door closers to replace the 4040 or 4010 closers without modifying the existing hole pattern in the door. The plates will work with regular and parallel arm applications.

Part Number	Replaces
RP75-4040	LCN-4040XP
RP75-4010	LCN-4010, 4011

Notes:

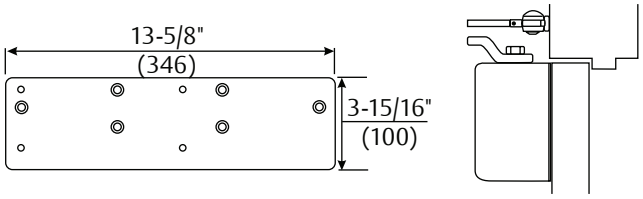
- The location of the arm shoe on the frame will change, therefore the frame must be patched.

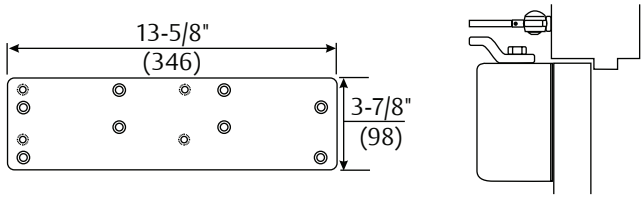


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REGULAR ARM

Closer Mounting Plate

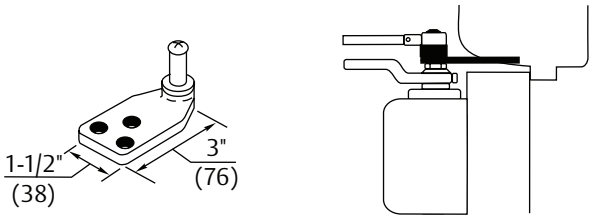


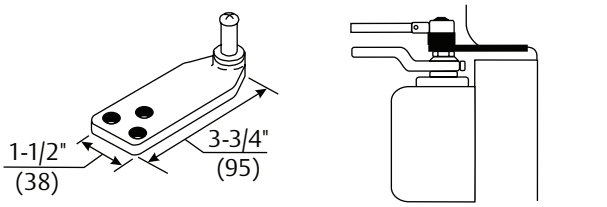


Narrow Top Rail - 7786 Drop Plate: For use where the narrow top rail of the door prevents the closer from being mounted directly to the door surface. This drop plate must be used for closer mounted on a top rail between 1-7/8" and 3-3/8" (48 and 86mm) in height.

Overhead Door Holder - 7786OH Drop Plate: For use when the presence of a surface or concealed overhead door holder prevents normal mounting of closer body due to interference between closer's mounting screws and door holder track. This drop plate's mounting screws are located on the door surface 2-3/8" down from the frame rabbet allowing room for placement of the surface mounted or overhead concealed door stop/holder.

Brackets for Non-Hold Open Arms





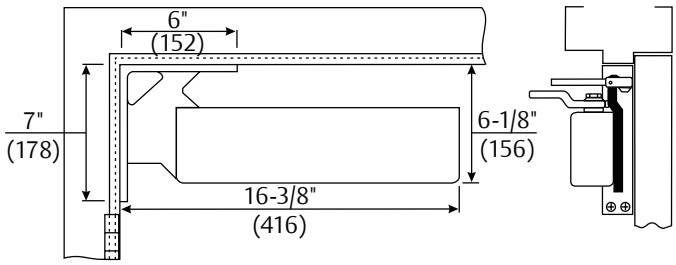
Molded/Bull Nose Trim - 2403B Bracket: For use where the door frame has molded or bull nose trim which will not accept a standard non-hold open shoe. The bracket is mortised into the frame rabbet, and projects beyond the face of the frame. It will accommodate a frame rabbet up to 2" (51mm) deep.

Molded/Bull Nose Trim - 2403-3/4 Bracket: This bracket is similar to - but longer than - the 2403B bracket. It is designed to accommodate frame rabbets from 2" to 2-7/8" (51 to 73mm) deep.

NORTON RIXSON
ASSA ABLOY

REGULAR ARM

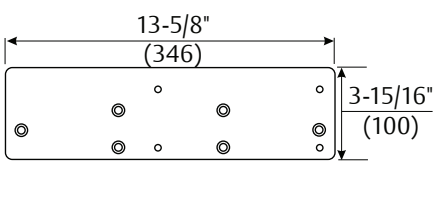
Corner Brackets for Closer Mounting



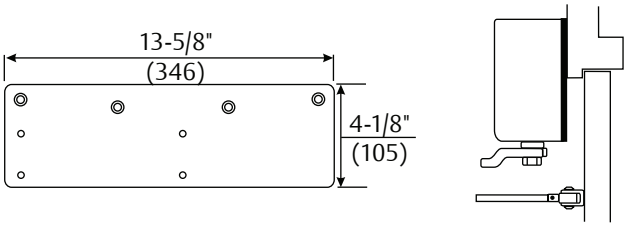
Mounting Opposite Hinge Side - 7798 Standard Drop Corner Bracket: For use where it is desired to mount a regular arm non-hold open closer.

TOP JAMB

Closer Mounting Plates



Narrow Frame - 7786 Back Plate: For use where a narrow frame face prevents the closer from being mounted directly to the frame. This back plate must be used for closer mounted on a frame between 1-7/8" and 3-1/8" (48 and 79mm) in height.

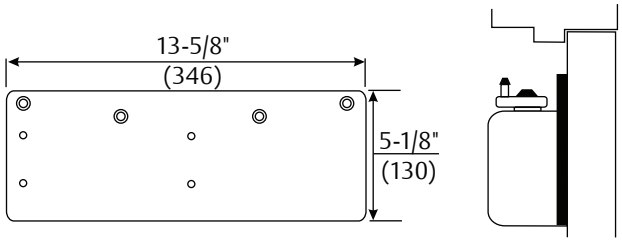


Low Ceiling Clearance - Overhead Door Holder - 7787 Drop Plate: For use where the ceiling clearance is between 1-7/8" and 3-7/8" (48 and 98mm) or where a surface or concealed overhead door holder prevents normal top jamb mounting. This plate drops the closer and allows the arm mounting screws to clear the bottom of the door holder. This places the centerline of the arm mounting screws at 3-1/8" (79mm) from the top of the door.

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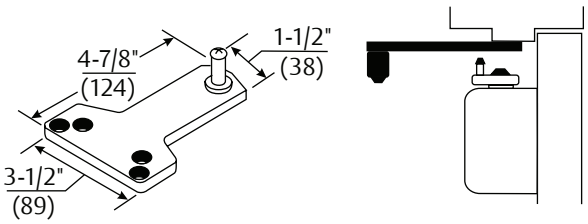
PARALLEL ARM

Closer Mounting Plate

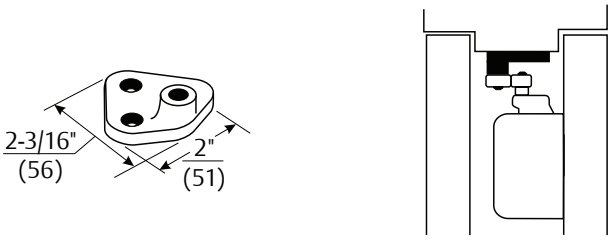


Narrow Top Rail - 7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.

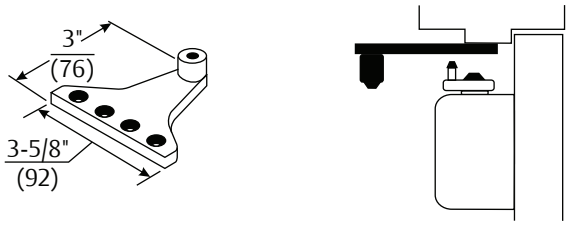
Brackets for Non-Hold Open Arms



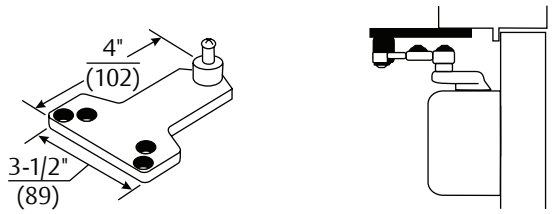
Standard Installation - 1618 Soffit Plate: Supplied standard with parallel arm closers. It can be mounted where the frame soffit is as narrow as 1" (25mm). Specify 1618A-SS for stainless steel soffit plate.



Mounting between Doors - 2018 Soffit Bracket: For use where insufficient space between companion doors does not permit use of other soffit plates. This bracket permits mounting of the closer between doors with as little as 3" (76mm) of header space. Permits closer arm to clear up to 5/8" (16mm) high stop.



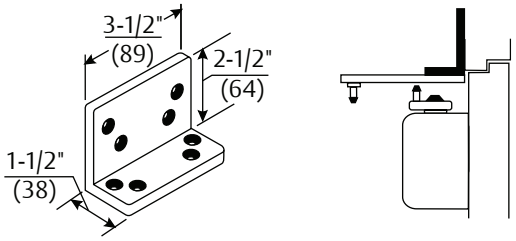
Narrow Frame/Removable Stop - 2018B Soffit Plate: For use where a narrow frame or frame with removable stop does not permit use of the standard soffit plate. This soffit plate may be mounted on the frame soffit or the frame rabbet where the stop does not exceed 5/8" (16mm) in height. All of the screw holes are in a straight line, requiring as little as 1-1/4" (32mm) of frame reveal to mount bracket and maintain good closer arm geometry. Where the frame soffit is as wide as 2" (51mm), this soffit plate may be used to clear weather-stripping that is up to 1-3/8" (35mm) wide and 5/8" (16mm) in height.



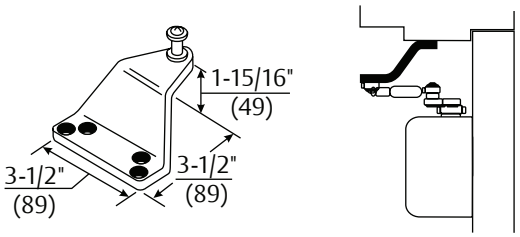
Blade/Applied Stop - 2018D Soffit Plate: For use where a blade or applied stop does not permit installation of the standard soffit plate. Mounts to either the frame soffit or rabbet. Since this soffit plate projects 7/8" (22mm) less than a standard soffit plate, it requires a minimum frame reveal of 1-1/2" (38mm). Permits closer to clear up to a 5/8" (16mm) stop.

PARALLEL ARM

Brackets for Non-Hold Open Arms (continued)

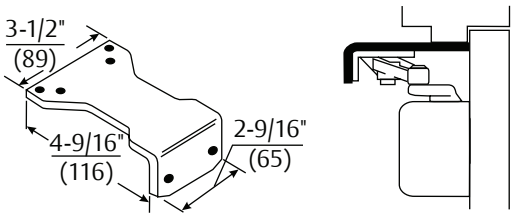


Flush Transom - 2022 Angle Bracket: For use where rabbeted or flush transom conditions prevent installation of a soffit plate. Used in combination with the 1618 soffit plate, or may be used in combination with the 2018S soffit plate when it is necessary for the closer arm to clear a separate overhead door holder.

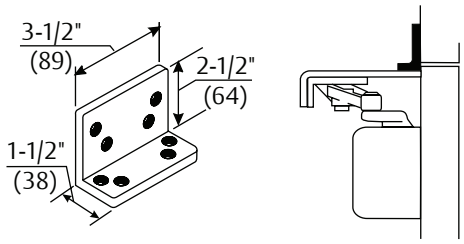


Extra-Clearance - 2018S Offset Soffit Plate: For use where the need for additional clearance prevents use of the standard soffit plate. This plate mounts to the frame soffit to provide up to 2" (51mm) of clearance when a separate overhead door holder is used. Standard mounting requires a 2-5/8" (67mm) wide frame soffit. It may also be used where unusually high frame stops or weather-stripping prevent the use of other soffit plates.

Brackets for Hold Open Arms



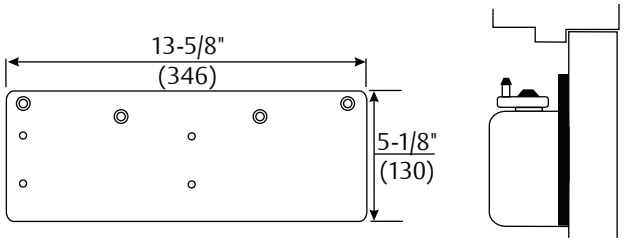
Parallel Hold Open - 1628H Adapter Plate: Supplied standard with all parallel arm hold open closers. It can also be used to convert regular arm or top jamb hold open arms to parallel arm installation. It can be mounted where the frame soffit is as narrow as 1" (25mm).



Flush Transom Hold Open - 2022 Angle Bracket: For use where rabbeted or flush transom conditions prevent installation of the standard 1628H hold open adapter plate. It is used in combination with the 1628H adapter plate.

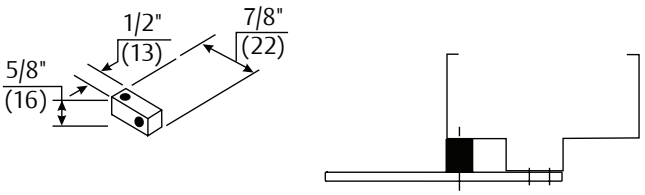
PARALLEL RIGID ARM

Closer Mounting Plate

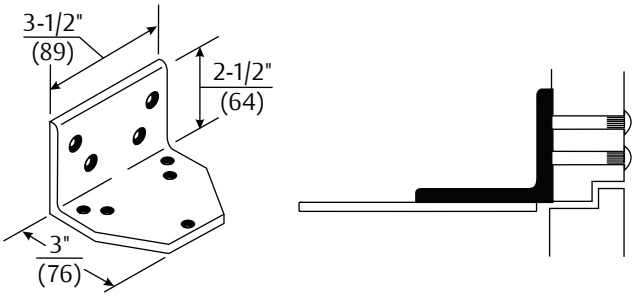


Narrow Top Rail - 7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.

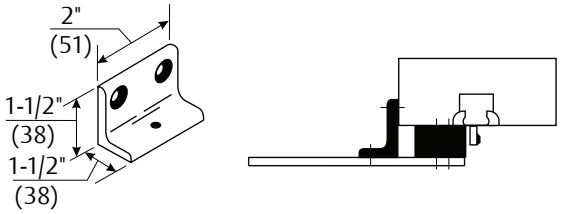
Brackets for Non-Hold Open Arms & Hold Open Arms



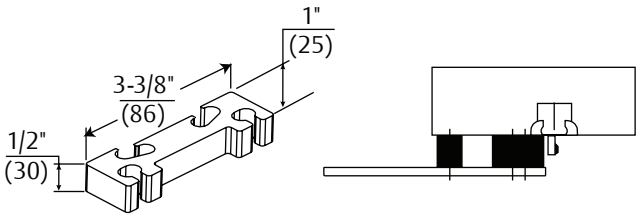
Standard - 2019S Spacer Block: For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all Parallel Rigid arm closers.



Flush Rabbeted Transom - 2019L Angle Bracket: For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the standard soffit plate.



Narrow Frame - 6890 Support Bracket: For use where the frame is narrow, and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the 6891 Spacer B lock on blade stop frames to provide extra support and needed clearance of the blade stop. Used on frames where the frame stop does not exceed 5/8" (11mm) in height.

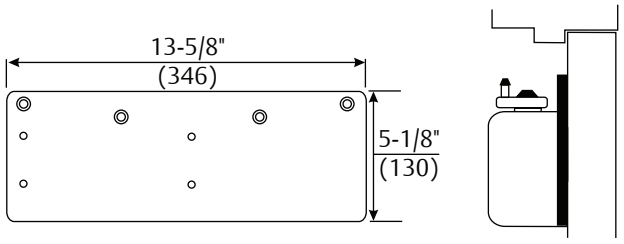


Clearance/Support Blade Stop - 6891 Spacer Block: For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance of the blade stop.

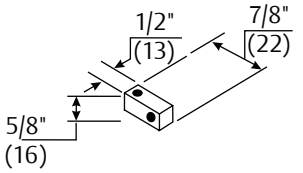
CLOSERPLUS® ARMS

Closer Mounting Plate

Narrow Top Rail - 7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.

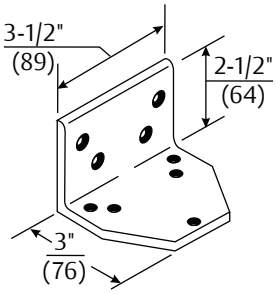


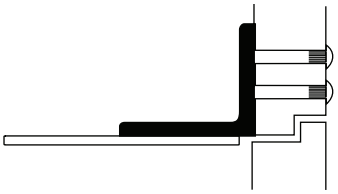
Brackets for Non-Hold Open Arms & Hold Open Arms



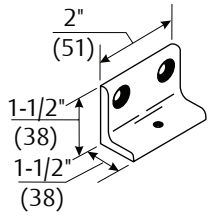


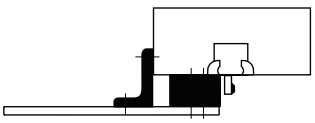
Standard - 2019S Spacer Block: For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all Parallel Rigid arm closers.



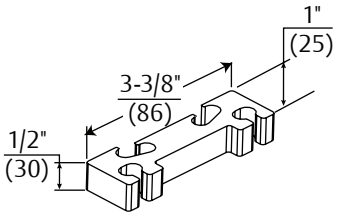


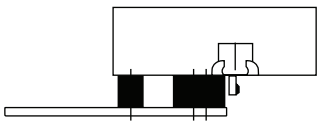
Flush Rabbeted Transom - 2019L Angle Bracket: For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the standard soffit plate.





Narrow Frame - 6890 Support Bracket: For use where the frame is narrow, and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the 6891 Spacer Block on blade stop frames to provide extra support and needed clearance of the blade stop. Used on frames where the frame stop does not exceed 5/8" (11mm) in height.

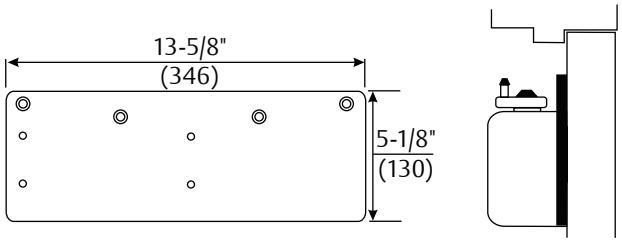




Clearance/Support Blade Stop - 6891 Spacer Block: For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance of the blade stop.

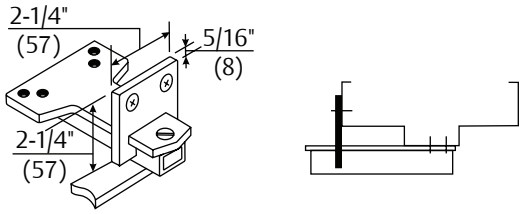
UNITROL® ARM

Closer Mounting Plate (for Parallel Arm)

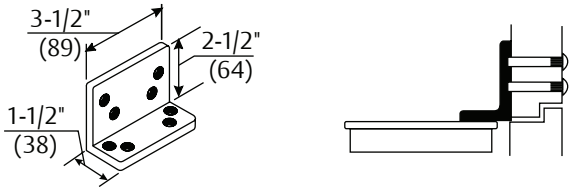


Narrow Top Rail - 7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-3/8" (60mm) in height.

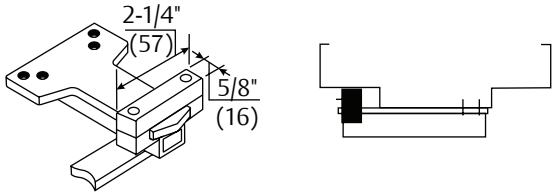
Soffit Plate Reinforcing Brackets (for Parallel Arm)

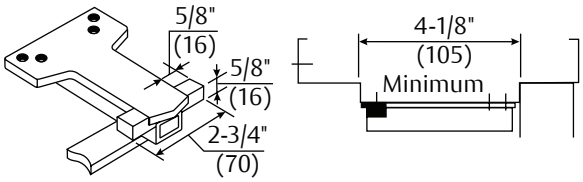


Additional Support - 6190 Reinforcing Bracket: Standard for use with all Unitrol parallel arms. Provides additional support to the soffit plate on installations with door frame reveals from 1-7/8" to 4-5/8" (48 to 117mm).



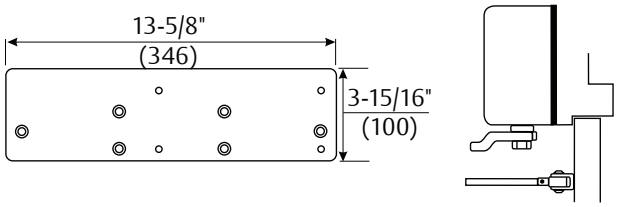
Flush Rabbeted Transom - 2022 Angle Bracket: Optional for use with all Unitrol parallel arms. For use where rabbeted or flush transom conditions prevent installation of the soffit plate assembly. This bracket fastens to the overhead transom to provide a mounting surface for the soffit plate assembly.



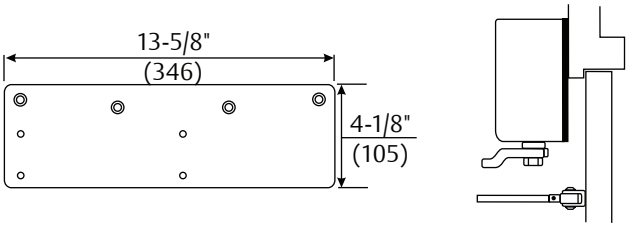


Wide Frame - 6191 Reinforcing Kit: Optional for use with all Unitrol parallel arms. Used to support the soffit plate on installations with wide frames. Clamps may be used with or without the spacer block, depending on frame conditions.

Closer Mounting Plate (for Top Jamb)



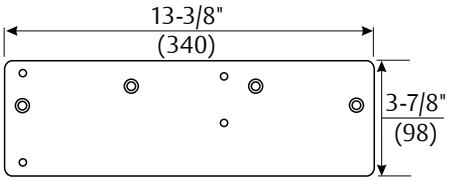
Standard Installation - 7786 Back Plate: Can be mounted where a frame face is as narrow as 1-5/8" (41mm) in height.

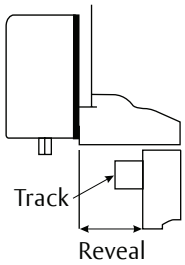


Minimum Ceiling Clearance - 7787 Drop Plate: For use where the ceiling clearance is as little as 1-7/8" (48mm).

NORTON RIXSON
ASSA ABLOY

SLIDE TRACK

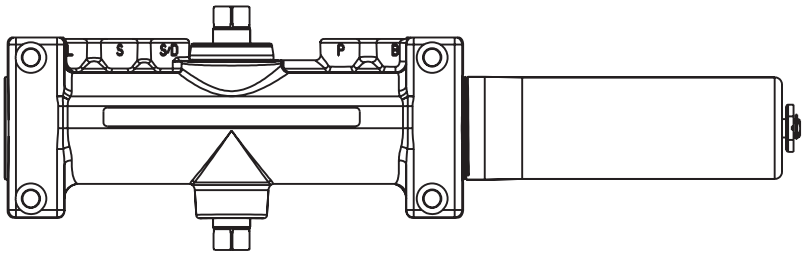




Slide Track - 7786JP Back Plate: Required for frames with standard 2" (51mm) profile face. Without plate, minimum 4" (102mm) face frame required.

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DOOR CLOSER BODY ASSEMBLIES



Model Number	Description
7500LAP	Multi-size closer body
7500SSLAP	Corrosion resistant closer body

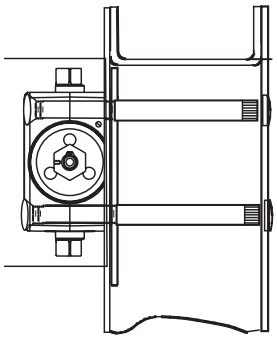
LAP = less all parts

Torx® Screw Pack	
Arm Type	**Model Number**
Regular, Top Jamb & Parallel	TX47
Parallel Rigid, CloserPlus® CloserPlus Spring™	PRTX47
Regular Rigid Heavy-Duty	RTX47
Unitrol®	UNITX47
Slide Track	STTX47

Cover Material	Part Number	Dimensions (Inches/mm)
Plastic	7700P & 7700PG	13-3/4 (349) x 4" (102) x 2-1/8" (54)
Metal	7700M	13-5/8" (346) x 3-7/8" (98) x 2-3/16" (56)

STEEL DOOR APPLICATION

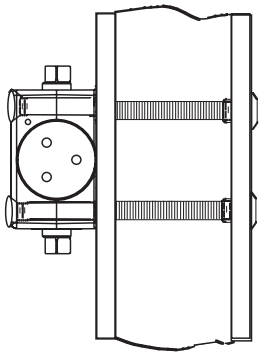
Sleeve nut: "SN" (4 per pack) or
Sleeve nut & screw: "SNB" (4 per pack)



Door Thickness	SN's	SNB's
1-3/4"	SN-134	SNB134-47
2"	NA	SNB200-47
2-1/4"	SN-214	SNB214-47
S.S. SNB'S 1-3/4" (stainless steel)	SN-134SS	SNB134SS-47

ALUMINUM AND WOOD DOOR APPLICATION (ALUMINUM DOOR SHOWN)

Through-bolt & grommet nut:
"TBGN" (4 per pack)

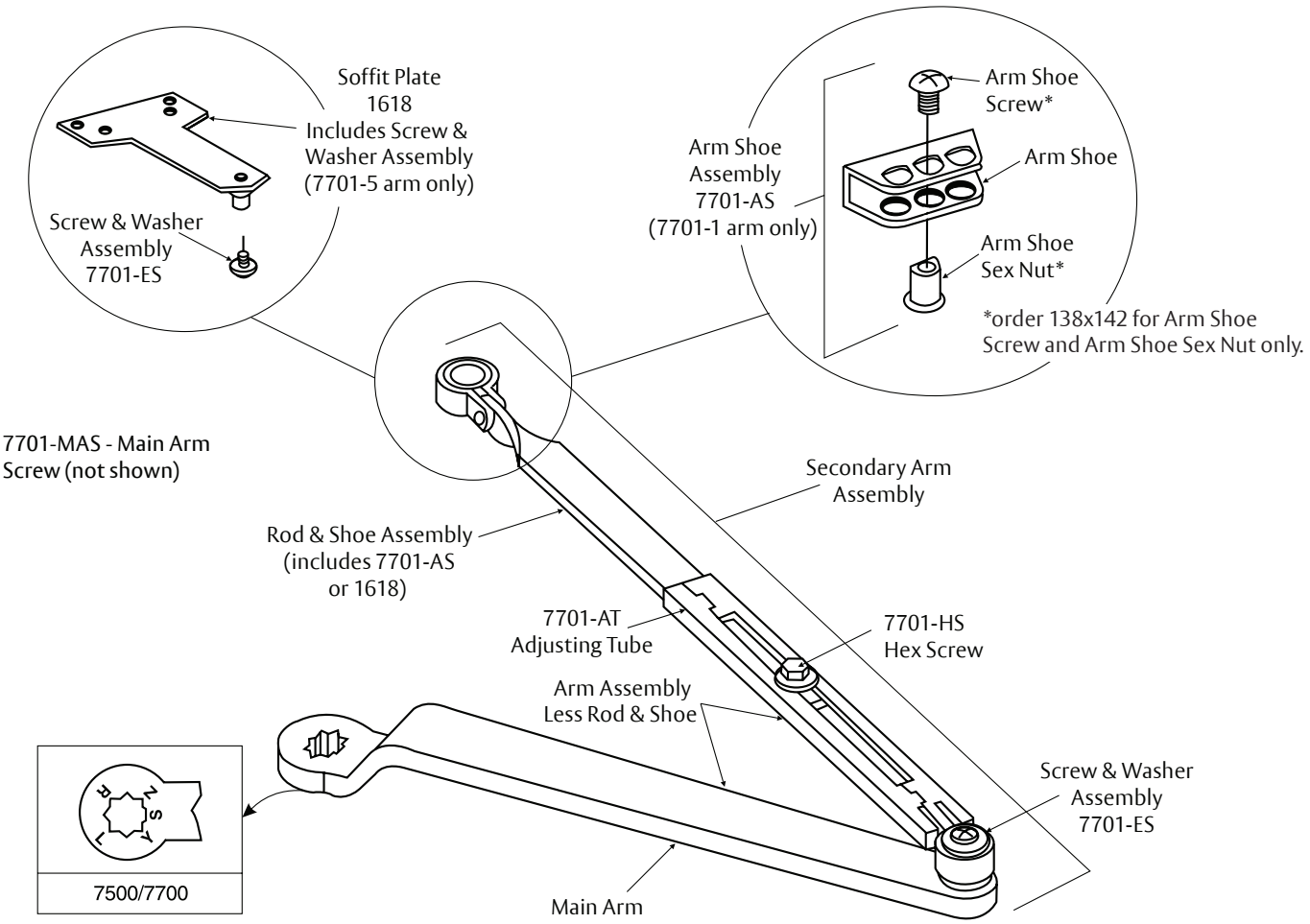


Door Thickness	SN's
1-3/8"	TBGN138-47
1-3/4"	TBGN134-47

NORTON RIXSON
ASSA ABLOY

7500
INSTITUTIONAL DOOR CLOSER

NON-HOLD OPEN ARM ASSEMBLIES

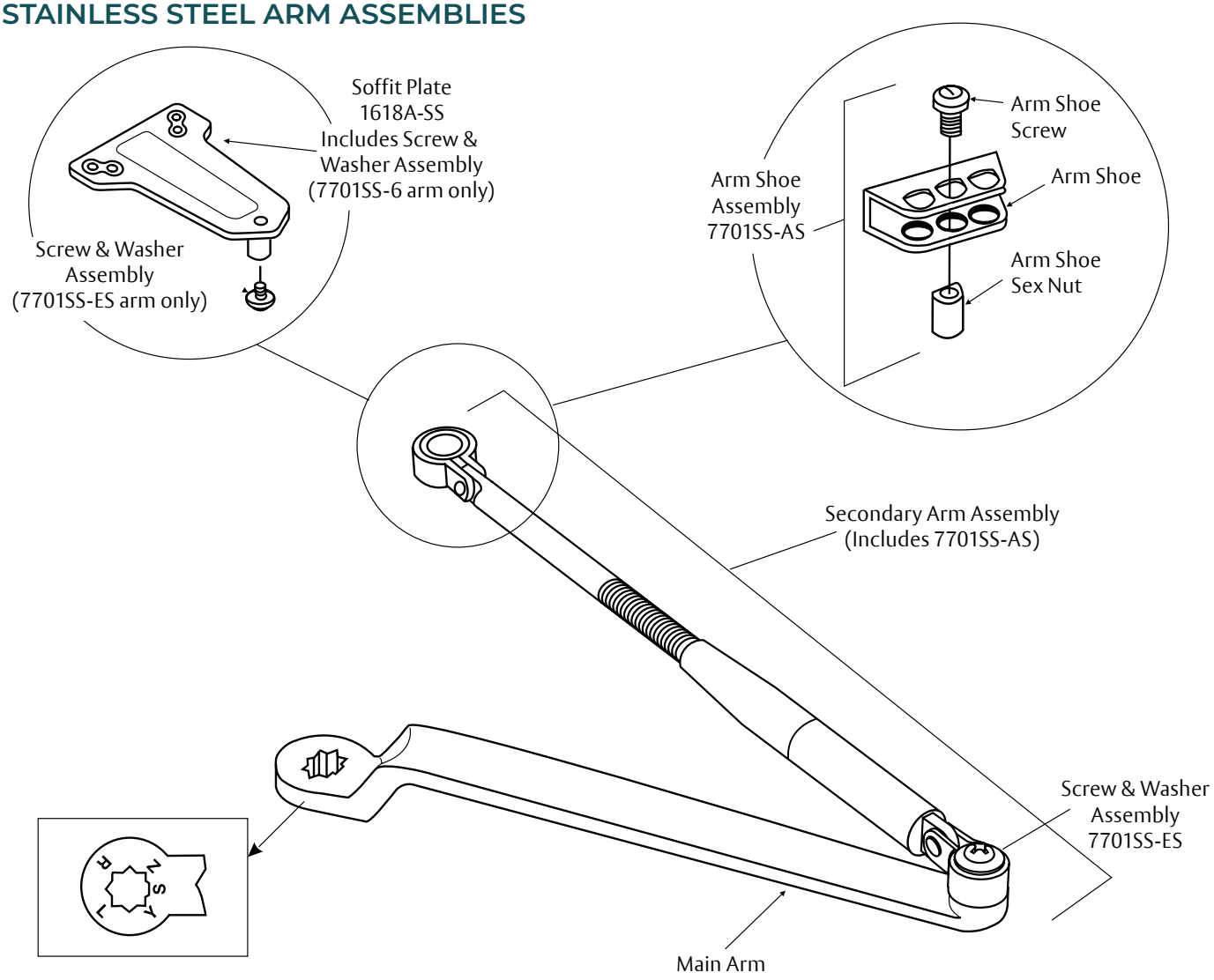


Note: Mounting hardware included with all parts orders.

Model	Complete Arm Assembly	Main Arm Assembly[1] (length)(mm) (includes 7701-ES)	Secondary Arm Assembly (includes 7701-ES)	Arm Assembly Less Rod and Shoe	Rod & Shoe Assembly[2] (length)(mm)
R7570	7701-1	7701-1M (11)(279)	7701-111	7701-1W	7701-11 (8-7/8)(225)
J7500	7701-1A		7701-121		7701-11A (12-9/16)(319)
JL7500	7701-1B	7701-2M (13-1/2)(343)	7701-131	7701-2W	7701-11B (15-3/16)(386)
P7500	7701-5	7701-1M (11)(279)	7701-115	7701-1W	7701-15 (8-7/8)(225)
P7500[3]	7701-5A		7701-115A		7701-15A (12-9/16)(319)
7500	7701-25 (tri-packed includes 7701-1 plus 1618 plate)	1. C to C length shown in parentheses. 2. C of connecting link to end of rod shown in parentheses. 3. For 180° door swing when using a special template for doors hung on 6" to 8" (152 to 203mm) wide throw hinges.			

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STAINLESS STEEL ARM ASSEMBLIES



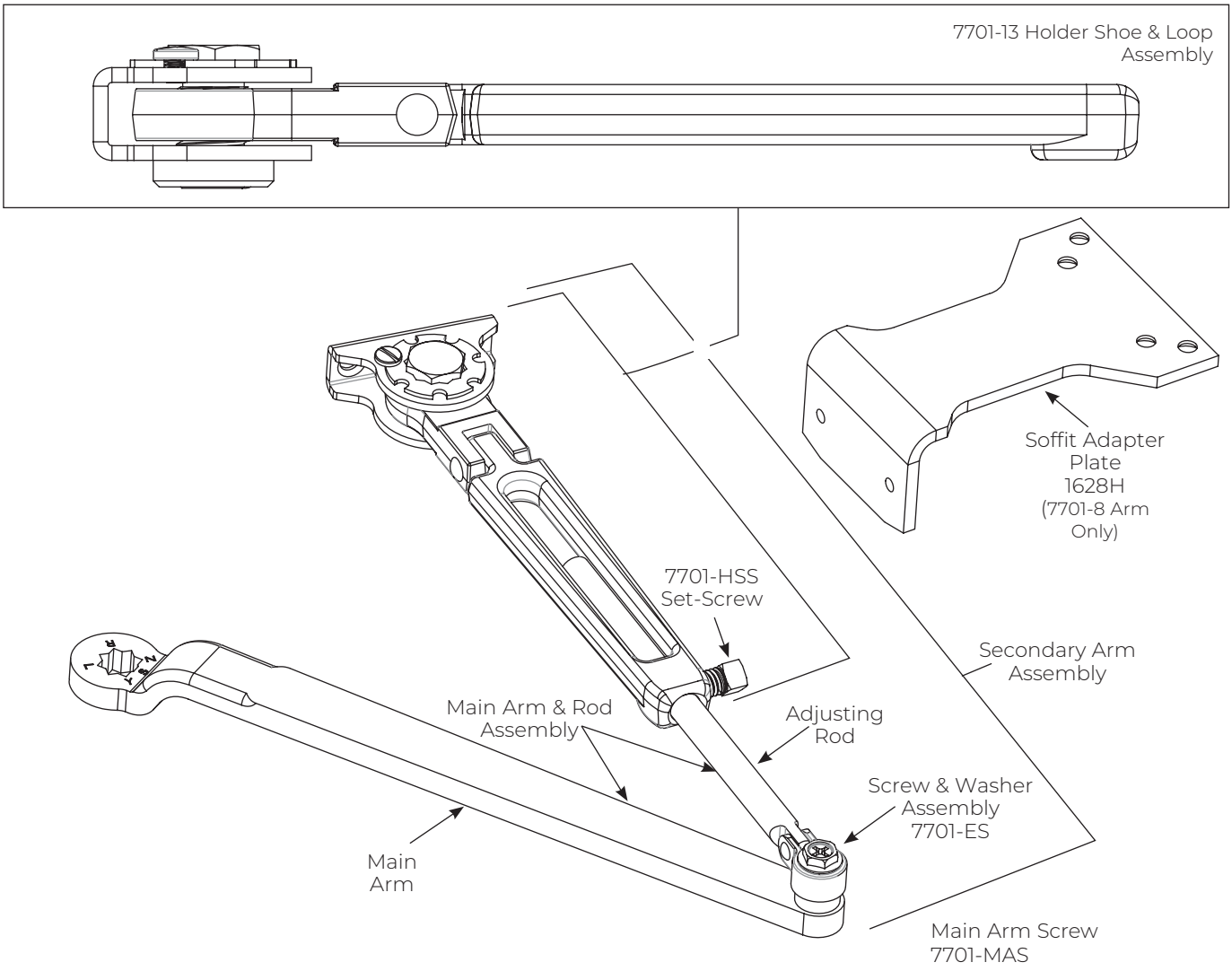
Note: Mounting hardware included with all parts orders.

Model	Complete Arm Assembly	Main Arm Assembly[1] (length)(mm) (includes 7701SS-ES)	Secondary Arm Assembly (includes 7701SS-ES)
7500SS	7701SS-1	7701SS-1M (11)(279)	7701SS-111
J7500SS	7701SS-1A		7701SS-121
P7500SS	7701SS-6		7701SS-116

1. C to C length shown in parentheses

NORTON RIXSON
ASSA ABLOY

HOLD OPEN ARM ASSEMBLIES



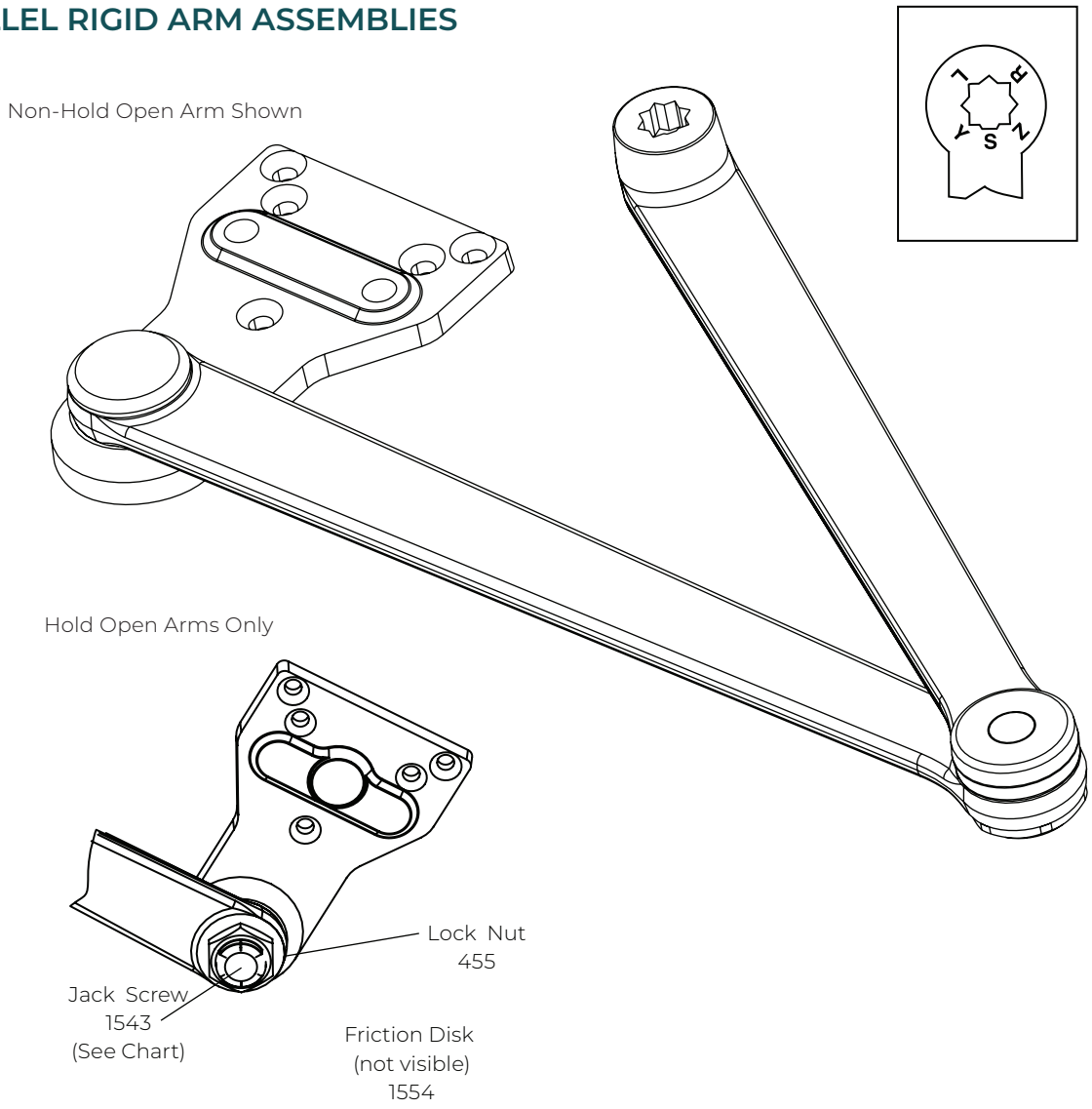
Note: Mounting hardware included with all parts orders.

Model	Complete Arm Assembly	Main Arm[1] (length)(mm) (includes 7701-ES)	Secondary Arm Assembly (includes 7701-ES)	Main Arm & Rod Assembly	Holder Shoe & Loop Assembly	Adjusting Rod[2] (Length)(mm)
7500H	7701-3/7701-8[3]	7701-1M (11)(279)	7701-113/7700-118 (Reg.) / (Par.)	7701-3W	7701-13	7701-31 (7-3/8)(187)
JL7500	7701-3A		7701-123	7701-3WA		7701-31A (10-13/16)(275)
JL7500H	7701-3B	7701-2M (13 -1/2)(343)	7701-133	7701-3WB		7701-31B (12-7/8)(327)

1. C to C length shown in parentheses.
2. C of connecting link to end of rod shown in parentheses.
3. Same as 7701-3 but includes 1628H soffit adapter plate.

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PARALLEL RIGID ARM ASSEMBLIES



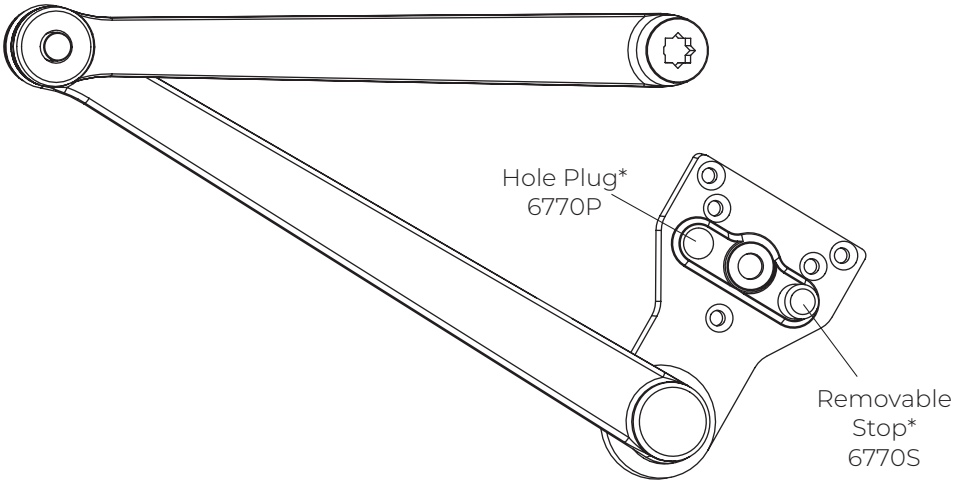
Note: Mounting hardware included with all parts orders.

Arm Function	Complete Arm Assembly	Jack Screw
Non-hold open	PR7701-5	N/A
Hold open	PR7701-8R (right hand)	1543R
	PR7701-8L (left hand)	1543L

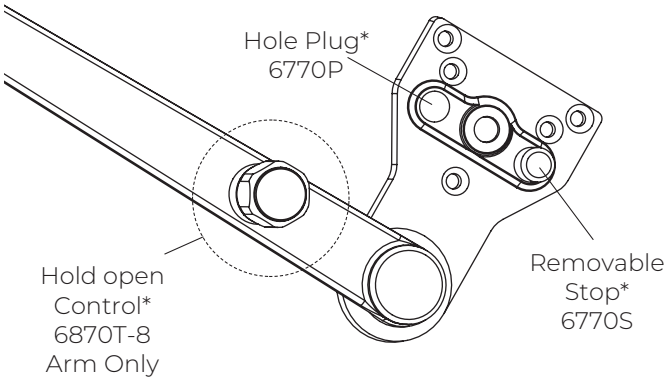
NORTON RIXSON
ASSA ABLOY

CLOSERPLUS® ARM ASSEMBLIES

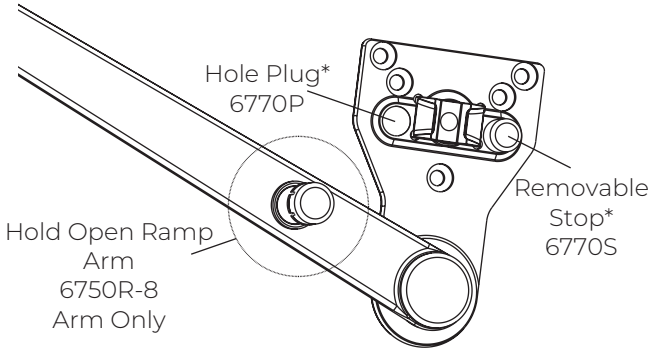
CLP
Non-Hold Open



CLP-T
Thumbturn Hold Open



CLP-R
Ramp Hold Open



Note: Mounting hardware included with all parts orders.

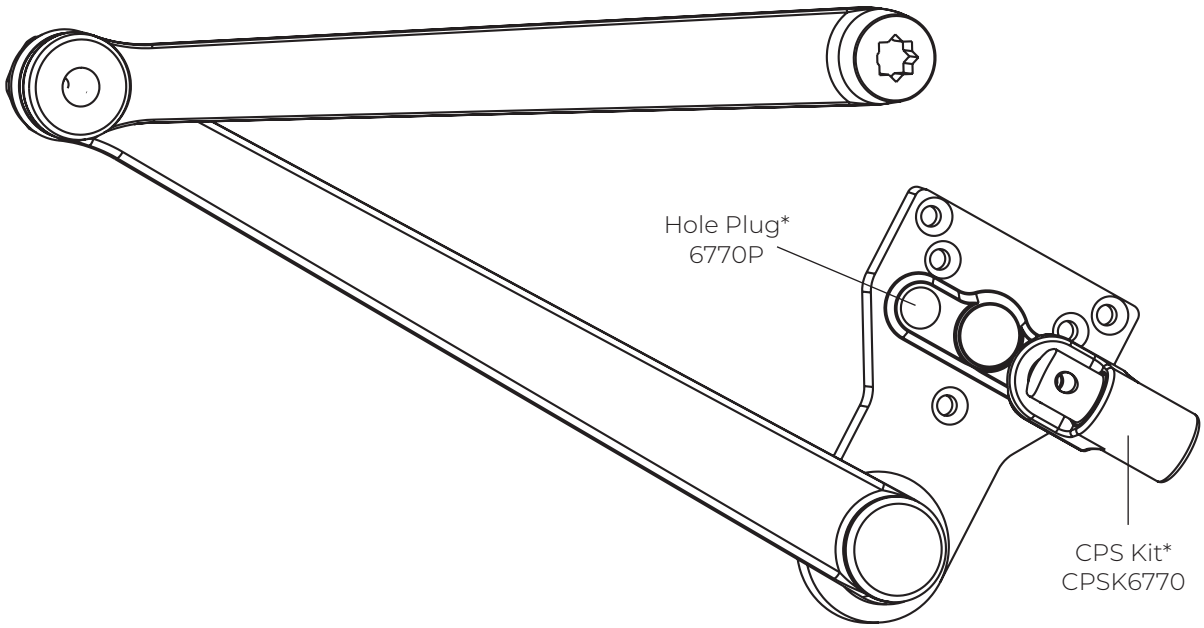
Arm Function	Complete Arm Assembly
Non-hold open	6770-5
Thumbturn hold open	6870T-8
Ramp hold open	6750R-8

* These parts and screw pack are included with complete arm assemblies.

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CLOSERPLUS SPRING™ ARM ASSEMBLIES

Non-Hold Open Arm Shown

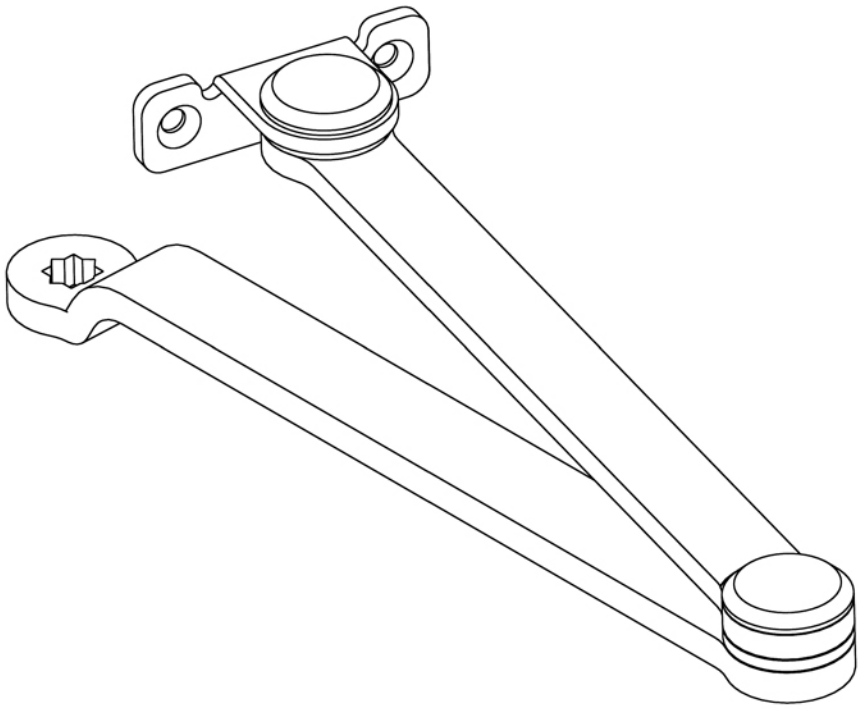


Note: Mounting hardware included with all parts orders.

Arm Function	Complete Arm Assembly
Non-hold open	CPS6770-5
Thumbturn hold open	CPS6870T-8

* These parts and screw pack are included with complete arm assemblies.

REGULAR RIGID HEAVY-DUTY ARM

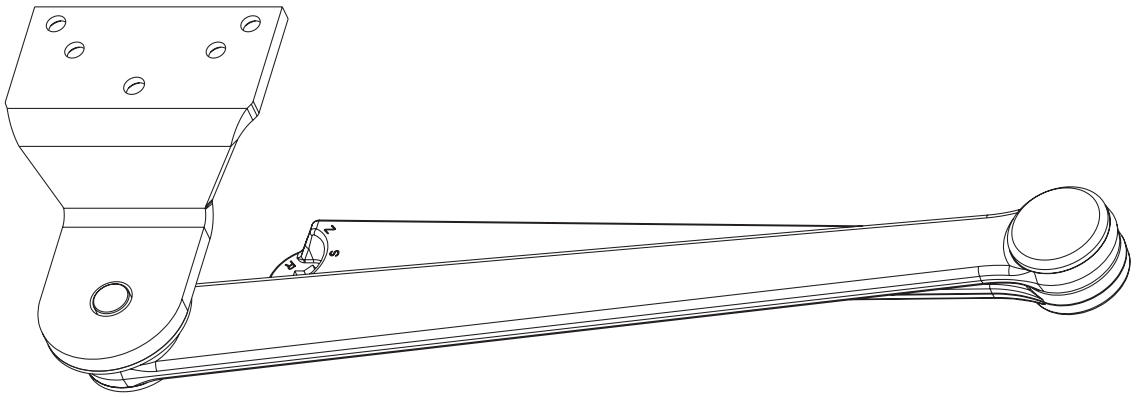


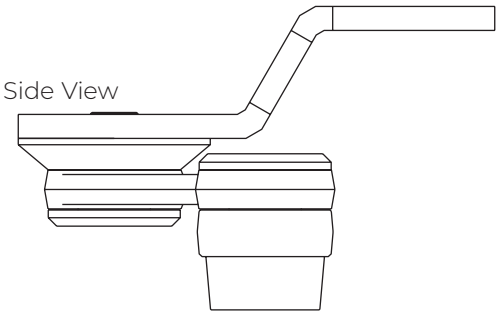
Note: Mounting hardware included with all parts orders.

Model	Arm Function	Complete Arm Assembly
R7500	Non-hold open	R7701-1

PARALLEL RIGID OFFSET ARM ASSEMBLIES

Non-Hold Open





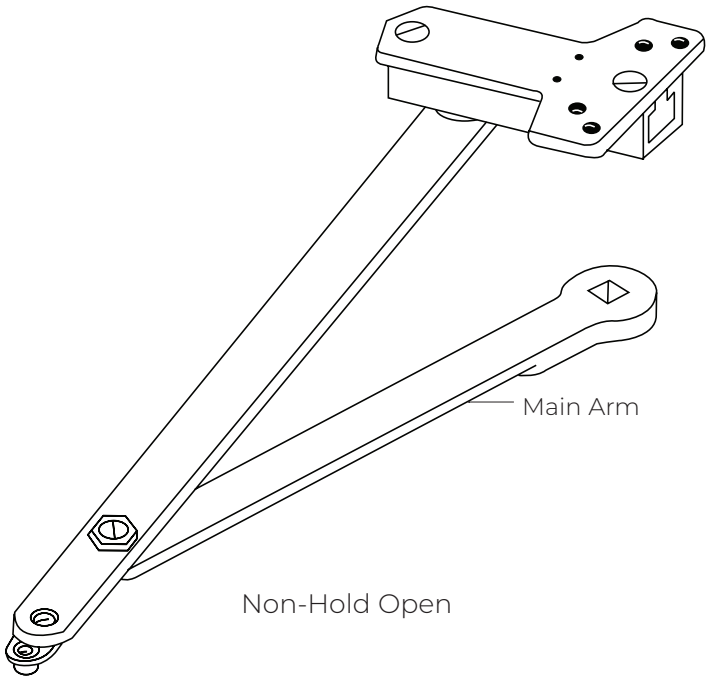
Note: Mounting hardware included with all parts orders.

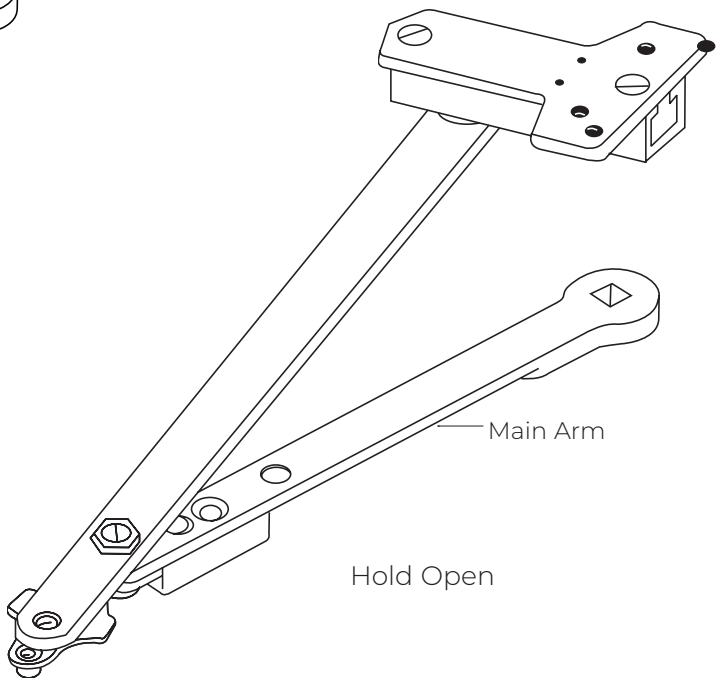
Complete Arm Assembly	Arm Function
PRO7701-5	Non-hold open
PRO7701-8R	Hold open, right hand
PRO7701-8L	Hold open, left hand

NORTON RIXSON
ASSA ABLOY

7500
INSTITUTIONAL DOOR CLOSER

Parallel Arm





Note: Mounting hardware included with all parts orders.

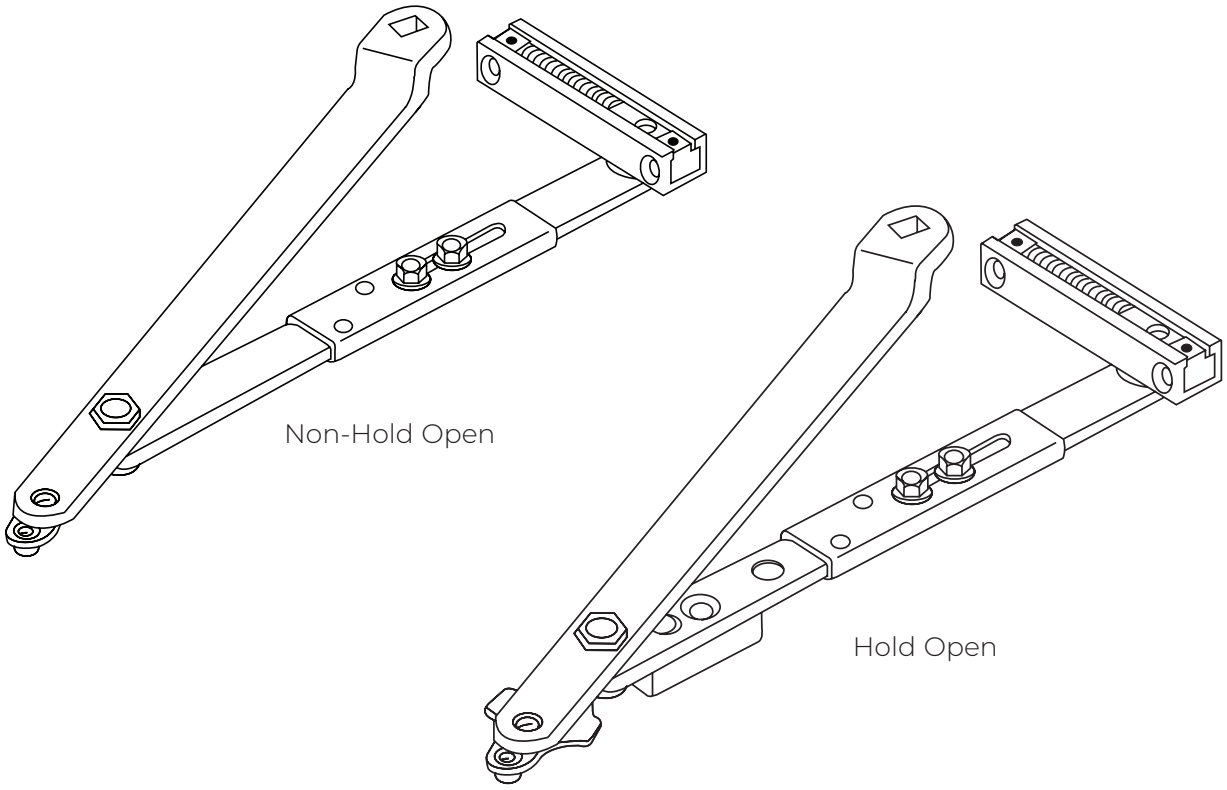
Door Width (cm)	Main Arm Length* (mm)	Complete Arm Assembly	
		Non-Hold Open	Hold Open
28" - 32" (71- 81)	9-1/2" (241)	6100-11	6100-1
33"- 41" (84 - 104)	11" (279)	6100-13	6100-3
42" - 48" (107 - 122)	12-1/2" (318)	6100-14	6100-4

Only available in painted finishes.

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UNITROL® ARM ASSEMBLIES

Top Jamb

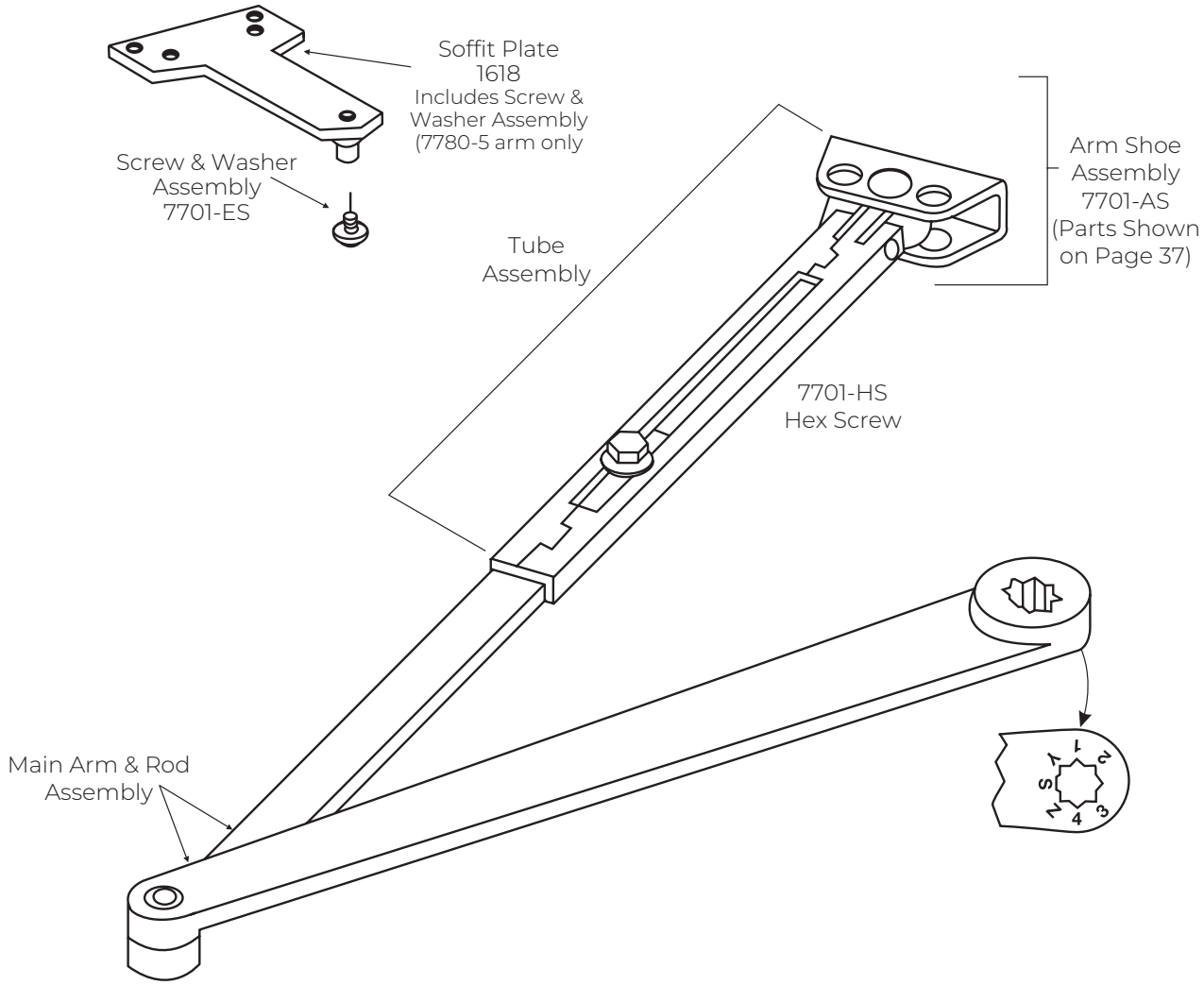


Note: Mounting hardware included with all parts orders.

Complete Arm Assembly		For Frame Reveals (mm)
Non-Hold Open	Hold Open	
J6100-4	J6100-7	2-1/8" - 3-1/4" (54 - 83)
J6200-4	J6200-7	1/2" - 2" (13 - 51)
J6400-4	J6400-7	3-3/8" - 4-1/4" (86 - 108)
J6500-41	J6500-71	4-3/8" - 5-3/8" (111 - 137)
J6500-42	J6500-72	5-1/2" - 6-3/8" (140 - 162)
J6500-43	J6500-73	6-1/2" - 7-3/8" (165 - 187)
J6600-4	J6600-7	0" - 3/8" (0 - 10)

Only available in painted finishes.

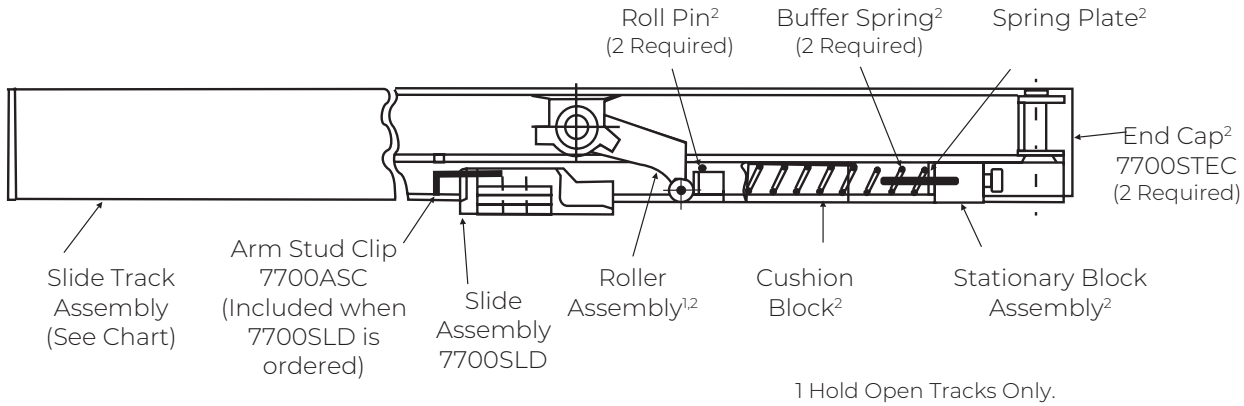
LOW PROFILE ARM ASSEMBLIES



Note: Mounting hardware included with all parts orders.

Arm Application	Complete Arm Assembly	Main Arm & Adjusting Rod Assembly	Tube & Shoe/Soffit Assembly
Regular	7780-1	7780-1MR	7780-1TS (With 7701-AS)
Parallel	7780-5		7780-5TS (With 1618)
Tri-pack	7780-25		

TRACK ASSEMBLIES



1 Hold Open Tracks Only.
2 Part of Slide Track Assembly.

* Consists of track, slider assembly and two end caps. **Auxiliary door stop required.**

Note: Mounting hardware included with all parts orders.

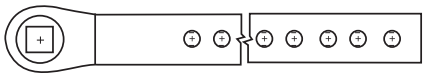
Track Assemblies	Part Number	
	Non-Hold Open	Hold Open
Pull side mounted	7701ST-1T	7701ST-3T
Push side mounted	7701ST-5T	7701ST-8T
Pull side mounted (180°)	7701ST-1T180°	N/A

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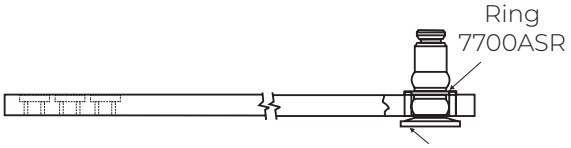
TRACK ASSEMBLIES

Standard Arm Assembly

7701ST-1A[1,2]



Arm Tube Assembly
7701ST-1AT[1]

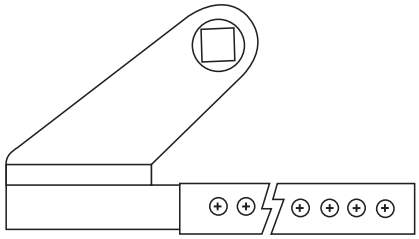


Adjusting Rod Assembly
7701ST-1AR[1]

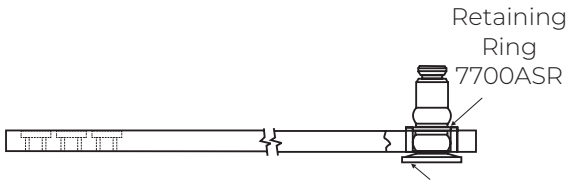
Arm Stud
7700AS

Double Egress Arm Assembly

7701PT-DE-1R (Right Hand)[1,2]
7701PT-DE-1L (Left Hand)[1,2]



Arm Tube Assembly
7701ST-1ATR[1] (right hand)
7701ST-1ATL[1] (left hand)

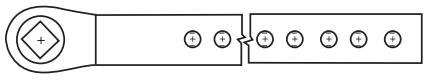


Adjusting Rod Assembly
7701ST-1AR[1]

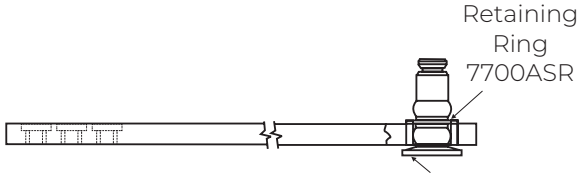
Arm Stud
7700AS

STP Arm Assembly (Pocket Doors Only)

7701STP-1A[1,2]



Arm Tube Assembly
7701STP-1AT[1]



Adjusting Rod Assembly
7701ST-1AR[1]

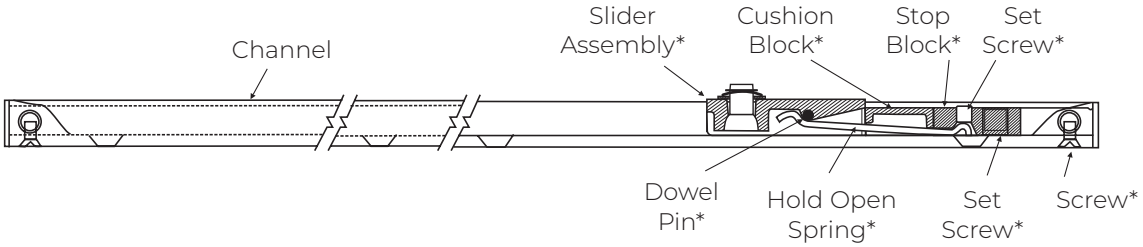
Arm Stud
7700AS

1 Includes arm length adjusting screw 7700ALAS
2 Includes arm tube & adjusting rod assembly

Note: Mounting hardware included with all parts orders.

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TRACK ASSEMBLIES - SHALLOW DEPTH

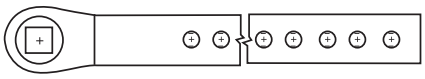


*Part of an Assembly Pack
NHO=7740SLD
HO=7740HSLD

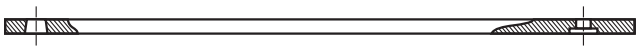
Note: Mounting hardware included with all parts orders.

Track Assemblies	Part Number	
	Non-Hold Open	Hold Open
Pull side mounted	7740ST-1T	7740ST-3T
Push side mounted	7740ST-5T	7740ST-8T

Arm Assembly



Arm Tube Assembly
7701ST-1AT[2]



Adjusting Rod Assembly
7740ST-1AR[2]

1 Includes arm length adjusting screw.
2 Includes arm tube & adjusting rod assembly.

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FASTENERS

Standard Fasteners	With Arms Specified Below					
	Regular Parallel & Top Jamb	Low Profile	Parallel Rigid (PR) CloserPlus (CLP) CloserPlus Spring (CPS)	Unitrol (UNI)	Unitrol-J (UNI-J)	Slide Track (ST)
Door						
Self drilling self tapping	S	S	S	S		
Machine screw	S	S	S	S	S	S
Sleeve nut/sex nut			S	S	S	S
Frame						
Self drilling self tapping	S	S	S	S	S	S
Machine screw	S	S	S	S	S	S

S = Standard
Fasteners are standard (included) with closer package.
Examples:
7500 includes self drilling, self tapping and machine screws
PR7500 includes self drilling, self tapping, machine screws and sleeve nut/sex nuts

Optional Fasteners	Description	With Arms Specified Below					
		Regular Parallel & Top Jamb	Low Profile	Parallel Rigid (PR) CloserPlus (CLP) CloserPlus Spring (CPS)	Unitrol (UNI)	Unitrol-J (UNI-J)	Slide Track (ST)
Door							
SN^	Sleeve nut/sex nut	O	O				
TBGN^	Thru bolts & grommet nuts	O	O	O	O	O	O
SMS*	Sheet metal screws & machine screws	O	O	O	O	O	O
SSPxSMS	Standard screw pack & sheet metal screws	O	O	O	O	O	O
TORX®*	Torx drive security screw	O	O	O	O	O	O
Frame							
SMS*	Sheet metal screws & machine screws	O	O	O	O	O	O
SSPxSMS	Standard screw pack & sheet metal screws	O	O	O	O	O	O
TORX®*	Torx drive security screw	O	O	O	O	O	O

O = Optional
^ When SN or TBGN are ordered, standard screw packs are also furnished.
***When SMS or TORX screws are specified, standard screw packs ARE NOT furnished.**
Examples:
7500 x **SN** includes self drilling, self tapping, machine screws and sleeve/sex nuts
7500 x **SMS** includes sheet metal screws and machine screws

SN are for use on hollow metal doors and can also be used for thru bolting on wood doors. When selected, SNs are supplied for 1-3/4" (44mm) thick doors unless specified for 2-1/4" (57mm) thick doors

TBGN are an alternative to SN for wood doors. When selected, TBGNs are supplied standard for 1-3/4" (44mm) thick doors. .

SMS - when the option is specified, closer will be packed with sheet metal screws for the door and sheet metal screws plus machine screws for the frame.

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FINISHES

Norton Rixson offers waterborne acrylic, polyster powder coat and plated finishes. Custom finishes are available on special order. A sample and approval is required. Waterborne acrylic and polyester powder coat will withstand 100 hours of salt spray (ANSI requires 25 hours).

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613E (US10BE)	Dark oxidized satin bronze - equiv.
619 (US15)	Satin nickel plated, clear coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat
600^	Prime coat

^ 600 is a special rust-inhibiting prime coat. Closers can be ordered prime coat only (specify closer x 600). An additional charge applies if finish coat is required over prime coat.

- Closer bodies and plastic covers are available in waterborne acrylic finishes. Arms and metal covers are available in powder coat or plated finishes.
- When a plated finish is ordered, arm and cover will be plated unless "cover only" is specified.

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7500
INSTITUTIONAL DOOR CLOSER

HOW TO ORDER

NOTE: For optimum protection of door and frame assemblies, always use auxiliary wall, floor, or overhead door stop. Auxiliary stop is required in abusive applications.

J L	75	0	0	H
Prefixes	Closer series	Specifies some options	Closer size	Suffixes

Prefixes

No Prefix } 7500 series designates Tri-Style® packaging (tri-packed for regular, top jamb or parallel mounting)

- **S** - Regular arm application only, non-hold open
- **JS** - Top Jamb application only (3" maximum reveal), non-hold open
- **P** - 7500 parallel arm application only, non-hold open 7580 low profile closer 7500SS corrosion resistant closer
- **J** - Top jamb installation. Supplied with 7786 backplate 2-3/4" - 7" reveal, 150° swing
- **JL** - Top jamb installation. Supplied with 7786 back plate 2-3/4" - 7" reveal, 180° swing
- **PR** - Parallel Rigid arm (parallel arm only); specify hand for hold open functions
- **PRO** - Parallel Rigid arm with offset soffit plate (parallel arm only); specify hand for hold open applications
- **PS** - 7500ST / 7540ST for push side mounting only
- **R** - Rigid heavy-duty regular arm (Torx® screws not included) (N/A in stainless steel or hold open)
- **CLP** - CloserPlus® arm (parallel arm only)
- **CPS** - CloserPlus Spring™ arm (parallel arm only)
- **UNI** - Unitrol® arm (parallel arm only - specify door width) Frame reveals 1-7/8" to 4-5/8" (48-117mm) standard
- **UNIJ** - Unitrol arm (top jamb only - specify frame reveal) 7-3/8" (187mm) maximum

Specifies some options

- **0** - Specifies standard arm
- **3** - Indicates top jamb (J prefix) for frame reveal 0 to 3" (0-76mm) 7786 back plate included.
- **4** - Specifies shallow 11/16" (17mm) depth slide track for closer with "ST" suffix. (ST-DE is not available)
- **7** - Specifies closer having a security arm, security cover and Torx® security screws (specify hand)
- **8** - Specifies low-profile arm (use prefix "P" parallel arm or "J" for top jamb) Non-hold open only

Closer size

- **0** – Adjustable 1-6

Suffixes

- **None** - Non-hold open arm function
- **H** - Hold open arm function (specify hand when "PR" prefix is ordered)
- **M** - Metal cover (cover is handed for top jamb applications)
- **MLL** - Lead lined metal cover
- **DA** - Delayed action
- **EBC** - Enhanced backcheck (not available with DA)
- **ST** - Slide track - single lever arm (auxiliary stop recommended). For push side - prefix PS
- **ST-180** - Slide track - single lever arm, **pull side** track without buffer assembly for maximum door swing (auxiliary stop required)
- **ST-DE** - Slide track - pull side double egress
- **SS** - Corrosion resistant closer. Available with non-hold open adjustable arm only; for regular arm, top jamb "J" prefix or parallel arm "P" prefix
- **T** - Thumbturn hold open on CloserPlus® (CLP) or CloserPlus Spring™ (CPS) arm
- **R** - Ramp hold open on CloserPlus® (CLP) arm
- **G** - ABS cover
- **EP** - Extra Power (specify 7706EP and arm (RA, PA, or TJ) when ordering)
- **STP** - Slide Track Pocket Door (specify 7706EPSTP)
- **DLP** - Double Lever Pocket Door (specify 7706EPDLP)

NOTE:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).

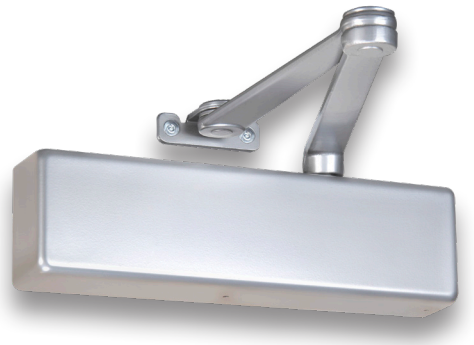
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7570
SECURITY DOOR CLOSER

NORTON RIXSON
ASSA ABLOY

INTRODUCTION

7570 Series are high security closers designed to withstand maximum abuse, deter tampering and help protect doors, walls and hardware. Available with a large number of arm and track assemblies, the 7570 Series closers are capable of providing a high level of reliable performance for a wide variety of openings. Schools, government buildings, financial institutions, industrial facilities, and prisons and detention centers are ideal applications for this closer.



FEATURES

- Adjustable spring sizes 1 through 6
- Security arms – joints feature permanent, orbital riveted elbow and arm shoe/soffit plate joints which prevent disassembly
- Adjustable backcheck cushioning and positioning
- Door weight: 250 lbs.
- Torx drive machine screws with security pin
- Heavy-duty arms: Regular Rigid, Parallel Rigid, CloserPlus® and CloserPlus Spring™
- Slide track – push or pull mounting
- 30-year limited warranty

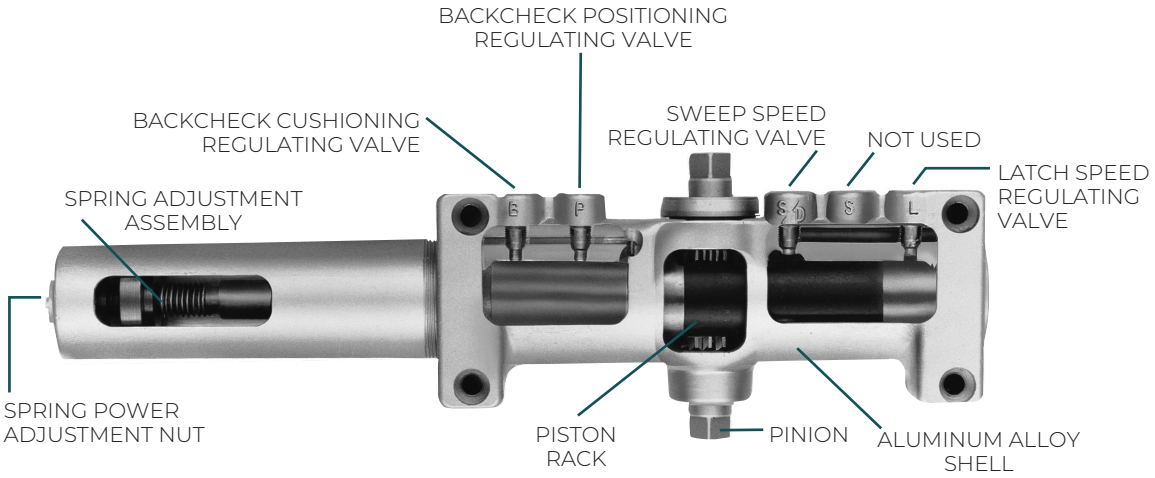
OPTIONAL FEATURES

- Delayed action
- Enhanced backcheck (not available with DA)

NORTON RIXSON
ASSA ABLOY

7570
SECURITY DOOR CLOSER

OVERVIEW



CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 1
- ANSI/BHMA A117.1
- Americans with Disabilities Act (ADA) Compliant
- MEA - City of New York Approved
- UL10C positive pressure up to 3 hours
- UL-cUL listed
- Manufactured in an ISO 9001, ISO 14001 facility

CAUTION: Door Closers for Low Opening Force Applications:
Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

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EXPLANATION OF FEATURES

Aluminum Alloy Housing
Closer bodies are constructed of a special aluminum alloy, carefully selected to accommodate interactive steel components and operating conditions.

Rack & Pinion Operation
Provides a smooth constant control of the door through its full opening and closing cycle. 180° door swing can be achieved when door, frame, hardware and arm function do not interfere.

Handed
All series 7570 closer covers are handed (closer cover must match hand of door).

Sweep Speed Control Valve
Allows adjustment of door speed from the door's full open position down to approximately 5° from the closed position.

Latch Speed Control Valve
Allows adjustment of door speed from approximately 5° down to the door's fully closed position.

Non-Critical Control Valves
All control valves for sweep speed, latch speed and backcheck cushioning are non-critical and are adjusted by a standard 1/8" (3mm) hex wrench.

Adjustable Backcheck Cushion Valve
Provides control of the door in the opening cycle, beginning at approximately 75° of door opening. It slows/cushions the door opening, when the door is forcibly opened beyond its pre-adjusted limits.

Adjustable Backcheck Position Valve
Allows the door opening position, where backcheck cushioning begins, to be adjusted to a greater door angle, up to a maximum of 20° farther (approximately 95°).

Security Cover
Supplied standard with all series 7570 door closers. This deep drawn steel cover is handed for all applications. The cover is fastened to the closer body at two points on top and to the door closer body stand-offs at two points on the bottom.

Warranty
These closers carry a limited 30-year warranty against defect, and life of the building on the aluminum housing.

Closer Fluid
NorGlide® closer fluid is a specially formulated multi-viscosity hydraulic fluid that contains lubricity and anti-oxidation agents that provide optimum performance and efficiency. This fluid complements the interaction of the door closer's aluminum housing with its steel and brass components, while maintaining stable viscosity to allow the door closer to perform in temperatures ranging from extremely high to as low as -40° F.

DOOR CLOSER POWER OPTIONS

Series 7570 Multi-Sized Door Closer
Adjustable through the entire power range of door closer sizes 1 through 6, as outlined in ANSI/BHMA standard A156.4. Option PT-4H.

The series 7570 also conforms to the minimum opening force requirements of the Americans with Disabilities Act (A.D.A.) and ANSI/BHMA standard A117.1 for interior doors.

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7570
SECURITY DOOR CLOSER

OPTIONAL FEATURES

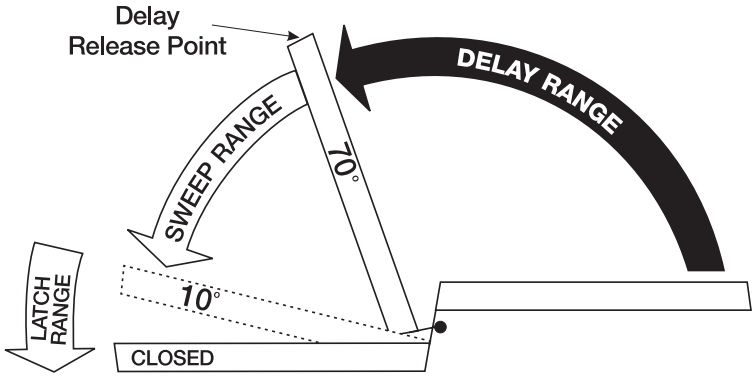
Adjustable Delayed Action Closing

An optional hydraulic feature that adds a third speed range to the closing cycle. This feature becomes effective when the door is opened and released at any point beyond 70°. The amount of time delay depends upon the combination of the angle of door release and valve adjustment. The valve can be adjusted with a 1/8" (3mm) hex key from no delay time up to maximum delay times of:

Door Opened and Released at	Approximate Time of Delay Cycle
180°	4-5 minutes
120°	2-3 minutes
90°	25-30 seconds

Pressure Relief Safety Valve

The delayed action hydraulic system contains a pressure relief valve. Any time the door is forced toward the closed direction while it is in the closing cycle, the valve will open and permit the door to close. This prevents damage to door, frame and closer.



Suggested Applications

Delayed Action closing allows slow-moving traffic to clear the opening before the door closer's normal closing cycle begins. This feature can be helpful in health care facilities such as hospitals and nursing homes. It provides sufficient time for persons on crutches or in wheelchairs to pass through a door without concern of it closing. At the same time, it can accommodate the facility's staff with movement of food service carts, beds, and other wheeled traffic.

Use of delayed action closers on many doors throughout industrial and commercial buildings can also assist the flow of traffic. Locations where additional time to clear the opening is advantageous are doors between office and factory/warehouse facilities, doors to workshops or laboratories, to kitchen and food processing areas.

Non-Hold Open

Self-closes door every time door is opened. Auxiliary stop (by others) required except when using the CloserPlus®, CloserPlus Spring™ or Unitrol® arms.

Hold Open

Achieved by means of ball and detent/roller. Ball and detent or roller hold open is effective in a range of 85° to 110°.

Hold open arm door closers are not permitted to be used on fire door assemblies.

Arm Function	Regular Rigid Arm	Parallel Rigid Arm	CloserPlus® Parallel Arm	CloserPlus Spring™ Parallel Arm	Unitrol® Parallel Arm	Slide Track
Non-Hold Open	✓	✓	85° to 110°	85° to 110°	85° to 110°	85° to 110°/180°
Hold Open	—	—	85° to 110°	85° to 110°	—	—

✓=180° trim and template permitting

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SPECIFICATIONS

7570 Series

Closers for interior and exterior doors shall be full rack-and-pinion type with cast aluminum alloy body. Closers shall be surface mounted and shall project no more that 2-3/16" from the surface of the door. Closers shall be reversible but supplied with a handed metal cover. Closer fluid shall contain lubricity and anti-oxidation agents. Closer fluid shall maintain stable viscosity to allow door closer to perform in temperatures ranging from extremely high to as low as -40°F. Closers shall have multi-size spring power adjustment to permit setting of spring from 1 through 6. Closers shall have two non-critical valves, hex key adjusted, to independently regulate sweep and latch speed. Closers shall have backcheck cushioning controlled by a hex key adjustable valve. Closers shall have backcheck position controlled by a hex key adjustable valve.

[Closers shall have adjustable delayed-action closing controlled by a hex key adjustable valve.]

**Closers shall be enclosed in a [plated] [sprayed] metal cover. Closers to be Norton Rixson [7570]. Covers shall be fastened to the body at four points, two at the top and two at the bottom to prevent prying.

**For special arms insert the appropriate specification from column two on this page.

**Unitrol® Arm

Door closers shall have built-in door stop effective at one point selected at installation, from 85° - 110° in five-degree increments. Door stop shall be cushioned by a shock-absorbing heavy-duty spring action effective at the soffit plate pivot. Closers shall be provided for parallel arm installation using rigid steel main arm and secondary arm lengths proportional to the door width.

**CloserPlus® Arm

Door closers shall have built-in door stop [and holder] effective at one point selected at installation, from 85° - 110° in five-degree increments. Door stop mechanism shall be reversible and attached to soffit plate. [Hold open mechanism shall have engage/disengage selection actuated by thumbturn]. Closers shall be provided for parallel arm installation using rigid steel main and secondary arms.

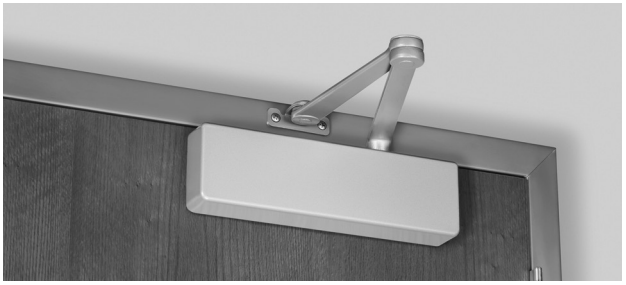
**CloserPlus Spring™ Arm

Door closers shall have built in door stop [and holder] effective at one point selected at installation, from 85° - 110° in five-degree increments. Door stop mechanism shall have a buffer spring that engages prior to the dead stop feature, reducing shock loads to the door and frame assembly. Door stop mechanism shall be reversible and attached to soffit plate. [Hold open mechanism shall have engage/disengage selection actuated by thumbturn]. Closers shall be provided for parallel installation using rigid steel main and secondary arms.

NORTON RIXSON
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7570
SECURITY DOOR CLOSER

APPLICATIONS



Regular Rigid Arm

This double lever arm features a non-adjustable secondary arm. Orbitally riveted joints prevent tampering or disassembly. The rigid heavy-duty arm is standard with the security closers featuring a regular arm applicaton.

Auxiliary door stop required. Available non-hold open only.



Parallel Rigid Arm

An enhanced variation of the standard parallel arm assembly that is intended for use in heavy traffic areas where auxiliary door stops are installed.

Auxiliary door stop required. Available non-hold open only.



CloserPlus® Arm

Similar to the Parallel Rigid arm, this arm incorporates a stop at the arm's soffit plate to dead stop the door at a predetermined degree of door swing between 85° and 110°, in 5° increments. Prior to dead stop the door closer's backcheck feature slows the door speed to reduce the impact of the stop action.

CloserPlus arm is intended for use where an auxiliary door stop cannot be utilized and no more than moderate abuse is anticipated. Where more extreme conditions are expected, use of a Unitrol® arm is recommended.

Thumbturn hold open available. (Hold open strength is adjustable.)

APPLICATIONS



CloserPlus Spring™ Arm

This heavy-duty stop arm includes all of the features of the CloserPlus Arm, plus an added buffer spring that is compressed prior to the arm hitting the dead stop point. This greatly reduces the shock of the stopping action that occurs with the CloserPlus arm.

CloserPlus Spring Arm is intended for use where an auxiliary door stop cannot be utilized and no more than moderate abuse is anticipated. Where more extreme conditions are expected, use of a Unitrol arm is recommended.

Thumbturn hold open available. (Hold open strength is adjustable.)



Unitrol® Arm (Parallel Arm)

Unitrol arms combine the features of a double lever arm overhead door stop/holder with the backcheck feature of the door closer to reduce door stopping shock loads to a minimum. This arm uses a compression spring buffer at thesoffit plate/arm shoe that will absorb 30 lbs. of force, 5° prior to the door's dead stop. Coupled with the door closer's backcheck feature, the Unitrol Arm offers the most controlled stop available with a surface door closer.

There are three different length arm assemblies. Each length is designed for a specific range of door widths to provide precise door control. This further lessens the dead stop impact on the door's hinges/pivots.

Only available in painted finishes.



Pull Side



Push Side

Slide Track Mounting

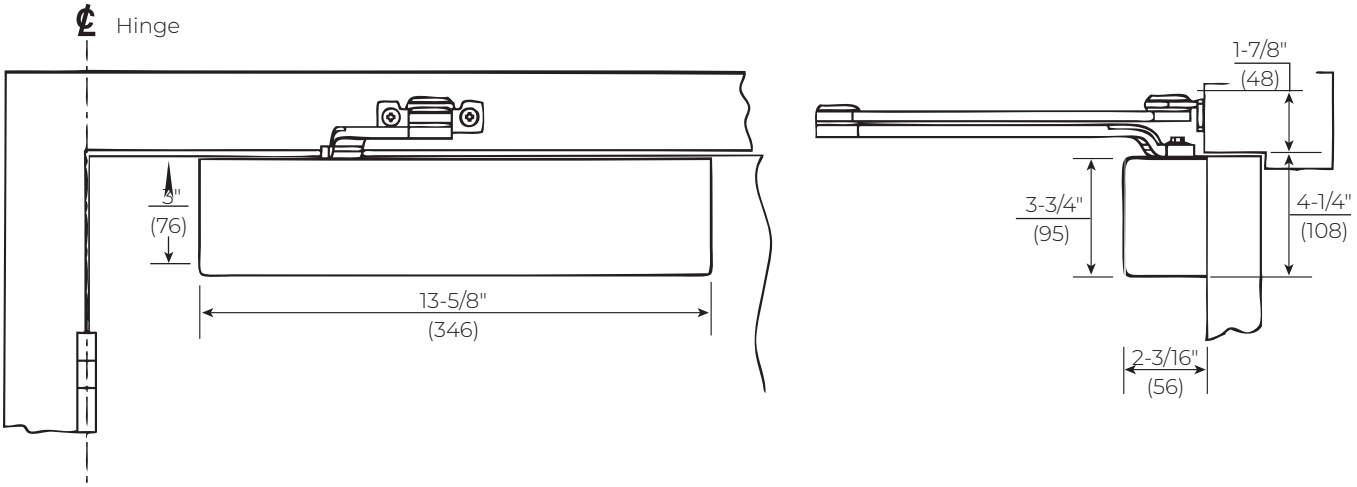
Whether pull or push side mounted, this application provides the designer with the smoothest lines available in a surface-mounted door closer. The single lever arm allows components to be located in a stack configuration to minimize projection and eliminate obtrusive arm angles.

Auxiliary door stop is recommended for this application.

NORTON RIXSON
ASSA ABLOY

7570
SECURITY DOOR CLOSER

REGULAR RIGID ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

Model
Non-Hold Open
7570

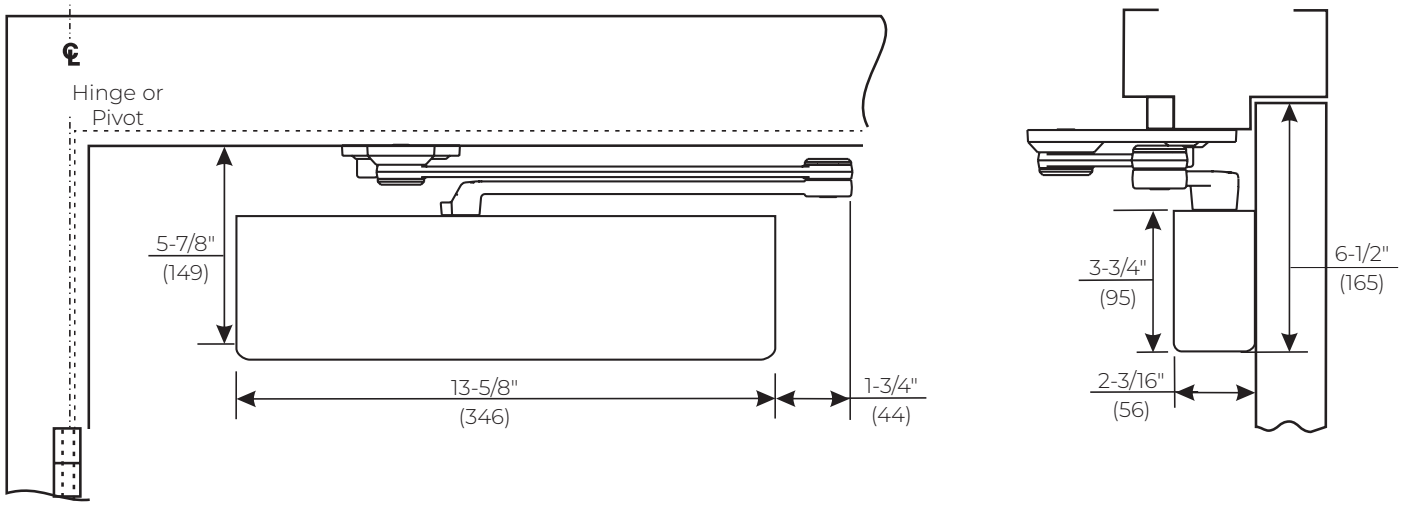
Note:

- Door closers are set at midpower range from the factory.
- Standard door widths: interior 36"-54" (91-137cm), exterior 30"-52" (76-132cm)

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7570
SECURITY DOOR CLOSER

PARALLEL RIGID ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

Model
Non-Hold Open
PR7570

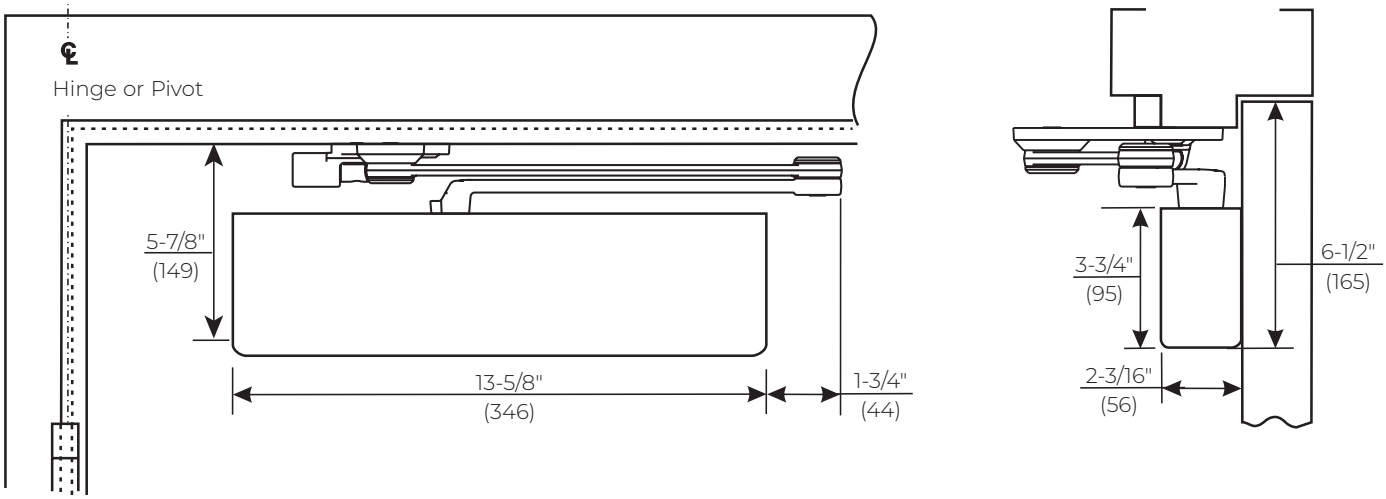
Note:

- Door closers are set at midpower range from the factory
- Standard door widths: interior 30"-48" (76-122cm), exterior 32"-48" (81-122cm)

NORTON RIXSON
ASSA ABLOY

7570
SECURITY DOOR CLOSER

CLOSERPLUS® ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

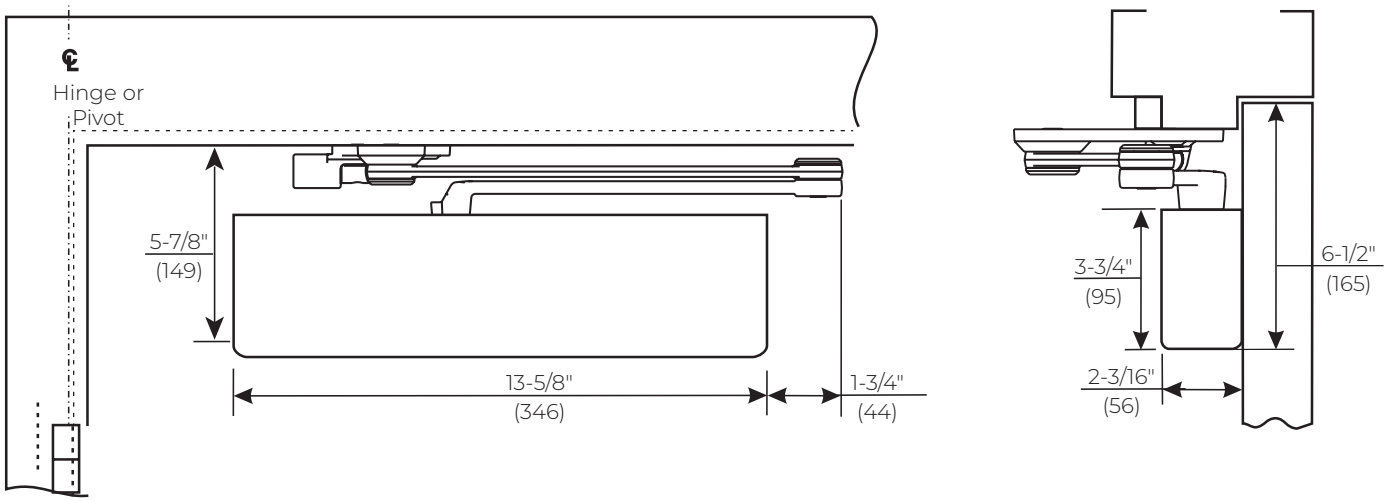
Model	
Non-Hold Open	Hold Open
CLP7570	CLP7570T

Note:

- Door closers are set at midpower range from the factory.
- Standard door widths: interior 30"-48" (76-122cm), exterior 32"-48" (81-122cm)

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CLOSERPLUS SPRING™ ARM



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

Model	
Non-Hold Open	**Thumbturn Hold Open**
CPS7570	CPS7570T

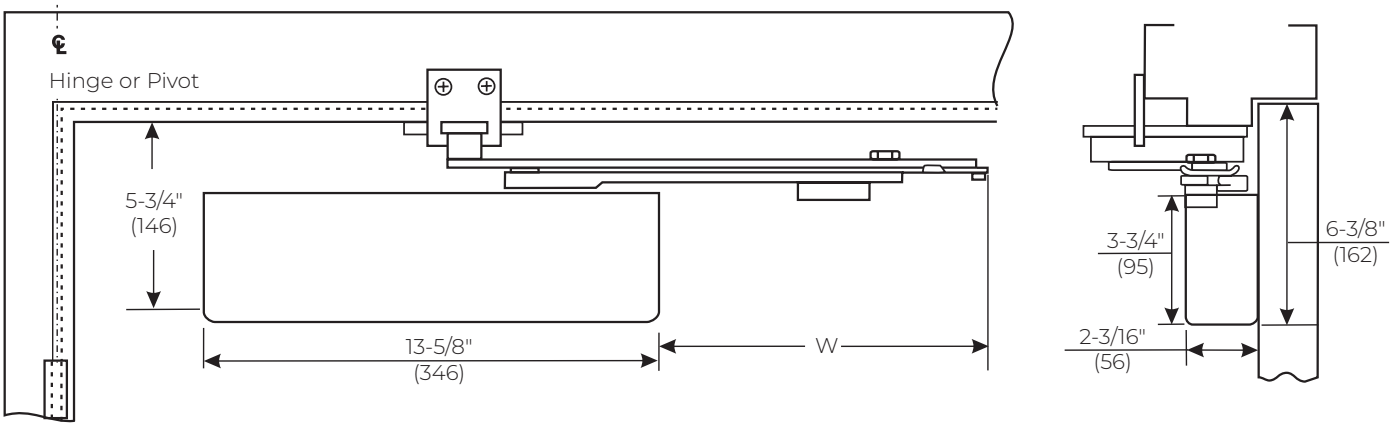
Note:

- Door closers are set at midpower range from the factory.
- Standard door widths: interior 30"-48" (76-122cm), exterior 32"-48" (81-122cm)

NORTON RIXSON
ASSA ABLOY

7570
SECURITY DOOR CLOSER

UNITROL® PARALLEL ARM



Door width must be specified when ordering.
Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

Use 6190* bracket for reveals 1-7/8" - 4-5/8" (48 to 117mm). Reveals in excess of 4-5/8" (117mm) requires use of 6191** reinforcing kit. Reveals to 1/8" (3mm) require use of a 2022** angle bracket.

* 6190 bracket is supplied standard with Unitrol arms.
** 6191 and 2022 must be specified in lieu of 6190 when required.

Door Width Inches (cm)	W Arm Extension Beyond Closer
28-32" (71-81)	8-5/8" (219)
33-41" (84-104)	10-1/8" (257)
42-48" (107-122)	11-1/2" (292)

Model	
Non-Hold Open	x Specify Door Width
UNI7570	

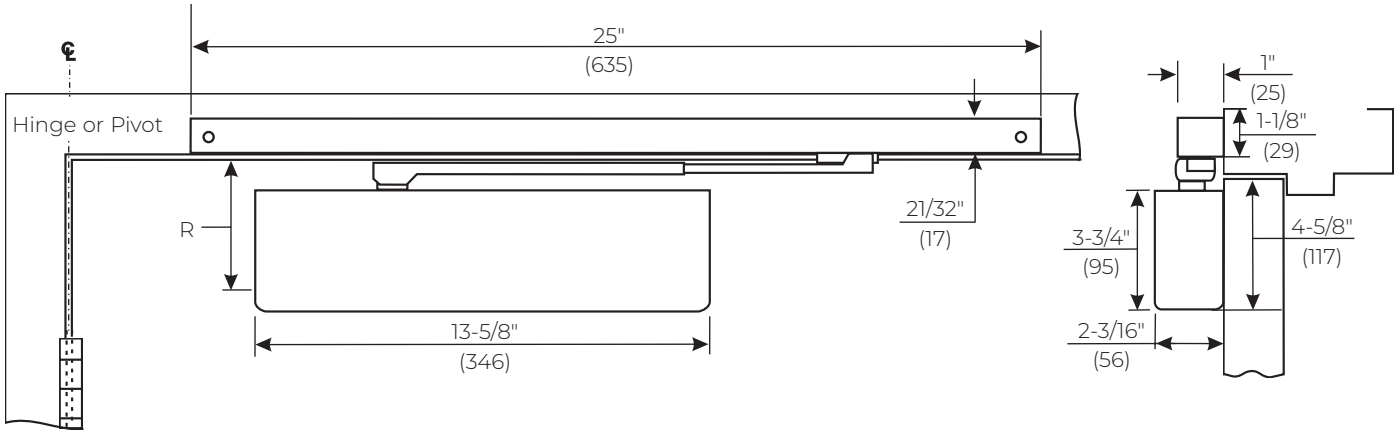
Note:

- Door closers are set at midpower range from the factory.
- Standard door widths: 30"-48" (76-122cm)

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7570
SECURITY DOOR CLOSER

PULL SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

R Minimum Top Rail of Door with Frame Stop	
Without Drop Plate	**With 7786 Drop Plate**
3-1/2" (89mm)	2" (51mm)

Model
Non-Hold Open
7570ST

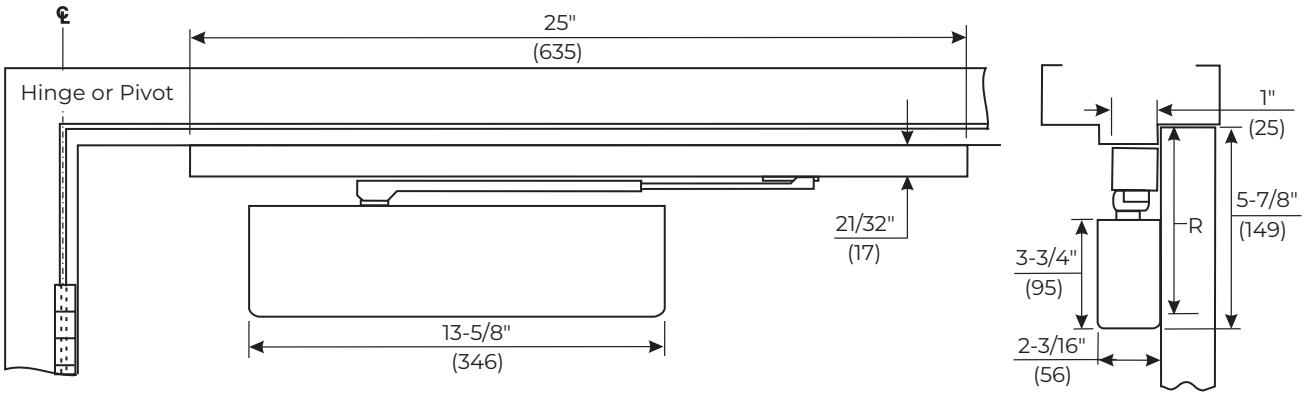
Notes:

- Door closers are set at midpower range from the factory.
- Door will swing up to 110° with buffer. Without buffer, door will swing to 180°. Auxiliary stop required for all applications.
- Standard door width: interior 32"-48" (81-122cm)

NORTON RIXSON
ASSA ABLOY

7570
SECURITY DOOR CLOSER

PUSH SIDE SLIDE TRACK



Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.

R Minimum Top Rail of Door with Frame Stop 5/8" (16mm)	
Without Drop Plate	**With 7788 Drop Plate**
5-1/4" (133mm)	3-5/8" (92mm)

Model
Non-Hold Open
PS7570ST

Notes:

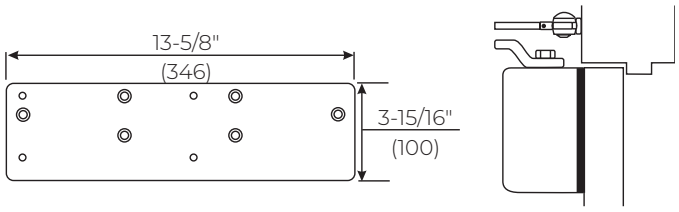
- Door closers are set at midpower range from the factory.
- Maximum degree of door swing is 125°. Auxiliary stop required for all applications.
- Standard door width: interior 32"-48" (81-122cm)

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REGULAR RIGID ARM

Closer Mounting Plate

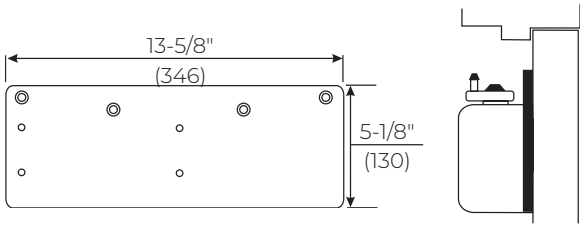
Narrow Top Rail - 7786 Drop Plate: For use where the narrow top rail of the door prevents the closer from being mounted directly to the door surface. This drop plate must be used for a closer mounted on a top rail between 1-7/8" and 3-3/8" (48 and 86mm) in height.



PARALLEL RIGID ARM

Closer Mounting Plate

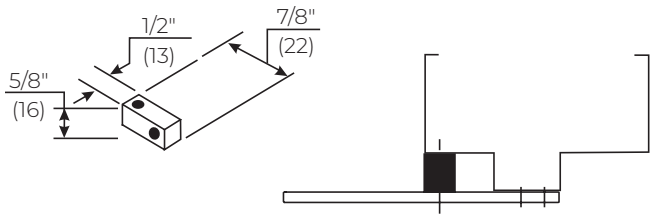
Narrow Top Rail - 7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.



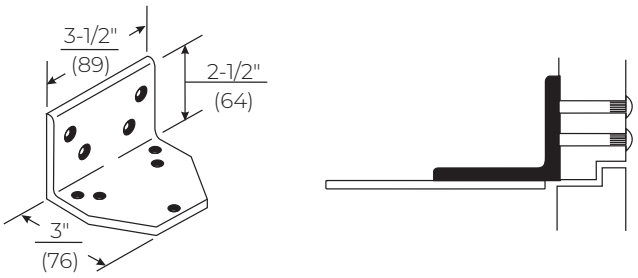
NORTON RIXSON
ASSA ABLOY

PARALLEL RIGID ARM

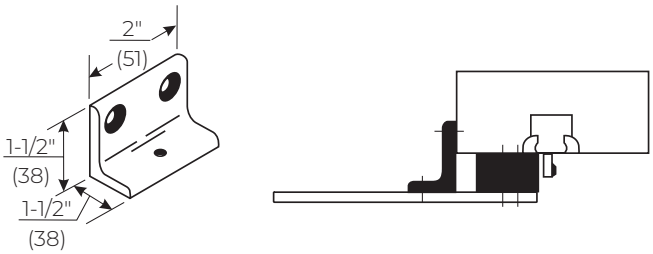
Brackets for Non-Hold Open Arms



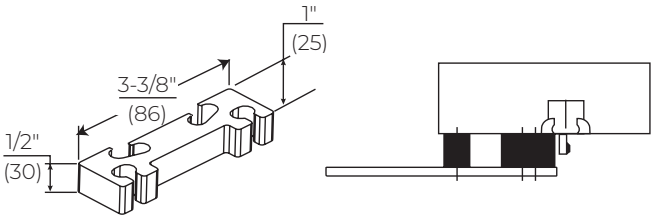
Standard - 2019S Spacer Block: For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all Parallel Rigid arm closers.



Flush Rabbeted Transom - 2019L Angle Bracket: For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the standard soffit plate.



Narrow Frame - 6890 Support Bracket: For use where the frame is narrow, and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the 6891 Spacer Block on blade stop frames to provide extra support and needed clearance of the blade stop.



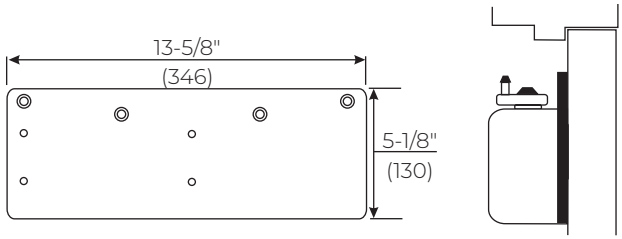
Clearance/Support Blade Stop - 6891 Spacer Block: For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance of the blade stop.

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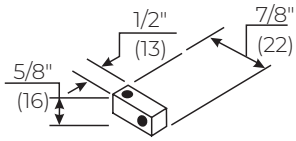
CLOSER PLUS® AND CLOSER PLUS SPRING™ ARMS

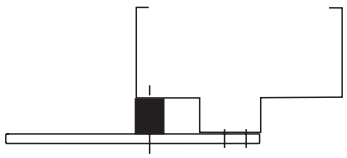
Closer Mounting Plate

Narrow Top Rail - 7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-1/2" (64mm) in height.

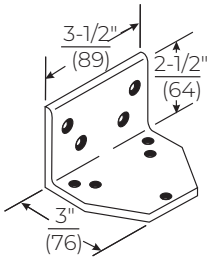


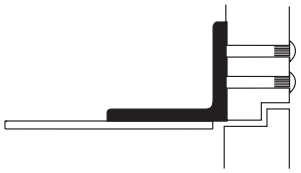
Brackets for Non-Hold Open Arms & Hold Open Arms



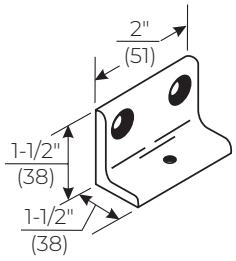


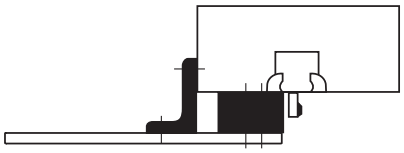
Standard - 2019S Spacer Block: For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied standard with all Parallel Rigid arm closers.



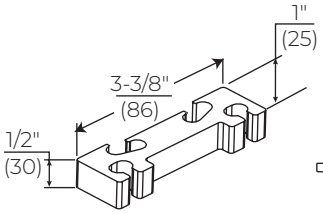


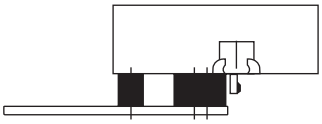
Flush Rabbeted Transom - 2019L Angle Bracket: For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the standard soffit plate.





Narrow Frame - 6890 Support Bracket: For use where the frame is narrow, and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the 6891 Spacer Block on blade stop frames to provide extra support and needed clearance of the blade stop.





Clearance/Support Blade Stop - 6891 Spacer Block: For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance of the blade stop.

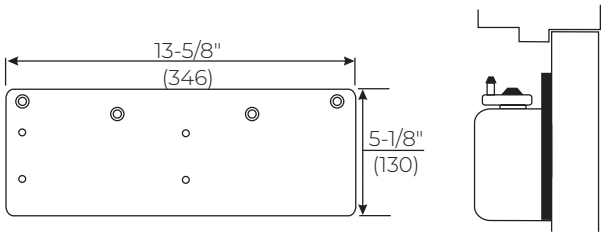
NORTON RIXSON
ASSA ABLOY

7570
SECURITY DOOR CLOSER

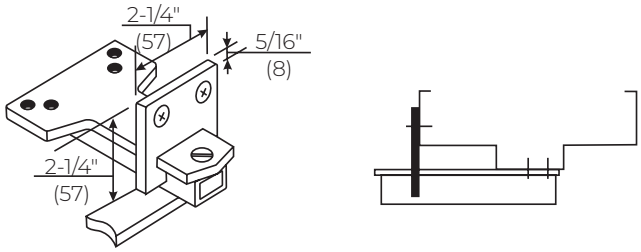
UNITROL® ARM

Closer Mounting Plate

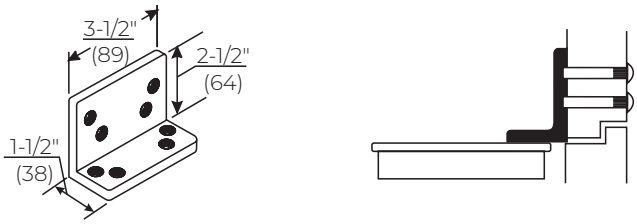
Narrow Top Rail - 7788 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-3/8" (60mm) in height.



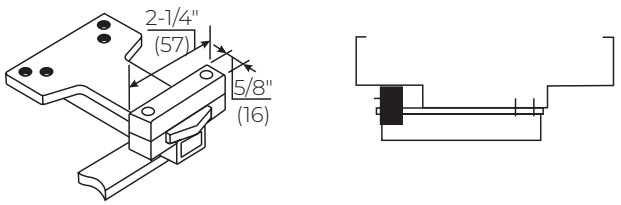
Soffit Plate Reinforcing Brackets

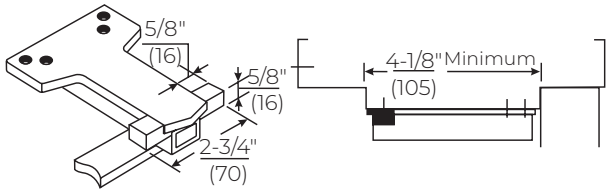


Additional Support - 6190 Reinforcing Bracket: Standard for use with all Unitrol parallel arms. Provides additional support to the soffit plate on installations with door frame reveals from 1-7/8" to 4-5/8" (48 to 117mm).



Flush Rabbeted Transom - 2022 Angle Bracket: Optional for use with all Unitrol parallel arms. For use where rabbeted or flush transom conditions prevent installation of the soffit plate assembly. This bracket fastens to the overhead transom to provide a mounting surface for the soffit plate assembly.

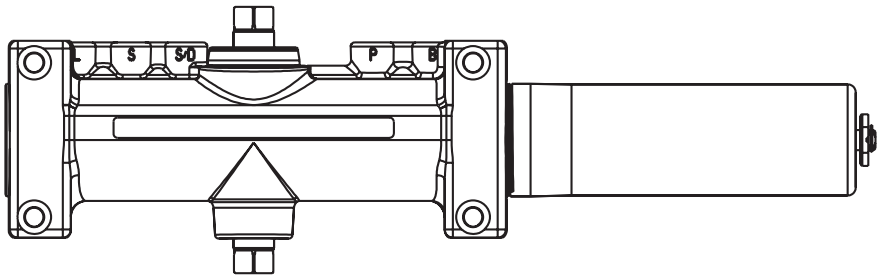




Wide Frame - 6191 Reinforcing Kit: Optional for use with all Unitrol parallel arms. Used to support the soffit plate on installations with wide frames. Clamps may be used with or without the spacer block, depending on frame conditions.

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BODY ASSEMBLIES, COVERS



Closer Bodies	
Part Number	**Description**
7500LAP	Multi-size closer body
7500DALAP	With delayed action

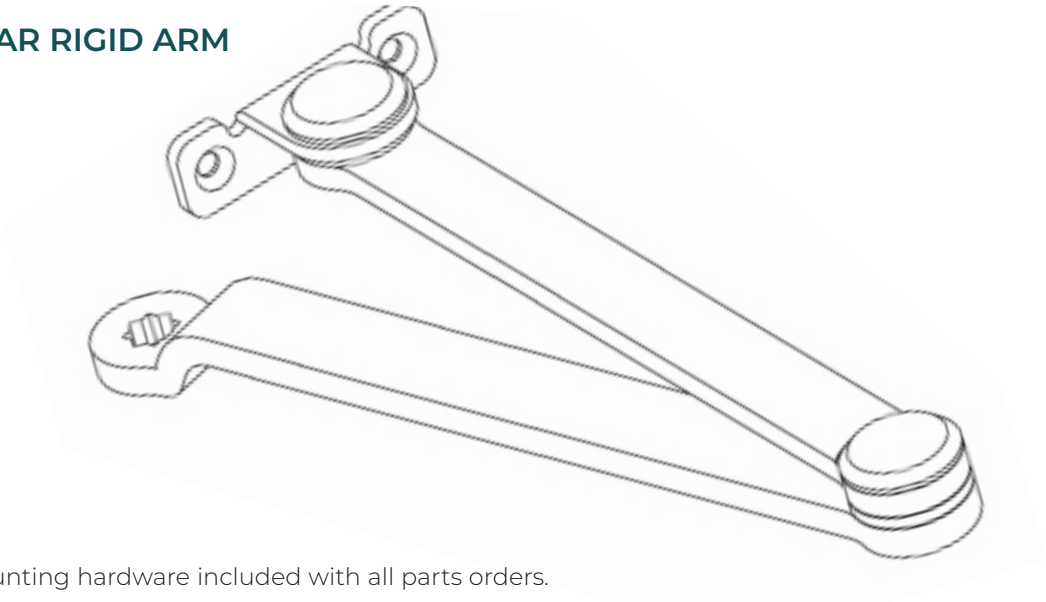
LAP = less all parts

Covers				
Part Number	**Mounting**	**Handing**	**Dimensions**	**Material**
7770MRR	Regular arm	Right hand	Length: 13-5/8" (346mm) Width: 3-3/4" (95mm) Projection: 2-3/16" (56mm)	Metal
7770MRL		Left hand		
7770MPR	Parallel arm	Right hand		
7770MPL		Left hand		

NORTON RIXSON
ASSA ABLOY

7570
SECURITY DOOR CLOSER

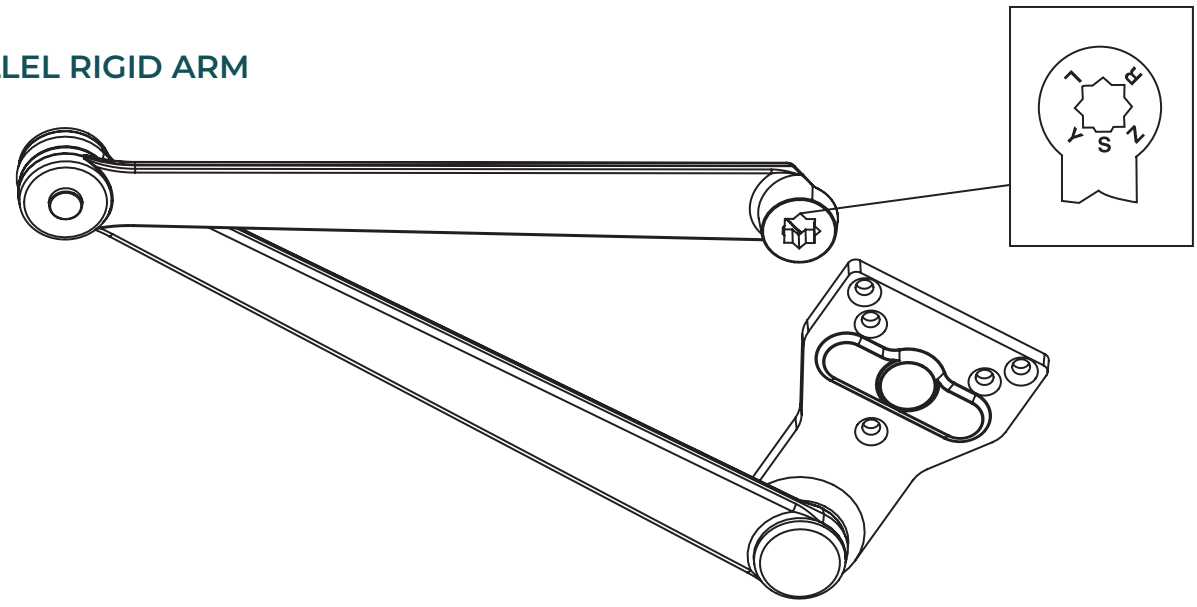
REGULAR RIGID ARM



Note: Mounting hardware included with all parts orders.

Model	Arm Function	Complete Arm Assembly
R7570	Non-hold open	7771-1

PARALLEL RIGID ARM



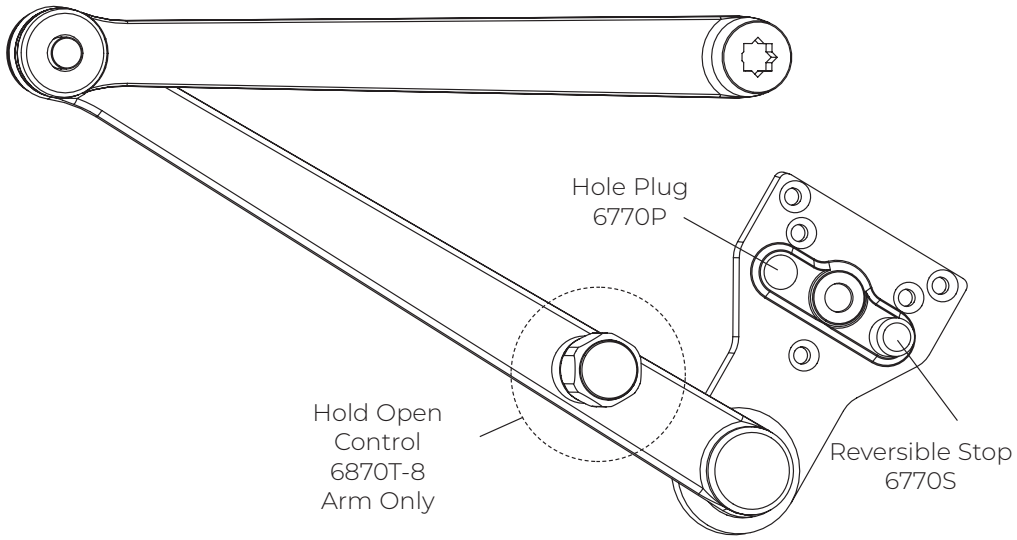
Note: Mounting hardware included with all parts orders.

Model	Arm Function	Complete Arm Assembly
PR7570	Non-hold open	7771-5

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CLOSERPLUS® ARM

Hold Open Arm Shown (CLP-T)

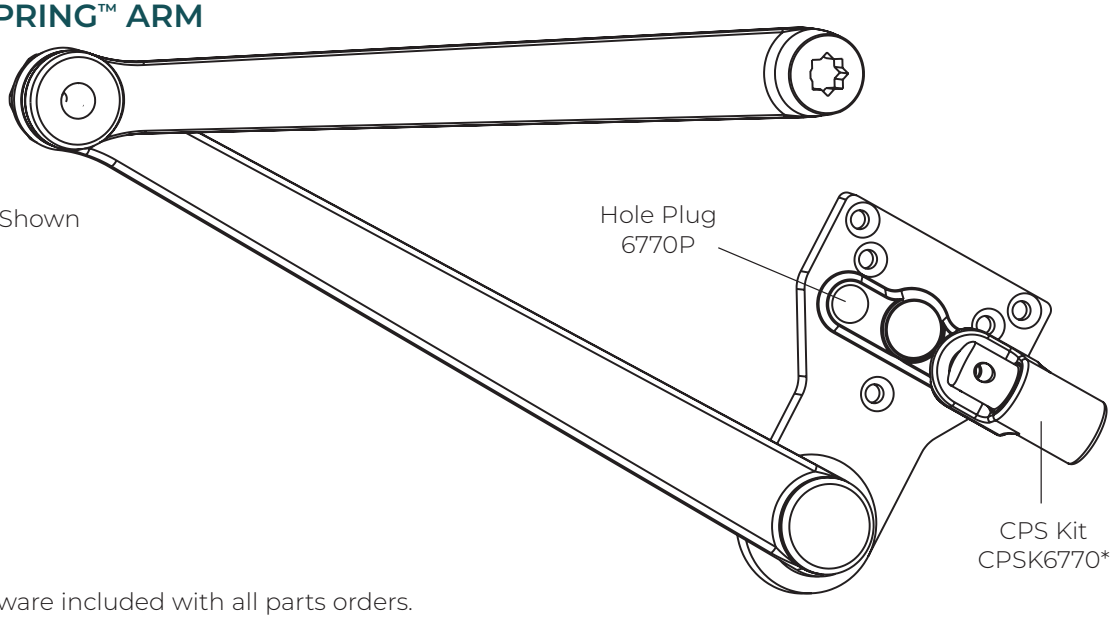


Note: Mounting hardware included with all parts orders.

Model	Arm Function	Complete Arm Assembly
CLP7570	Non-hold open	CLP7771-5
CLP7570T	Thumbturn hold open	CLP7771-8T

CLOSERPLUS SPRING™ ARM

Non-Hold Open Arm Shown



Note: Mounting hardware included with all parts orders.

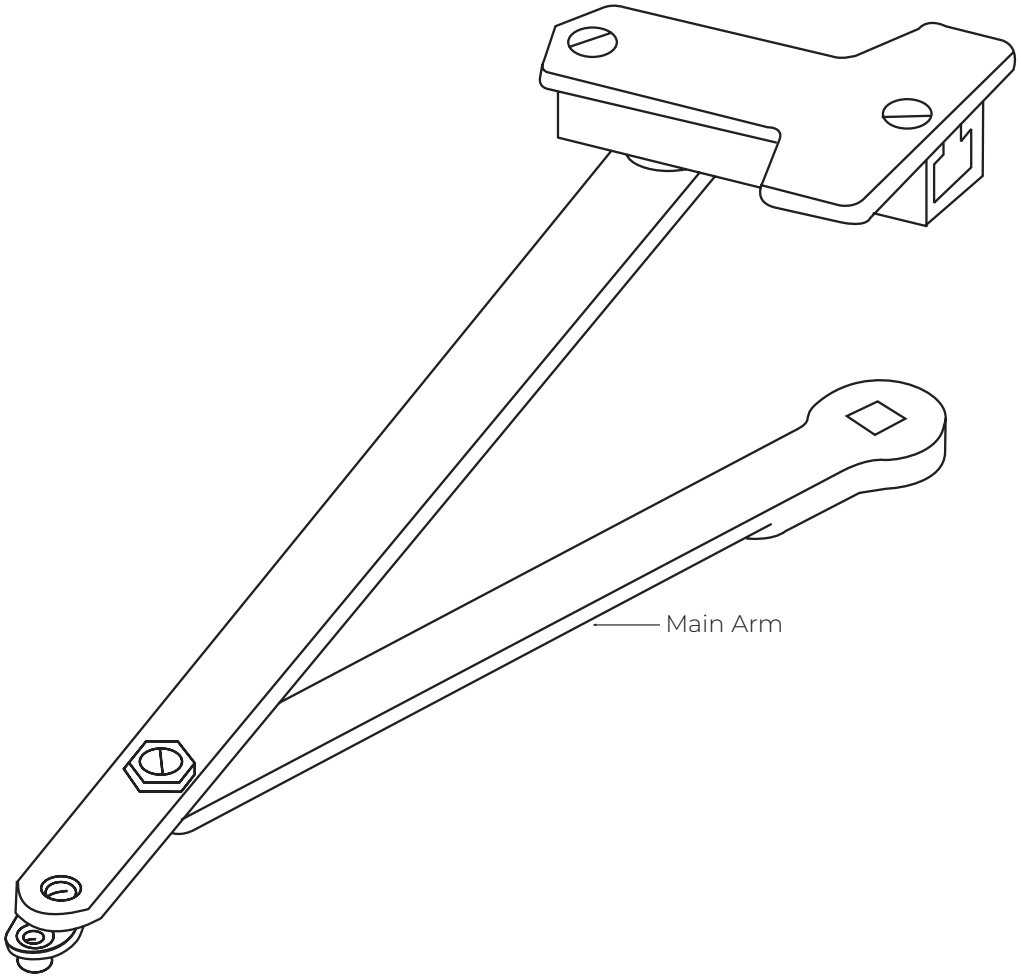
Model	Arm Function	Complete Arm Assembly
CPS7570	Non-hold open	CPS7771-5
CPS7570T	Thumbturn hold open	CPS7771-8T

* CPSK6770 kit can be used to upgrade CLP7771-5 or CLP7771-8T arms.

NORTON RIXSON
ASSA ABLOY

7570
SECURITY DOOR CLOSER

UNITROL® ARM



Note: Mounting hardware included with all parts orders.

Door Width (cm)	Main Arm Length* (mm)	Complete Arm Assembly
		Non-Hold Open
28" - 32" (71- 81)	9-1/2" (241)	6100-11
33"- 41" (84 - 104)	11" (279)	6100-13
42" - 48" (107 - 122)	12-1/2" (318)	6100-14

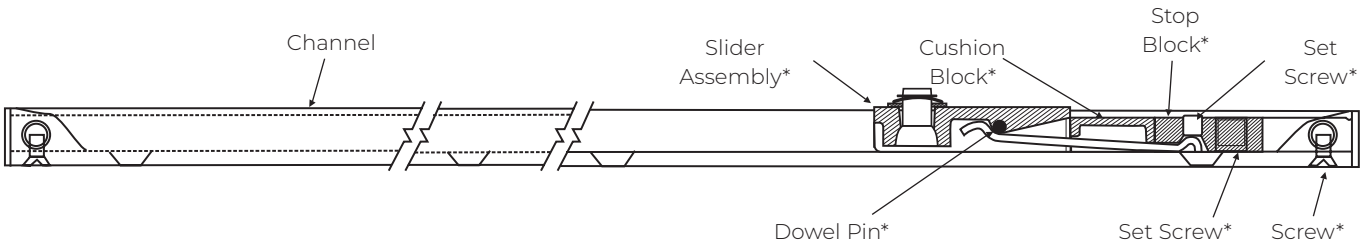
* Center to center length.
Only available in painted finishes.

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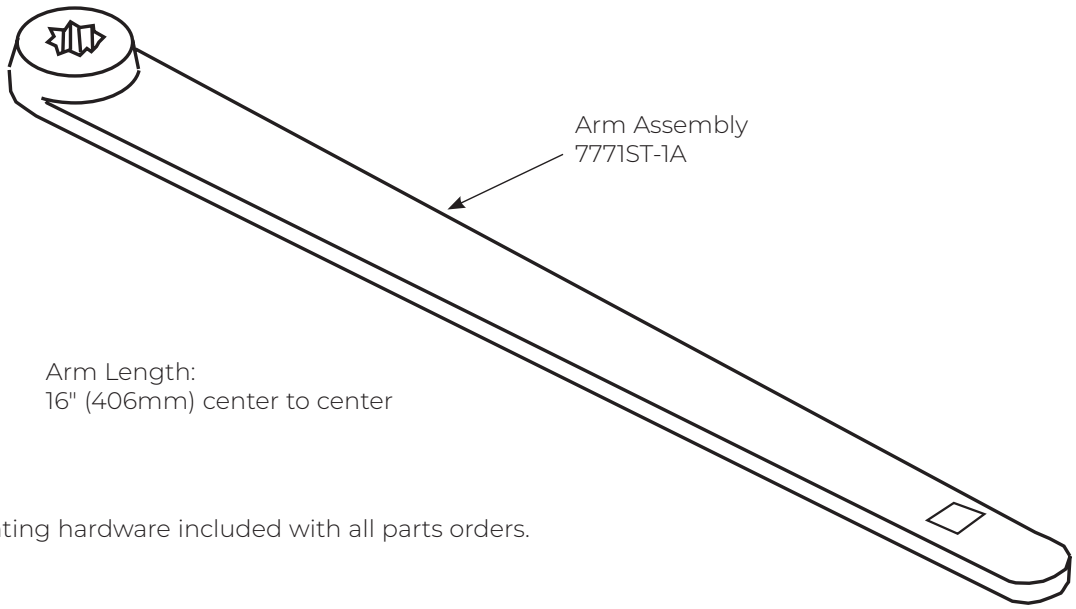
TRACK ASSEMBLIES

Non-Hold Open Arm Shown

Slide Track Assembly	
Description	**Part Number**
Pull-side mounted	7771ST-1T
Push-side mounted	7771ST-5T



*Part of an assembly pack non-hold open = 7740SLD



Note: Mounting hardware included with all parts orders.

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FASTENERS

Type	Description	Arm					
		RA	PR	CLP	CLS	UNI	ST
Torx®	Lobular *Torx* drive screws	S	S	S	S	S	S
SN	Sex nut	O	O	O	O	S	S
SDST	Self drilling self tapping	O	O	O	O	O	O

S = Standard; O = Optional

Torx drive screws, for tamper resistance are standard with 7570 closers. These screws are only offered with machine threads for fastening to metal doors and frames. #14-10 wood or sheet metal fasteners if required, must be supplied by others.

SN are for use on unreinforced hollow metal doors or to prevent any hollow metal door from collapse/dimpling. They can also be used for thru bolting on wood doors. **When selected as an add-on option,** SN are supplied for 1-3/4" (44mm) thick doors unless specified for 2-1/4" (57mm) thick doors.

Torx® Screw Pack^	
Arm Type	Part Number
Regular Rigid heavy-duty	RTX47
Parallel Rigid, CloserPlus® CloserPlus Spring™	PRTX47
Unitrol®	UNITX47

^Torx screws with machine screw threads are supplied with security closers.

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FINISHES

Norton Rixson offers waterborne acrylic, polyster powder coat and plated finishes. Custom finishes are available on special order. A sample and approval is required.

Waterborne acrylic and polyester powder coat will withstand 100 hours of salt spray (ANSI requires 25 hours).

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613E (US10BE)	Dark oxidized satin bronze - equiv.
619 (US15)	Satin nickel plated, clear coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat
600^	Prime coat

^ 600 is a special rust inhibiting prime coat. Closers can be ordered prime coat only (specify closer x 600). An additional charge applies if finish coat is required over prime coat.

- Closer bodies and plastic covers are available in waterborne acrylic finishes. Arms and metal covers are available in powder coat or plated finishes.
- When a plated finish is ordered, arm and cover will be plated unless "cover only" is specified.

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7570
SECURITY DOOR CLOSER

HOW TO ORDER

For optimum protection of door and frame assemblies, always use auxiliary wall, floor, or overhead door stop. Auxiliary stop is required in abusive applications.

CLP	75	7	0	T
Prefixes	Closer series	Specifies some options	Closer size	Suffixes

No Prefix – Regular Rigid arm
PR – Parallel Rigid arm (parallel arm only). Non-hold open only.
PS – 7570ST for push side mounting only.
CLP – CloserPlus® arm (parallel arm only).
CPS – CloserPlus Spring™ arm (parallel arm only).
UNI – Unitrol® arm (parallel arm only - specify door width). Frame reveals 1-7/8" to 4-5/8" (48-117mm) standard.

7 – Specifies closer having a security arm, security cover and Torx® security screws (specify hand).

0 – Adjustable 1-6

None – Non-hold open arm function
ST – Slide track – single lever arm (auxiliary stop recommended)
T – Thumbturn hold open on CloserPlus® (CLP) or CloserPlus Spring™ (CPS) arm
EBC – Enhanced backcheck (not available with DA)
DA – Delayed Action
EP – Extra Power (specify model 7776EP)

NOTE:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).or wind/draft conditions) may require adjustment of spring setting, selection of a larger size closer or different closer.

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ARCHITECTURAL DOOR CLOSER

INTRODUCTION

Multi-sized surface closer offering a complete range of arms and a sleek, minimal design suited for moderate- to high-traffic, architectural openings.



FEATURES

- Adjustable spring sizes 1 through 6
- Door weight: 250 lbs.
- Tri-Style® packaging standard (regular arm, top jamb and parallel arm mounting)
- Non-handed
- Staked valves
- Cast aluminum closer body
- Rack and pinion design
- 1-1/4" (32mm) diameter piston
- 5/8" (16mm) diameter pinion journals
- 2-1/8" (54mm) projection (standard covers)
- All standard arm applications (with slim, full or metal covers) allow doors to swing 180 degrees, conditions permitting
- Full size template
- Standard, separate and independent, latch, sweep and back check intensity valves
- Application specific arms: Regular (S), Top Jamb (JS) and Parallel (P)
- Heavy-duty arms; Regular Rigid, Parallel Rigid, CloserPlus®, CloserPlus Spring™, Unitrol®
- Slide Tracks: push or pull side mounting
- 30-year limited warranty

OPTIONAL FEATURES

- Lead lined metal cover - suffix MLL
- Metal, architectural plastic or architectural metal covers (8501 only)
- Delayed action

Features	8301	8501
Slim Line Cover	✓	
Full cover		✓

PATENTS

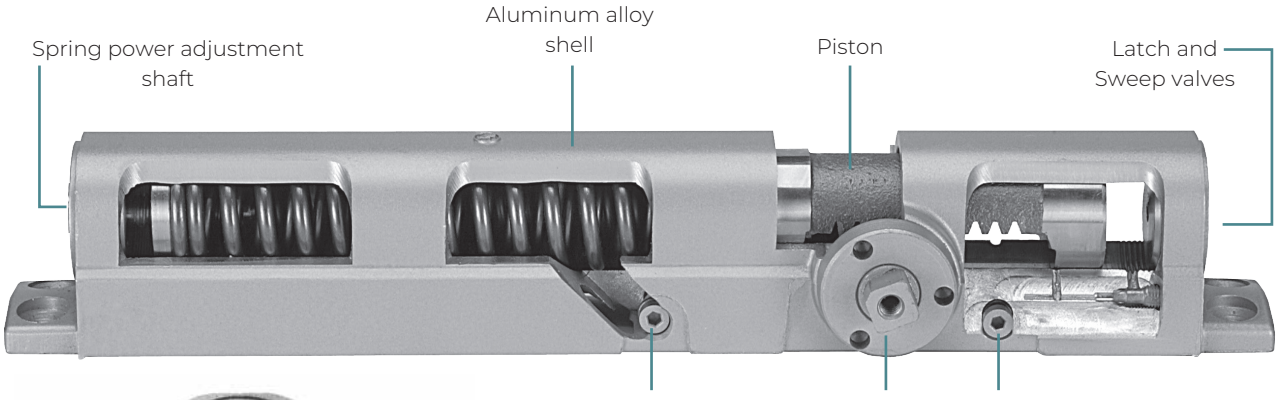
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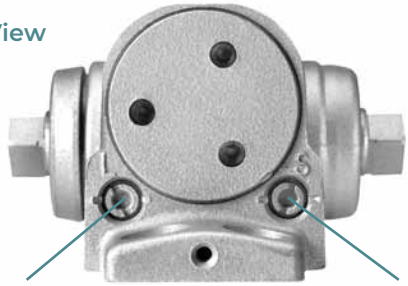
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OVERVIEW

Cutaway View



End View



CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 1
- ANSI/BHMA A117.1
- Americans with Disabilities Act (ADA) Compliant
- Environmental Product Declaration (EPD)
- UL10C positive pressure up to 3 hours
- UL-cUL listed
- Manufactured in an ISO 9001, ISO 14001 facility

CAUTION: Door Closers for Low Opening Force Applications:
Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

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EXPLANATION OF FEATURES

Aluminum Alloy Housing
Closer bodies are constructed of a special aluminum alloy, carefully selected to accommodate interactive steel components and operating conditions.

Rack & Pinion Operation
Provides a smooth constant control of the door through its full opening and closing cycle. 180° door swing can be achieved when door, frame, hardware and arm function do not interfere.

Non-handed
With few exceptions all series 8301/ 8501 door closers are non-handed and can be installed on either right- or left-hand swing doors. Pinion shaft extends vertically through the closer body in both directions. Some options will require that the hand of the closer be specified.

Sweep Speed Control Valve
Allows adjustment of door speed from the door's full open position down to approximately 10° from the closed position.

Latch Speed Control Value
Allows adjustment of door speed from approximately 10° down to the door's fully closed position.

Tri-Style®
8301/8501 comes with screws, brackets and soffit plates to allow for regular, top jamb, and parallel arm installations.

Adjustable Backcheck Cushion Valve
Provides control of the door in the opening cycle, beginning at approximately 75° of door opening. It cushions the door opening when the door is forcibly opened beyond its pre-adjusted limits.

Standard Molded Covers
Molded of high-impact U.L. listed material. These covers are non-handed for all applications.

Warranty
Limited 30-year warranty for defects and life of the building on the aluminum housing.

Closer Fluid
NorGlide® closer fluid is a specially formulated multi-viscosity hydraulic fluid that contains lubricity and anti-oxidation agents that provide optimum performance and efficiency. This fluid complements the interaction of the door closer's aluminum housing with its steel and brass components, while maintaining stable viscosity to allow the door closer to perform in temperatures ranging from extremely high to as low as -40° F.

DOOR CLOSER POWER OPTIONS

Series 8301/8501 Multi-Sized Door Closer
Adjustable through the power range of sizes 1 through 6; as outlined in ANSI/ BHMA specification A156.4 option PT 4H.

Closers will also comply with the opening force requirements as outlined in the Americans with Disabilities Act (ADA) and ANSI/BHMA standard A117.1 for interior doors.

Optional Metal Cover
This steel cover is non-handed for regular and parallel arm applications, but is handed for top jamb applications. Cover is available in sprayed or plated finishes.



Optional Architectural Covers *

Plastic

Architectural plastic covers are molded of high-impact U.L. listed material. They are non-handed and available in sprayed finishes.

Metal

The architectural metal covers are steel and non-handed for all applications. These covers are available in sprayed or plated finishes.



Optional ABS Cover
Consult factory for details

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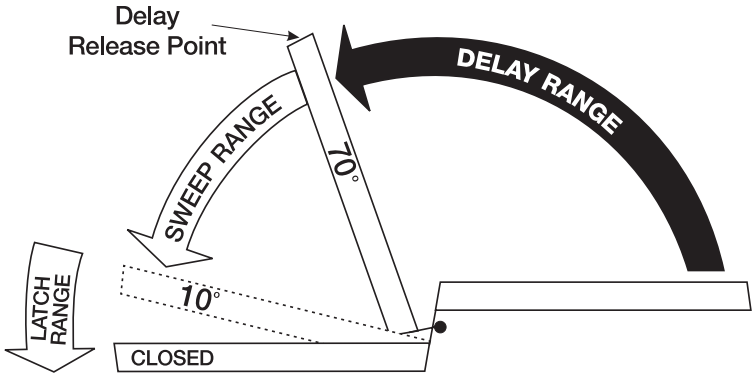
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ARCHITECTURAL DOOR CLOSER

EXPLANATION OF FEATURES

Adjustable Delayed Action Closing
An optional hydraulic feature that adds a third speed range to the closing cycle. This feature becomes effective when the door is opened and released at any point beyond 70°. The amount of time delay depends upon the combination of the angle of door release and valve adjustment. The valve can be adjusted with a 1/8" (3mm) hex key from no delay time up to maximum delay times of:

Door Opened and Released at	Approximate Time of Delay Cycle
180°	4-5 minutes
120°	2-3 minutes
90°	25-30 seconds

Pressure Relief Safety Valve
The delayed action hydraulic system contains a pressure relief valve. Any time the door is forced toward the closed direction while it is in the closing cycle, the valve will open and permit the door to close. This prevents damage to door, frame and closer.



Suggested Applications
Delayed Action closing allows slow moving traffic to clear the opening before the door closer's normal closing cycle begins. This feature can be helpful in health care facilities such as hospitals and nursing homes. It provides sufficient time for persons on crutches or in wheelchairs to pass through a door without concern of it closing. At the same time, it can accommodate the facility's staff with movement of food service carts, beds, and other wheeled traffic.

Use of delayed action closers on many doors throughout industrial and commercial buildings can also assist the flow of traffic. Locations where additional time to clear the opening is advantageous are doors between office and factory/ warehouse facilities, doors to workshops or laboratories, to kitchen and food processing areas, etc.

Non-Hold Open
Self-closes door every time door is opened. Auxiliary stop (by others) required except when using the CloserPlus®, CloserPlus Spring™ or Unitrol® arms.

Hold Open
Achieved by means of friction or ball and detent/ roller. Friction hold open has a range of 90° to 180° using template location and mechanical adjustment.

Ball and detent or roller hold open is effective in a range of 85° to 110°.

Hold open arm door closers are not permitted to be used on fire door assemblies.

Door Opening Degrees

Arm Function	Regular Top Jamb Parallel Arm	Parallel Rigid Arm	CloserPlus® Parallel Arm	CloserPlus Spring™ Parallel Arm	Unitrol® Parallel Arm	Unitrol® Top Jamb	Low Profile Regular, Parallel	Slide Track
Non-Hold Open	✓	✓	85° to 110°	85° to 110°	85° to 110°	85° to 110°	✓	85° to 110°/180°
Hold Open	90° to 180°	85° to 180°	85° to 110°	85° to 110°	85° to 110°	85° to 110°	N/A	85° to 110°

✓=180° trim and template permitting

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SUGGESTED SPECIFICATIONS

8301/8501 Series

Closers for interior and exterior doors shall be full rack-and-pinion type with cast aluminum alloy shell. Closers shall be surface mounted and shall project no more than 2-1/8" from the surface of the door with standard cover. Closers shall be non-handed to permit installation on doors of either hand. Closer fluid shall contain lubricity and anti-oxidation agents. Closer fluid shall maintain stable viscosity to allow door closer to perform in temperatures ranging from extremely high to as low as -40°F. Closers shall have multi-size spring power adjustment to permit setting of spring from size 1 through size 6. Closers shall have two non-critical valves, hex key adjusted, to independently regulate sweep speed and latch speed. Closers shall have adjustable backcheck intensity controlled by a hex key adjusted valve.

[Closers shall have adjustable delayed action closing controlled by a hex key adjustable valve.]

Regular arm and top jamb closers shall have a non-hold open shoe permitting 15% (+ or – 7-1/2%) power adjustment. **Closers shall be enclosed in a [molded resin cover] [plated or sprayed metal cover], Closers to be Norton Rixson [8301/8501] [8501M] [8501MA] [8501A].

**For special arms insert the appropriate specification from column two on this page.

**Unitrol® Arm

Door closers shall have a fixed door stop feature effective at one point selected at installation, from 85° - 110° in five-degree increments.

Door stop shall be cushioned by a shock-absorbing heavy-duty spring action effective at the [soffit plate] [arm shoe] pivot. [Closers shall be provided for parallel arm installation using a rigid steel main arm and secondary arm lengths proportional to the door width.][Closers shall be provided for top jamb installation using a forged steel, rigid main arm and telescoping secondary arm adequate for the frame reveal of the openings.]

**CloserPlus® Arm

Door closers shall have a field reversible door stop. Door closer shall have a feature with selectable on and off ball and detent hold open. Hold open tension shall be adjustable effective at one point selected at installation, from 85° - 110° in five degree increments. [Hold open mechanism shall have engage/disengage selection actuated by thumbturn]. Closers shall be provided for parallel arm installation using a forged rigid steel main arm and secondary arm.

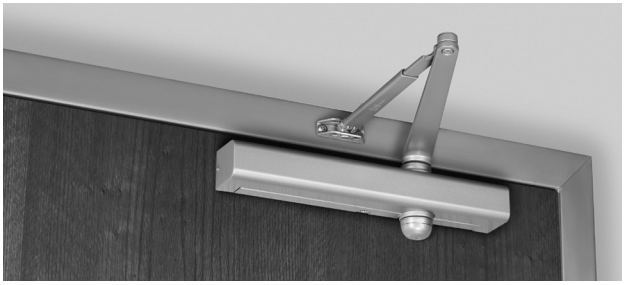
**CloserPlus Spring™ Arm

Door closers shall have built-in door stop [and holder] effective at one point selected at installation, from 85° - 110° in five-degree increments. Door stop mechanism shall be reversible and have a buffer spring that engages prior to the dead stop feature, reducing shock loads to the door and frame assembly. Door stop mechanism shall be non-handed and attached to soffit plate. [Hold open mechanism shall have engage/disengage selection actuated by thumbturn]. Closers shall be provided for parallel installation using a forged rigid steel main arm and secondary arm.

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APPLICATIONS



8301 - slim cover

Regular Arm
This is the only pull side application where a double lever arm is used. It is the most power-efficient application for a door closer. Sufficient frame, door and/or ceiling clearance must be considered.



8501 - full cover

Since the arm assembly projects directly out from the frame, this application may present an aesthetics issue or be prone to vandalism.



Top Jamb
For efficiency reasons this application provides the best alternative to the regular arm application. There must be sufficient frame face and/or ceiling clearance for this application. It requires a top rail on the door of just 2-1/4" (57mm). This application provides the best door control for doors in exterior walls that swing out of a building.



The entire door closer and arm assembly project from the frame, similar to the regular arm application, where matters of appearance and malicious abuse can be of concern. Consideration must be given to depth of frame reveal.



Parallel Arm
This application provides the most appealing design appearance for a surface mounted door closer having a double lever arm. This also makes it beneficial in vandalism-prone areas. It is on the push side of the door and the arm assembly extends almost parallel to the door. In the closed position, there is very little or no hardware projecting beyond the frame face in most situations.



Due to the geometry of the arm it is approximately 25% less power efficient than a regular arm application. The entire closer and arm assembly are mounted below the frame stop. Top rail clearance dimensions will vary based on the type of cover used.

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APPLICATIONS



Non-hold open arm shown

Parallel Rigid Arm

An enhanced variation of the standard parallel arm assembly that is intended for use in heavy traffic areas where auxiliary door stops are installed.

Hold open available - specify hand when ordering.



Non-hold open arm shown

CloserPlus® Arm

Similar to the Parallel Rigid arm, this arm incorporates a stop at the arm's soffit plate to dead stop the door at a predetermined degree of door swing between 85° to 110°, in 5° increments. Prior to dead stop the door closer's backcheck feature slows the door speed to reduce the impact of the stop action.

The CloserPlus Arm is intended for use where an auxiliary door stop cannot be utilized and no more than moderate abuse is anticipated. Where more extreme conditions are expected, use of a Unitrol arm is recommended.

Available with or without hold open. (Hold open strength is adjustable.)



Non-hold open arm shown

CloserPlus Spring™

This arm has all the characteristics of the CloserPlus arm with an additional steel buffer spring that provides greater protection at the end of the door opening cycle.

For extreme conditions, use of a Unitrol arm is recommended. Available with or without hold open.



CloserPlus Ramp™

The CLP-R uses a patent pending ramp and plunger design that easily slides into place reducing wear often seen on traditional hold open arms. Ideal for applications where the door will constantly be pulled out of hold open.

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APPLICATIONS



Regular Rigid Arm

This double lever arm features a non-adjustable secondary arm. Orbitally riveted joints prevent tampering or disassembly. Prefix "R" to model number. Available non-hold open only.



Non-hold open arm shown

Parallel Rigid Offset Arm

This heavy-duty parallel rigid arm provides additional vertical clearance. It is well suited for applications where weather stripping or other hardware prevents the use of the standard Parallel Rigid (PR) soffit plate. The non-hold open and hold arms allow 1-1/4" clearance. When used in conjunction with a 6891 spacer block, the PRO arm provides 1-7/8" clearance to accommodate the use of a surface overhead stop/holder.



Parallel



Top Jamb

Unitrol® Arm

Can be used for either parallel arm or top jamb applications. Unitrol arms combine the features of a double lever arm overhead door stop/holder with the backcheck feature of the door closer to reduce door stopping shock loads to a minimum. The Unitrol uses a compression spring buffer at the soffit plate/arm shoe that will absorb 30 lbs. of force, 5° prior to the door's dead stop. Coupled with the door closer's backcheck feature, this arm provides the most controlled stop available with a surface door closer.

For parallel arm applications there are three different length arm assemblies. Each length is designed for a specific range of door widths, to provide precise door control. This further lessens the dead stop impact on the door's hinges/pivots.

Only available in painted finishes.

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APPLICATIONS



Pull side



Low profile pull side



Push side



Low profile push side

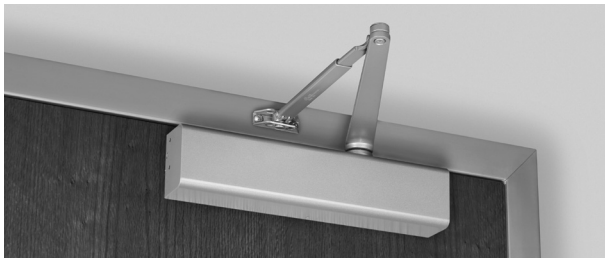
Slide Track

Whether pull or push side mounted, slide track applications provide the designer with the smoothest lines available in a surface mounted door closer. The single lever arm allows components to be located in a stack configuration to minimize projection and eliminate obtrusive arm angles. The arm geometry reduces door closer power efficiency by approximately 25% from that of a regular arm.

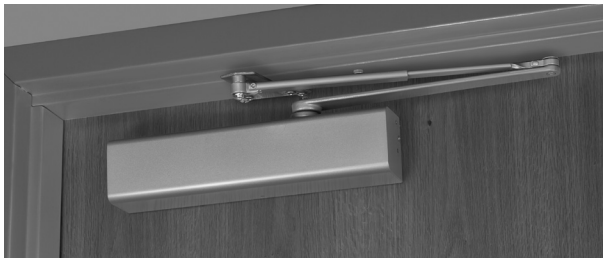
Standard Unit

Adjustable 85° to 110° (hold open and non-hold open). Track is supplied with a spring buffered stop. An auxiliary stop, by others, is recommended.

- Specify if hold open unit is required.
- 180° swing (non-hold open, pull side only) is also available. This track assembly requires that a door stop, by others, be supplied to stop the door.



Regular Arm - allows closer to be installed where there is as little as 1" (25mm) of frame face or ceiling clearance.



Parallel Arm - allows closer to be installed 1/2" (13mm) higher up on door than standard parallel arm application.

Low Profile Arm

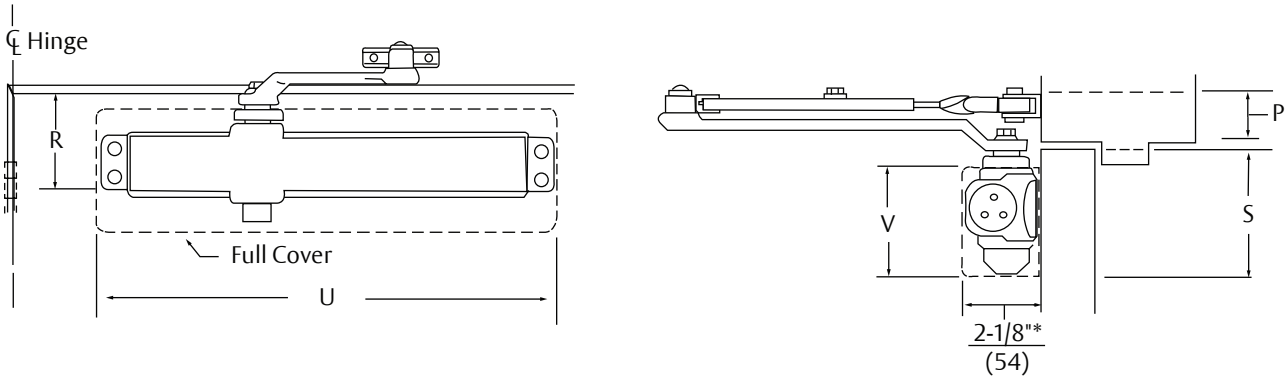
Supplied with 8381/8581 series door closers for non-hold open installations only. Low profile arms have a reduced height elbow joint and a straight main arm. This enables the door closer to be installed in less vertical space.

Note: Low profile arm door closers are not supplied with Tri-Style® packaging.

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REGULAR ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

* Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm).
Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Closer Series	Covers	P Minimum Ceiling Clearance			R Minimum Top Rail				S Minimum Top Rail Clearance		U Closer Length	V Closer Height
					W/O Drop Plate		W/8146 Drop Plate					
		NHO	Low Profile	HO	NHO	Low Profile	NHO	Low Profile	NHO	Low Profile		
8101	No cover	1-1/2" (38)	1" (25)	1-5/8" (41)	2-1/2" (64)	2-3/8" (60)	1-5/8" (41)	1-1/2" (38)	3-1/2" (89)	3-3/8" (86)	12-3/4" (324)	2-7/8" (73)
8301	Slim line plastic										13" (330)	
8501	Full plastic											
8501M	Metal								4-1/4" (108)	4-1/8" (105)	13-5/8" (346)	3-3/4" (95)
8501A	Arch. plastic								3-5/8" (92)	3-1/2" (89)	14" (356)	3-1/8" (79)
8501MA	Arch. metal								3-1/2" (89)	3-3/8" (86)		3" (76)

Model	
Non-Hold Open	Hold Open
8301 8501	8301H 8501H

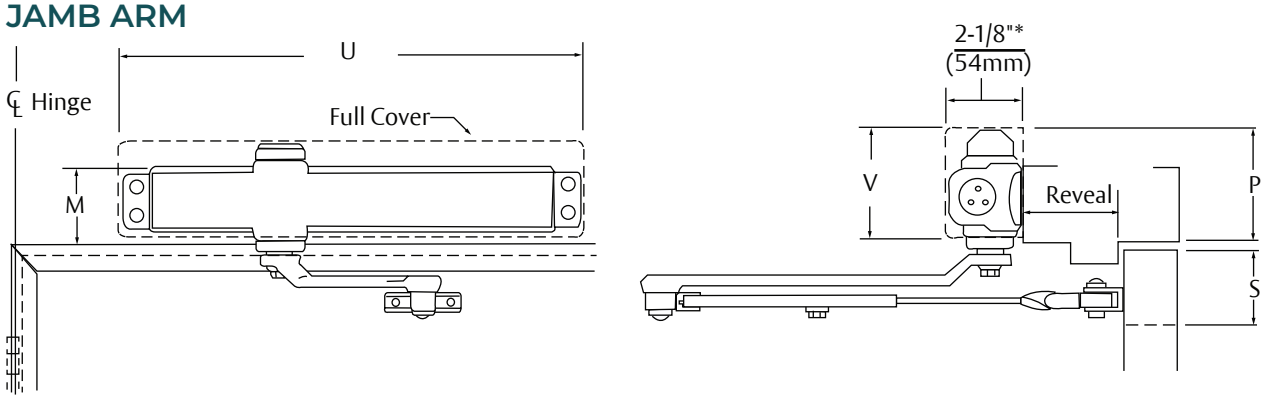
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: 30"-48" (76-122cm)

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TOP JAMB ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

* Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm). Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Closer Series	Covers	M Minimum Frame Face			P Minimum Ceiling Clearance			S Minimum Top Rail Clearance 5/8" (16mm) Frame Stop									U Closer Length	V Closer Height
								W/O Drop Plate			W/8146 Drop Plate			With 8148/8547 Drop Plate				
		W/O Drop Plate	With 8146 Drop Plate	With 8148, 8158, 8547, 8547A Drop Plate	W/O Drop Plate	With 8146 Drop Plate	With 8148, 8158, 8547, 8547A Drop Plate	NHO	Low Profile	HO	NHO	Low Profile	HO	NHO	Low Profile	HO		
8101	No cover	1-3/4" (40)	1-1/8" (29)	1-1/2" (38)	2-3/4" (70)	1-5/8" (41)	1-1/2" (38)	2-1/4" (57)	N/A	2-1/2" (64)	3-3/8" (86)	2-3/4" (70)	3-5/8" (92)	4-3/8" (111)	3-3/4" (95)	4-5/8" (117)	12-3/4" (324)	2-7/8" (73)
8301	Slim line plastic																13" (330)	
8501	Full plastic																	
8501M	Metal		N/A	1-5/8" (41)	3-3/4" (95)	N/A	1-5/8" (41)										13-5/8" (346)	3-3/4" (95)
8501A	Arch. plastic			1-1/2" (38)	3" (76)		1-1/2" (38)										14" (356)	3-1/8" (79)
8501MA	Arch. metal				2-7/8" (73)													3" (76)

Model	
Non-Hold Open	Hold Open
8301 8501	8301H 8501H

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: 30"-48" (76-122cm)
- Reveal range information is based upon 1-3/4" (44) doors hung on 4-1/2" wide hinges

Reveal Information

Model	Reveal Range Inches (mm)	Maximum Door Opening	
		NHO	HO
J8301, J8501	2-3/4" (70) to 4-1/4" (108)	180°	
J8301, J8501	4-1/4" (108) to 7" (178)	150°	
J8301H, J8501H	2-1/8" (54) to 4-1/4" (108)		180°
J8301H, J8501H	4-1/4" (108) to 6-3/4" (171)		150°

Reveal Information (regular arm installed top jamb)

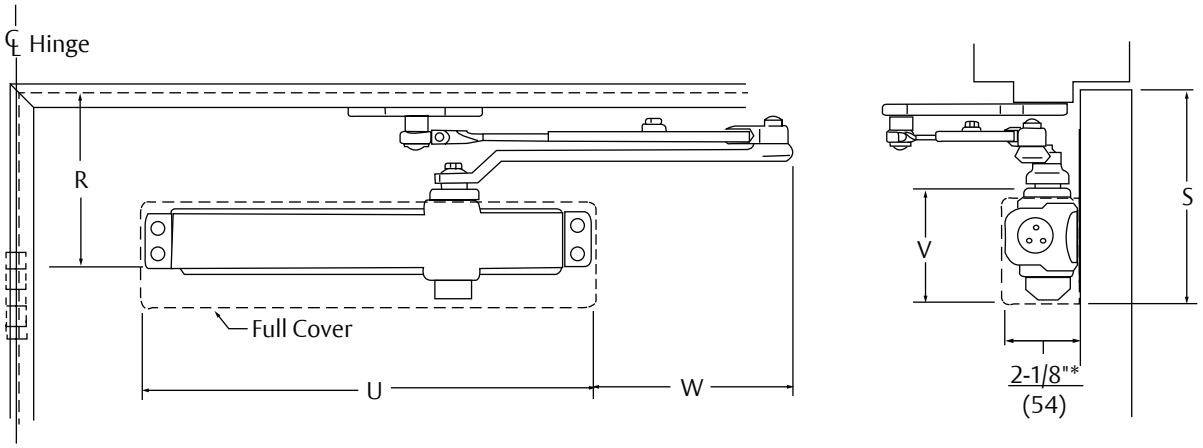
Model	Reveal Range Inches (mm)	Maximum Door Opening	
		NHO	HO
8301, 8501	0 to 2-7/8" (73)	180°	—
8301, 8501 w/Drop Plate^^	0 to 2-3/4" (70)	180°	
8301H, 8501H	0 to 2-3/4" (70)		180°

^^ Drop plate 8146, 8148, 8158, 8547 or 8547A

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8000
ARCHITECTURAL DOOR CLOSER

PARALLEL ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

* Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm).
Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Model	Covers	R Minimum Top Rail Minimum Top Rail 5/8" (16mm) Frame Stop						S Minimum Top Rail Clearance			U Closer Length	V Closer Height	W Arm Extension
		W/O Drop Plate			With 8148, 8158, 8548, 8548A Drop Plate								
		NHO	Low Profile	HO	NHO	Low Profile	HO	NHO	Low Profile	HO			
8101	No cover	5-1/4" (133)	4-5/8" (117)	5-1/4" (133)	3" (76)	2-3/8" (60)	3" (76)	6-1/4" (159)	5-5/8" (143)	6-1/4" (159)	12-3/4" (324)	2-7/8" (73)	8-1/8" (206)
8301	Slim line plastic										13" (330)		8" (203)
8501	Full plastic												
8501M	Metal							6-7/8" (175)	6-1/4" (159)	6-7/8" (175)	13-5/8" (346)	3-3/4" (95)	7-5/8" (194)
8501A	Arch. plastic							6" (152)	5-3/8" (137)	6" (152)	14" (356)	3-1/8" (79)	
8501MA	Arch. metal							5-7/8" (149)	5-1/4" (133)	5-7/8" (149)		3" (76)	

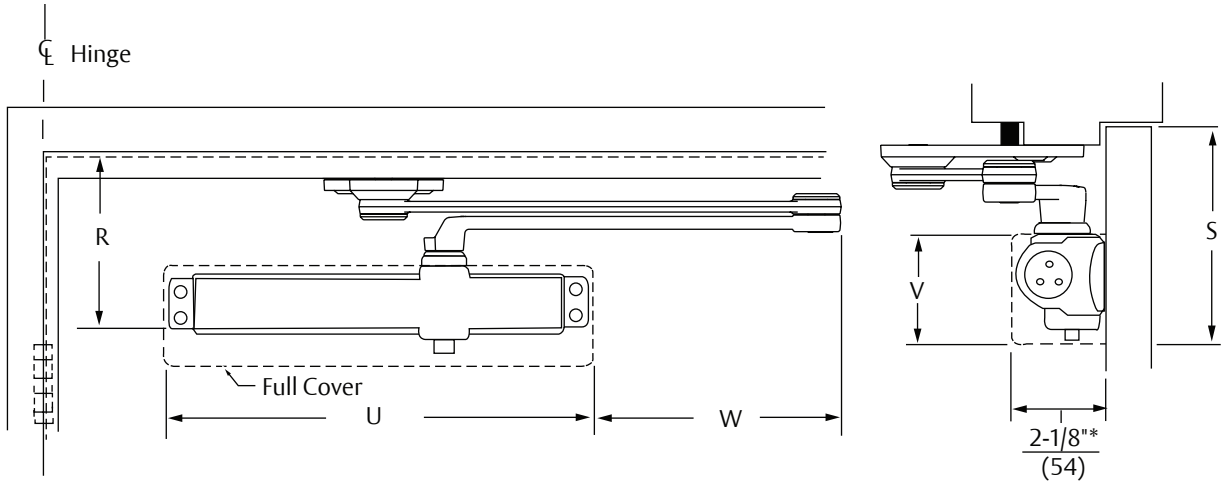
Model	
Non-Hold Open	Hold Open
8301 8501	8301H 8501H

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: 30"-48" (76-122cm)

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PARALLEL RIGID ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

* Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm).
Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Model	Covers	R Minimum Top Rail		S Minimum Top Rail Clearance	U Closer Length	V Closer Height	W Arm Extension
		W/O Drop Plate	With Drop Plate				
8101	No cover	4-5/8" (117)	2-3/8" (60)	5-7/8" (149)	12-3/4" (324)	2-7/8" (73)	8" (203)
8301	Slim line plastic				13" (330)		
8501	Full plastic						
8501M	Metal			6-1/2" (165)	13-5/8" (346)	3-7/8" (98)	7-5/8" (194)
8501A	Arch. plastic			6" (152)	14" (356)	3-1/8" (79)	7-1/2" (191)
8501MA	Arch. metal			5-7/8" (149)		3" (76)	

Model	
Non-Hold Open	Hold Open
PR8301 PR8501	PR8301H PR8501H

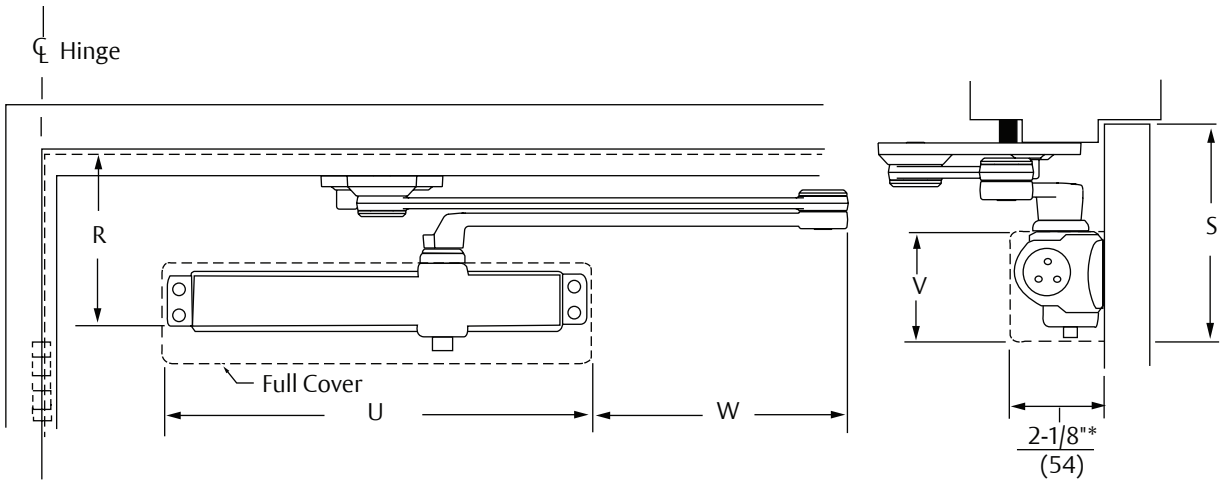
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: 28"-48" (71-122cm)

NORTON RIXSON
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8000
ARCHITECTURAL DOOR CLOSER

CLOSERPLUS® ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

* Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm).
Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Model	Covers	R Minimum Top Rail		S Minimum Top Rail Clearance	U Closer Length	V Closer Height	W Arm Extension
		W/O Drop Plate	With Drop Plate				
8101	No cover	4-5/8" (117)	2-3/8" (60)	5-7/8" (149)	12-3/4" (324)	2-7/8" (73)	8" (203)
8301	Slim line plastic				13" (330)		
8501	Full plastic						
8501M	Metal			6-1/2" (165)	13-5/8" (346)	3-7/8" (98)	7-5/8" (194)
8501A	Arch. plastic			6" (152)	14" (356)	3-1/8" (79)	7-1/2" (191)
8501MA	Arch. metal			5-7/8" (149)		3" (76)	

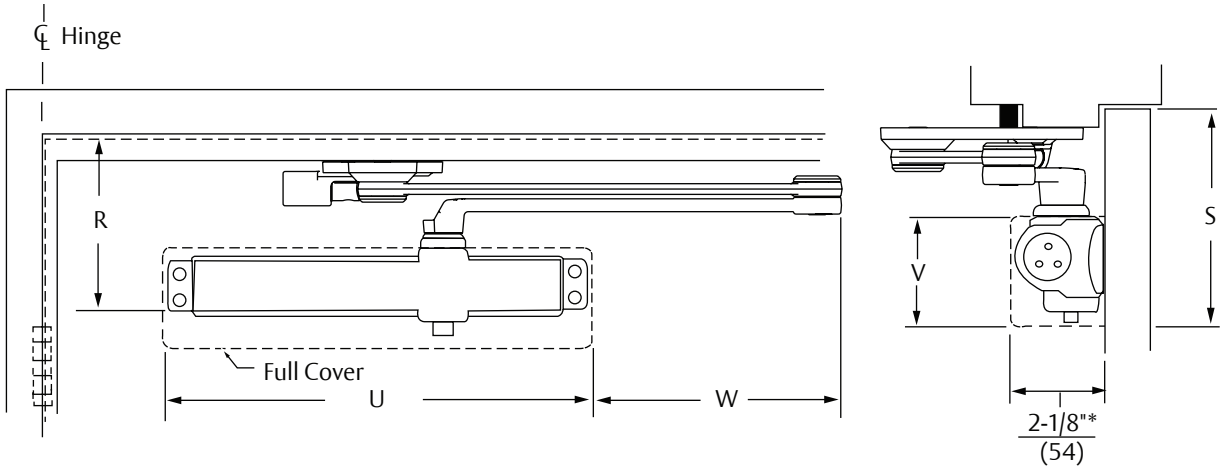
Model		
Non-Hold Open	Thumbturn Hold Open	Ramp Hold Open
CLP8301 CLP8501	CLP8301T CLP8501T	CLP8301R CLP8501R

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: 28"-48" (71-122cm)

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CLOSERPLUS SPRING™ ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

* Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm).
Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Model	Covers	R Minimum Top Rail		S Minimum Top Rail Clearance	U Closer Length	V Closer Height	W Arm Extension
		W/O Drop Plate	With Drop Plate				
8101	No cover	4-5/8" (117)	2-3/8" (60)	5-7/8" (149)	12-3/4" (324)	2-7/8" (73)	8" (203)
8301	Slim line plastic				13" (330)		
8501	Full plastic						
8501M	Metal			6-1/2" (165)	13-5/8" (346)	3-7/8" (98)	7-5/8" (194)
8501A	Arch. plastic			6" (152)	14" (356)	3-1/8" (79)	7-1/2" (191)
8501MA	Arch. metal			5-7/8" (149)		3" (76)	

Model	
Non-Hold Open	Hold Open
CPS8301 CPS8501	CPS8301T CPS8501T

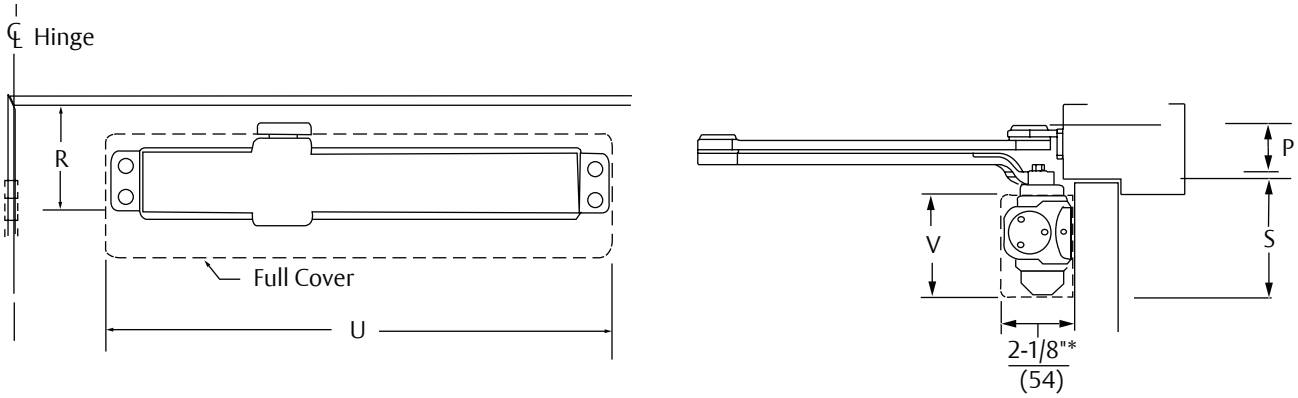
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: 28"-48" (71-122cm)

NORTON RIXSON
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ARCHITECTURAL DOOR CLOSER

REGULAR RIGID HEAVY-DUTY ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

* Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm).
Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Model	Covers	P Minimum Ceiling Clearance	R Minimum Top Rail		S Minimum Top Rail Clearance	U Closer Length	V Closer Height
			W/O Drop Plate	W/8146 Drop Plate			
		NHO	NHO	NHO	NHO		
8101	No cover	1-3/4" (44)	2-1/2" (64)	1-5/8" (41)	3-1/2" (89)"	12-3/4" (324)	2-7/8" (73)
8301	Slim line plastic					13" (330)	
8501	Full plastic						
8501M	Metal				4-1/4" (108)	13-5/8" (346)	3-3/4" (95)
8501A	Arch. plastic				3-5/8 (92)	14" (356)	3-1/8" (79)
8501MA	Arch. metal				3-1/2" (89)		3" (76)

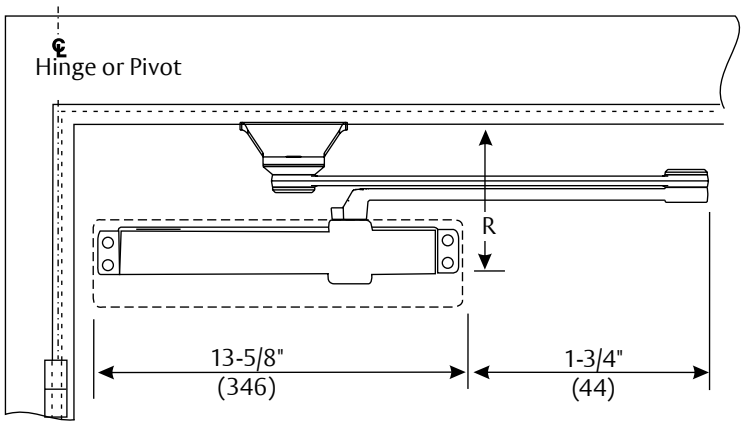
Model
Non-Hold Open Only
R8301 R8501

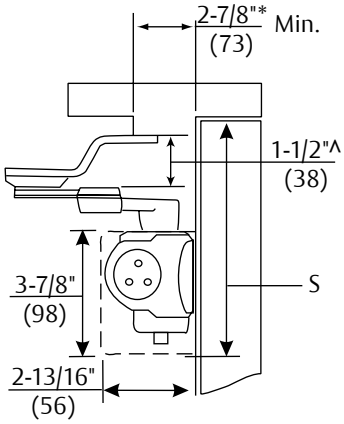
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior – 36"-54" (91-137cm), exterior – 30"-52" (76-132cm)

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PARALLEL RIGID OFFSET ARM





Mounting holes for closer body are spaced 2-3/8" (60mm) vertically x 6-3/4" (171mm) horizontally.
^ If clearance greater than 1-1/2" is needed, 6891 spacer block is required.

* Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm). Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

R (inches/mm) Minimum Top Rail of Door with 5/8" (16mm) Frame Stop		S Minimum Top Rail of Door	
Without 6891 Spacer	With 6891 Spacer	Without 6891 Spacer	With 6891 Spacer
7-1/8" (181)	7-5/8" (194)	7-5/8" (194)	8-1/8" (206)

Model	
Non-Hold Open	Hold Open
PRO8301 PRO8501	PRO8301H PRO8501H

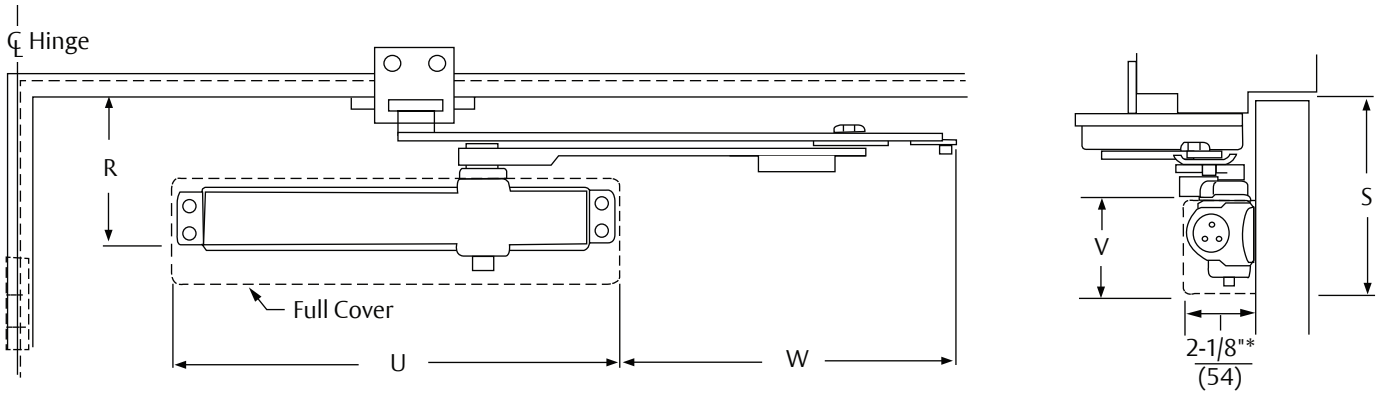
Notes:

- Door closers are set at midpower range from the factory
- Closers with hold open arms are handed. Specify when ordering.
- Measurements are inches/mm unless noted
- Standard door widths: interior 30"-48" (76-122cm), exterior 32-48" (81-122cm)

NORTON RIXSON
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ARCHITECTURAL DOOR CLOSER

PARALLEL UNITROL® ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

*Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm). Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Model	Door Width	Covers	R Minimum Top Rail		S Minimum	U Closer Length	V Closer Height	W Arm Extension
			W/O Drop Plate	With Drop Plate				
8301	28"-32"	Slim line	4-3/4" (121)	2-1/2" (64)	5-3/4" (146)	13" (330)	2-7/8" (73)	8-3/8" (213)
	33"-41"							9-7/8" (251)
	42"-48"							11-1/4" (286)
8501	33"-41"^	Full plastic						9-7/8" (251)
8501M		Metal			6-3/8" (162)	13-5/8" (346)	3-7/8 (98)	9-1/2" (241)
8501A		Arch. plastic			5-1/2" (140)	14" (356)	3-1/8" (79)	9-3/8" (238)
8501MA		Arch. metal			5-3/8" (137)		3" (76)	9" (229)

^ Consult installation instructions for additional door width dimensions.

Model		
Non-Hold Open	Hold Open	Specify frame reveal
UNI8301 UNI8501	UNI8301H UNI8501H	

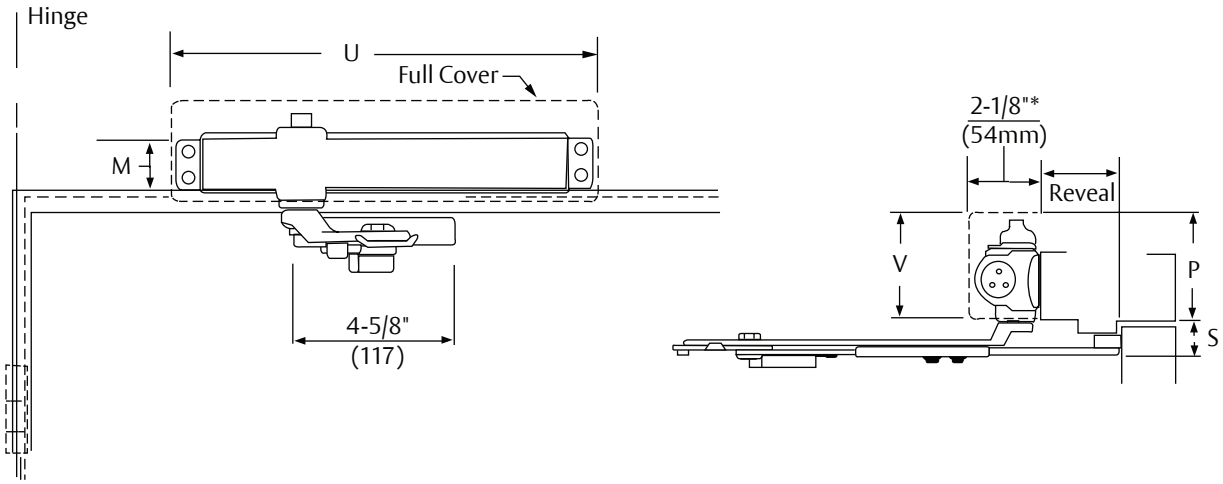
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: 28"-48" (71-122cm)

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8000
ARCHITECTURAL DOOR CLOSER

TOP JAMB UNITROL® ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

* Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm). Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Model	Covers	R Minimum Top Rail		P Minimum Ceiling Clearance		S Minimum Top Rail Clearance		U Closer Length	V Closer Height
		W/O Drop Plate	With 8148, 8158, 8547, 8547A Drop Plate	W/O Drop Plate	With Drop Plate	W/O Drop Plate	With 8148, 8158, 8547, 8547A Drop Plate		
8301	Slim line	1-3/4" (44)	1-1/2" (38)	2-3/4" (70)	1-1/2" (38)	1-7/8" (48)	3-3/4" (95)	13" (330)	2-7/8" (73)
8501	Full plastic								
8501M	Metal		1-5/8" (41)	3-3/4" (95)	1-5/8" (41)			13-5/8" (346)	3-7/8" (98)
8501A	Arch. plastic		1-1/2" (38)	3" (76)	1-1/2" (38)			14" (356)	3-1/8" (79)
8501MA	Arch. metal			2-7/8" (73)					

Model		
Non-Hold Open	Hold Open	Specify frame reveal
UNIJ8301 UNIJ8501	UNIJ8301H UNIJ8501H	

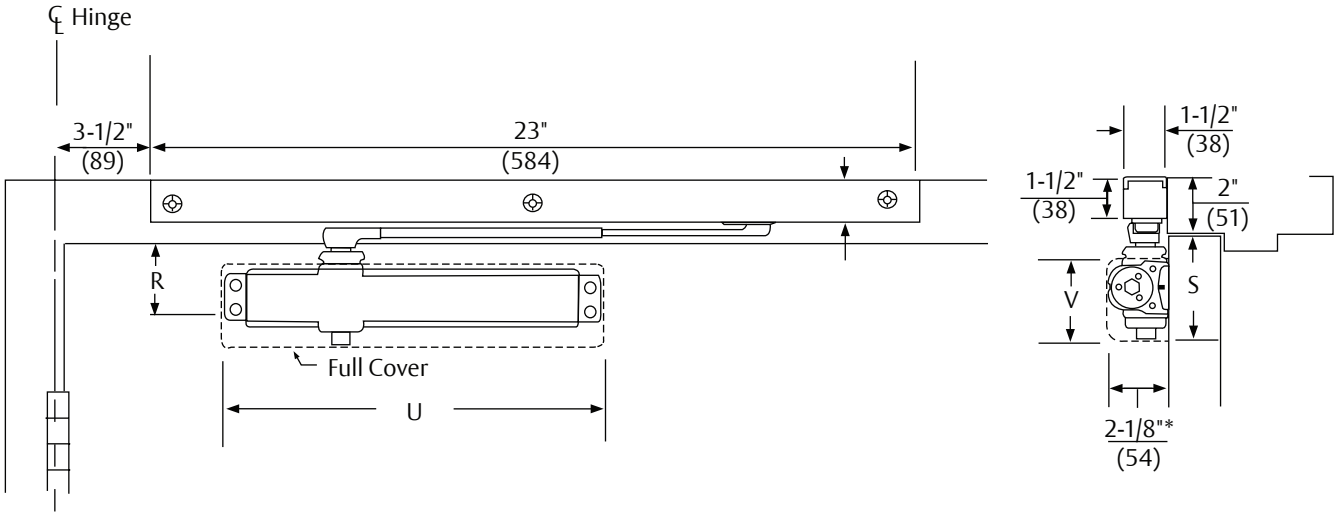
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: 28"-48" (71-122cm)

NORTON RIXSON
ASSA ABLOY

8000
ARCHITECTURAL DOOR CLOSER

PULL SIDE SLIDE TRACK



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

* Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm).
Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Model	R Minimum Top Rail		S Minimum Top Rail Clearance				U Closer Length				V Closer Height			
	w/o Drop Plate	with Drop Plate	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal
8301ST	2-1/2" (64)	1-5/8" (41)	3-1/2" (89)	4-1/8" (105)	3-5/8" (92)	3-1/2" (89)	13" (330)	13-5/8" (346)	14" (356)		2-7/8" (73)	3-3/4" (95)	3-1/8" (79)	3" (76)
8501ST														

Model		
Non-Hold Open		Hold Open
85°-110°++	85°-180°~~	85°-110°~~
8301ST 8501ST	8301ST-180 8501ST-180	8301STH 8501STH

++ Track is furnished with a spring buffered stop. Additional stop, by others, is recommended where abusive conditions are anticipated.

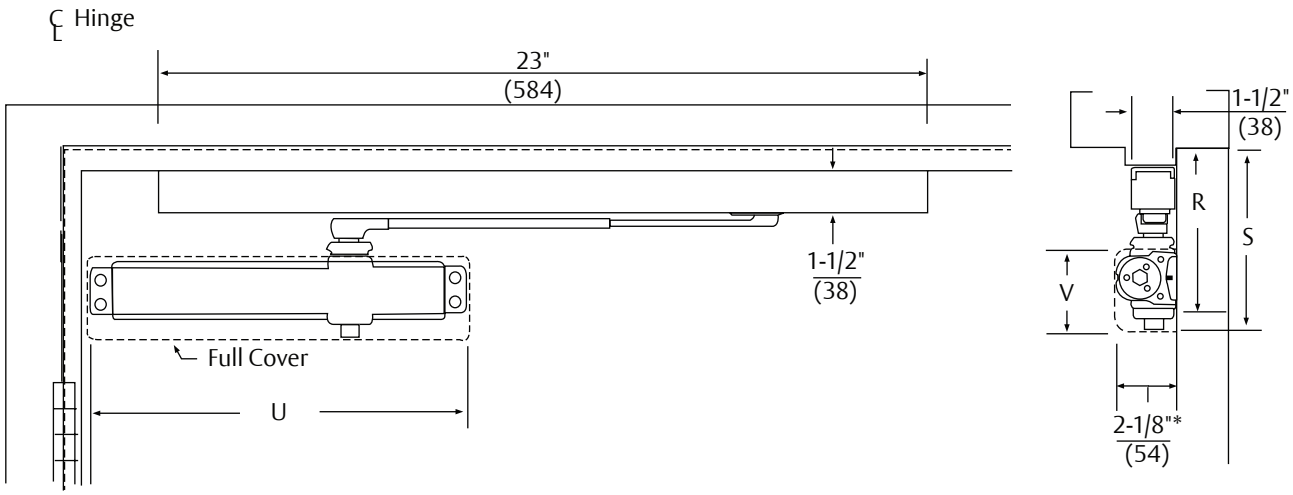
~~ Track is supplied without the spring buffered assembly. An auxiliary door stop, by others, is required.

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-48" (81-122cm), exterior 32"-38" (81-97cm)

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PUSH SIDE SLIDE TRACK



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

* Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm).
Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Model	R Minimum Top Rail	S Minimum Top Rail Clearance				U Closer Length				V Closer Height			
	w/o Drop Plate	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal
PS8301ST	5" (127)	6" (152)	6-5/8" (168)	6-1/8" (156)	6" (152)	13" (330)	13-5/8" (346)	14" (356)		2-7/8" (73)	3-3/4" (95)	3-1/8" (79)	3" (76)
PS8501ST													

Model	
Non-Hold Open	Hold Open
85°-110°	
PS8301ST PS8501ST	PS8301STH PS8501STH

Optional	
Drop Plates	Used with
8148	PS8301ST
8158	PS8501ST
8548	PS8501STM
8548A	PS8501STMA

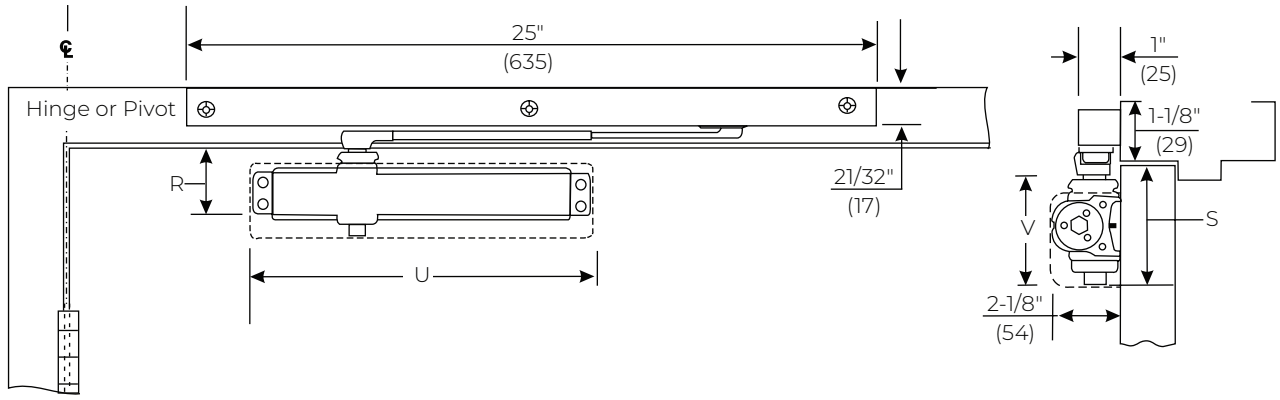
Notes:

- Door closers are set at midpower range from the factory
- All track assemblies are supplied with a spring buffered stop
- A separate door stop, by others, is recommended where abusive conditions are anticipated
- Measurements are inches/mm unless noted
- Standard door widths: interior 32"-48" (81-122cm), exterior 32"-38" (81-97cm)

NORTON RIXSON
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8000
ARCHITECTURAL DOOR CLOSER

LOW PROFILE PULL SIDE SLIDE TRACK



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 12" (305mm) horizontally.

*Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm).
Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Model	R Minimum Top Rail		S Minimum Top Rail Clearance				U Closer Length				V Closer Height			
	w/o Drop Plate	with 8146 Drop Plate	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal
8341ST	2-1/2" (64)	5/8" (16)	3" (76)	4-5/8" (117)	3-1/8" (79)	3" (76)	13" (330)	13-5/8" (346)	14" (356)		3" (76)	3-7/8" (98)	3-1/4" (83)	3-1/8" (79)
8541ST														

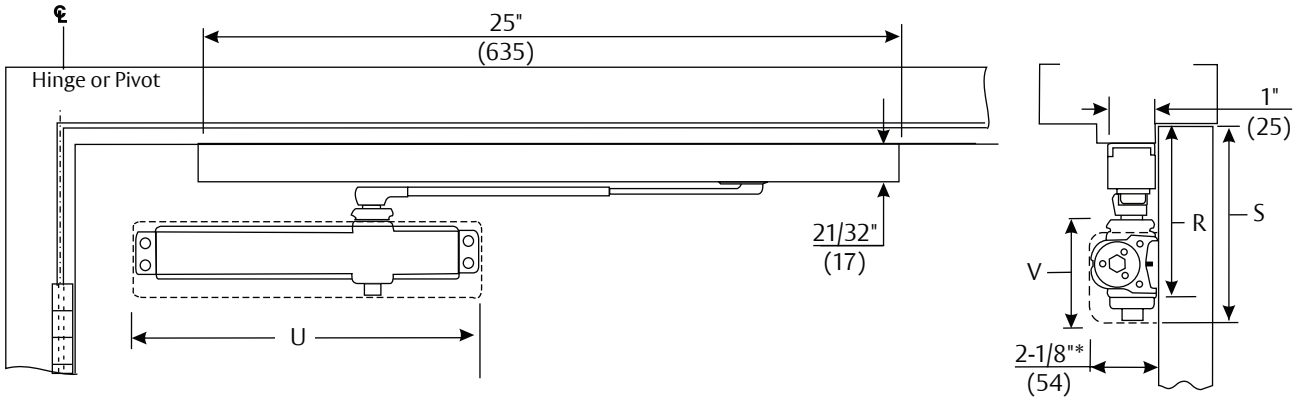
Model	
Non-Hold Open	Hold Open
8341ST 8541ST	8341STH 8541STH

Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: **interior only** 32"-48" (81-122cm)

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LOW PROFILE PUSH SIDE SLIDE TRACK



Mounting holes for closer body are spaced 3/4" (19mm) vertically x12" (305mm) horizontally.

*Projection is for slim line or full covers. Projection for metal covers = 2-3/16" (56mm).
Projection for architectural plastic & architectural metal covers = 2-1/4" (57mm).

Model	R Minimum Top Rail		S Minimum Top Rail Clearance				U Closer Length				V Closer Height			
	w/o Drop Plate	with 8146, 8158, 8548, 8548A Drop Plate	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal	Slim or Full Cover	Metal Cover	Arch Plastic	Arch Metal
PS8341ST	4" (102)	1-3/4" (44)	5" (127)	5-5/8" (143)	5-1/8" (130)	5" (127)	13" (330)	13-5/8" (346)	14" (356)		3" (76)	3-7/8" (98)	3-1/4" (83)	3-1/8" (79)
PS8541ST														

Model	
Non-Hold Open	Hold Open
PS8341ST PS8541ST	PS8341STH PS8541STH

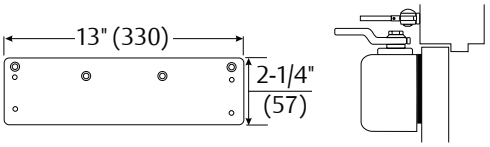
Notes:

- Door closers are set at midpower range from the factory
- Measurements are inches/mm unless noted
- Standard door widths: **interior only** 32"-48" (81-122cm)

NORTON RIXSON
ASSA ABLOY

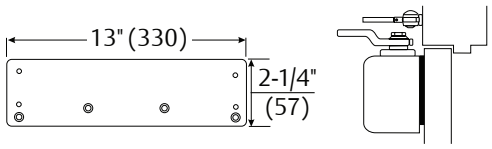
REGULAR ARM

Closer Mounting Plate
Slim Line Installations



Narrow Top Rail - 8146 Drop Plate:

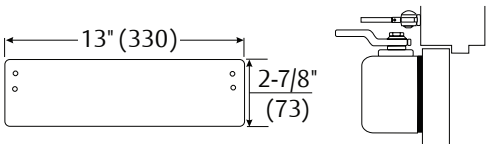
For use where the narrow top rail of the door prevents the closer from being mounted directly on to the door surface. This drop plate must be used for any Series 8000 closer mounted on a top rail between 1-9/16" and 2-7/16" (40 and 62mm) in height, or any Series 8080 closer mounted on a top rail between 1-7/16" and 2-5/16" (36 and 59mm) in height.



Concealed Door Holder - 8146 Drop Plate:

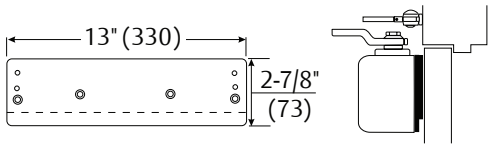
For use where a concealed door holder prevents normal mounting of the closer to the door. This is the same plate used for narrow rail mounting, but is inverted for this application to permit the mounting screws to clear the bottom of the door-holder preparation in the top rail of the door. This places the centerline of the plate's upper mounting screws at 2-3/16" (56mm) from the top of the door.

Full Cover Installations



Exposed Back - 8445 Molded Full Cover Decorative Back Plate:

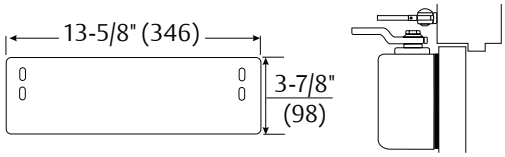
For use on doors with glass lights where a closer with a molded full cover is installed and the closer back is exposed. This plate covers the back of the installation to give a pleasing appearance from the reverse side.



Exposed Back/Narrow Top Rail - Exposed Back Concealed Door Holder - 8446 Molded Full Cover Drop Plate Kit:

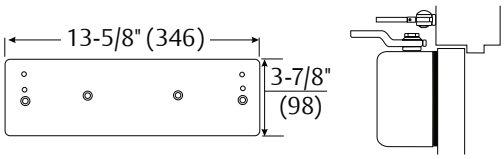
For use with molded full cover installation when an 8146 plate is needed as a drop plate on a narrow top rail, or as a clearance plate for a concealed door holder, and the closer back is exposed. Kit contains an 8146 drop plate and an 8445 decorative plate.

Metal Cover Installations



Exposed Back - 8545 Metal Cover Decorative Back Plate:

For use on doors with glass lights where a closer with a metal full cover is installed and the closer back is exposed. This plate covers the back of the installation to give a pleasing appearance from the reverse side.

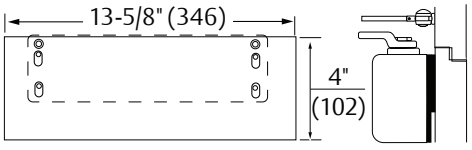


Concealed Door Holder - 8546 Metal Cover Drop Plate:

For use where a concealed door holder prevents the normal mounting of the closer to the door. This plate permits the mounting screws to clear the bottom of the door-holder preparation in the top rail of the door. This places the centerline of the plate's upper mounting screws at 2-3/16" (56mm) from the top of the door.

Exposed Back/Narrow Top Rail - 8549 Metal Cover Drop Plate Kit:

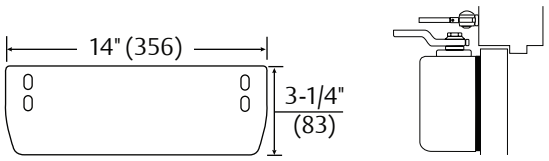
For use with metal full cover installations, when an 8146 plate is needed as a drop plate on a narrow top rail and the closer back is exposed. Kit contains an 8146 drop plate and an 8545 decorative plate.



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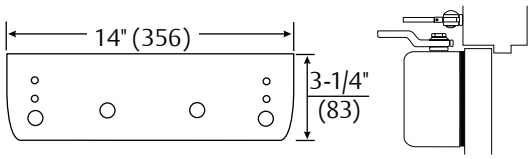
REGULAR ARM

Closer Mounting Plate
Architectural Plastic or Metal Cover Installations



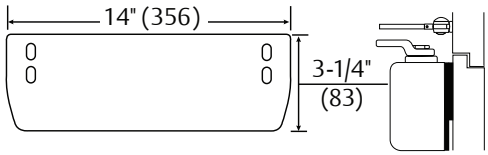
Exposed Back - 8545A Architectural Plastic or Architectural Metal Cover Decorative Back Plate:

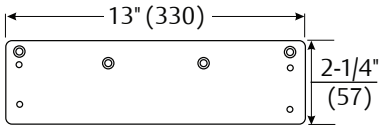
For use on doors with glass lights where a closer with an architectural plastic or metal cover is installed and the closer back is exposed. This plate covers the back of the installation to give a pleasing appearance from the reverse side.



Concealed Door Holder - 8546A Architectural Plastic or Architectural Metal Cover Drop Plate:

For use where a concealed door holder prevents the normal mounting of the closer to the door. This plate permits the mounting screws to clear the bottom of door-holder preparation in the top rail of the door. This places the centerline of the plate's upper mounting screws at 2-3/16" (56mm) from the top of the door.





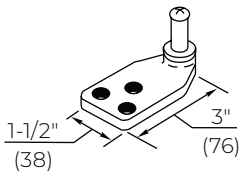
Exposed Back/Narrow Top Rail - 8549A Architectural Plastic or Architectural Metal Cover Drop Plate Kit:

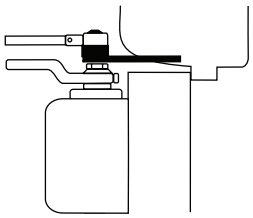
For use with architectural plastic or metal cover installations when an 8146 plate is needed as a drop plate on a narrow top rail and the closer back is exposed. Kit contains an 8146 drop plate and an 8545A decorative plate.

NORTON RIXSON
ASSA ABLOY

REGULAR ARM

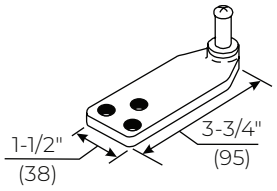
Brackets for Non-Hold Open Arms

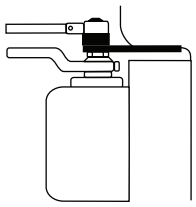




Molded/Bull Nose Trim - 2403B Bracket:

For use where the door frame has molded or bull nose trim which will not accept a standard non-hold open shoe. The bracket is mortised into the frame rabbet, and projects beyond the face of the frame. It will accommodate a frame rabbet up to 2" (51mm) deep.



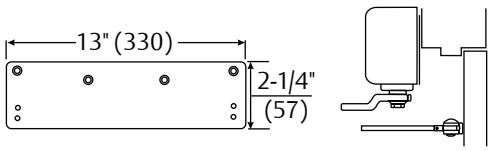


Molded / Bull Nose Trim - 2403-3/4 Bracket:

This bracket is similar to, but longer than, the 2403B bracket. It is designed to accommodate frame rabbets from 2" to 2-7/8" (51 to 73mm) deep.

TOP JAMB ARM

Closer Mounting Plates
Slim Line Installations



Low Ceiling Clearance - 8146 Drop Plate:

For use where low ceiling clearance prevents normal top jamb mounting. This plate is used when clearance is from 1-7/8" to 2-7/8" (48 to 73mm). Where ceiling clearance is less than 1-7/8" (48mm) see 8148 drop plate on page 106.

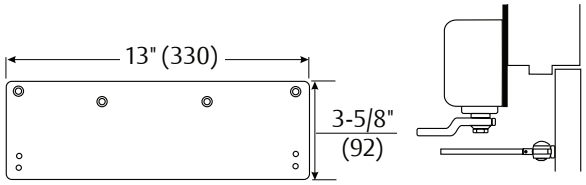
Overhead Door Holder - 8146 Drop Plate:

For use where a surface or concealed overhead door holder prevents normal top jamb mounting. This plate drops the closer and allows arm mounting screws to clear the bottom of the door holder. This places the centerline of the arm mounting screws at 2-7/8" (73mm) from the top of the door.

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TOP JAMB ARM

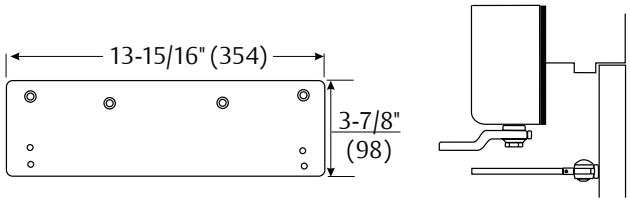
Closer Mounting Plates
Slim Line Installations



Low Ceiling Clearance - 8148 Drop Plate:

For use where the ceiling clearance is between 1-1/2" and 1-3/4" (38 and 44mm).

Metal Cover Installations

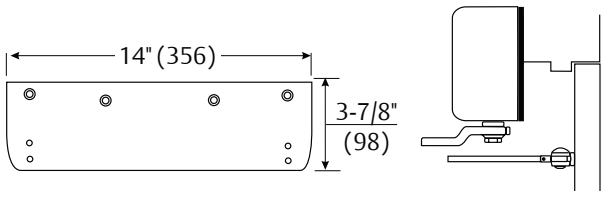


Low Ceiling Clearance - Overhead Door Holder - 8547 Metal Full Cover Drop Plate:

For use where a low ceiling clearance prevents normal top jamb mounting. This plate is used when the clearance is between 1-5/8" and 3-7/8" (41 and 98mm). Or for use where a surface or concealed overhead door holder prevents normal top jamb mounting of a closer with a metal full cover.

This plate drops the closer and allows arm mounting screws to clear the bottom of the door holder. This places the centerline of the arm mounting screws at 3-7/8" (98mm) from the top of the door.

Architectural Plastic or Metal Cover Installations



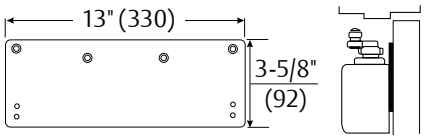
Low Ceiling Clearance - Overhead Door Holder - 8547A Architectural Plastic or Architectural Metal Cover Drop Plate:

For use where low ceiling clearance prevents normal top jamb mounting. This plate is used when the clearance is between 1-5/8" and 3-7/8" (41 and 98mm). Also for use where a surface or concealed overhead door holder prevents normal top jamb mounting of a closer with an architectural plastic or metal full cover. This plate drops the closer and allows arm mounting screws to clear the bottom of the door holder. This places the centerline of the arm mounting screws at 3-7/8" (98mm) from the top of the door.

NORTON RIXSON
ASSA ABLOY

PARALLEL ARM

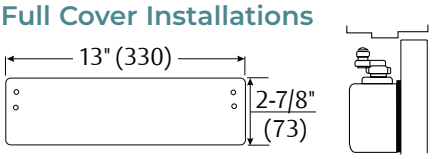
Closer Mounting Plates
Slim Line Installations



Narrow Top Rail - 8148 Drop Plate:

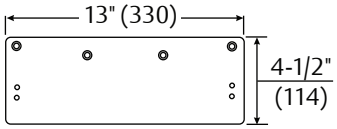
For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-7/8" (73mm) in height.

Full Cover Installations



Exposed Back - 8445 Molded Full Cover Decorative Back Plate:

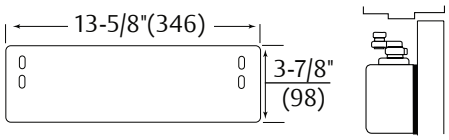
For use on doors with glass lights where a closer with molded full cover is installed and the closer back is exposed. This plate covers the back of the installation to give a pleasing appearance from the reverse side.



Exposed Back/Narrow Top Rail - 8158 Molded Full Cover Drop Plate:

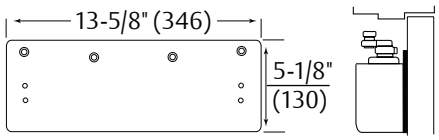
For use on doors with glass lights where a closer with molded full cover is installed and the back of the closer is exposed. This covers the back of the installation and gives a pleasing appearance from the reverse side.

Metal Cover Installations



Exposed Back - 8545 Metal Full Cover Decorative Back Plate:

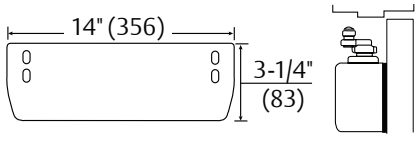
For use on doors with glass lights where a closer with full metal cover is installed and the back of the closer is exposed. This plate covers the back of the installation and gives a pleasing appearance from the reverse side.



Exposed Back/Narrow Top Rail - 8548 Metal Full Cover Drop Plate:

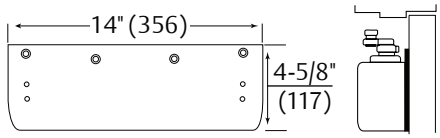
For use on doors with glass lights where a closer with metal full cover is installed on a narrow top rail, and the back of the cover is exposed. This drop plate can be used to mount a closer on a top rail as narrow as 2-7/8" (73mm) in height. This plate covers the back of the installation and gives a pleasing appearance from the reverse side.

Architectural Plastic or Metal Cover Installations



Exposed Back - 8545A Architectural Plastic or Architectural Metal Cover Decorative Back Plate:

For use on doors with glass lights where a closer with an architectural plastic or metal cover is installed and the closer back is exposed. This plate covers the back of the installation to give a pleasing appearance from the reverse side.



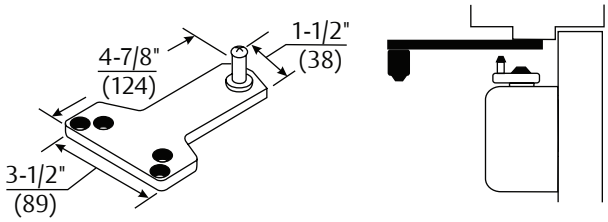
Exposed Back/Narrow Top Rail - 8548A Architectural Plastic or Architectural Metal Cover Drop Plate:

For use on doors with glass lights where a closer with an architectural plastic or metal cover is installed on a narrow top rail, and the back of the cover is exposed. This drop plate can be used to mount a closer on a top rail as narrow as 2-7/8" (73mm) in height. This plate covers the back of the installation to give a pleasing appearance from the reverse side.

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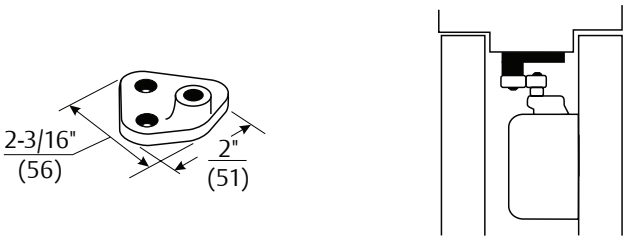
PARALLEL ARM

Brackets for Non-Hold Open Arms



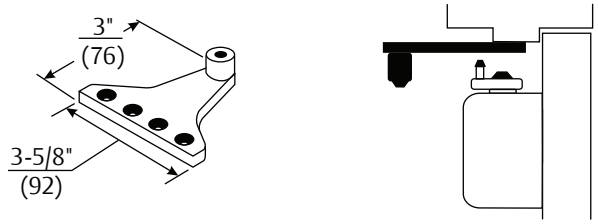
Standard Installation - 1618A Soffit Plate:

This soffit plate is supplied standard with parallel arm closers. It can be mounted where the frame soffit is as narrow as 1" (25 mm).



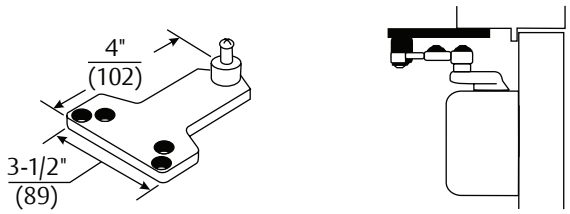
Mounting between Doors - 2018 Soffit Bracket:

For use where insufficient space between companion doors does not permit use of other soffit plates. This bracket permits mounting of the closer between doors with as little as 3" (76mm) of header space. Permits closer arm to clear up to 5/8" (16mm) high stop.



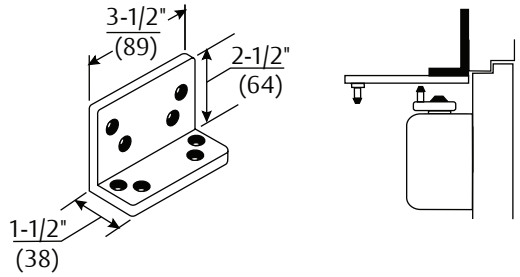
Narrow Frame/Removable Stop - 2018B Soffit Plate:

For use where a narrow frame or frame with removable stop does not permit use of the standard soffit plate. This soffit plate may be mounted on the frame soffit or the frame rabbet where the stop does not exceed 5/8" (16mm) in height. All of the screw holes are in a straight line, requiring as little as 1-1/4" (32mm) of frame reveal to mount bracket and maintain good closer arm geometry. Where the frame soffit is as wide as 2" (51mm), this soffit plate may be used to clear weather-stripping that is up to 1-3/8" (35mm) wide and 5/8" (16mm) in height.



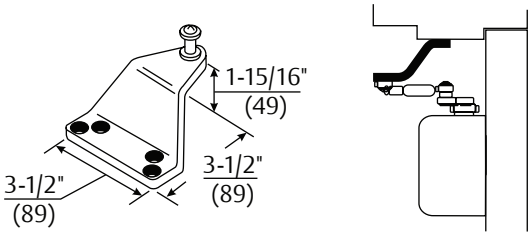
Blade/Applied Stop - 2018D Soffit Plate:

For use where a blade or applied stop does not permit installation of the standard soffit plate. Mounts to either the frame soffit or rabbet. Since this soffit plate projects 7/8" (22mm) less than a standard soffit plate, it requires a minimum frame reveal of 1-1/2" (38mm). Permits closer to clear up to a 5/8" (16mm) stop.



Flush Transom - 2022 Angle Bracket:

For use where rabbeted or flush transom conditions prevent installation of a soffit plate. Used in combination with the 1618 soffit plate, or may be used in combination with the 2018S soffit plate when it is necessary for the closer arm to clear a separate overhead door holder.

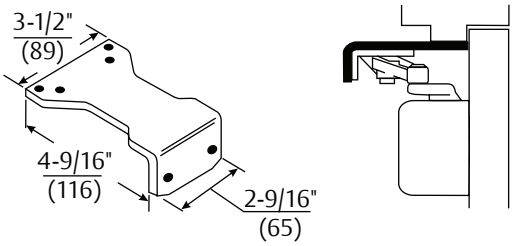


Extra-Clearance - 2018S Offset Soffit Plate:

For use where the need for additional clearance prevents use of the standard soffit plate. This plate mounts to the frame soffit to provide up to 2" (51mm) of clearance when a separate overhead door holder is used. Standard mounting requires a 2-5/8" (67mm) wide frame soffit. It may also be used where unusually high frame stops or weatherstripping prevent the use of other soffit plates.

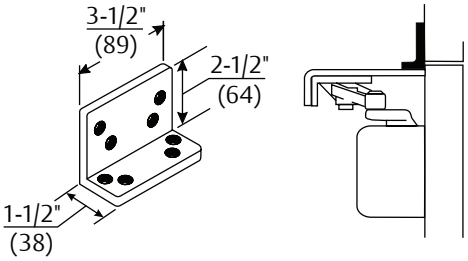
PARALLEL ARM

Brackets for Non-Hold Open & Hold Open Arms



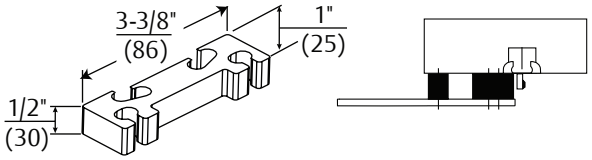
Parallel Hold Open - 1628H Adapter Plate:

Supplied standard with all parallel arm hold open closers. It can also be used to convert regular arm or top jamb hold open arms to parallel arm installation. It can be mounted where the frame soffit is as narrow as 1" (25mm).



Flush Transom - 2022 Angle Bracket:

For use where rabbeted or flush transom conditions prevent installation of a soffit plate. Used in combination with the 1628H adapter plate, this bracket fastens to the overhead transom to provide a mounting surface for the soffit plate assembly.

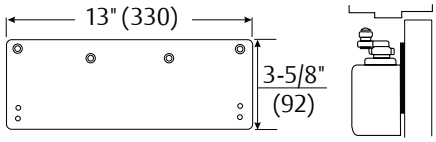


Clearance/Support Blade Stop - 6891 Spacer Block:

For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance of the blade stop. Also used with non-hold open arms.

PARALLEL RIGID, CLOSERPLUS & CLOSERPLUS SPRING ARMS

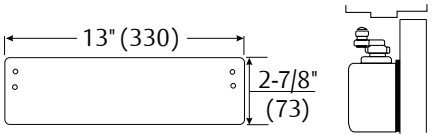
Closer Mounting Plate
Slim Line Installations



Narrow Top Rail - 8148 Drop Plate:

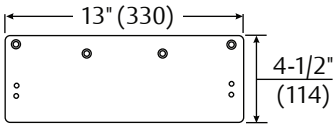
For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-9/16" (65mm) in height.

Full Cover Installations



Exposed Back - 8445 Molded Full Cover Decorative Back Plate:

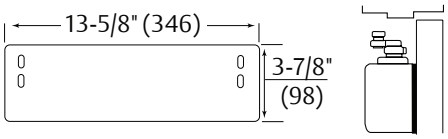
For use on doors with glass lights where a closer with molded full cover is installed and the closer back is exposed. This plate covers the back of the installation to give a pleasing appearance from the reverse side.



Exposed Back/Narrow Top Rail - 8158 Molded Full Cover Drop Plate:

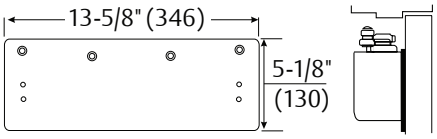
For use on doors with glass lights where a closer with molded full cover is installed and the back of the closer is exposed. This covers the back of the installation and gives a pleasing appearance from the reverse side.

Metal Cover Installations



Exposed Back - 8545 Metal Full Cover Decorative Back Plate:

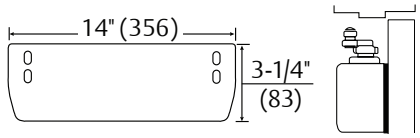
For use on doors with glass lights where a closer with full metal cover is installed and the back of the closer is exposed. This plate covers the back of the installation and gives a pleasing appearance from the reverse side.



Exposed Back/Narrow Top Rail - 8548 Metal Full Cover Drop Plate:

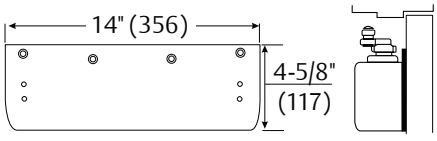
For use on doors with glass lights where a closer with metal full cover is installed on a narrow top rail, and the back of the cover is exposed. This drop plate can be used to mount a closer on a top rail as narrow as 2-9/16" (65mm) in height. This plate covers the back of the installation and gives a pleasing appearance from the reverse side.

Architectural Plastic or Metal Cover Installations



Exposed Back - 8545A Architectural Plastic or Architectural Metal Cover Decorative Back Plate:

For use on doors with glass lights where a closer with an architectural plastic or metal cover is installed and the closer back is exposed. This plate covers the back of the installation to give a pleasing appearance from the reverse side.

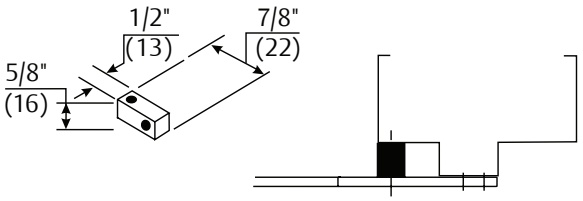


Exposed Back/Narrow Top Rail - 8548A Architectural Plastic or Architectural Plastic or Architectural Metal Cover Drop Plate:

For use on doors with glass lights where a closer with an architectural plastic or metal cover is installed on a narrow top rail, and the back of the cover is exposed. This drop plate can be used to mount a closer on a top rail as narrow as 2-9/16" (65mm) in height. This plate covers the back of the installation to give a pleasing appearance from the reverse side.

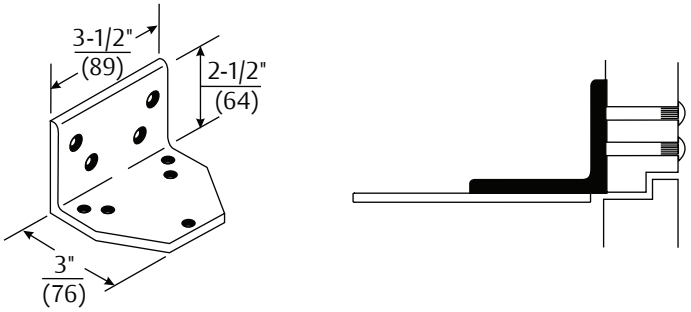
PARALLEL RIGID, CLOSERPLUS & CLOSERPLUS SPRING ARMS

Brackets for Non-Hold Open Arms & Hold Open Arms



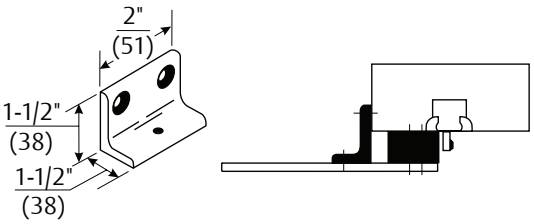
Standard - 2019S Spacer Block:

For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all Parallel Rigid arm closers.



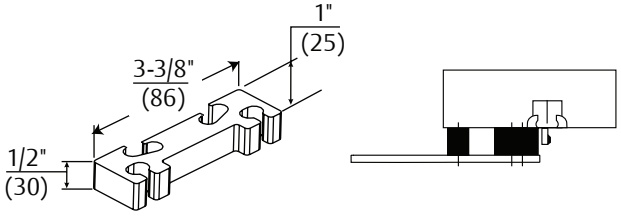
Flush Rabbeted Transom - 2019L Angle Bracket:

For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the standard soffit plate.



Narrow Frame - 6890 Support Bracket:

For use where the frame is narrow and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the 6891 Spacer Block on blade stop frames to provide extra support and needed clearance of the blade stop. Used on frames where the frame stop does not exceed 5/8" (16mm) in height.



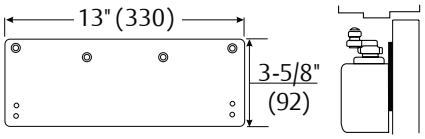
Clearance/Support Blade Stop - 6891 Spacer Block:

For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance of the blade stop.

UNITROL® ARM

Closer Mounting Plate

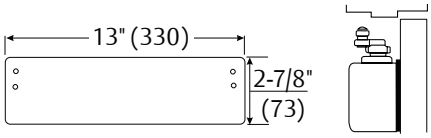
Parallel Arm



Narrow Top Rail - 8148 Drop Plate:

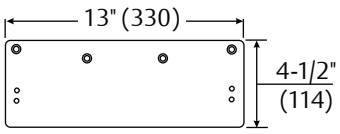
For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-7/16" (62mm) in height.

Full Cover Installations



Exposed Back - 8445 Molded Full Cover Decorative Back Plate:

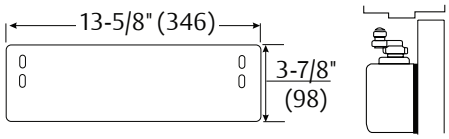
For use on doors with glass lights where a closer with molded full cover is installed and the closer back is exposed. This plate covers the back of the installation to give a pleasing appearance from the reverse side.



Exposed Back/Narrow Top Rail - 8158 Molded Full Cover Drop Plate:

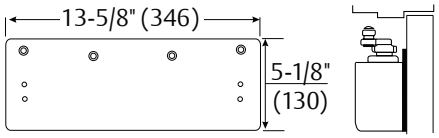
For use on doors with glass lights where a closer with molded full cover is installed and the back of the closer is exposed. This covers the back of the installation and gives a pleasing appearance from the reverse side.

Metal Cover Installations



Exposed Back - 8545 Metal Full Cover Decorative Back Plate:

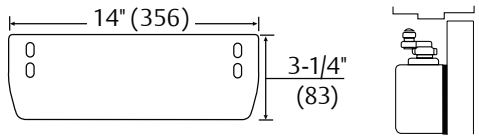
For use on doors with glass lights where a closer with full metal cover is installed and the back of the closer is exposed. This plate covers the back of the installation and gives a pleasing appearance from the reverse side.



Exposed Back/Narrow Top Rail - 8548 Metal Full Cover Drop Plate:

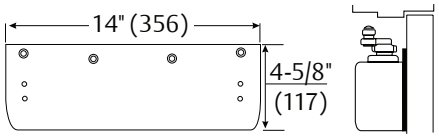
For use on doors with glass lights where a closer with metal full cover is installed on a narrow top rail, and the back of the cover is exposed. This drop plate can be used to mount a closer on a top rail as narrow as 2-9/16" (65mm) in height. This plate covers the back of the installation and gives a pleasing appearance from the reverse side.

Architectural Plastic or Metal Cover Installations



Exposed Back - 8545A Architectural Plastic or Architectural Metal Cover Decorative Back Plate:

For use on doors with glass lights where a closer with an architectural plastic or metal cover is installed and the closer back is exposed. This plate covers the back of the installation to give a pleasing appearance from the reverse side.

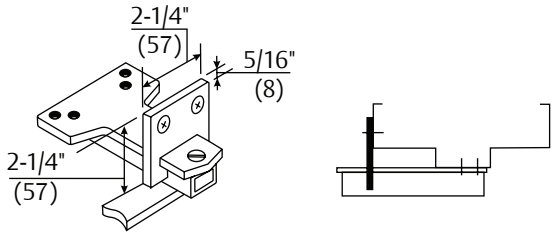


Exposed Back/Narrow Top Rail - 8548A Architectural Plastic or Architectural Plastic or Architectural Metal Cover Drop Plate:

For use on doors with glass lights where a closer with an architectural plastic or metal cover is installed on a narrow top rail, and the back of the cover is exposed. This drop plate can be used to mount a closer on a top rail as narrow as 2-7/16" (62mm) in height. This plate covers the back of the installation to give a pleasing appearance from the reverse side.

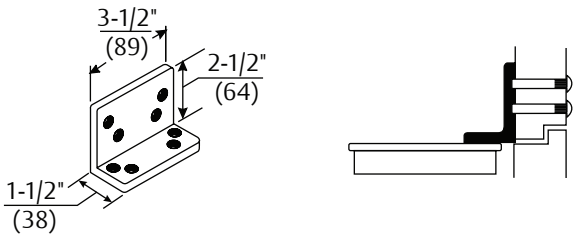
UNITROL® ARM

Soffit Plate Reinforcing Brackets (for Parallel Arm)



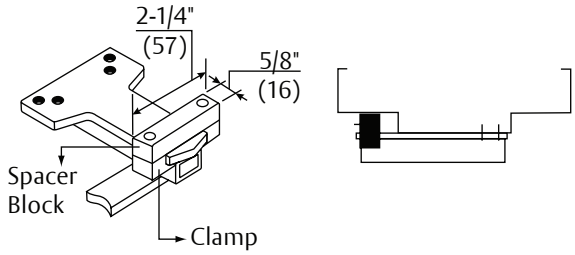
Additional Support - 6190 Reinforcing Bracket:

Standard for use with all Unitrol parallel arms. Provides additional support to the soffit plate on installations with door frame reveals from 1-7/8" to 4-5/8" (48 to 117mm).



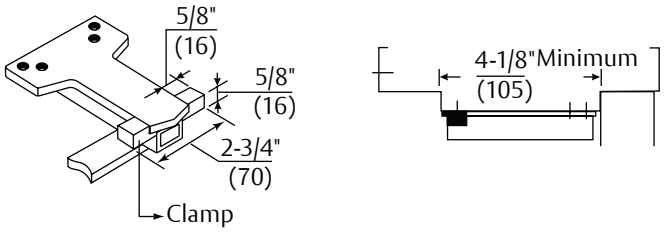
Flush Rabbeted Transom - 2022 Angle Bracket:

Optional for use with all Unitrol parallel arms. For use where rabbeted or flush transom conditions prevent installation of the soffit plate assembly. This bracket fastens to the overhead transom to provide a mounting surface for the soffit plate assembly.



Wide Frame - 6191 Reinforcing Kit:

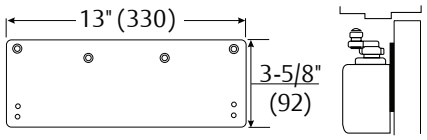
Optional for use with all Unitrol parallel arms. Used to support the soffit plate on installations with wide frames. Clamps may be used with or without the spacer block, depending on frame conditions.



UNITROL® ARM

Closer Mounting Plate

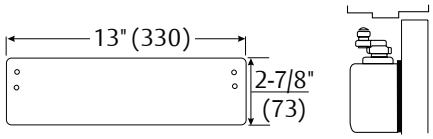
Top Jamb



Narrow Top Rail - 8148 Drop Plate:

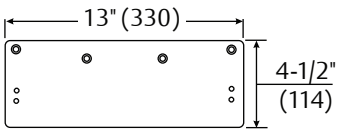
For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-7/16" (62mm) in height.

Full Cover Installations



Exposed Back - 8445 Molded Full Cover Decorative Back Plate:

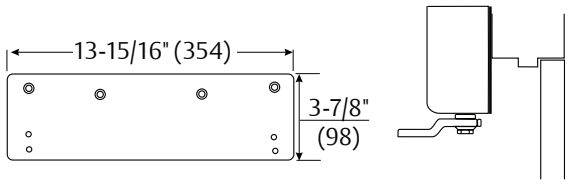
For use on doors with glass lights where a closer with molded full cover is installed and the closer back is exposed. This plate covers the back of the installation to give a pleasing appearance from the reverse side.



Exposed Back/Narrow Top Rail - 8158 Molded Full Cover Drop Plate:

For use on doors with glass lights where a closer with molded full cover is installed and the back of the closer is exposed. This covers the back of the installation and gives a pleasing appearance from the reverse side.

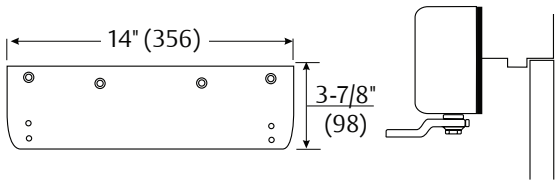
Metal Cover Installations



Low Ceiling Clearance - Overhead Door Holder - 8547 Metal Full Cover Drop Plate:

For use where a low ceiling clearance prevents normal top jamb mounting. This plate is used when the clearance is between 1-5/8" and 3-3/4" (41 and 95mm). Or for use where a surface or concealed overhead door holder prevents normal top jamb mounting of a closer with a metal full cover. This plate drops the closer and allows arm mounting screws to clear the bottom of the door holder. This places the centerline of the arm mounting screws at 3-7/8" (98mm) from the top of the door.

Architectural Plastic or Metal Cover Installations



Low Ceiling Clearance - Overhead Door Holder - 8547A Architectural Plastic or Architectural Metal Cover Drop Plate:

For use where low ceiling clearance prevents normal top jamb mounting. This plate is used when the clearance is between 1-5/8" and 3-3/4" (41 and 95mm). Or for use where a surface or concealed overhead door holder prevents normal top jamb mounting of a closer with an architectural plastic or metal full cover. This plate drops the closer and allows arm mounting screws to clear the bottom of the door holder. This places the centerline of the arm mounting screws at 3-7/8" (98mm) from the top of the door.

NORTON RIXSON
ASSA ABLOY

8000
ARCHITECTURAL DOOR CLOSER

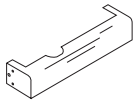
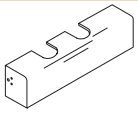
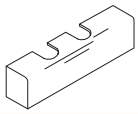
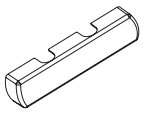
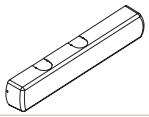
DOOR CLOSER BODY ASSEMBLIES

Model	Description
8101LAP	Multi-sized closer bodies (8101, 8301 or 8501)

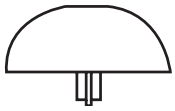
LAP = less all parts

COVERS

Model	Plastic	Metal	Arch. Plastic	Arch. Metal
8301	8200P	N/A	N/A	N/A
8501	8400P	8400M	8400A	8400MA

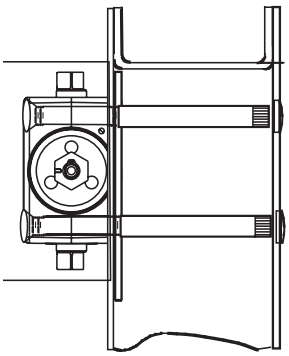
Cover Model	Cover Drawing
Slim line* 8200P or 8200PG 1-3/4" high x 2-1/8" deep x 13" long (44 x 54 x 330)	
Full plastic 8400P or 8400PG 2-7/8" high x 2-1/8" deep x 13" long (73 x 54 x 330)	
Metal 8400M 3-7/8" high x 2-3/16" deep x 13-5/8" long (98 x 54 x 346)	
Architectural plastic 8400A or 8400AG 3-3/32" high x 2-1/4" deep x 13-7/8" long (79 x 56 x 352)	
Architectural metal 8400MA 3" high x 2-3/16" deep x 13-15/16" long (76 x 56 x 354)	

*The 1639 pinion cap is NOT included with the 8200P or 8200PG covers. The cap is included with the complete closer package (8300, 8301).



STEEL DOOR APPLICATION

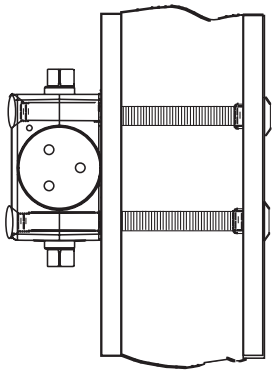
Sleeve-nut : "SN" (4 per pack) or
Sleeve-nut & screw: "SNB" (4 per pack)



Door	SN's	SNB's
1-3/4"	SN-134	SNB134-38
2"	NA	SNB200-38
2-1/4"	SN-214	SNB214-38
S.S. SNB'S 1-3/4"	SN-134SS	SNB134SS-38

ALUMINUM AND WOOD DOOR APPLICATION (Aluminum Door Shown)

Thru bolt & grommet nut : "TBGN" (4 per pack)

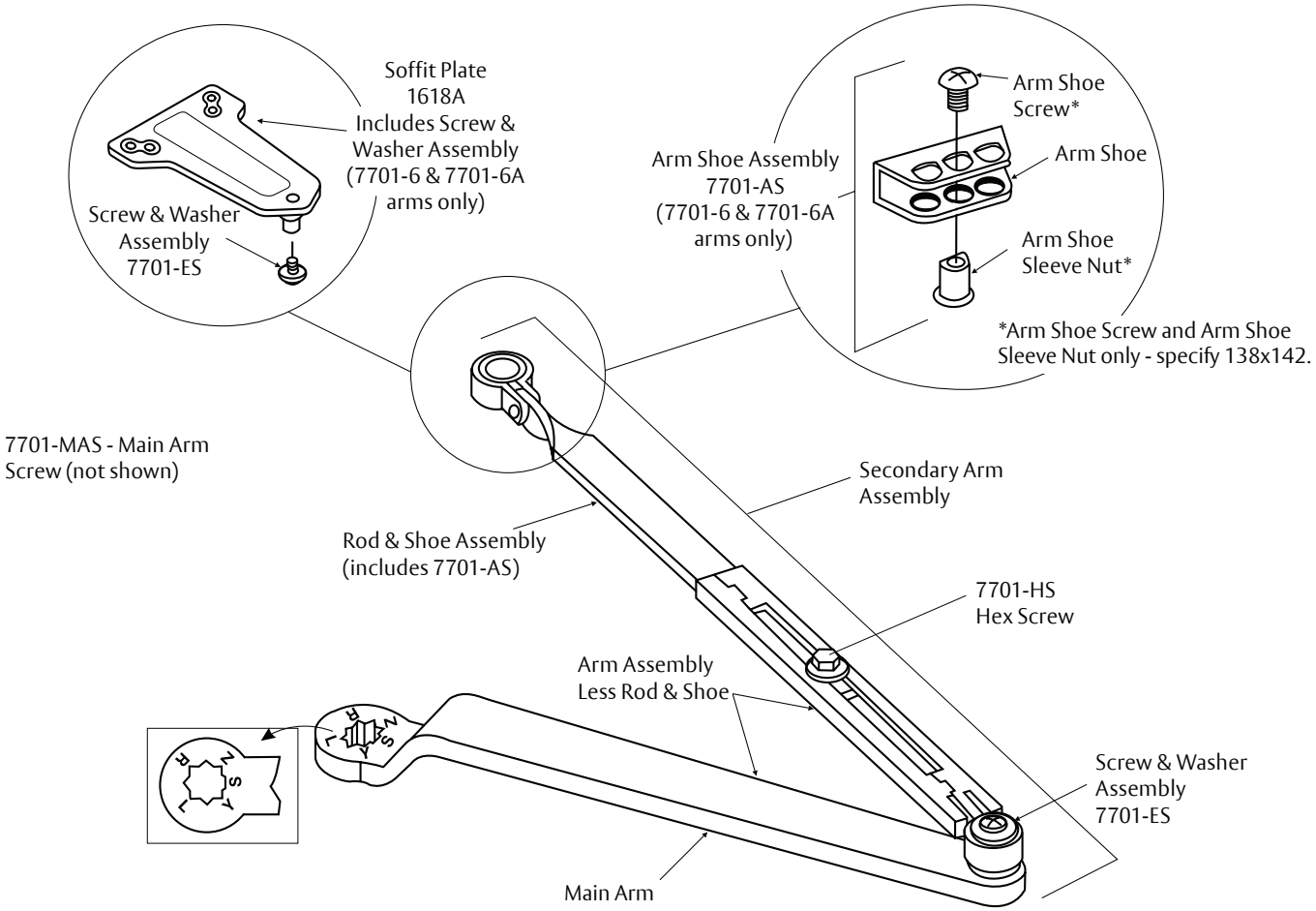


Door	SN's
1-3/8"	TBGN138-38
1-3/4"	TBGN134-38

Arm Type	Torx® Screw Packs
Regular, Parallel & Top Jamb	TX38
Parallel Rigid, CloserPlus® & CloserPlus Spring™	PRTX38
Regular Rigid Heavy-Duty	RTX38
Unitrol®	UNITX38
Slide Track	STTX38

Experience a safer and more open world

NON-HOLD OPEN ARM ASSEMBLIES

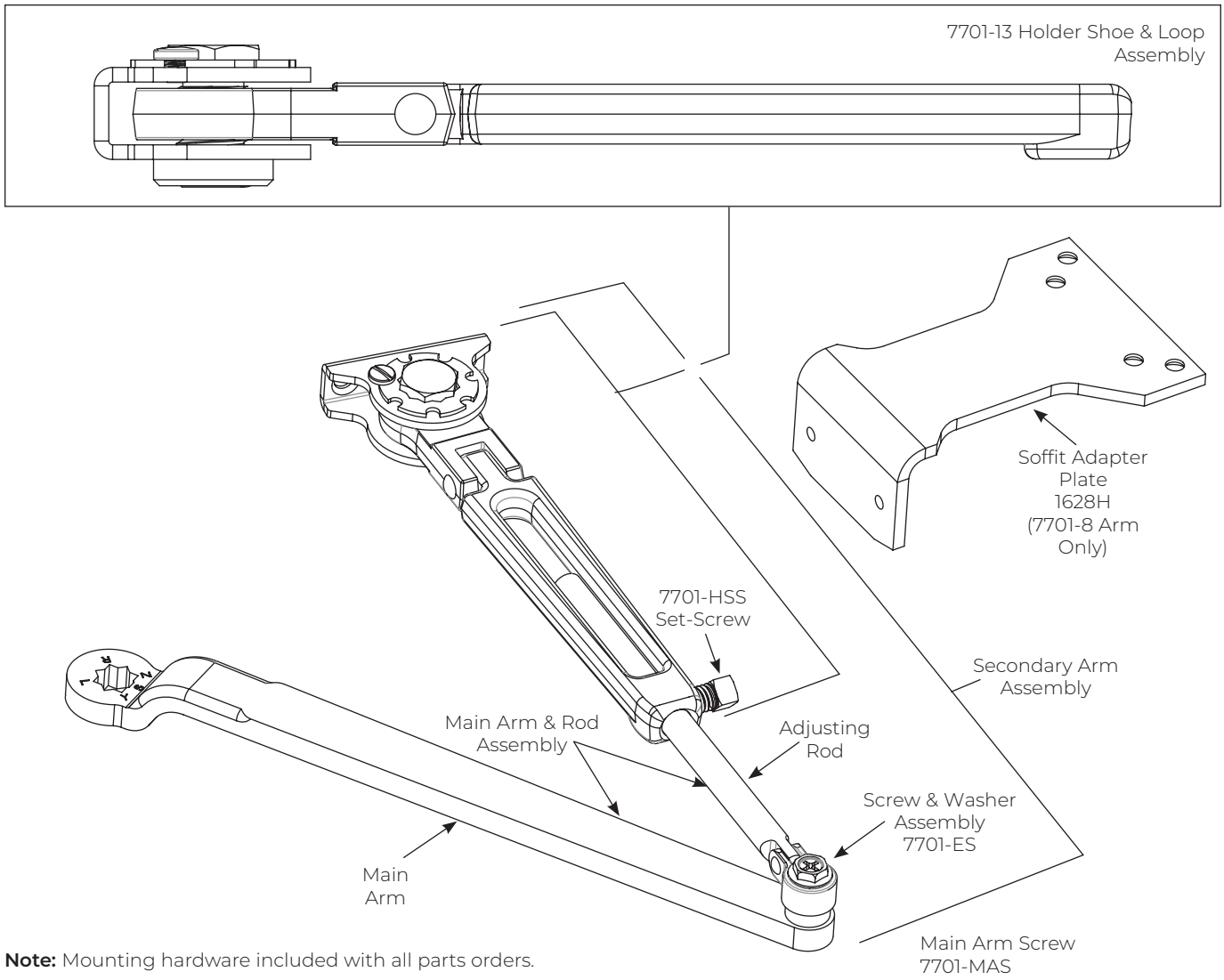


Note: Mounting hardware included with all parts orders.

Closer Series	Complete Arm Assembly	Main Arm Assembly[1] (length)(mm) (includes 7701-ES)	Secondary Arm Assembly (includes 7701-ES)	Arm Assembly Less Rod and Shoe	Rod & Shoe Assembly[2] (length)(mm)
8000	7701-1	7701-1M (11)(279)	7701-111	7701-1W	7701-11 (8-7/8)(225)
J8000	7701-1A		7701-121		7701-11A (12-9/16)(319)
P8000	7701-6		7701-116		7701-16 (8-7/8)(225)
P8000[3]	7701-6A		7701-116A		7701-16A (12-9/16)(319)
8000	7701-26 (tri pack includes 7701-1 plus 1618A plate)	1. C to C length shown in parentheses. 2. C of connecting link to end of rod shown in parentheses. 3. For 180° door swing when using a special template for doors hung on 6" to 8" (162 to 203mm) wide throw hinges.			

NORTON RIXSON
ASSA ABLOY

HOLD OPEN ARM ASSEMBLIES



Note: Mounting hardware included with all parts orders.

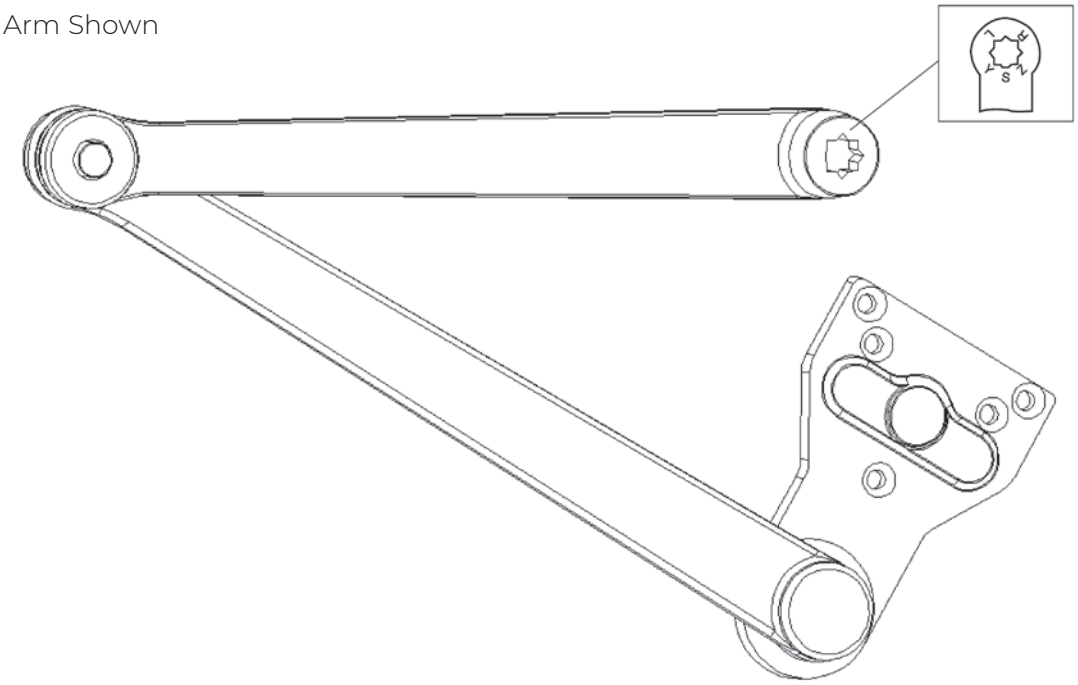
Closer Series	Complete Arm	Main Arm Assembly[1] (mm) (includes 7701-ES)	Secondary Arm (includes 7701-ES)	Main Arm & Rod Assembly	Holder Shoe & Loop Assembly	Adjusting Rod[2] (Length)(mm)
8000H	7701-3/7701-8[3]	7701-1M (11)(279)	7701-113/7700-118 (Reg.) / (Par.)	7701-3W	7701-13/7701-18[4]	7701-31 (7-3/8)(187)
J8000H	7701-3A		7701-123	7701-3WA	7701-13	7701-31A (10-13/16)(275)

1. C to C length shown in parentheses.
2. C of connecting link to end of rod shown in parentheses.
3. Same as 7701-3 but includes 1628H soffit adapter plate.
4. Same as 7701-13 but includes 1628H soffit adapter plate.

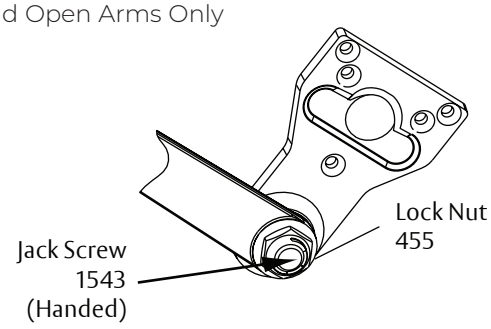
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PARALLEL RIGID ARM ASSEMBLIES

Non-Hold Open Arm Shown



Hold Open Arms Only



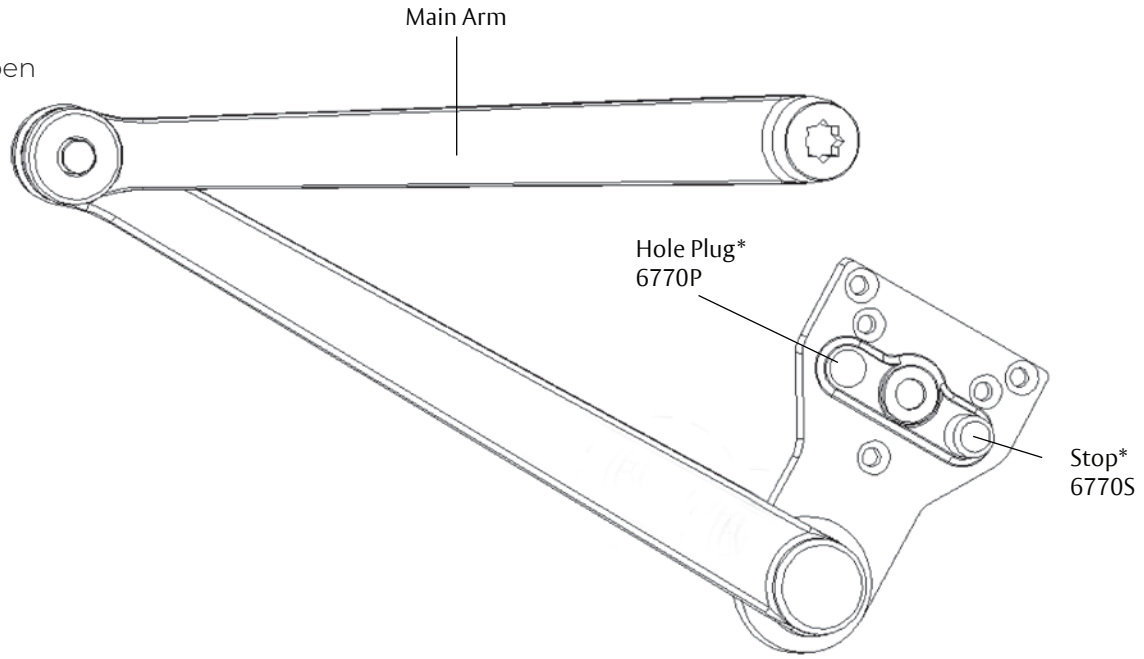
Note: Mounting hardware included with all parts orders.

Arm Function	Complete Arm Assembly
Non-hold open	PR7701-5
Hold open	PR7701-8R (right hand)
	PR7701-8L (left hand)

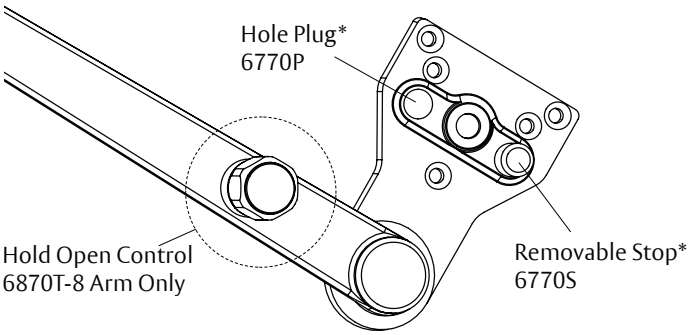
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CLOSERPLUS® ARM ASSEMBLIES

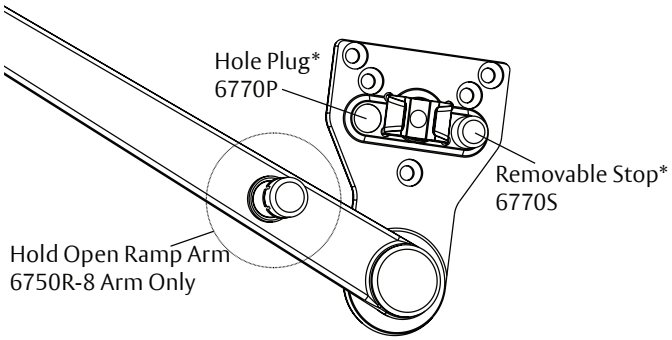
CLP
Non-Hold Open



CLP-T
Thumbturn Hold Open



CLP-R
Ramp Hold Open



Note: Mounting hardware included with all parts orders.

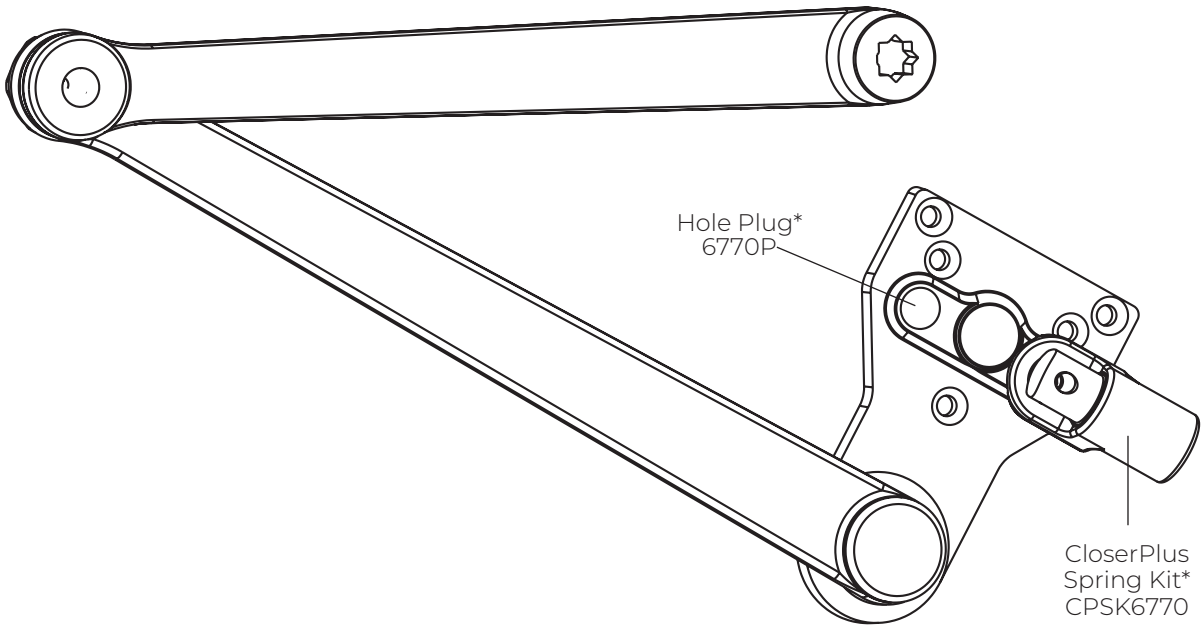
Arm Function	Complete Arm Assembly
Non-hold open	6770-5
Thumbturn hold open	6870T-8
Ramp hold open	6750R-8

* These parts and screw pack are included with complete arm assemblies.

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CLOSERPLUS SPRING™ ARM ASSEMBLIES

Non-Hold Open Arm Shown

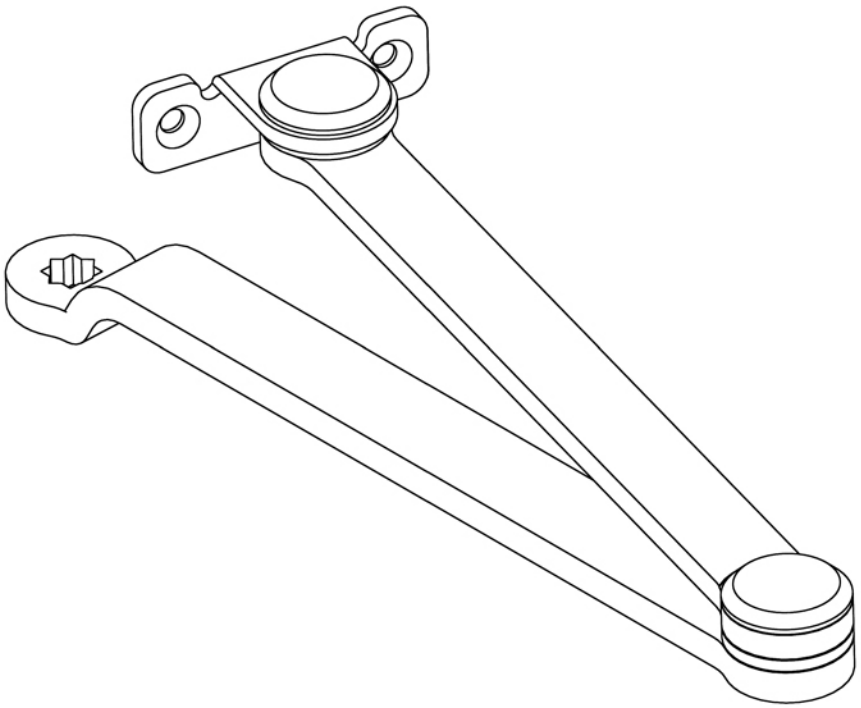


Note: Mounting hardware included with all parts orders.

Arm Function	Complete Arm Assembly
Non-hold open	CPS6770-5
Thumbturn hold open	CPS6870T-8

* These parts and screw pack are included with complete arm assemblies.

REGULAR RIGID HEAVY-DUTY ARMS

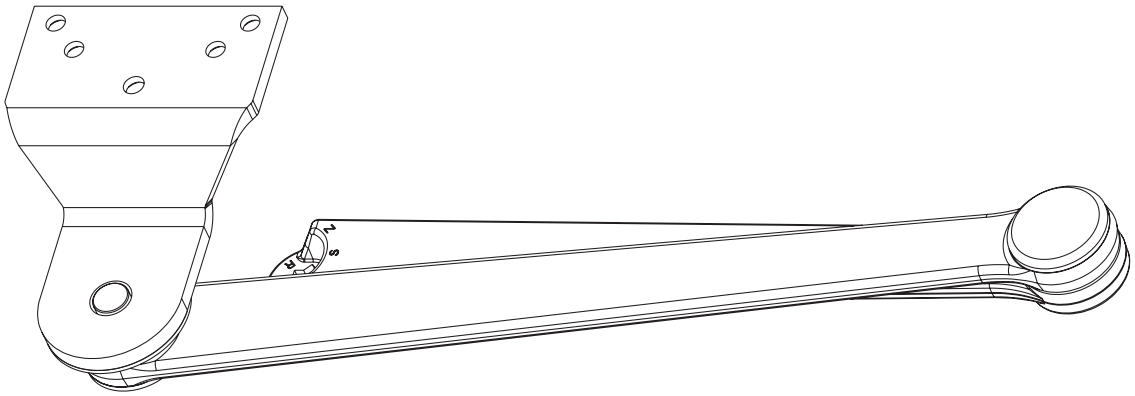


Note: Mounting hardware included with all parts orders.

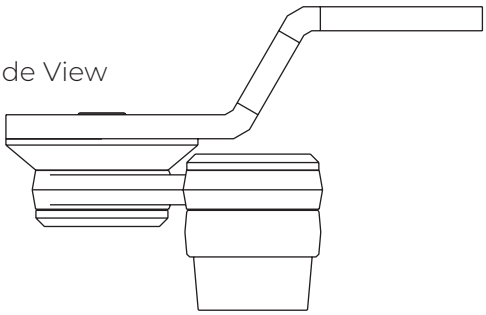
Arm Function	Complete Arm Assembly
Non-hold open	R7701-1

PARALLEL RIGID OFFSET ARM ASSEMBLIES

Non-Hold Open



Side View



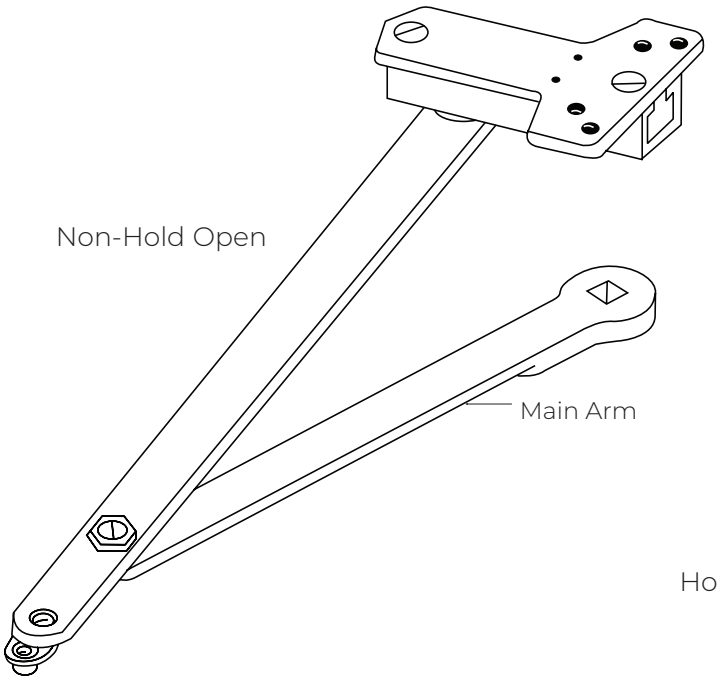
Note: Mounting hardware included with all parts orders.

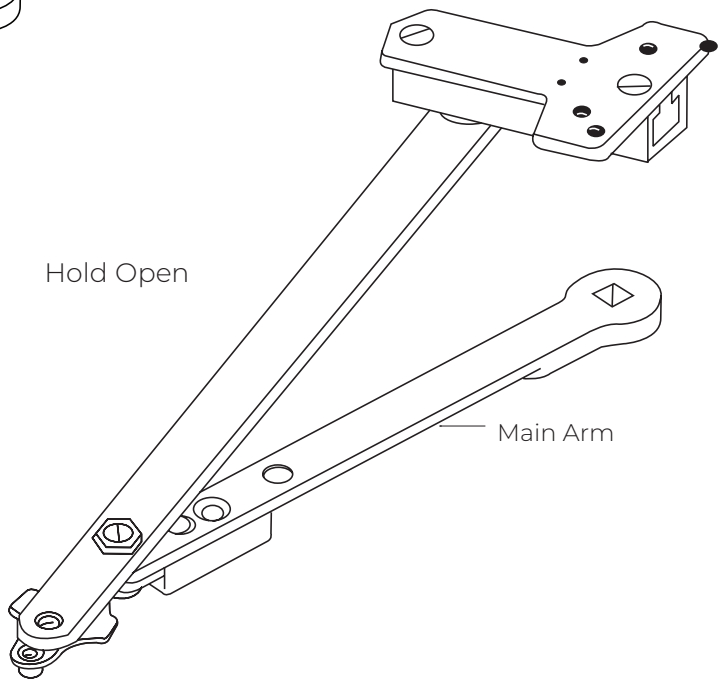
Arm Function	Complete Arm Assembly
Non-hold open	PRO7701-5
Hold open, right hand	PRO7701-8R
Hold open, left hand	PRO7701-8L

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UNITROL® ARM ASSEMBLIES

Parallel Arm





Note: Mounting hardware included with all parts orders.

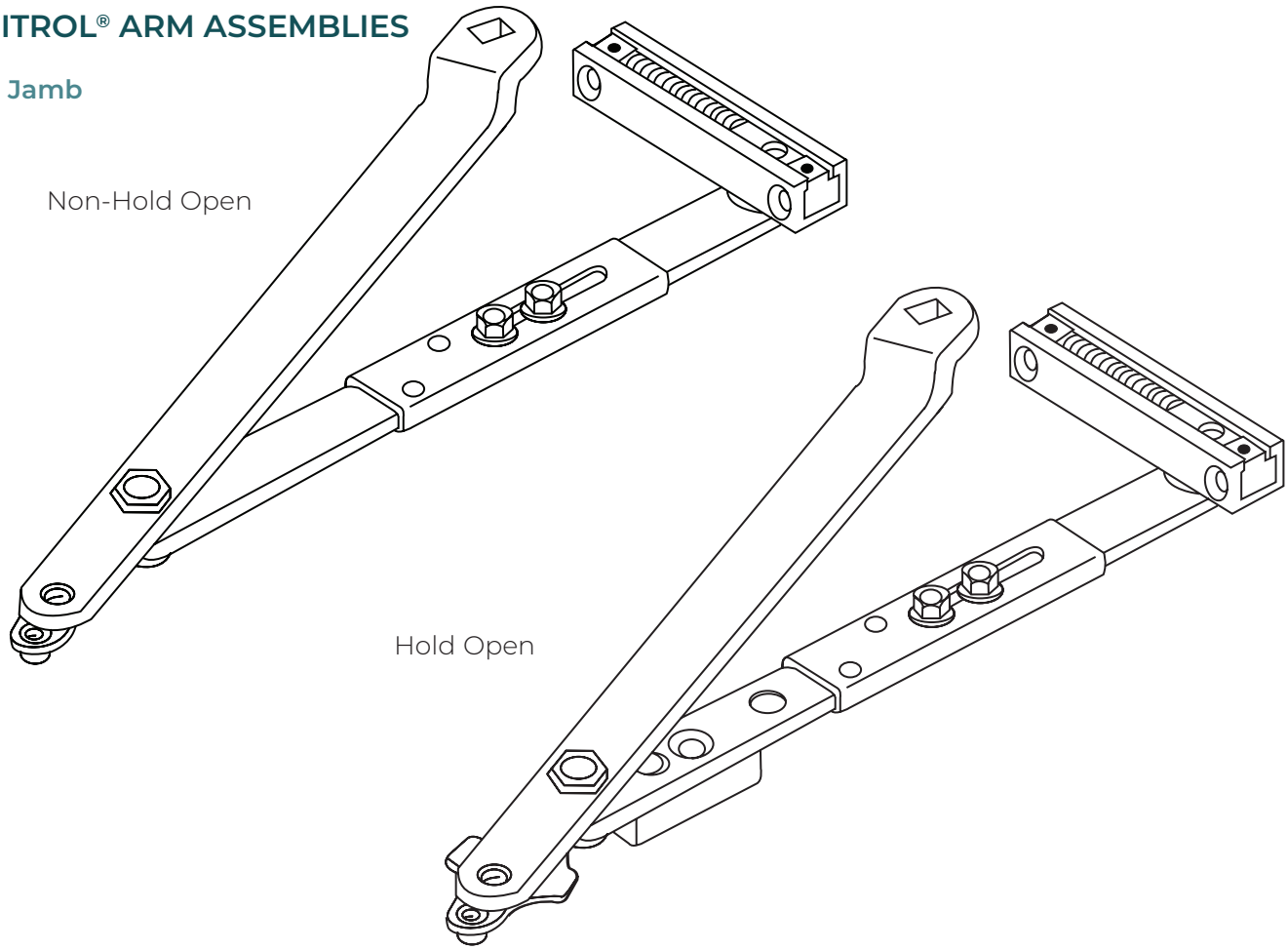
Door Width (cm)	Main Arm Length* (mm)	Complete Arm Assembly	
		Non-Hold Open	Hold Open
28" - 32" (71- 81)	9-1/2" (241)	6100-11	6100-1
33"- 41" (84 - 104)	11" (279)	6100-13	6100-3
42" - 48" (107 - 122)	12-1/2" (318)	6100-14	6100-4

* Center to center length.
Only available in painted finishes.

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UNITROL® ARM ASSEMBLIES

Top Jamb

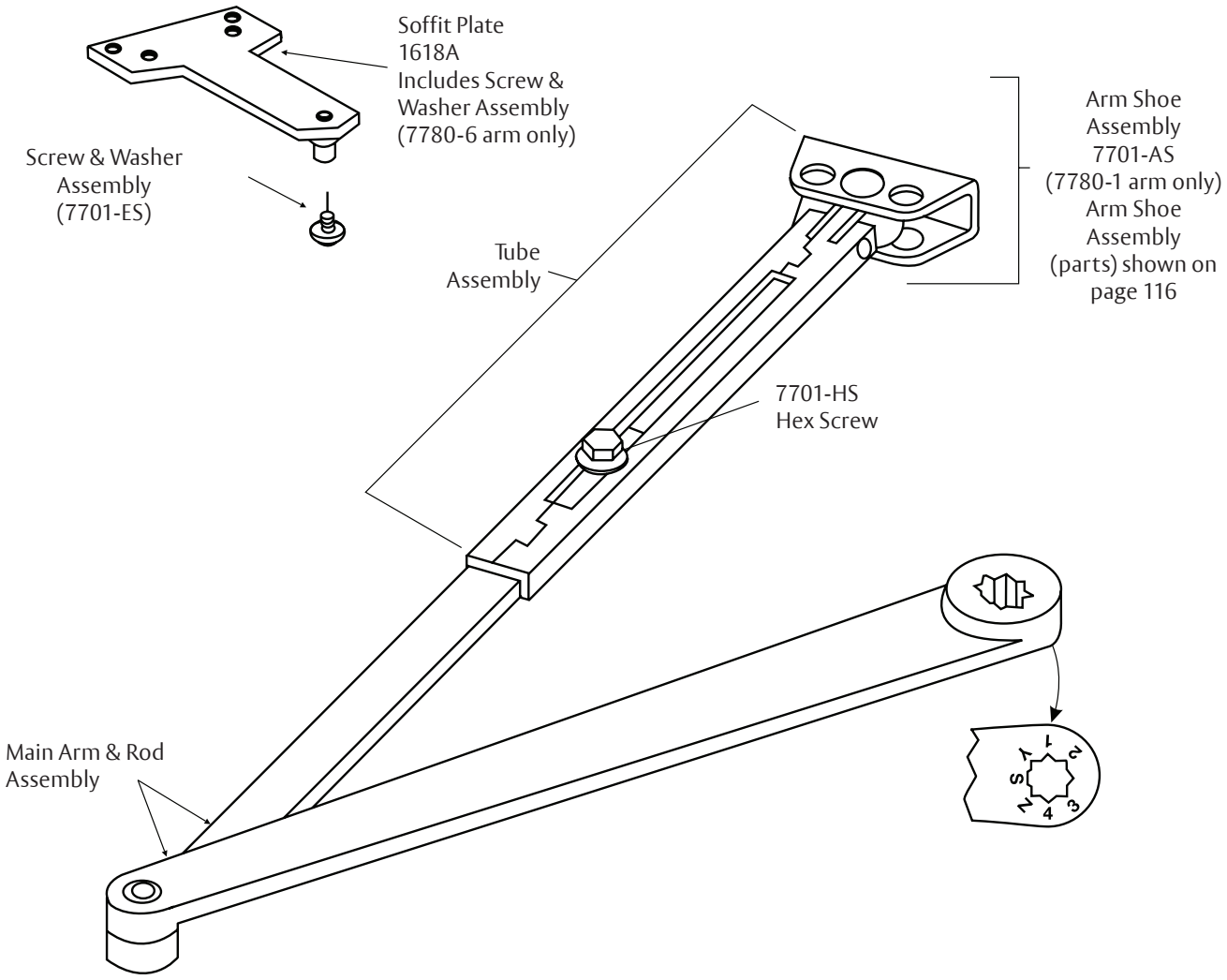


Note: Mounting hardware included with all parts orders.

Complete Arm Assembly		For Frame Reveals (mm)
Non-Hold Open	Hold Open	
J6100-4	J6100-7	2-1/8" - 3-1/4" (54 - 83)
J6200-4	J6200-7	1/2" - 2" (13 - 51)
J6400-4	J6400-7	3-3/8" - 4-1/4" (86 - 108)
J6500-41	J6500-71	4-3/8" - 5-3/8" (111 - 137)
J6500-42	J6500-72	5-1/2" - 6-3/8" (140 - 162)
J6500-43	J6500-73	6-1/2" - 7-3/8" (165 - 187)
J6600-4	J6600-7	0" - 3/8" (0 - 10)

Only available in painted finishes.

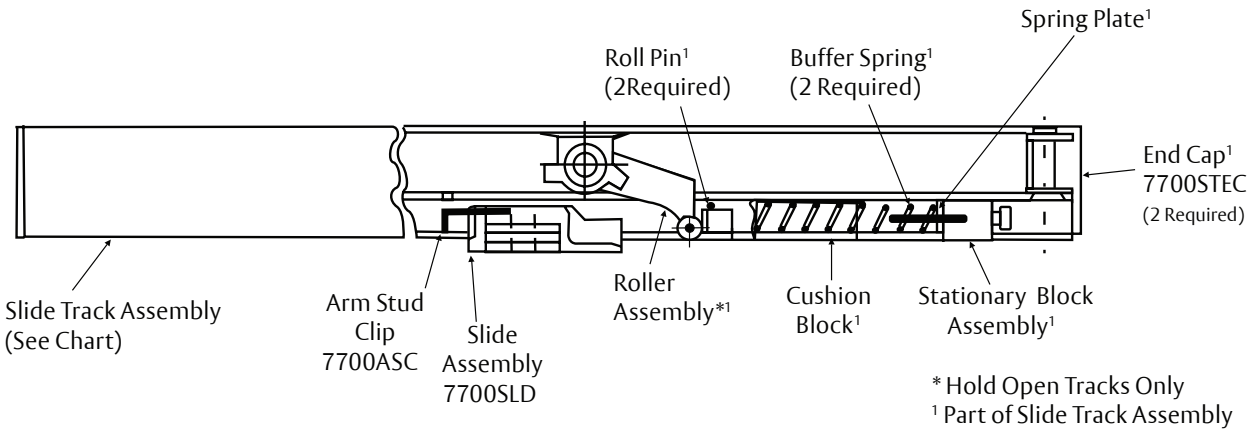
LOW PROFILE ARM ASSEMBLIES



Note: Mounting hardware included with all parts orders.

Arm Application	Complete Arm Assembly	Main Arm & Adjusting Rod Assembly	Tube & Shoe/Soffit Assembly
Regular	7780-1	7780-1MR	7780-1TS (With 7701-AS)
Parallel	7780-6		7780-6TS (With 1618A)
Tri-pack	7780-26		

TRACK & ARM ASSEMBLIES



Note: Mounting hardware included with all parts orders.

Slide Track Assembly	Part Number	
Description	Non-Hold Open	Hold Open
Pull-side	7701ST-1T	7701ST-3T
Pull side (180°)	7701ST-1T180	N/A
Push side	7701ST-5T	7701ST-8T

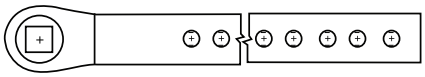
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TRACK & ARMS ASSEMBLIES

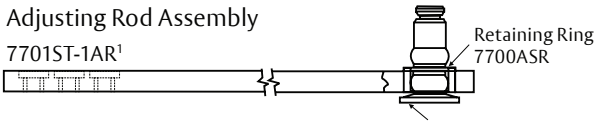
Standard Arm Assembly

7701ST-1A*[1]

Arm Tube Assembly
7701ST-1AT[1]

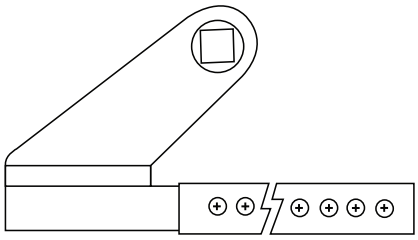


Adjusting Rod Assembly
7701ST-1AR[1]

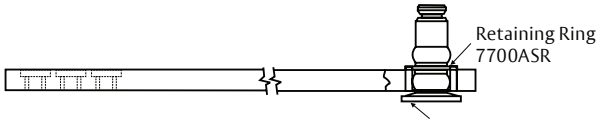


Double Egress Arm Assembly

7701PT-DE-1R (Right Hand)*[1]
7701PT-DE-1L (Left Hand)*[1]



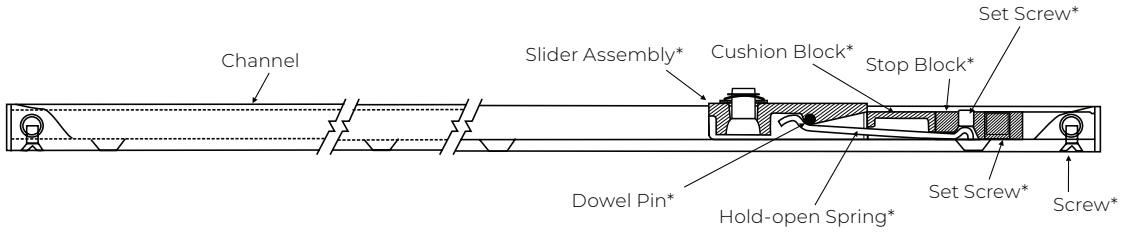
Arm Tube Assembly
7701ST-1ATR[1] (right hand)
7701ST-1ATL[1] (left hand)



Adjusting Rod Assembly
7701ST-1AR[1]

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TRACK ASSEMBLIES - SHALLOW DEPTH

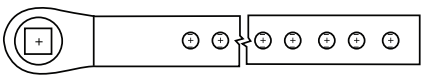


*Part of an assembly pack
NHO= 7740SLD
Ho = 7740HSLD

Note: Mounting hardware included with all parts orders.

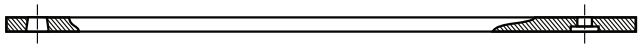
Track Assemblies	Part Number	
Description	Non-Hold Open	Hold Open
Pull-side mounted	7740ST-1T	7740ST-3T
Push-side mounted	7740ST-5T	7740ST-8T

Arm Assembly



Arm Tube Assembly
7701ST-1AT[2]

7740ST-1A[1, 2]



Adjusting Rod Assembly
7740ST-1AR[2]

1 Includes arm length adjusting screw.
2 Includes arm tube & adjusting rod assembly.

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FASTENERS

Standard Fasteners	With Arms Specified Below					
	Regular Parallel & Top Jamb	Low Profile	Parallel Rigid (PR) CloserPlus (CLP) CloserPlus Spring (CPS)	Unitrol (UNI)	Unitrol-J (UNI-J)	Slide Track (ST)
Door						
Self drilling self tapping	S	S	S	S		
Machine screw	S	S	S	S	S	S
Sleeve nut/sex nut			S	S	S	S
Frame						
Self drilling self tapping	S	S	S	S	S	S
Machine screw	S	S	S	S	S	S

S = Standard
Fasteners are standard (included) with closer package.
Examples:
8501 includes self drilling, self tapping and machine screws
PR8501 includes self drilling, self tapping, machine screws and sleeve nut/sex nuts

Optional Fasteners	Description	With Arms Specified Below					
		Regular Parallel & Top Jamb	Low Profile	Parallel Rigid (PR) CloserPlus (CLP) CloserPlus Spring (CPS)	Unitrol (UNI)	Unitrol-J (UNI-J)	Slide Track (ST)
Door							
SN^	Sleeve nut/sex nut	O	O				
TBGN^	Thru bolts & grommet nuts	O	O	O	O	O	O
SMS*	Sheet metal screws & machine screws	O	O	O	O	O	O
SSPxSMS	Standard screw pack & sheet metal screws	O	O	O	O	O	O
TORX®*	Torx drive security screw	O	O	O	O	O	O
Frame							
SMS*	Sheet metal screws & machine screws	O	O	O	O	O	O
SSPxSMS	Standard screw pack & sheet metal screws	O	O	O	O	O	O
TORX®*	Torx drive security screw	O	O	O	O	O	O

O = Optional
^ When SN or TBGN are ordered, standard screw packs are also furnished.
***When SMS or TORX screws are specified, standard screw packs ARE NOT furnished.**
Examples:
8501 x **SN** includes self drilling, self tapping, machine screws and sleeve/sex nuts
8501 x **SMS** includes sheet metal screws and machine screws

SN are for use on hollow metal doors and can also be used for thru bolting on wood doors. When selected SNs are supplied for 1-3/4" (44mm) thick doors unless specified for 2-1/4" (57mm) thick doors

TBGN are an alternative to SN for wood doors. When selected, TBGNs are supplied standard for 1-3/4" (44mm) thick doors.

SMS - when the option is specified, closer will be packed with sheet metal screws for the door and sheet metal screws plus machine screws for the frame.

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FINISHES

Norton Rixson offers waterborne acrylic, polyster powder coat and plated finishes. Custom finishes are available on special order. A sample and approval is required.

Waterborne acrylic and polyester powder coat will withstand 100 hours of salt spray (ANSI requires 25 hours).

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613E (US10BE)	Dark oxidized satin bronze - equiv.
619 (US15)	Satin nickel plated, clear coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat
600^	Prime coat

^ 600 is a special rust-inhibiting prime coat. Closers can be ordered prime coat only (specify closer x 600). An additional charge applies if finish coat is required over prime coat.

- Closer bodies and plastic covers are available in waterborne acrylic finishes. Arms and metal covers are available in powder coat or plated finishes.
- When a plated finish is ordered, arm and cover will be plated unless "cover only" is specified.

NORTON RIXSON
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8000
ARCHITECTURAL DOOR CLOSER

HOW TO ORDER

For optimum protection of door and frame assemblies, always use auxiliary wall, floor, or overhead door stop. Auxiliary stop is required in abusive applications.

CLP	8	5	0	1	T
Prefixes	Closer series	Cover options	Specifies some options	Closer size	Suffixes

Prefixes

No Prefix - 8301/8501 series designates Tri-Style®
S - 8301/8501 regular arm application only, non-hold open
JS - 8301/8501 top jamb application only, non-hold open
P - 8301/8501 parallel arm application only, non-hold open 8381/8581 low profile closer
J - Top Jamb installation. 2-3/4 to 7" reveal - 150° swing
PR - Parallel Rigid arm (parallel arm only - specify hand for hold open functions)
PRO - Parallel Rigid arm with offset soffit plate (parallel arm only - specify hand for hold open applications)
PS - For push side mounted slide track only
R - Regular Rigid heavy-duty arm (Torx® screws not included)
CLP - CloserPlus® arm (parallel arm only)
CPS - CloserPlus Spring™ arm (parallel arm only)
UNI - Unitrol® arm (parallel arm only - specify door width)
UNIJ - Unitrol arm (top jamb only - specify frame reveal)

Appearance Options

1 - without cover
3 - closer with Slim Line cover
5 - closer with Full cover

0 - Specifies standard type arms for non-hold open, hold open closers
4 - Specifies low profile slide track
8 - Specifies a low profile arm for non-hold open closers only

1 - Adjustable 1-6

No Suffixes - Standard non-hold open arm
H - Standard hold open arm
M - Metal cover; optional for series 8501 closers only (Specify hand for Top Jamb closer
MLL - Lead lined metal cover
A - Optional architectural plastic cover (8501 only)
MA - Optional architectural metal cover (8501 only)
AG - ABS architectural cover
G - ABS cover
T - Thumbturn hold open on CloserPlus (CLP) & CloserPlus Spring (CPS) arms
DA - Adjustable delayed action closing optional. Available with adjustable backcheck cushioning for all series
ST - Slide track single lever arm (pull side standard. For push side prefix PS)
ST-180 - Slide track single lever (pull side only); 180° swing
DE - Pull side slide track arm for double egress frame with reveal (Handed)
R - Ramp hold open on CloserPlus® arm

Note:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).

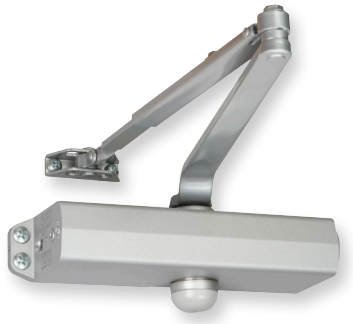
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1600

ALUMINUM STOREFRONT DOOR CLOSER

INTRODUCTION

The 1600 Series door closers offer proven quality, performance and reliability unmatched by the competition. A staple in the industry, these ANSI/BHMA Grade 1 closers are designed for exterior or interior doors. A full complement of regular and heavy-duty arms, brackets and options make the 1600 Series closers ideal for virtually any medium traffic, commercial application.



FEATURES

- Non-handed
- Rack-and-pinion design
- Cast aluminum closer body
- Door weight: 250 lbs.
- 2-7/8" (73mm) projection
- 1-3/8" (35mm) diameter piston
- 5/8" (16mm) diameter pinion journals
- Tri-Style® packaging (regular arm, top jamb and parallel arm mounting)
- All standard arm applications allow doors to swing 180°, conditions permitting
- Staked valves
- Heavy-duty arms: Parallel Rigid, CloserPlus®, CloserPlus Spring™, and Unitrol®
- Standard, separate and independent, latch, sweep and backcheck intensity valves
- 30-year limited warranty

Features	1600BC	1601
Sized springs 3 or 4 with no power adjustment	X	
Adjustable spring sizes 1 through 6		X

OPTIONAL FEATURES

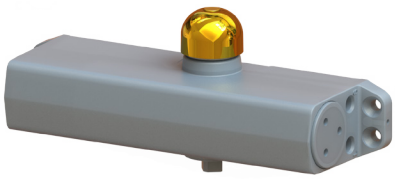
- Molded plastic cover - specify suffix P
- Corrosion-resistant model (non-hold open only) - specify 1601SS (not tri-packed)

PATENTS

- assaabloydss.com/patents

NorBell™

NorBell™ is an innovative mechanical door notification system designed for dependable performance. Unlike conventional systems that depend on batteries or electronic sensors, NorBell is powered purely by mechanical motion. As the door opens, the rotating pinion activates the system—delivering consistent, maintenance-free operation.



NorBell is available for the 1601 tri-pack closer (order 1601NB x finish) or as a convenient field-install kit (order NBKit16 x finish) for retrofitting existing closers.

Available in 689 aluminum, 690 dark bronze, 691 light bronze, 694 medium bronze, 696 gold, 605 brushed brass, clear coated, BSP black suede powder coat or WSP white suede powder coat

NORTON RIXSON
ASSA ABLOY

1600
ALUMINUM STOREFRONT DOOR CLOSER

CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 1
- ANSI/BHMA A117.1
- Americans with Disabilities Act (ADA) Compliant
- Environmental Product Declaration (EPD)
- UL10C positive pressure up to 3 hours
- UL-cUL listed
- Manufactured in an ISO 9001 and ISO14001 facility

CAUTION: Door Closers for Low Opening Force Applications:

Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

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1600
ALUMINUM STOREFRONT DOOR CLOSER

NORTON RIXSON
ASSA ABLOY

EXPLANATION OF FEATURES

Aluminum Alloy Housing
Closer bodies are constructed of a special aluminum alloy, carefully selected to accommodate interaction with steel components and operating conditions.

Rack & Pinion Operation
Provides a smooth constant control of the door through its full opening and closing cycle. 180° door swing can be achieved when door, frame, hardware and arm function do not limit door swing.

Non-Handed
With few exceptions, all series 1600BC and series 1601 door closers are non-handed and can be installed on either right- or left- hand swing doors. Pinion shaft extends vertically through the closer body in both directions. Some options (such as Parallel Rigid hold open arms) will require that the hand of the closer be specified.

Tri-Style®
1600BC/1601 closers come with screws, brackets & soffit plate to allow for regular, top jamb, & parallel arm installations.

Sweep Speed Control Valve
Allows adjustment of door speed from the door's full open position down to approximately 10° from the closed position.

Latch Speed Control Value
Allows adjustment of door speed from approximately 10° down to the door's fully closed position.

Adjustable Backcheck Cushion Valve
Provides control of the door in the opening cycle, beginning at approximately 75° of door opening. It slows/cushions the door opening, when the door is forcibly opened beyond its pre-adjusted opening speed limits.

Warranty
These closers carry a limited 30-year warranty against defects and a limited lifetime warranty on the aluminum housing.

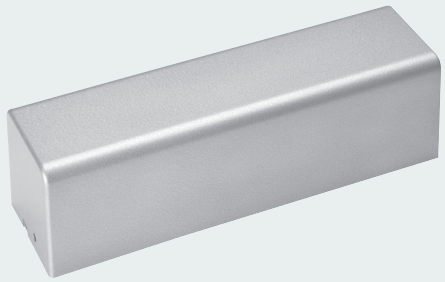
Closer Fluid
NorGlide® door closer fluid is a specially formulated hydraulic fluid that contains lubricity and anti oxidation agents that provide optimum performance and efficiency. This fluid complements the interaction of the door closer's aluminum housing with its steel and zinc components, while maintaining stable viscosity to allow the door closer to perform in temperatures ranging from extremely high to as low as -40° F.

Door Closer Power Options
Sized Door Closer: 1600BC

Available in power sizes 3 or 4. Outlined in ANSI specification A156.4. Spring power is not adjustable.

Multi-Sized Door Closer: 1601

Adjustable through the power range of sizes 1 through 6 to comply with the opening force requirements as outlined in the Americans with Disabilities Act (A.D.A.) and ANSI A117.1 for interior doors. Outlined in ANSI specification A156.4.



Optional Molded Cover - 1600P
Molded of high-impact U.L. listed material that covers the entire closer body assembly. This cover is non-handed for regular and parallel arm applications. Suffix "P" to catalog number. Not designed for top jamb applications.

Corrosion Resistant Door Closer
The series 1601SS door closers are available for use where corrosive conditions exist. This series is provided with zinc diecast adjustment valves, a 440 grade stainless steel pinion shaft, an all-aluminum body and bronze closer arm bushings; all other components and fasteners are of 302/303 grade stainless steel. This product is available for standard regular arm, top jamb and parallel arm, non-hold open, applications only. Not Tri-Style packed. "P" or "J" prefix required for parallel arm and top jamb applications.

Non-Hold Open
Self-closes door every time door is opened. Auxiliary stop (by others) required except when using the CloserPlus®, CloserPlus Spring™ or Unitrol® Arms.

Hold Open
Achieved by means of friction or ball and detent/roller. Friction hold open has a range of 90° to 180° using template location and mechanical adjustment. Ball and detent or roller hold open is effective in a range of 85° to 110°.

Hold open arm door closers are not permitted to be used on fire door assemblies.

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1600
ALUMINUM STOREFRONT DOOR CLOSER

Door Opening Degrees

Arm Function	Regular Arm, Top Jamb Parallel Arm	Parallel Rigid Arm	*CloserPlus* Parallel Arm	*CloserPlus* Spring Parallel Arm	*Unitrol* Parallel Arm	*Unitrol* Top Jamb	Low Profile Regular, Parallel	Cushion Stop Arm
Non-Hold Open	✓	✓	85° to 110°	85° to 110°	85° to 110°	85° to 110°	✓	85° to 110°
Hold Open	90° to 180°	85° to 180°	85° to 110°	85° to 110°	85° to 110°	85° to 110°	N/A	N/A

✓ *= 180˚ trim and template permitting*

SPECIFICATIONS

1601 Series

Closers for interior and exterior doors shall be full rack-and-pinion type with cast aluminum alloy shell. Closers shall be surface mounted and shall project no more that 2-7/8" from the surface of the door. Closers shall be non-handed to permit installation on doors of either hand. Closer fluid shall contain lubricity and anti-oxidation agents. Closer fluid shall maintain stable viscosity to allow door closer to perform in temperatures ranging from extremely high to as low as -40°F. Closers shall have multi-size spring power adjustment to permit setting of spring from (1 through 6). Closers shall have two non-critical valves, hex key adjusted, to independently regulate sweep and latch speed. Closers shall have adjustable backcheck cushioning controlled by a hex key adjusted valve.

[Closer body shall be enclosed in/concealed with a full molded cover.]

[Closers shall be highly corrosion resistant and shall have all external body components of aluminum, zinc alloy or stainless steel material and all stainless steel fasteners.]

Regular arm and top jamb closers shall have a non-hold open shoe permitting 15% (+/- 7-1/2%) power adjustment. ** Norton Rixson [1601] [1601SS].

***For special arms insert the appropriate specification from column two on this page.*

1600BC Series

Closers for interior and exterior doors shall be full rack-and-pinion type with cast aluminum alloy shell. Closers shall be surface mounted and shall project no more that 2-7/8" from the surface of the door. Closers shall be non-handed to permit installation of doors of either hand. Closer fluid shall contain lubricity and anti-oxidation agents. Closer fluid shall maintain stable viscosity to allow the door closer to perform in temperatures ranging from extremely high to as low as -40°F. Closers shall be sized for each door. Closers shall have two non-critical valves, hex key adjusted, to independently regulate sweep and latch speed. [Closers shall have adjustable backcheck cushioning controlled by a hex key adjusted valve.]

Regular arm and top jamb closers shall have a non-hold open shoe permitting 15% (+/- 7-1/2%) power adjustment.** Norton Rixson [1600BC].

***For special arms insert that specification here (see column two on this page).*

**Unitrol® Arm

Door closers shall have built in-door stop [and holder] effective at one point selected at installation, from 85° - 115° in five-degree increments. Door stop shall be cushioned by a shock-absorbing heavy-duty spring action effective at the [soffit plate] [arm shoe] pivot. [Closers shall be provided for parallel arm installation using rigid steel main arm and secondary arm lengths proportional to the door width to reduce racking at the hinge/pivot.] [Closers shall be provided for top jamb installation using steel, rigid main arm and telescoping secondary arm adequate for the frame reveal of the openings.] (Closer arm shall have ball and detent hold open feature that can be engaged or disengaged by 1/4 turn of mechanism; and hold open strength shall be adjustable.)

**CloserPlus® Arm

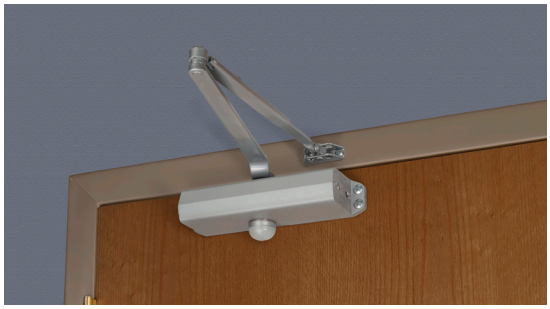
Door closers shall have built-in door stop [and holder] effective at one point selected at installation, from 85° - 110° in five-degree increments. Door stop mechanism shall be reversible and attached to soffit plate. [Hold open mechanism shall have engage/disengage and strength selection actuated by thumbturn.] Closers shall be provided for parallel arm installation using rigid steel main and secondary arm.

**CloserPlus Spring™ Arm

Door closers shall have built in door stop[and holder] effective at one point selected at installation, from 85° - 110° in five-degree increments. Door stop mechanism shall have a buffer spring that engages prior to the dead stop feature, reducing shock loads to the door and frame assembly. Door stop mechanism shall be reversible and attached to soffit plate. [Hold open mechanism shall have engage/disengage and strength selection actuated by thumbturn.] Closers shall be provided for parallel installation using rigid steel main and secondary arm.

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APPLICATIONS



Non-hold open arm shown

Regular Arm

This is the only pull-side application where a double lever arm is used. It is the most power-efficient application for a door closer. Sufficient frame, door and/or ceiling clearance must be considered.

Since the arm assembly projects directly out from the frame, this application may present an aesthetics issue or be prone to vandalism.

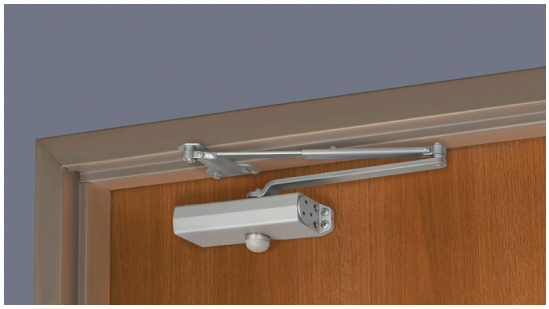


Non-hold open arm shown

Top Jamb

For efficiency reasons this application provides the best alternative to the regular arm application. There must be sufficient frame face and/or ceiling clearance for this application. It requires a top rail on the door of just 2-1/8" (54mm). This application provides the best door control for doors in exterior walls that swing out of a building.

The entire door closer and arm assembly project from the frame, similar to the regular arm application, where the matters of appearance and malicious abuse can be of concern. Consideration must be given to depth of the frame reveal.



Non-hold open arm shown

Parallel Arm

This application provides the most appealing design appearance for a surface-mounted door closer having a double lever arm. This may also be beneficial in vandalism-prone areas. It is on the push side of the door and the arm assembly extends almost parallel to the door. In the closed position, there is very little or no hardware projecting beyond the frame face in most situations.

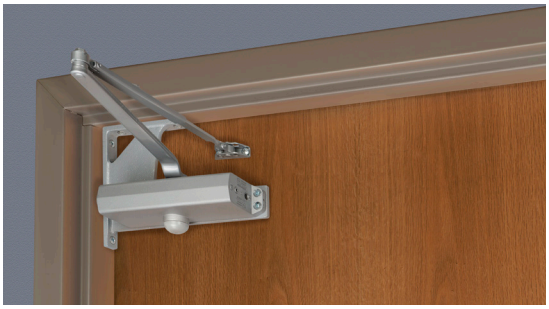
Due to the geometry of the arm it is approximately 25% less power-efficient than a regular arm application.

The entire closer and arm assembly are mounted below the frame stop, requiring a top rail clearance on the door of between 5-3/8" (137mm), when using a low-profile arm (1680 series), to 6-3/8" (162mm), when using the hold open arm.

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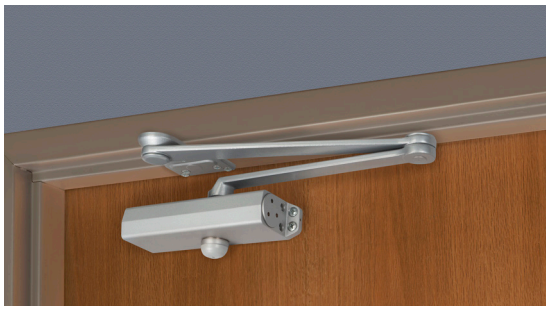
APPLICATIONS



Corner Bracket

This application can be used where top jamb and parallel arm application will not accommodate the door and frame conditions. Requires minimal top rail on the door; however, vertical clearance to the floor within the door opening should be checked to ensure code compliance.

The close proximity, for this application, of the door closer to the door's pivot point reduces the door closer's power efficiency by approximately 25% when compared to a regular arm. The projection of the arm from the door face might pose questions regarding design parameters or environment.

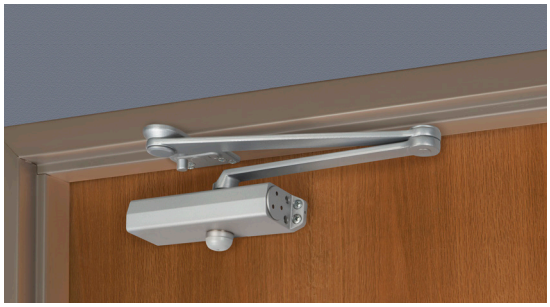


Non-hold open arm shown

Parallel Rigid Arm

An enhanced variation of the standard parallel arm assembly that is intended for use in heavy traffic areas where auxiliary door stops are installed.

Hold open arm available - specify hand when ordering.



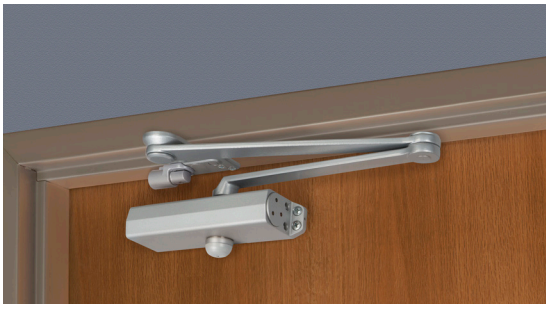
Non-hold open arm shown

CloserPlus® Arm

Similar to the Parallel Rigid arm, this arm incorporates a stop at the arm's soffit plate to dead stop the door at a predetermined degree of door swing between 85° and 110°, in 5° increments. Prior to dead stop the door closer's backcheck feature slows the door speed to reduce the impact of the stop action.

The CloserPlus Arm is intended for use where an auxiliary door stop cannot be utilized and no more than moderate abuse is anticipated. Where more extreme conditions are expected, use of a Unitrol® arm is recommended.

Hold open arm available; hold open tension is adjustable.



CloserPlus Spring™ Arm

This heavy-duty stop arm includes all the features of the *CloserPlus* arm, plus an added buffer spring that is compressed prior to the arm hitting the dead stop point. This greatly reduces the shock of the stopping action that occurs with the *CloserPlus* arm.

Thumbturn hold open is available.

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APPLICATIONS



Cushion Stop Arm

The Cushion Stop arm is designed to help protect the closer from damage in applications where an auxiliary stop cannot be used and moderate abuse is anticipated. Available for regular arm, non-hold open installations, this arm has a stop mounted on the arm elbow and allows the door to swing 85° to 110° based on template installation.



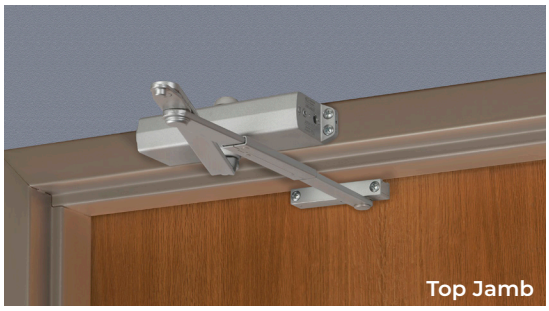
Unitrol® Arm

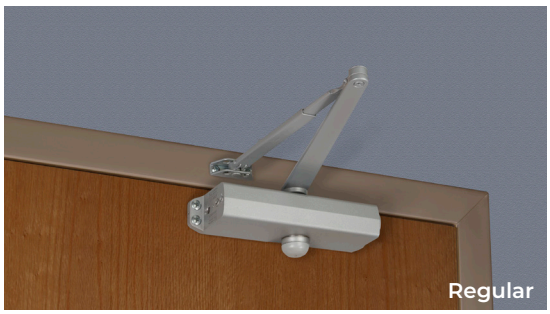
Can be used for either parallel arm or top jamb applications. *Unitrol* arms combine the features of a double lever arm overhead door stop/holder with the backcheck feature of the door closer to reduce door stopping shock loads to a minimum. The *Unitrol* uses a compression spring buffer at the soffit plate/arm shoe that will absorb 30 lbs. of force, 5° prior to the door's dead stop. Coupled with the door closer's backcheck feature, this arm provides the most controlled stop available with a surface door closer.

For parallel arm applications there are three different length arm assemblies. Each length is designed for a specific range of door widths, to provide precise door control. This further lessens the dead stop impact on the door's hinges/pivots.

Only available in painted finishes.

Specify depth of reveal when using top jamb mounting.





Low-Profile Arms

Supplied with series door closers for non-hold open installations only. Low-profile arms have a reduced height elbow joint and a straight main arm. This enables the door closer to be installed in less vertical space. Non-hold open function only.

Regular arm: allows closer to be installed where there is as little as 1" (25mm) of frame face or ceiling clearance. If installed top jamb, a 1687 drop plate is required. Order drop plate separately.

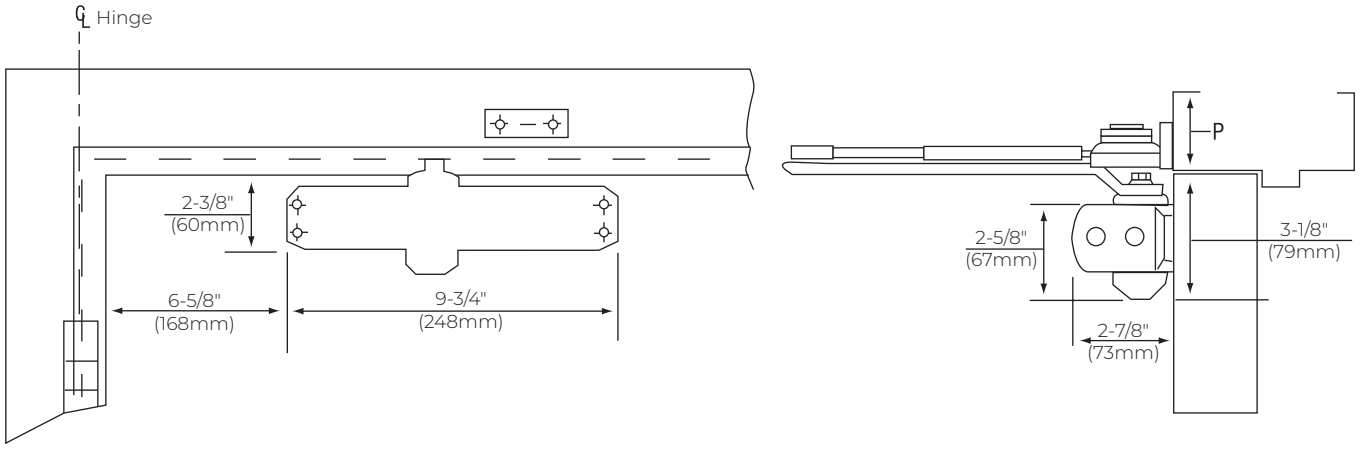


Parallel arm: allows closer to be installed 1/2" (13mm) higher up on door than standard parallel arm application. Prefix "P" to the catalog number; i.e., P1680BC, P1681.

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1600
ALUMINUM STOREFRONT DOOR CLOSER

REGULAR ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 9-1/16" (230mm) horizontally.

Maximum Door Size Inches (cm)		Model Number			
		Sized Closers		Multi-Sized Closers	
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
32" (81)	—	—	—	1601	1601H
38" (97)	30" (76)	1603BC	1603BCH		
42" (107)	36" (91)	1604BC	1604BCH		
48" (122)	42" (107)	—	—		
—	48" (122)	—	—		

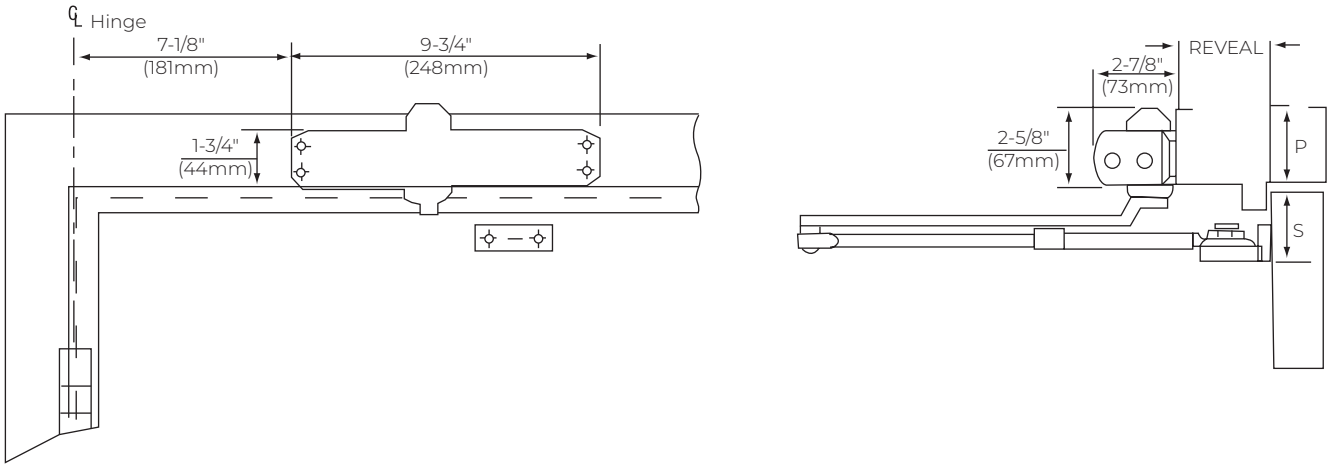
P Minimum Ceiling Clearance Inches/mm		
Non-Hold Open		Hold Open
1600BC/1601	1680BC/1681	1-5/8" (41)
1-1/2" (38)	1" (25)	

Notes:
1601 door closers are adjustable for sizes 1 through 6 and can be adjusted to conform to ADA opening force requirements.

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ALUMINUM STOREFRONT DOOR CLOSER

TOP JAMB



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 9-1/16" (230mm) horizontally.

Maximum Door Size Inches (cm)		Model Number			
		Sized Closers		Multi-Sized Closers	
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
32" (81)	—	—	—	1601	1601H
38" (97)	30" (76)	1603BC J1603BC J1683BC^	1603BCH J1603BCH		
42" (107)	36" (91)	1604BC J1604BC J1684BC^	1604BCH J1604BCH		
48" (122)	42" (107)	—	—		
—	48" (122)	—	—		

Notes:
1601 door closers are adjustable for sizes 1 through 6 and can be adjusted to conform to ADA opening force requirements.

^Narrow-profile arm closers can only be installed with 1687 drop plate. Order drop plate separately.

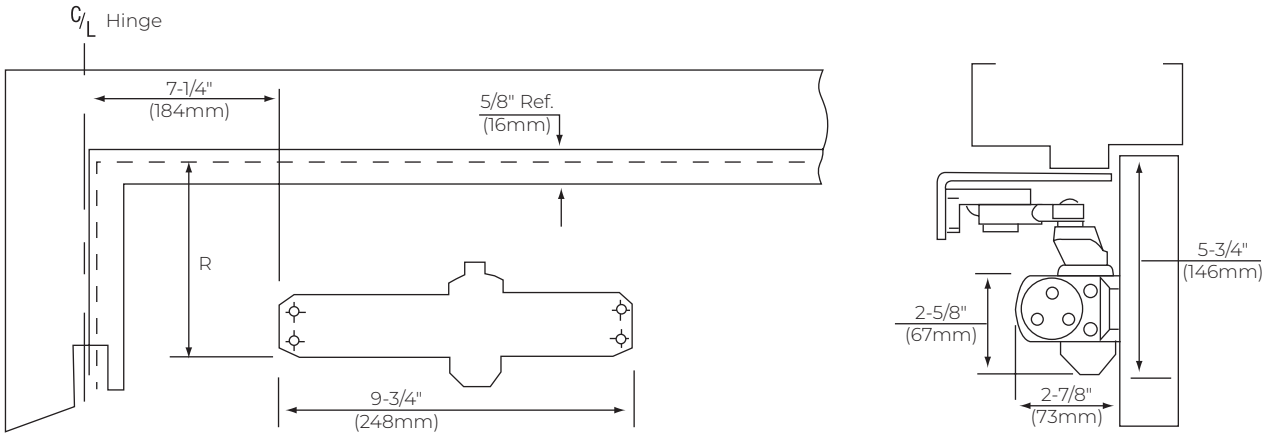
Non-hold open - use standard 1600 closer for frame reveals between 0"- to 3" (0-76mm). Use top jamb J1600 closer for frame reveals from 3" to 7" (76 to 178mm). Hold open use standard 1600H closer for frame reveals between 0" to 2-3/4" (0-70mm). Use top jamb J1600H closer for frame reveals from 2-3/4" to 6-3/4" (70 to 171mm).

P Minimum Ceiling Clearance		S Minimum Top Rail Clearance		
Without Drop Plate	With Drop Plate	Without Drop Plate	With 1687 Drop Plate	With 1688 Drop Plate
1600BC/1601	1600BC/1601 1680BC/1681	1600BC/1601	1600BC/1601	1600BC/1601 1680BC/1681
2-5/8" (67)	1-3/4" (44)	1-7/8" (48)	2-5/8" (67)	4" (102)

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1600
ALUMINUM STOREFRONT DOOR CLOSER

PARALLEL ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 9-1/16" (230mm) horizontally.

Maximum Door Size Inches (cm)		Model Number			
		Sized Closers		Multi-Sized Closers	
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
30" (76)	—	—	—	1601	1601H
36" (91)	30" (76)	P1603BC	P1603BCH		
42" (107)	36" (91)	P1604BC	P1604BCH		
48" (122)	42" (107)	—	—		
—	48" (122)	—	—		

Notes:
This door sizing information also applies to corner bracket mounted closers.

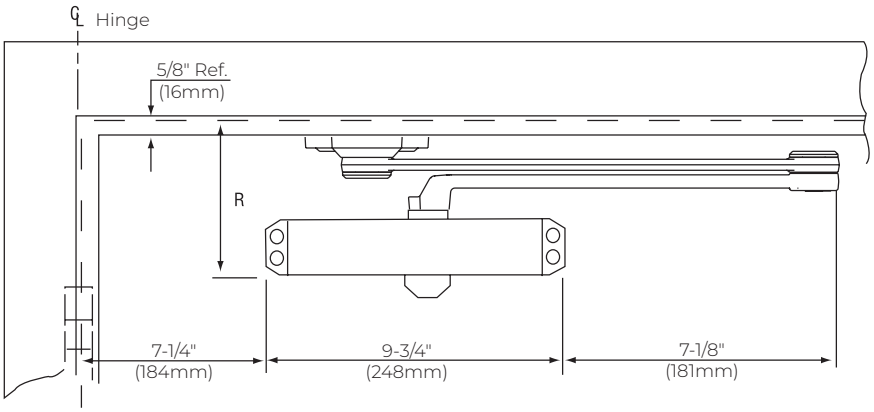
1601 door closers are adjustable for sizes 1 through 6 and can be adjusted to conform to ADA opening force requirements.

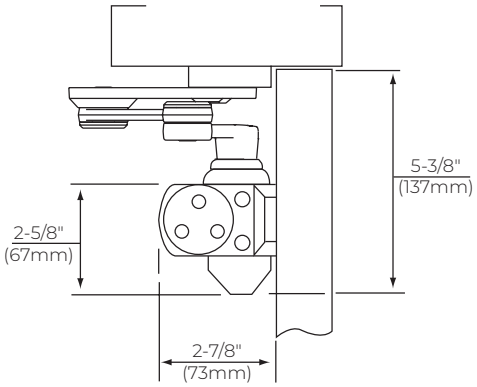
R Minimum Top Rail of Door with 5/8" (16mm) frame stop Inches/mm			
Without Drop Plate		With Drop Plate	
1600BC 1601	1680BC 1681	1600BC 1601	1680BC 1681
5" (127)	4" (102)	3-1/8" (79)	2-1/8" (54)

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1600
ALUMINUM STOREFRONT DOOR CLOSER

PARALLEL RIGID ARM





Mounting holes for closer body are spaced 3/4" (19mm) vertically x 9-1/16" (230mm) horizontally.

Door Size Wood or Metal Inches (cm)		Model Number			
		Sized Closers		Multi-Sized Closers	
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
28"-32" (71-81)	—	—	—	PR1601	PR1601H
33"-36" (84-91)	28"-32" (71-81)	PR1603BC	PR1603BCH		
37"-42" (94-107)	33"-36" (84-91)	PR1604BC	PR1604BCH		
43"-48" (109-122)	37"-42" (94-107)	—	—		
—	43"-48" (109-122)	—	—		

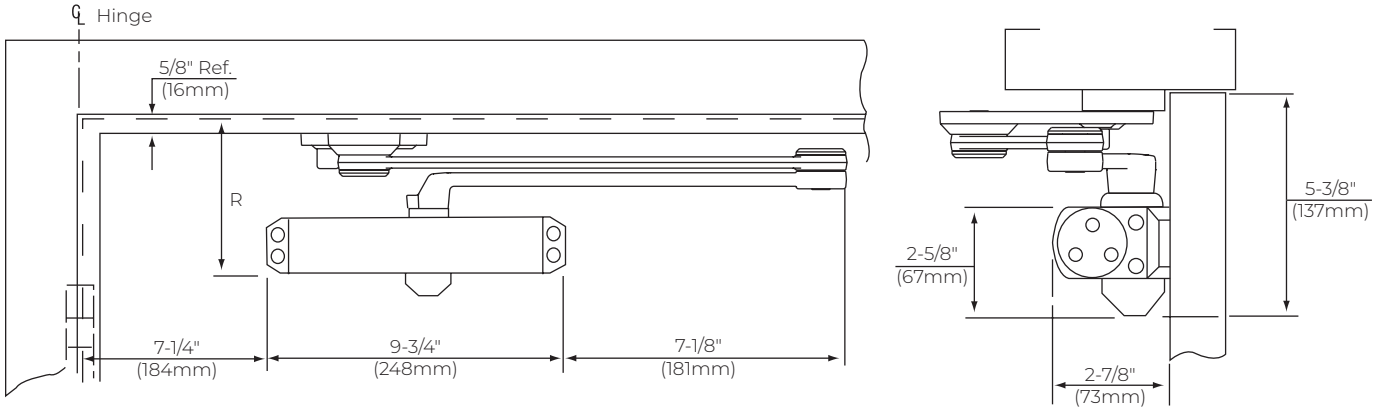
Notes:
1601 door closers are adjustable for sizes 1 through 6 and can be adjusted to conform to ADA opening force requirements.

R Minimum Top Rail of Door with 5/8" (16mm) frame stop	
Without Drop Plate	With Drop Plate
4-1/2" (114)	2-5/8" (67)

NORTON RIXSON
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1600
ALUMINUM STOREFRONT DOOR CLOSER

CLOSERPLUS® ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 9-1/16" (230mm) horizontally.

Door Size Wood or Metal Inches (cm)		Model Number			
		Sized Closers		Multi-Sized Closers	
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
28"-32" (71-81)	—	—	—	CLP1601	CLP1601T
33"-36" (84-91)	28"-32" (71-81)	CLP1603BC	CLP1603BCT		
37"-42" (94-107)	33"-36" (84-91)	CLP1604BC	CLP1604BCT		
43"-48" (109-122)	37"-42" (94-107)	—	—		
—	43"-48" (109-122)	—	—		

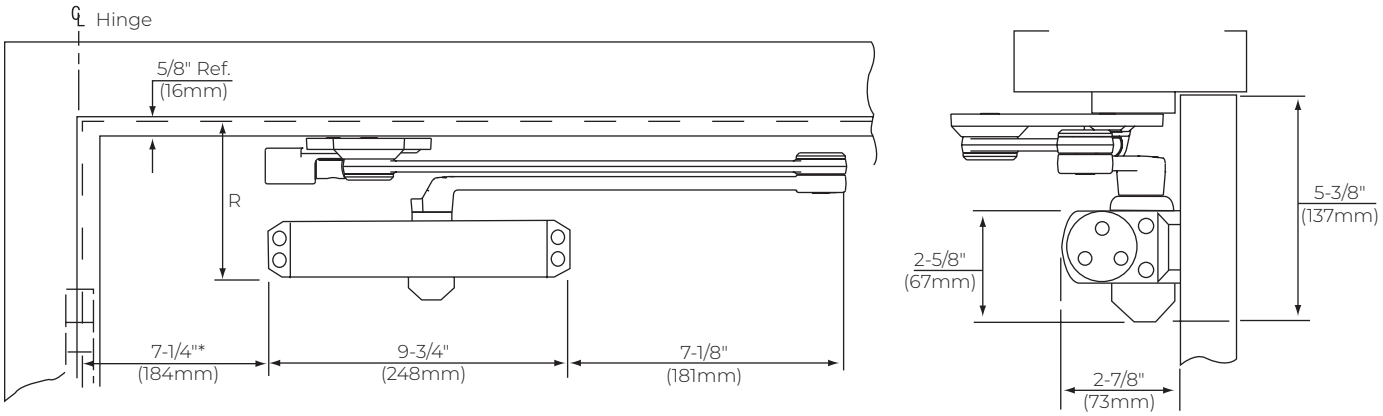
Notes:
1601 door closers are adjustable for sizes 1 through 6 and can be adjusted to conform to ADA opening force requirements.

R Minimum Top Rail of Door with 5/8" (16mm) frame stop	
Without Drop Plate	With Drop Plate
4-1/2" (114)	2-5/8" (67)

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1600
ALUMINUM STOREFRONT DOOR CLOSER

CLOSERPLUS SPRING™ ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 9-1/16" (230mm) horizontally.

Door Size Wood or Metal Inches (cm)		Model Number			
		Sized Closers		Multi-Sized Closers	
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
28"-32" (71-81)	—	—	—	CPS1601	CPS1601T
33"-36" (84-91)	28"-32" (71-81)	CPS1603BC	CPS1603BCT		
37"-42" (94-107)	33"-36" (84-91)	CPS1604BC	CPS1604BCT		
43"-48" (109-122)	37"-42" (94-107)	—	—		
—	43"-48" (109-122)	—	—		

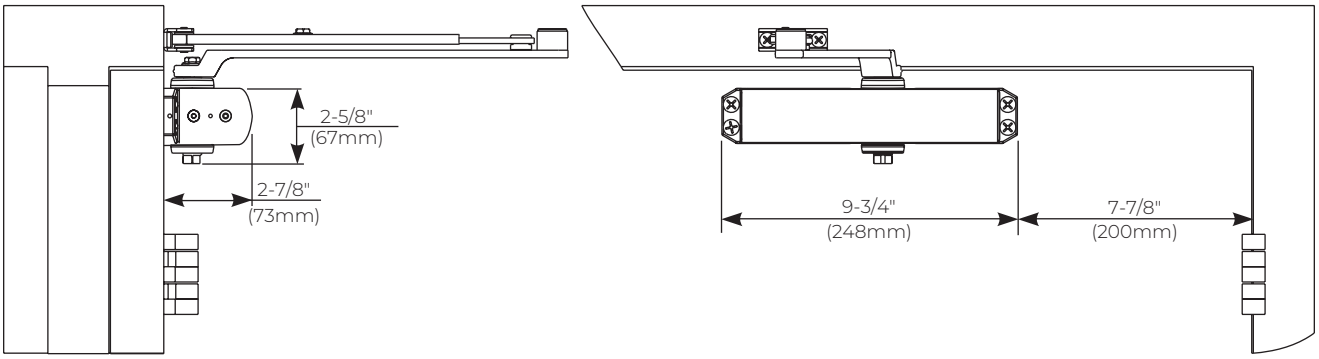
Notes:
1601 door closers are adjustable for sizes 1 through 6 and can be adjusted to conform to ADA opening force requirements.

R Minimum Top Rail of Door with 5/8" (16mm) frame stop	
Without Drop Plate	With Drop Plate
4-1/2" (114)	2-5/8" (67)

NORTON RIXSON
ASSA ABLOY

1600
ALUMINUM STOREFRONT DOOR CLOSER

CUSHION STOP ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 9-1/16" (230mm) horizontally.

Maximum Door Size Inches (cm)		Model Number	
		Sized Closers	Multi-Sized Closers
Interior	Exterior	Non-Hold Open	Non-Hold Open
32" (81)	—	—	1601
38" (97)	30" (76)	1603BC	
42" (107)	36" (91)	1604BC	
48" (122)	42" (107)	—	
—	48" (122)	—	

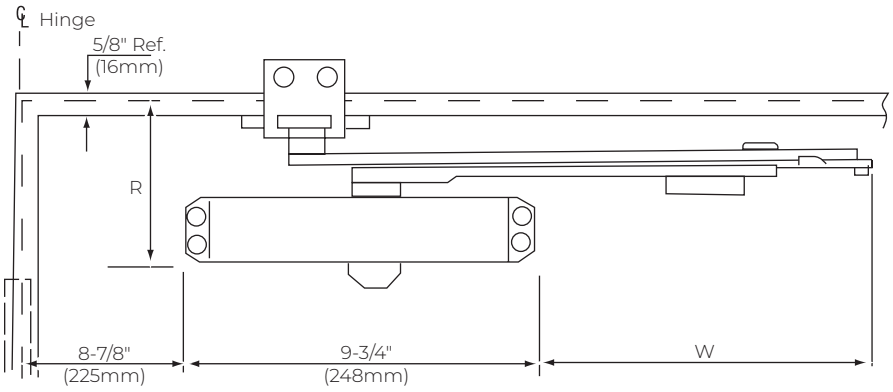
Notes:
1601 door closers are adjustable for sizes 1 through 6 and can be adjusted to conform to ADA opening force requirements.

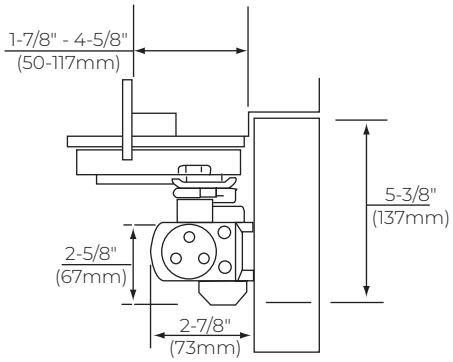
Minimum Ceiling Clearance Inches/mm
Non-Hold Open
1600BC/1601
1-1/2" (38)

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1600
ALUMINUM STOREFRONT DOOR CLOSER

PARALLEL UNITROL® ARM





Mounting holes for closer body are spaced 3/4" (19mm) vertically x 9-1/16" (230mm) horizontally.

Door Size Wood or Metal Inches (cm)		Model Number				
		Sized Closers		Multi-Sized Closers		
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open	
28"-32" (71-81)	—	—	—	UNI1601	UNI1601H	x Specify Door Width
33"-36" (84-91)	28"-32" (71-81)	UNI1603BC	UNI1603BCH			
37"-41" (94- 104)	33"-36" (84-91)	UNI1604BC	UNI1604BCH			
42"-48" (107-122)	37"-41" (94-104)	—	—			
—	42"-48" (107-122)	—	—			

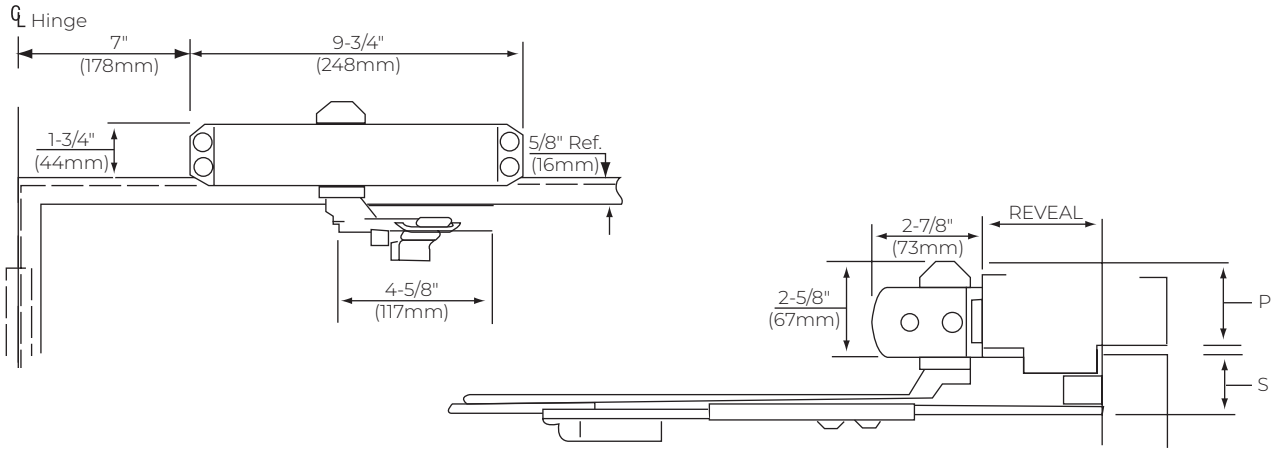
Notes:
1601 door closers are adjustable for sizes 1 through 6 and can be adjusted to conform to ADA opening force requirements.

Door Width	R Minimum Top Rail		W Arm Extension
	Without Drop Plate	With Drop Plate	
28"-32" (71- 81)	4-1/2" (114)	2-5/8" (67)	7" (178)
33"-41" (84- 104)			8-1/2" (216)
42"-48" (107- 122)			10" (254)

NORTON RIXSON
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1600
ALUMINUM STOREFRONT DOOR CLOSER

TOP JAMB UNITROL® ARM



Mounting holes for closer body are spaced 3/4" (19mm) vertically x 9-1/16" (230mm) horizontally.

Door Size Wood or Metal Inches (cm)		Model Number				
		Sized Closers		Multi-Sized Closers		
Interior	Exterior	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open	
28"-34" (71-86)	—	—	—	UNIJ1601	UNIJ1601H	x Specify Frame Reveal
35"-42" (89-107)	28-34 (71-86)	UNI1603BC	UNIJ1603BCH			
43"-48" (109-122)	35-42 (89-107)	UNI1604BC	UNIJ1604BCH			
49"-54" (124-137)	43-48 (109-122)	—	—			
—	49-54 (124-137)	—	—			

Notes:
1601 door closers are adjustable for sizes 1 through 6 and can be adjusted to conform to ADA opening force requirements.

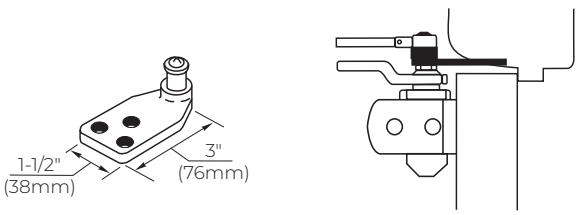
P Minimum Ceiling Clearance		S Minimum Top Rail Clearance	
Without Drop Plate	With Drop Plate	Without Drop Plate	With Drop Plate
2-5/8" (67)	1-3/4" (44)	2-3/8" (60)	3-1/8" (79)

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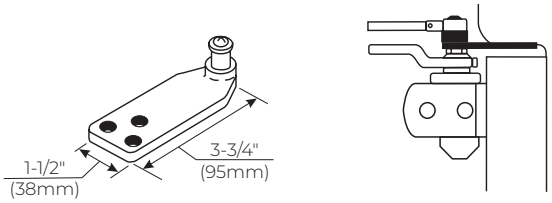
1600
ALUMINUM STOREFRONT DOOR CLOSER

REGULAR ARM

Brackets for Non-Hold Open Arms

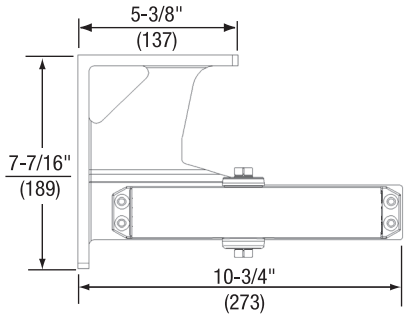


Molded/Bull Nose Trim - 2403B Bracket: For use where the door frame has molded or bull nose trim which will not accept a standard non-hold open shoe. The bracket is mortised into the frame rabbet, and projects beyond the face of the frame. It will accommodate a frame rabbet up to 2" (51mm) deep.



Molded/Bull Nose Trim - 2403-3/4 Bracket: This bracket is similar to-but longer than-the 2403B bracket. It is designed to accommodate frame rabbets from 2" to 2-7/8" (51 to 73mm) deep.

Corner Brackets for Closer Mounting

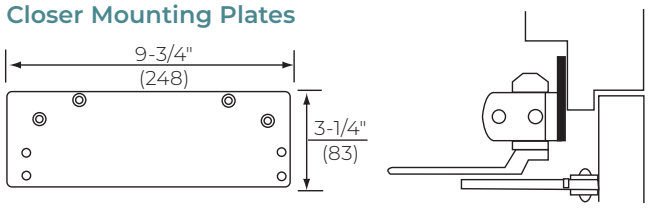


For Closer sizing information, use the Parallel Arm sizing chart on page 141.

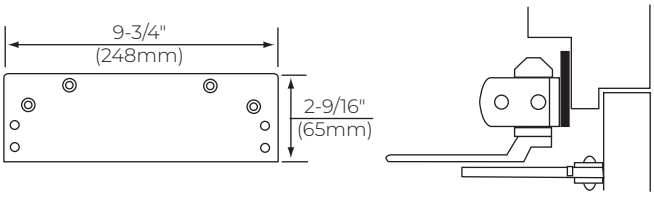
Mounting Opposite Hinge Side - 1647 Corner Bracket: For use where it is desired to mount the closer regular arm on the opposite to hinge side of the door. Can also be used to clear an overhead door holder.

TOP JAMB

Closer Mounting Plates



Overhead Door Holder - 1688 Drop Plate: For use where a overhead door holder prevents normal top jamb mounting. This places the center line of the arm mounting screws at 3-1/2" (89mm) from the top of the door.

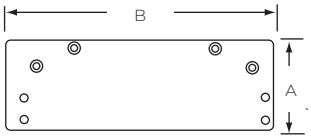


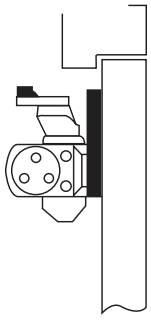
Low Ceiling Clearance - Overhead Door Holder - 1687 Drop Plate: For use where the ceiling clearance is between 1-3/4" and 2-5/8" (44 and 67mm). Or for use where an overhead door holder prevents normal top jamb mounting. This places the centerline of the arm mounting screws at 2-1/8" (54mm) from the top of door.

NORTON RIXSON
ASSA ABLOY

1600
ALUMINUM STOREFRONT DOOR CLOSER

PARALLEL ARM
Closer Mounting Plate



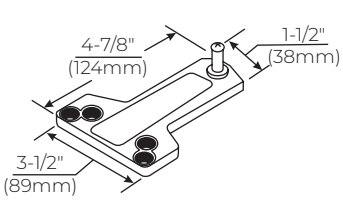


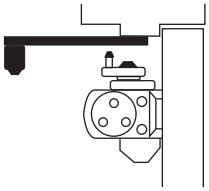
Note: 1688C – To be used when optional cover is specified.

Plate No.	Dimensions	
	A (width)	B (length)
1688	3-1/4" (83)	9-3/4" (248)
1688C	4-1/8" (105)	9-7/8" (251)

Narrow Top Rail - 1688 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 3-1/8" (79mm) in height for 1600BC or 2-1/8" (54mm) for 1680BC.

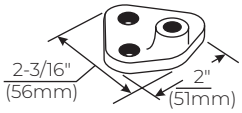
Brackets for Non-Hold Open Arms

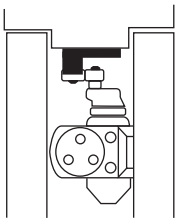




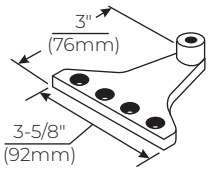
Standard Installation - 1618A Soffit Plate: This soffit plate is supplied standard with parallel arm closers. It can be mounted where the frame soffit is as narrow as 1" (25 mm).

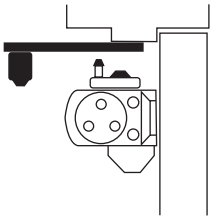
Specify 1618A-SS for stainless steel soffit plate: With Series P1600SS closers, a 1618A-SS soffit plate fabricated of stainless steel is supplied standard.



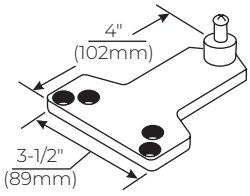


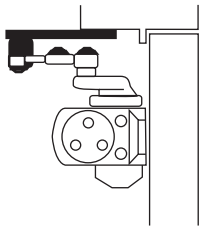
Mounting Between Doors - 2018 Soffit Bracket: For use where insufficient space between companion doors does not permit use of other soffit plates. This bracket permits mounting of the closer between doors with as little as 3" (76mm) of header space. Permits closer arm to clear up to 5/8" (16mm) high stop.





Narrow Frame/Removable Stop - 2018B Soffit Plate: For use where a narrow frame or frame with removable stop does not permit use of the standard soffit plate. This soffit plate may be mounted on the frame soffit or the frame rabbet where the stop does not exceed 5/8" (16mm) in height. All of the screw holes are in a straight line, requiring as little as 1-1/4" (32mm) of frame reveal to mount bracket and maintain good closer arm geometry. Where the frame soffit is as wide as 2" (51mm), this soffit plate may be used to clear weather-stripping that is up to 1-3/8" (35mm) wide and 5/8" (16mm) in height.



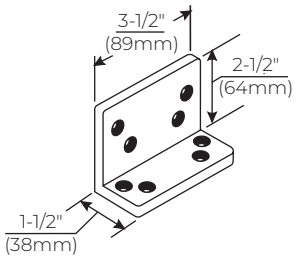


Blade/Applied Stop - 2018D Soffit Plate: For use where a blade or applied stop does not permit installation of the standard soffit plate. Mounts to either the frame soffit or rabbet. Since this soffit plate projects 7/8" (22mm) less than a standard soffit plate, it requires a minimum frame reveal of 1-1/2" (38mm). Permits closer to clear up to a 5/8" (16mm) high frame stop.

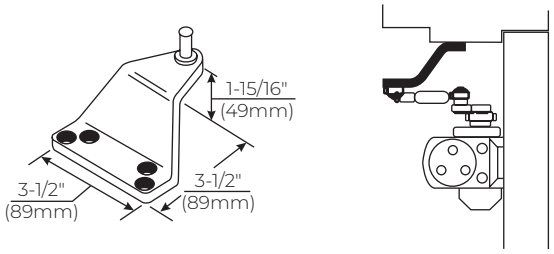
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PARALLEL ARM

Brackets for Non-Hold Open Arms (continued)



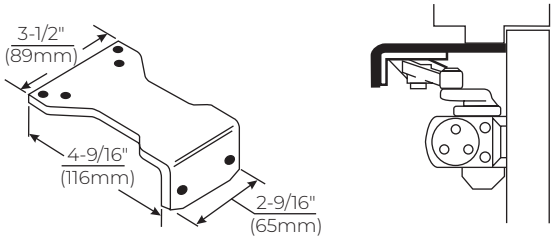
Flush Transom - 2022 Angle Bracket: For use where rabbeted or flush transom conditions prevent installation of a soffit plate. Used in combination with the 1618A soffit plate, or may be used in combination with the 2018S soffit plate when it is necessary for the closer arm to clear a separate overhead door holder.



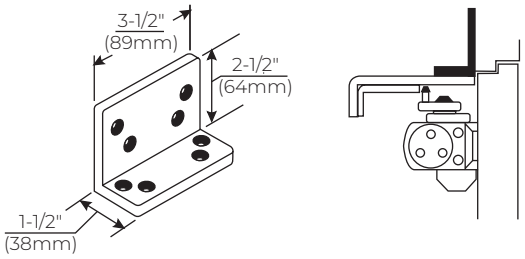
Extra-Clearance - 2018S Offset Soffit Plate: For use where the need for additional clearance prevents use of the standard soffit plate. This plate mounts to the frame soffit to provide up to 2" (51mm) of clearance when a separate overhead door holder is used.

Standard mounting requires a 2-5/8" (67mm) wide frame soffit. It may also be used where unusually high frame stops or weatherstripping prevents the use of other soffit plates.

Brackets for Hold Open Arms



Parallel Hold Open - 1628H Adapter Plate: This Adapter Plate is supplied standard with all parallel arm hold open closers. It can also be used to convert regular arm or top jamb hold open arms to parallel arm installation. It can be mounted where the frame soffit is as narrow as 1" (25mm).



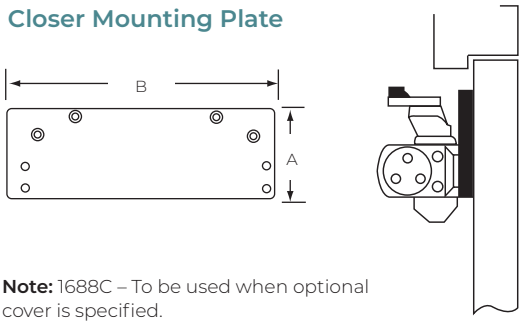
Flush Transom Hold Open - 2022 Angle Bracket: For use where rabbeted or flush transom conditions prevent installation of the standard 1628H hold open adapter plate. It is used in combination with the 1628H adapter plate.

NORTON RIXSON
ASSA ABLOY

1600
ALUMINUM STOREFRONT DOOR CLOSER

PARALLEL RIGID ARM

Closer Mounting Plate

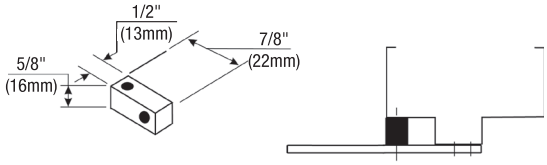


Note: 1688C – To be used when optional cover is specified.

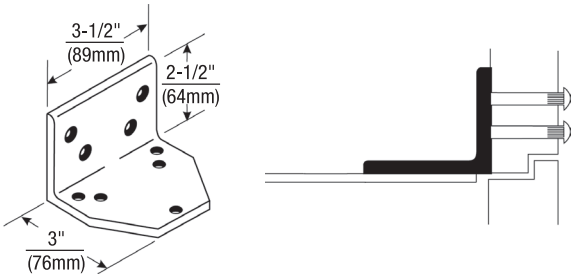
Plate No.	Dimensions	
	A (width)	B (length)
1688	3-1/4" (83)	9-3/4" (248)
1688C	4-1/8" (105)	9-7/8" (251)

Narrow Top Rail - 1688 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-5/8" (67mm) in height.

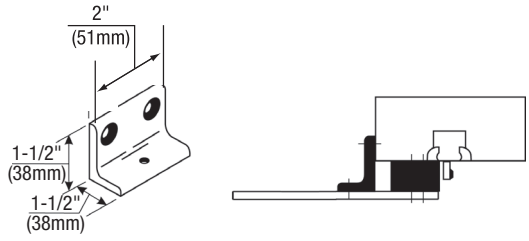
Brackets for Non-Hold Open Arms & Hold Open Arms



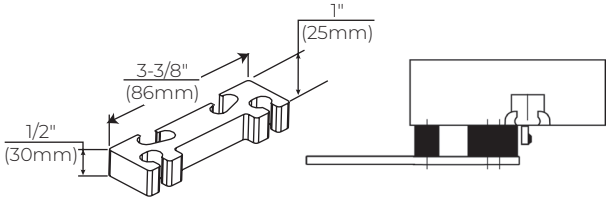
Standard - 2019S Spacer Block: For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all Parallel Rigid arm closers. For use on frame with either 1/2" (13mm) or 5/8" (16mm) high frame stop.



Flush Rabbeted Transom - 2019L Angle Bracket: For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the arm's soffit plate.



Narrow Frame - 6890 Support Bracket: For use where the frame is narrow and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the 6891 Spacer Block on blade stop frames to provide extra support and needed clearance of the blade stop. Used on frame where frame stop does not exceed 5/8" (16mm) in height.

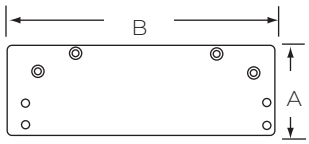


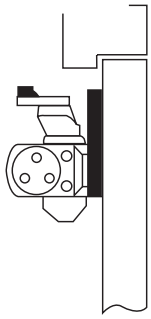
Clearance/Support Blade Stop - 6891 Spacer Block: For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard 2019S Spacer Block to provide clearance of the blade stop. For clearance of 5/8" (16mm) high-frame stop.

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CLOSERPLUS® AND CLOSERPLUS SPRING™ ARMS

Closer Mounting Plate



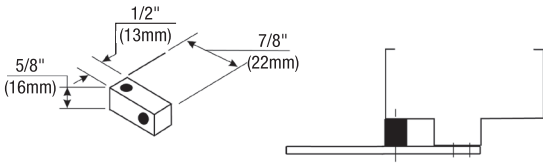


Note: 1688C - To be used when optional cover is specified.

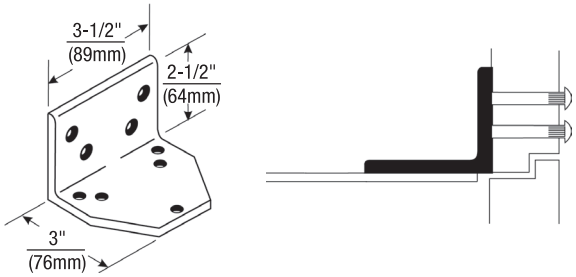
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Narrow Top Rail - 1688 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-5/8" (67mm) in height.

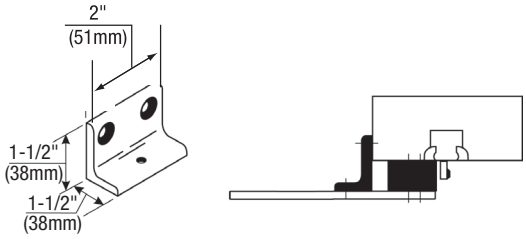
Brackets for Non-Hold Open Arms & Hold Open Arms



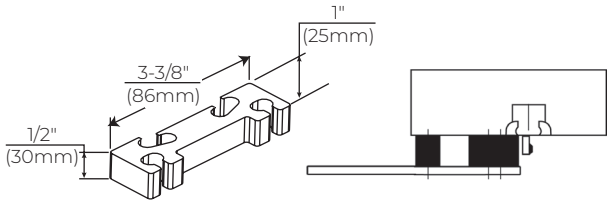
Standard - 2019S Spacer Block: For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all Parallel Rigid arm closers. For use on frame with either 1/2" (13mm) or 5/8" (16mm) high frame stop.



Flush Rabbeted Transom - 2019L Angle Bracket: For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the arm's soffit plate.



Narrow Frame - 6890 Support Bracket: For use where the frame is narrow and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the 6891 Spacer Block on blade stop frames to provide extra support and needed clearance of the blade stop. Used on frame where frame stop does not exceed 5/8" (16mm) in height.



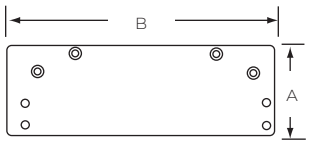
Clearance/Support Blade Stop - 6891 Spacer Block: For use where the door frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard 2019S Spacer Block to provide clearance of the blade stop. For clearance of 5/8" (16mm) high-frame stop.

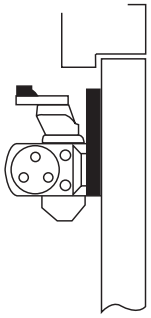
NORTON RIXSON
ASSA ABLOY

1600
ALUMINUM STOREFRONT DOOR CLOSER

UNITROL® ARM

Closer Mounting Plate (for Parallel Arm)



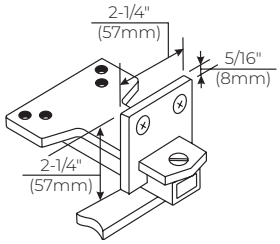


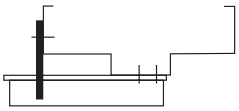
Note: 1688C – To be used when optional cover is specified.

Plate No.	Dimensions	
	A (width)	B (length)
1688	3-1/4" (83)	9-3/4" (248)
1688C	4-1/8" (105)	9-7/8" (251)

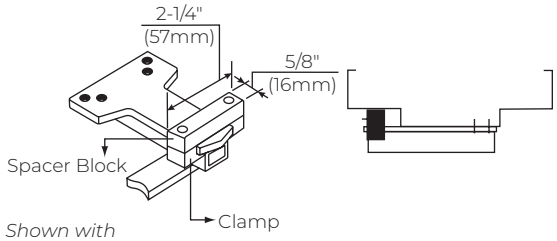
Narrow Top Rail - 1688 Drop Plate: For use where a narrow top rail prevents the closer from being mounted directly to the door surface. This drop plate can be used to mount a closer on a top rail as narrow as 2-5/8" (67mm) in height.

Soffit Plate Reinforcing Brackets (for Parallel Arm)



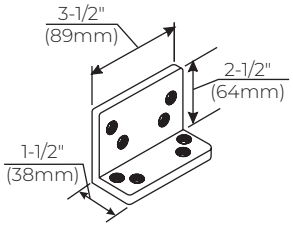


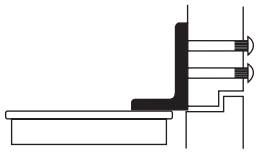
Additional Support - 6190 Reinforcing Bracket: Standard for use with all Unitrol parallel arms. Provides additional support to the soffit plate on installations with door frame reveals from 1-7/8" to 4-5/8" (48 to 117mm).



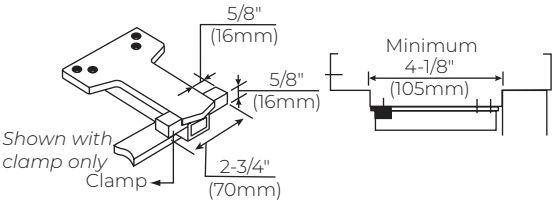
Shown with spacer block and clamps

Wide Frame - 6191 Reinforcing Kit: Optional for use with all Unitrol parallel arms. Used to support the soffit plate on installations with deep frames. Clamps may be used with or without the spacer block, depending on frame conditions.

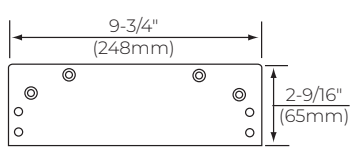


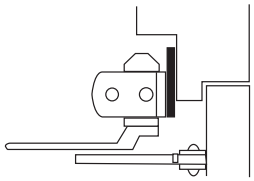


Flush Rabbeted Transom - 2022 Angle Bracket: Optional for use with all Unitrol parallel arms. For use where rabbeted or flush transom conditions prevent installation of the soffit plate assembly. This bracket fastens to the overhead transom to provide a mounting surface for the soffit plate assembly.



Closer Mounting Plate (for Top Jamb)

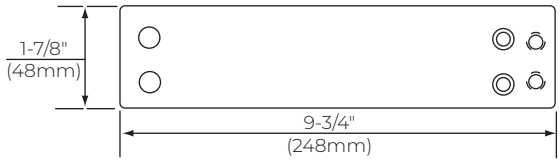




Low Ceiling Clearance - 1687 Drop Plate: For use where the ceiling clearance is between 1-3/4" and 2-5/8" (44 and 67mm). This places the centerline of the arm mounting screws at 2-5/8" (67mm) from the top of door.

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SPECIAL ACCESSORIES



1699 Adapter Plate: Converts old 1602/1603 closer installations with 3/4" (19mm) x 8-3/16" (208mm) - spacing to new 1603 using existing mounting holes in door or frame.

NORTON RIXSON
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1600
ALUMINUM STOREFRONT DOOR CLOSER

PARTS

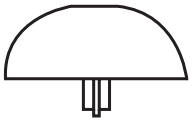
Body Only (Standard)	
160*BCLAP	Sized closer
1601LAP	Multi-sized
1601SSLAP	Stainless steel

Note: Mounting hardware included with all parts orders.

LAP = less all parts

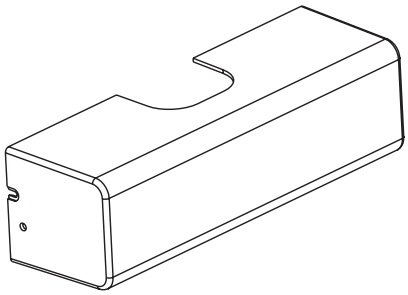
* Specify closer size 3 or 4. Pinion cap and mounting screws supplied.

1639 Pinion Cap



Optional Cover - 1600P

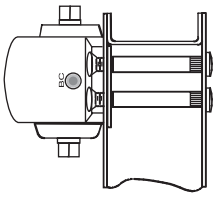
For regular arm and parallel arm applications. 2-7/8" (73mm) height x 3-1/6" (78mm) deep x 9-7/8" (251mm) long. To order with closer use "P" suffix; i.e. 1604BCP.



Steel Door Application

Sex-nut / sleeve-nut : "SN" (4 per pack) or

Sex-nut / sleeve-nut & screw: "SNB" (4 per pack)

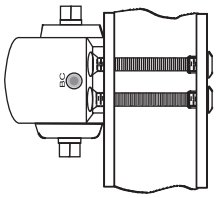


Door	SN's	SNB's
1-3/4"	SN-134	SNB134-38
2"	N/A	SNB200-38
2-1/4"	SN-214	SNB214-38
S.S. SNB's 1-3/4"	SN-134SS	SNB134SS-38

Aluminum and Wood Door Application

(Aluminum door shown)

Thru bolt & grommet nut : "TBGN" (4 per pack)

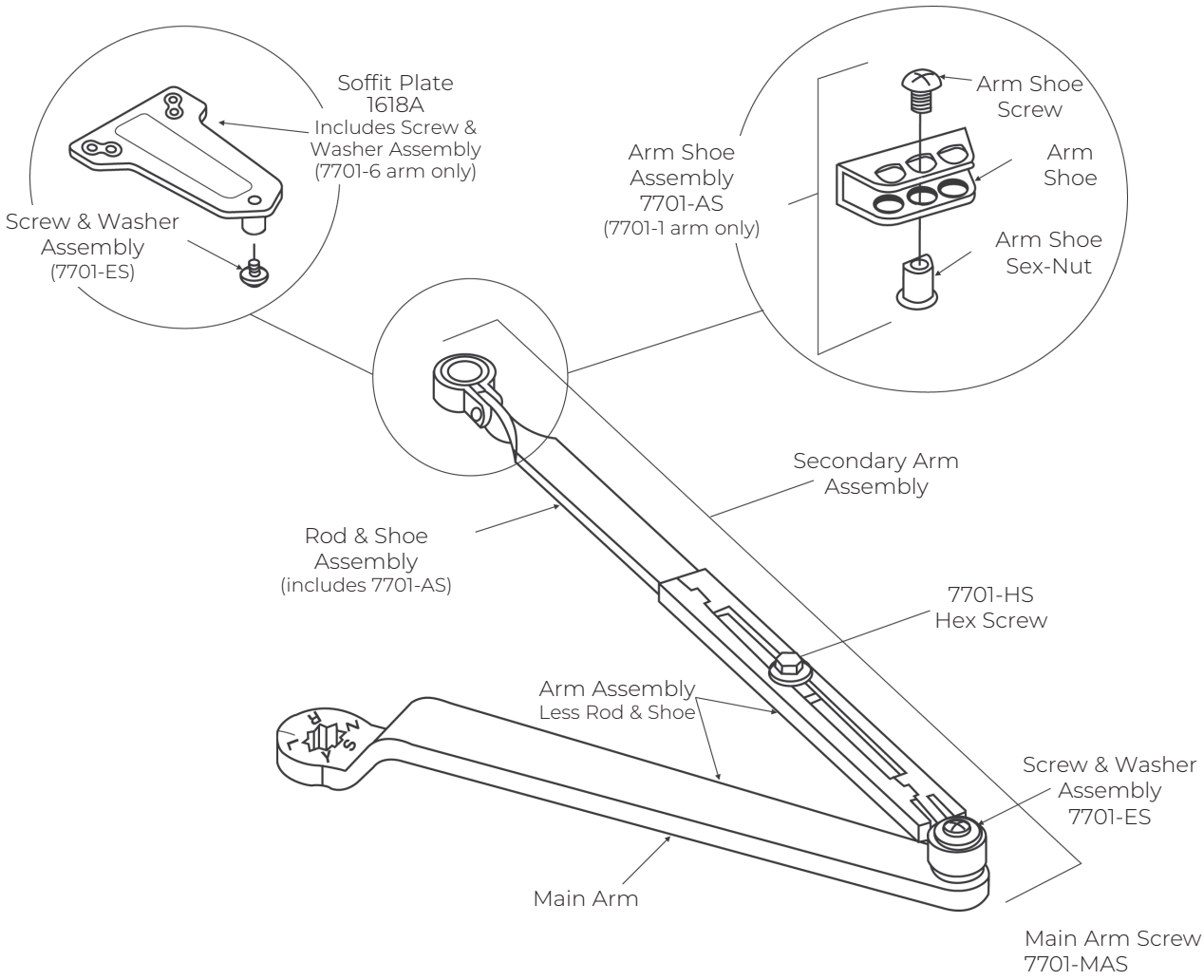


Door	TBGN's
1-3/8"	TBGN138-38
1-3/4"	TBGN134-38

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1600
ALUMINUM STOREFRONT DOOR CLOSER

NON-HOLD OPEN ARM ASSEMBLIES



Note: Mounting hardware included with all parts orders.

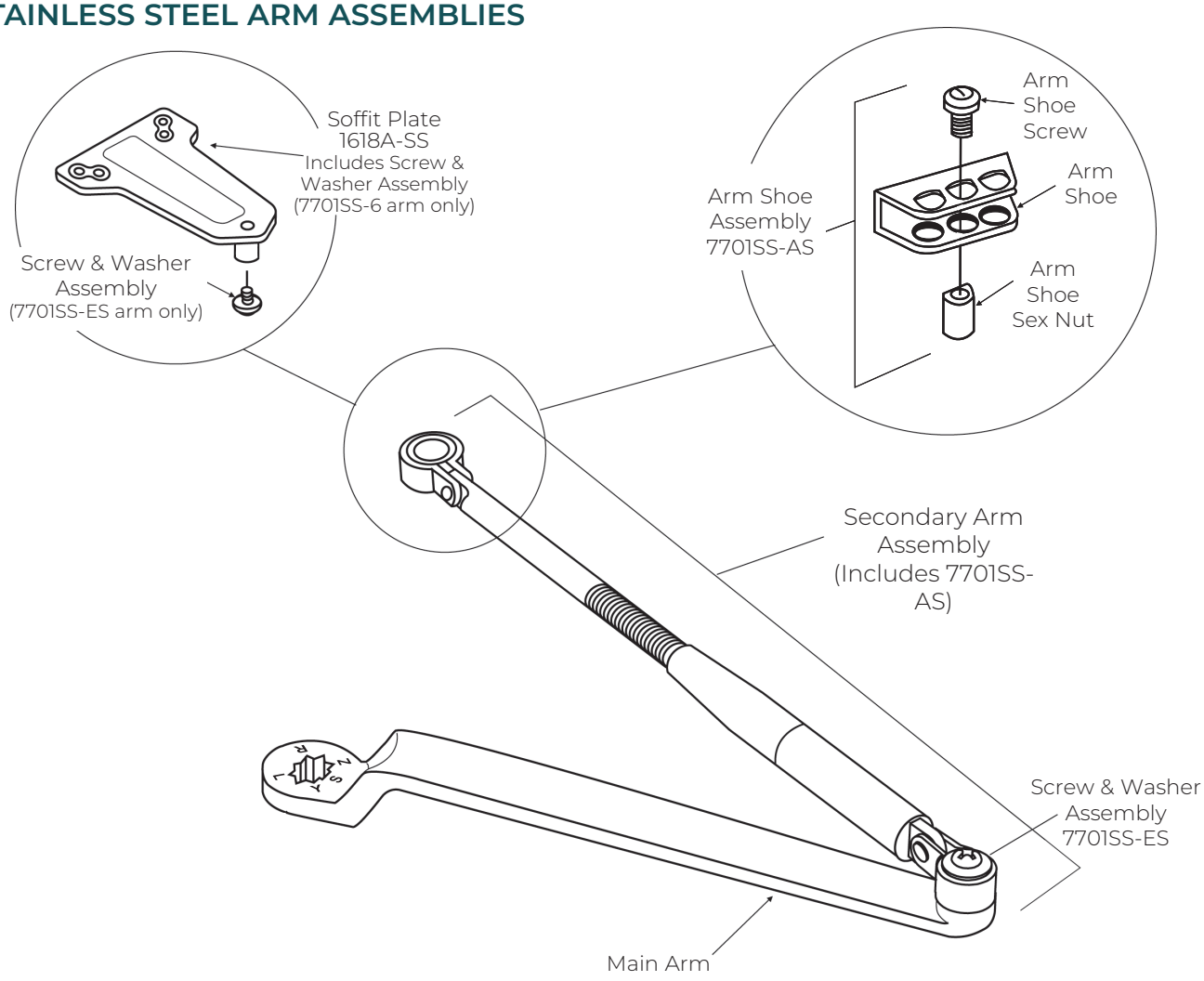
Closer Series	Complete Arm Assembly	Main Arm Assembly[1] (length)(mm) (includes 7701-ES)	Secondary Arm Assembly (includes 7701-ES)	Arm Assembly Less Rod and Shoe	Rod & Shoe[2] Assembly (length)(mm)
1600BC/1601	7701-1	7701-1M (11)(279)	7701-111	7701-1W	7701-11 (8-7/8)(225)
J1600BC/J1601	7701-1A		7701-121		7701-11A (12-1/2)(318)
P1600BC/P1601	7701-6		7701-116		7701-16 (8-7/8)(225)
P1600BC/P1601[3]	7701-6A		7701-116A		7701-16A (12-1/2)(318)
1600BC/1601	7701-26 (Tri-Style® includes 7701-1 plus 1618A plate)				

1. C to C length shown in parentheses.
2. C of connecting link to end of rod shown in parentheses.
3. For 180° door swing when using a special template for doors hung on 6" to 8" (162 to 203mm) wide throw hinges.

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ALUMINUM STOREFRONT DOOR CLOSER

STAINLESS STEEL ARM ASSEMBLIES

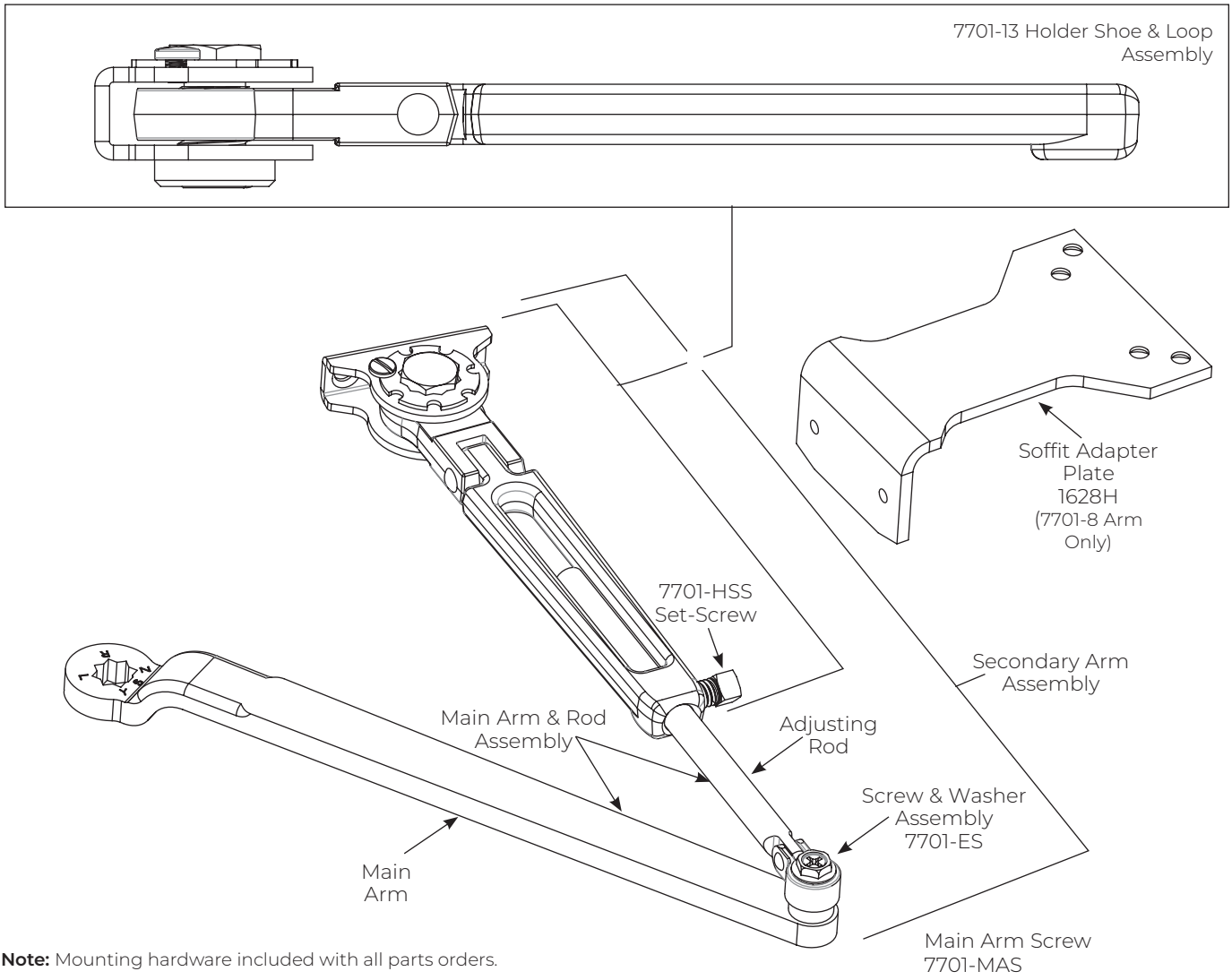


Note: Mounting hardware included with all parts orders.

Model	Complete Arm Assembly	Main Arm Assembly[1] (length)(mm) (includes 7701SS-ES)	Secondary Arm Assembly (includes 7701SS-ES)
1601SS	7701SS-1	7701SS-1M (11) (279)	7701SS-111 (8-7/8)(225)
J1601SS	7701SS-1A		7701SS-121 (12-1/2)(318)
P1601SS	7701SS-6		7701SS-116 (8-7/8)(225)

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HOLD OPEN ARM ASSEMBLIES



Note: Mounting hardware included with all parts orders.

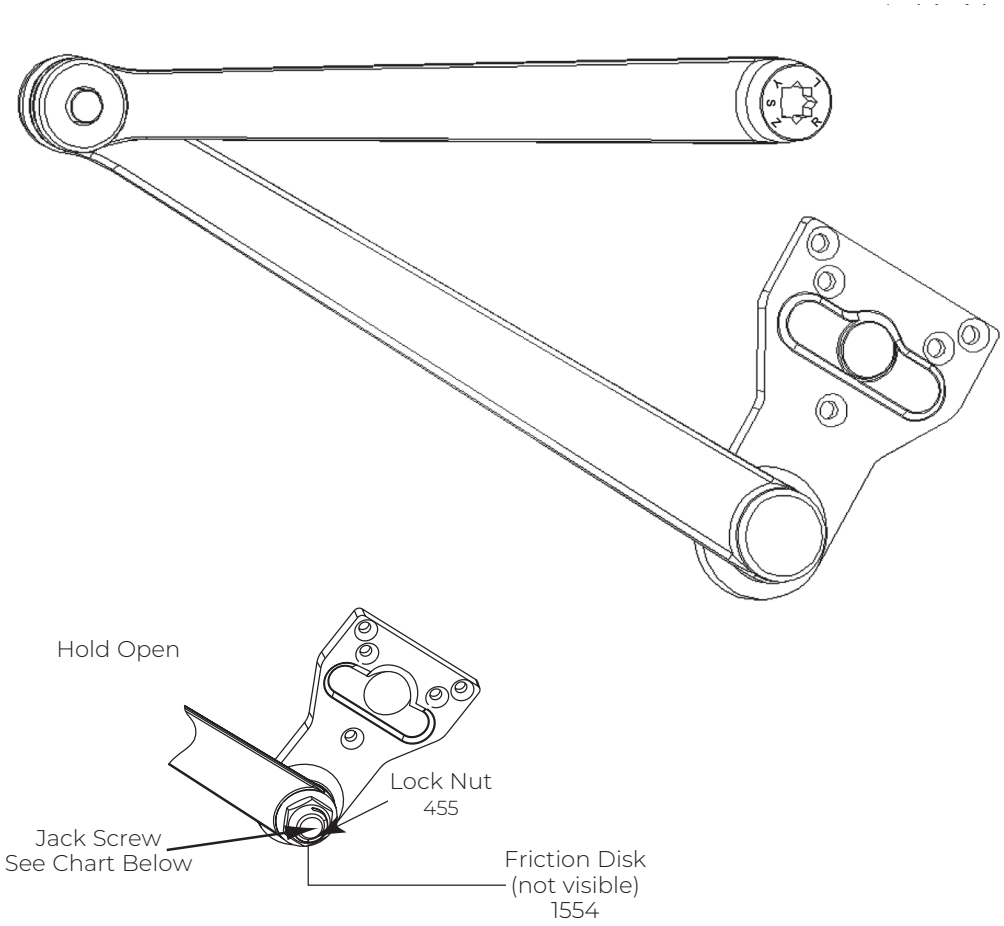
Closer Series	Complete Arm Assembly	Main Arm[1] (Length)(mm) (includes 7701-ES)	Secondary Arm (includes 7701-ES)	Main Arm & Rod Assembly	Holder Shoe & Loop Assembly	Adjusting Arm[2] (Length)(mm)
1600BCH/1601H	7701-3/7701-8[3] Reg./Par.	7701-1M (11) (279)	7701-113/7700-118 Reg./Par.	7701-3W	7701-13/7701-18[4] Reg./Par.	7701-31 (7-3/8) (187)
J1600BCH/J1601H	7701-3A		7701-123	7701-3WA		7701-31A (10-13/16) (275)

1. C to C length shown in parentheses.
2. C of connecting link to end of rod shown in parentheses.
3. Same as 7701-3 but includes 1628H soffit adapter plate.
4. Same as 7701-13 but includes 1628H soffit adapter plate.

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PARALLEL RIGID ARM ASSEMBLIES

Non-Hold Open Arm



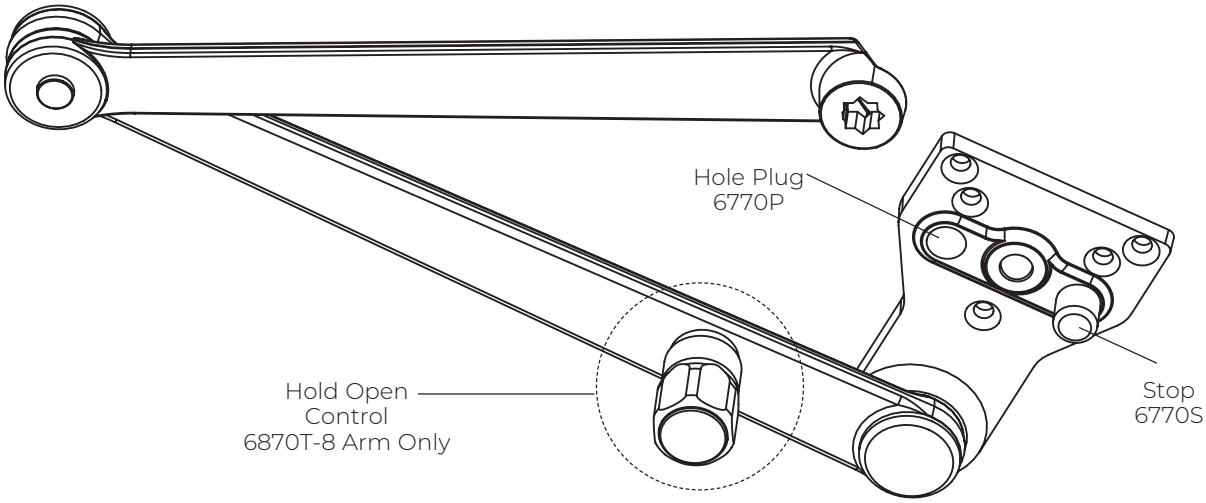
Note: Mounting hardware included with all parts orders.

Complete Arm Assembly	Arm Function	Jack Screw
PR7701-5	Non-hold open	N/A
PR7701-8R (right hand)	Hold open	1543R
PR7701-8L (left hand)		1543L

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CLOSERPLUS® ARM ASSEMBLIES

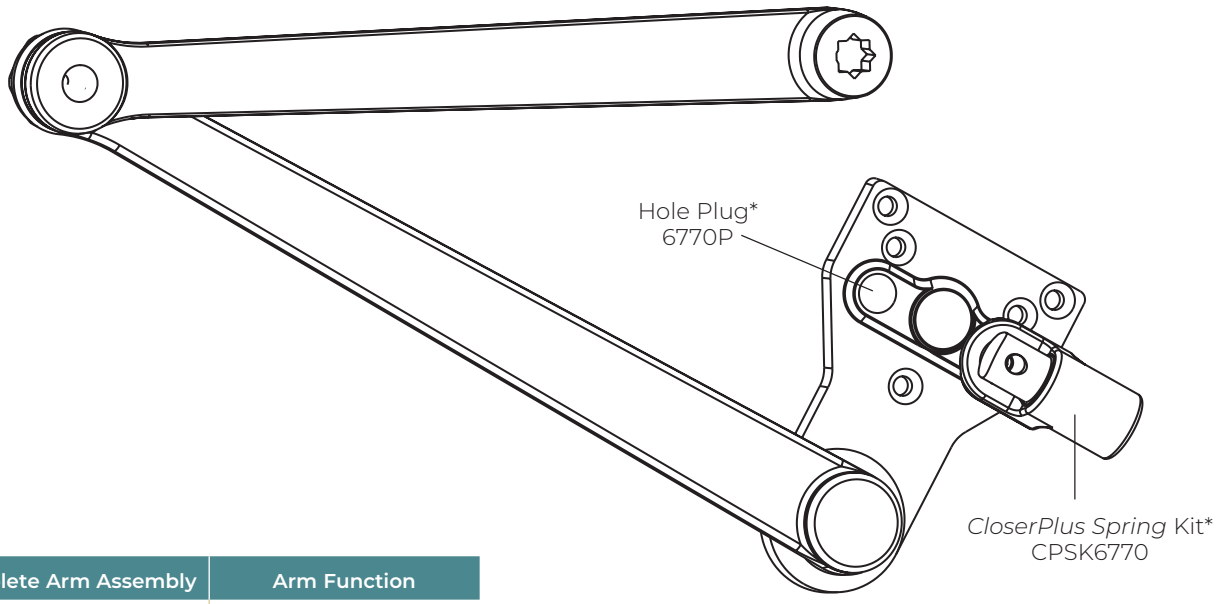
Hold Open Arm shown (CLP-T)



Complete Arm Assembly	Arm Function
6770-5	Non-hold open
6870T-8	Thumbturn hold open

Note: Mounting hardware included with all parts orders.

CLOSERPLUS SPRING™ ARM ASSEMBLIES



Complete Arm Assembly	Arm Function
CPS6770-5	Non-hold open
CPS6870T-8	Thumbturn hold open

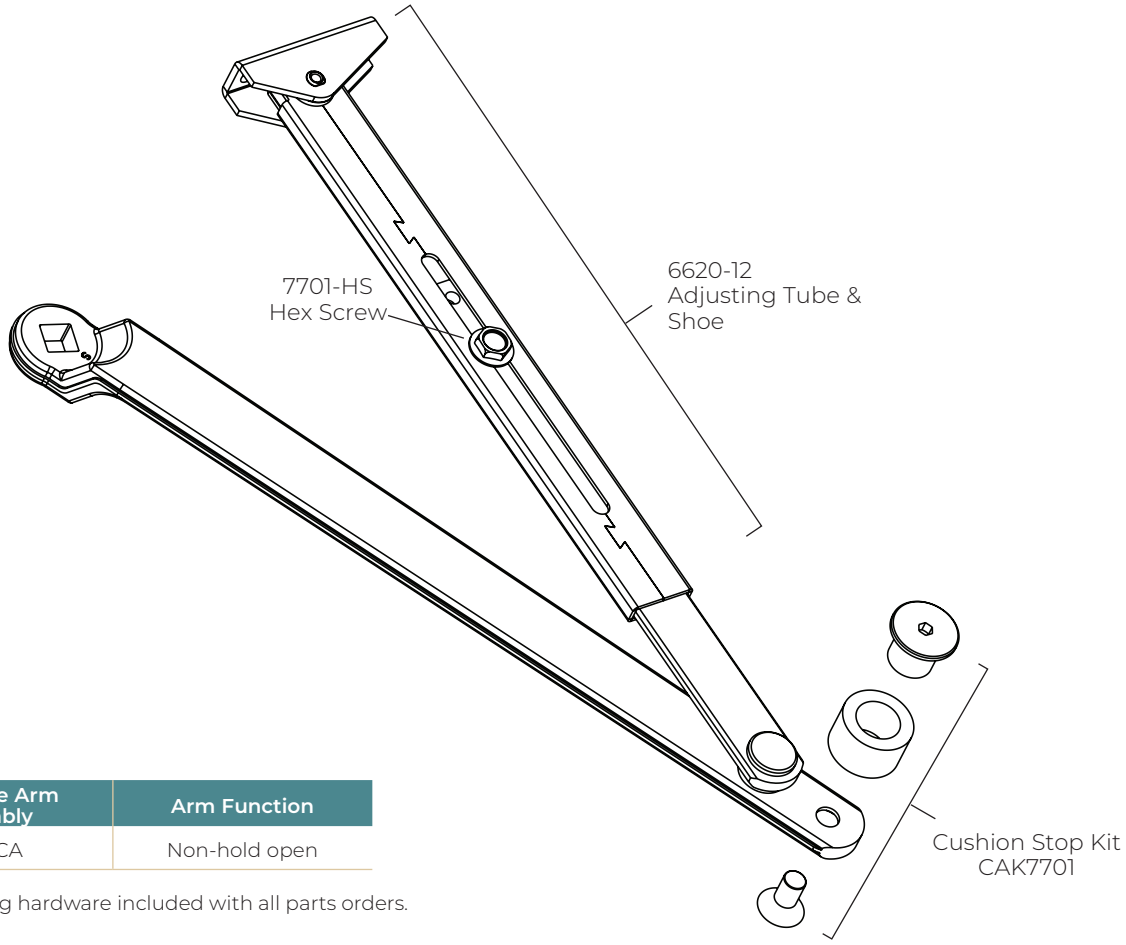
Note: Mounting hardware included with all parts orders.

* These parts and screw pack are included with complete arm assemblies.

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1600
ALUMINUM STOREFRONT DOOR CLOSER

CUSHION STOP ARM ASSEMBLIES



Complete Arm Assembly	Arm Function
7701-CA	Non-hold open

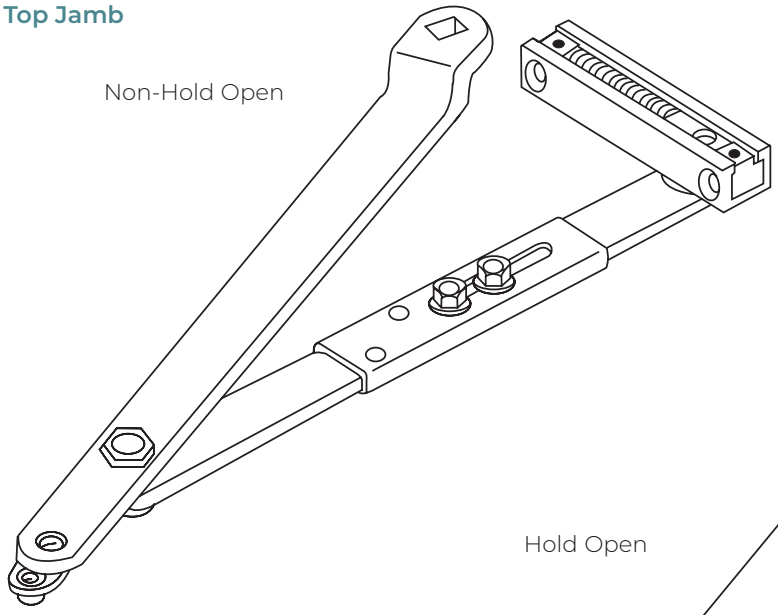
Note: Mounting hardware included with all parts orders.

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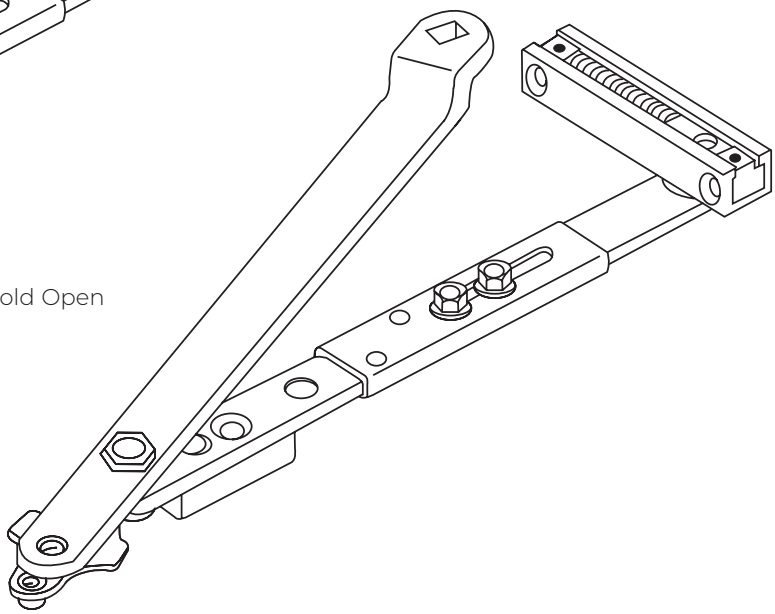
UNITROL® ARM ASSEMBLIES

Top Jamb

Non-Hold Open



Hold Open



Note: Mounting hardware included with all parts orders.

Complete Arm Assembly		
Non-Hold Open	Hold Open	For Frame Reveals (mm)
J6100-4	J6100-7	2-1/8" - 3-1/4" (54 - 83)
J6200-4	J6200-7	1/2" - 2" (13 - 51)
J6400-4	J6400-7	3-3/8" - 4-1/4" (86 - 108)
J6500-41	J6500-71	4-3/8" - 5-3/8" (111 - 137)
J6500-42	J6500-72	5-1/2" - 6-3/8" (140 - 162)
J6500-43	J6500-73	6-1/2" - 7-3/8" (165 - 187)
J6600-4	J6600-7	0 - 3/8" (0 - 10)

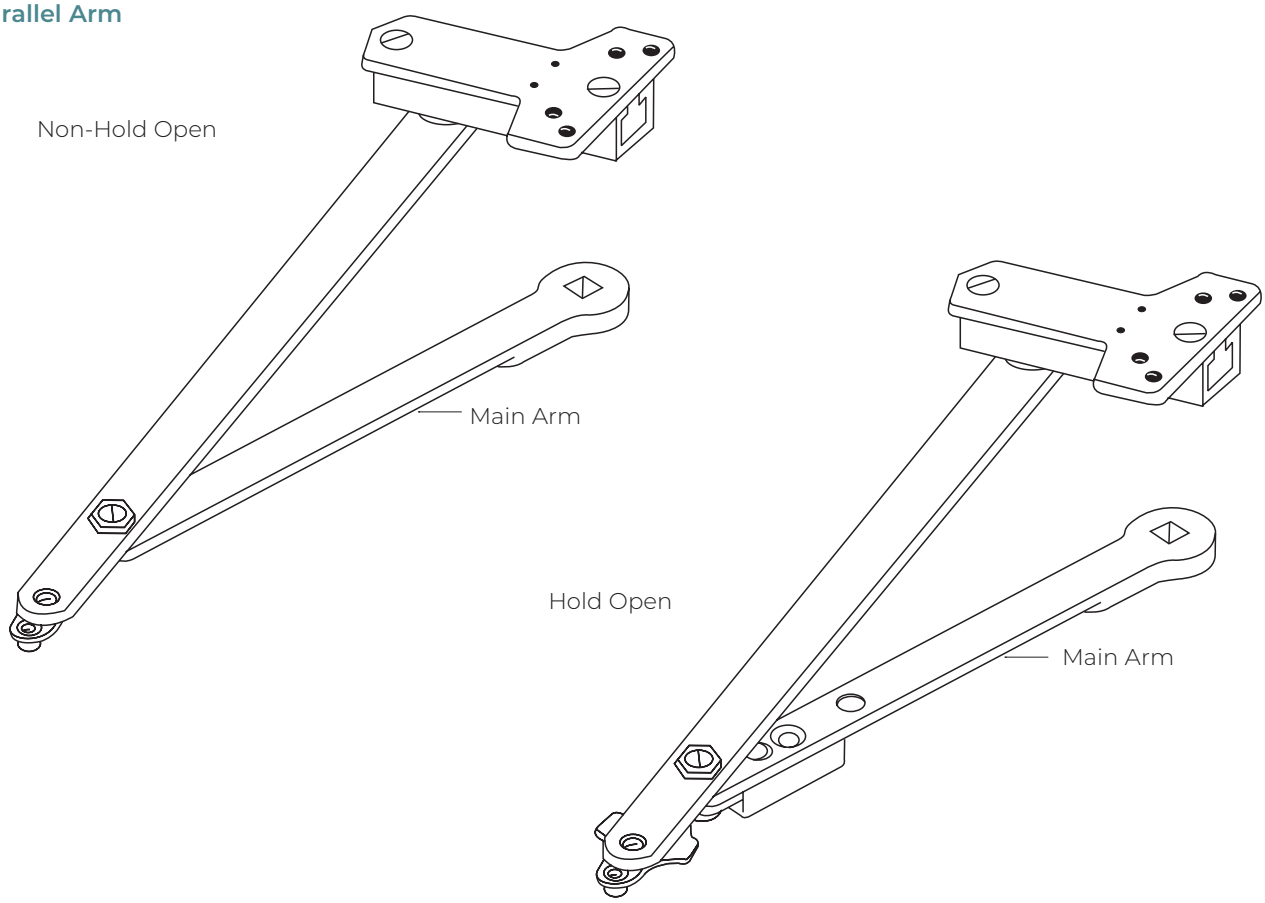
Only available in painted finishes.

NORTON RIXSON
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1600
ALUMINUM STOREFRONT DOOR CLOSER

UNITROL® ARM ASSEMBLIES

Parallel Arm



Note: Mounting hardware included with all parts orders.

Complete Arm Assembly			
Non-Hold Open	Hold Open	Door Width (cm)	Main Arm Length* (mm)
6100-11	6100-1	28" - 32" (71- 81)	9-1/2" (241)
6100-13	6100-3	33"- 41" (84 - 104)	11" (279)
6100-14	6100-4	42" - 48" (107 - 122)	12-1/2" (318)

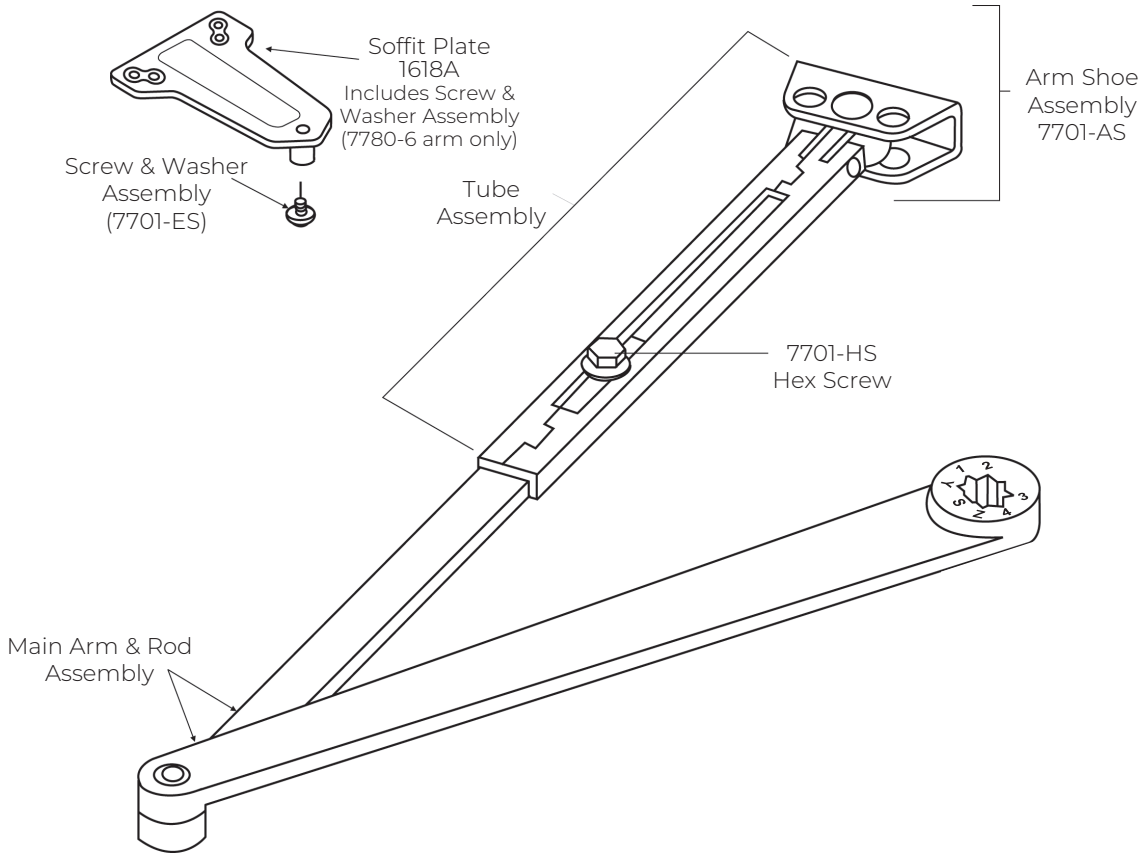
* Center to center length.

Only available in painted finishes.

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LOW PROFILE ARM ASSEMBLIES

Non-Hold Open Arm shown



Note: Mounting hardware included with all parts orders.

Arm Application	Complete Arm Assembly	Main Arm & Adjusting Rod Assembly	Tube & Shoe/Soffit Rod Assembly
Regular	7780-1	7780-1MR	7780-1TS (with 7701-AS)
Parallel	7780-6		7780-6TS (with 1618A)
Tri-Style®	7780-26		

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FASTENERS

Standard Fasteners	With Arms Specified Below					
	Regular Parallel & Top Jamb	Low Profile	Parallel Rigid (PR) CloserPlus (CLP) CloserPlus Spring (CPS)	Unitrol (UNI)	Unitrol-J (UNI-J)	Cushion Stop (CA)
Door						
Self drilling self tapping	S	S	S	S	S	S
Machine screw	S	S	S	S	S	S
Sleeve nut/sex nut			S	S	S	
Frame						
Self drilling self tapping	S	S	S	S	S	S
Machine screw	S	S	S	S	S	S

S = Standard
Fasteners are standard (included) with closer package.
Examples:
1601 includes self drilling, self tapping and machine screws
PR1601 includes self drilling, self tapping, machine screws and sleeve nut/sex nuts

Optional Fasteners	Description	With Arms Specified Below					
		Regular Parallel & Top Jamb	Low Profile	Parallel Rigid (PR) CloserPlus (CLP) CloserPlus Spring (CPS)	Unitrol (UNI)	Unitrol-J (UNI-J)	Cushion Stop (CA)
Door							
SN^	Sleeve nut/sex nut	O	O				O
TBGN^	Thru bolts & grommet nuts	O	O	O	O	O	O
SMS*	Sheet metal screws & machine screws	O	O	O	O	O	O
SSPxSMS	Standard screw pack & sheet metal screws	O	O	O	O	O	O
Frame							
SMS*	Sheet metal screws & machine screws	O	O	O	O	O	O
SSPxSMS	Standard screw pack & sheet metal screws	O	O	O	O	O	O

O = Optional
^ When SN or TBGN are ordered, standard screw packs are also furnished.
***When SMS are ordered, standard screw packs ARE NOT furnished.**
Examples:
1601 x **SN** includes self drilling, self tapping, machine screws and sleeve/sex nuts
1601 x **SMS** includes sheet metal screws and machine screws

SN are for use on hollow metal doors and can also be used for thru bolting on wood doors. When selected, SNs are supplied for 1-3/4" (44mm) thick doors unless specified for 2-1/4" (57mm) thick doors

TBGN are an alternative to SN for wood doors. When selected, TBGNs are supplied standard for 1-3/4" (44mm) thick doors.

SMS - when the option is specified, closer will be packed with sheet metal screws for the door and sheet metal screws plus machine screws for the frame.

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FINISHES

Norton Rixson offers waterborne acrylic, polyster powder coat and plated finishes. Custom finishes are available on special order. A sample and approval is required.

Waterborne acrylic and polyester powder coat will withstand 100 hours of salt spray (ANSI requires 25 hours).

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613E (US10BE)	Dark oxidized satin bronze - equiv.
619 (US15)	Satin nickel plated, clear coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat
600^	Prime coat

^ 600 is a special rust-inhibiting prime coat. Closers can be ordered prime coat only (specify closer x 600). An additional charge applies if finish coat is required over prime coat.

* Closer bodies and plastic covers are available in waterborne acrylic finishes. Arms are available in powder coat or plated finishes.

NORTON RIXSON
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1600
ALUMINUM STOREFRONT DOOR CLOSER

HOW TO ORDER

For optimum protection of door and frame assemblies, always use auxiliary wall, floor, or overhead door stop. Auxiliary stop is required in abusive applications.

J	16	0	3BC	H	689
Prefixes	Closer series	Specifies some options	Closer size	Suffixes	Finish (See page 166)

1 - Adjustable 1-6
3BC- ANSI Size 3
4BC- ANSI Size 4

0 - Specifies standard arm
8 - Specifies low-profile arm (prefix "P" for parallel arm) NHO only

1600BC series designates Tri-Style®, sized 1601 series designates Tri-Style®, multi-sized closer

J - Top jamb installation – reveals in excess of 2-3/4 to 7"

P - 1600BC parallel arm units requiring specialty brackets

No Prefix
- 1601 parallel arm units requiring specialty brackets
- 1680BC low-profile closer
- 1681, 1680BC low profile-closers. If installed top jamb, a 1687 drop plate is required. Order drop plate separately
- 1601SS corrosion-resistant closer – not available Tri-Style

PR - Parallel Rigid arm (parallel arm only) – specify hand for hold open functions
CLP - CloserPlus® arm (parallel arm only)
CPS - CloserPlus Spring™ arm (parallel arm only)
UNI - Unitrol® arm (parallel arm only - specify door width)
UNIJ - Unitrol arm (top jamb only - specify frame reveal)
CA - Cushion stop arm (regular arm only)

NONE - Non-hold open arm function
H - Hold open arm function (specify hand when "PR" prefix is ordered)
SS - Series 1601 only corrosion-resistant closer (not available Tri-Style). Available with non-hold open arm only for regular arm, top jamb "J" prefix or parallel arm "P" prefix
T - Thumbturn hold open on CloserPlus® (CLP) and CloserPlus Spring™ (CPS) arms
P - Cover
NB- NorBell (only available with 1601 tri-pack)

Notes:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).

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78-B/F

TRADITIONAL DOOR CLOSER

INTRODUCTION

The 78-B/F Series is a surface closer with traditional styling that offers multiple sizes within a single size aluminum alloy shell. Templates for installing this closer are the same for all closer sizes. Only two springs are needed for 78-B/F closers to accommodate the complete range of door sizes. These can also be adjusted to meet the exact power requirements of the application.



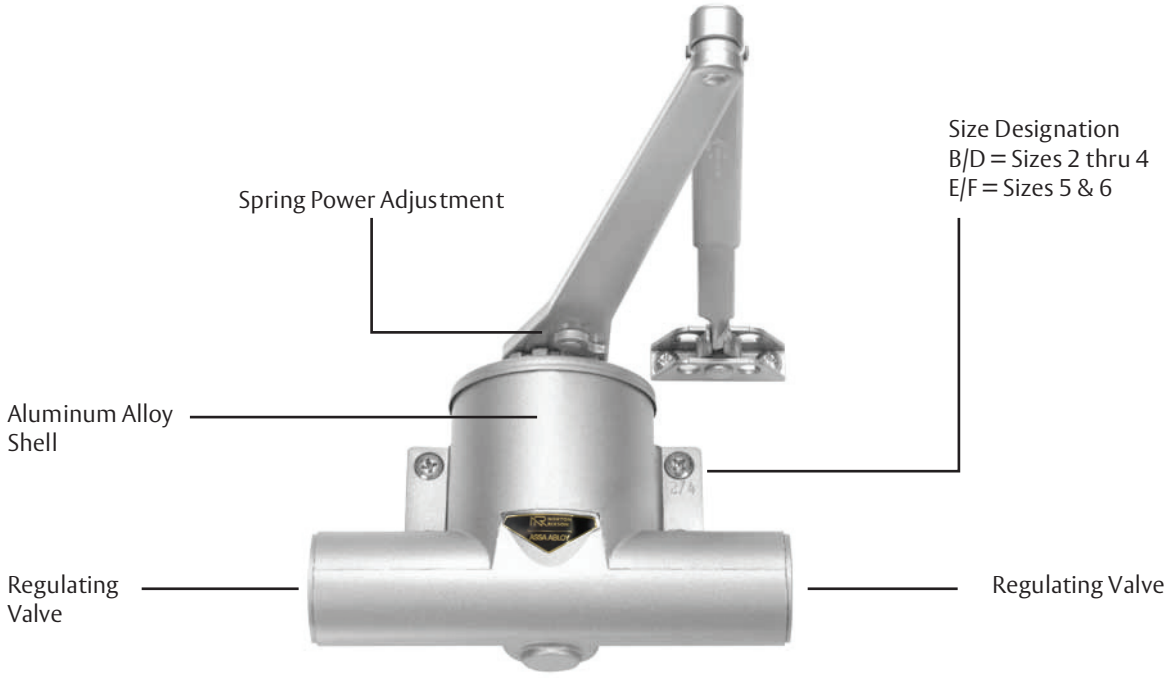
FEATURES

- Choice of adjustable spring power
  - B/D - Spring size 2, 3, or 4
  - E/F - Spring size 5 and 6
- Door weight: 250 lbs.
- Handed (closer spring can be reversed in the field)
- Heavy-duty arms available: Parallel Rigid and Unitrol®
- 10-year limited warranty

NORTON RIXSON
ASSA ABLOY

78-B/F
TRADITIONAL DOOR CLOSER

OVERVIEW



CERTIFICATIONS

- MEA - City of New York Approved
- UL10C positive pressure up to 3 hours
- UL-cUL listed
- Manufactured in an ISO 9001, ISO 14001 facility

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EXPLANATION OF FEATURES

Aluminum Alloy Shell

Closer shells are constructed of a special aluminum alloy, carefully selected to accommodate individual closer characteristics and operating conditions.

Adjustable Spring Power

Clock-type coil spring affords a wide range of closer power. Permits a fine adjustment of the closer to the environment.

Rack & Pinion Operation

Provides a smooth transmission of power for control of the door through its full opening and closing cycle.

Adjustable Sweep/Latch Speed

A dual purpose regulating valve, hex-key operated, permits independent adjustment of both sweep and latch speed.

Adjustable Backcheck Cushioning

An independent regulating valve, hex-key operated, provides an adjustable hydraulic cushion to the door opening speed toward the end of the opening cycle. This feature is standard with all but delayed action closers. Backcheck is not available with delayed action closers.

Non-Hold Open Arm

Standard closer will be supplied with a non-hold open arm. This arm is non-handed (field reversible).

Hold Open Arm

Available with heavy-duty arms (Parallel Rigid and Unitrol)

Warranty

Limited ten-year warranty for defects and life of the building on the aluminum housing.

Field Reversible

Closer spring can be field-reversed to accommodate the hand of the door. It is recommended that wherever possible the closer be ordered handed. Parallel hold open arms and delayed action closers **are not reversible.**

Spring Power

Choice of adjustable spring power: B/D - Spring size 2, 3, or 4 E/F - Spring size 5 and 6

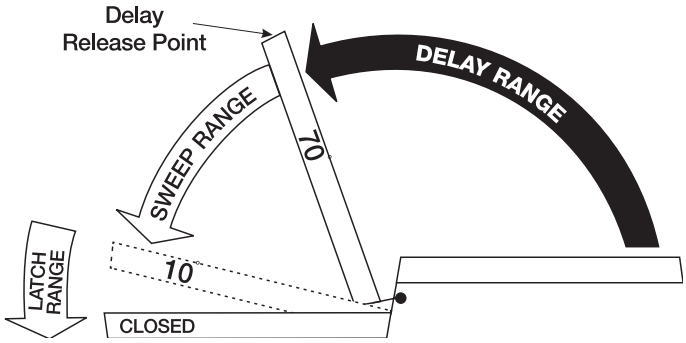
NORTON RIXSON
ASSA ABLOY

78-B/F
TRADITIONAL DOOR CLOSER

OPTIONAL FEATURES

Adjustable Delayed Action Closing* (supplied in lieu of backcheck feature)

An optional hydraulic feature that adds a third speed range to the closing cycle. This feature becomes effective when the door is opened and released at any point beyond 70°. The amount of time delay depends upon the combination of the angle of door release and valve adjustment. The valve can be adjusted with a 1/8" (3mm) hex-key from no delay time up to maximum delay times of:



Door Opened and Released at	Approximate Time of Delay Cycle
180°	4-5 minutes
120°	2-3 minutes
90°	25-30 seconds

* Regular arm (NHO units only) are handed - not reversible

Suggested Applications

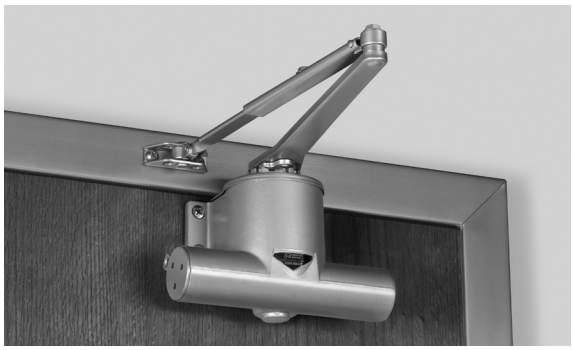
Delayed action closing allows slow moving traffic to clear the opening before the door closer's normal closing cycle begins. This feature can be helpful in health care facilities such as hospitals and nursing homes. It provides sufficient time for persons on crutches or in wheelchairs to pass through a door without concern of it closing. At the same time, it can accommodate the facility's staff with movement of food service carts, beds, and other wheeled traffic. Use of delayed action closers on many doors throughout industrial and commercial buildings can also assist the flow of traffic. Locations where additional time to clear the opening is advantageous are doors between office and factory/warehouse facilities, doors to workshops or laboratories, to kitchen and food processing areas, etc.

SPECIFICATIONS

Closer for interior (and) exterior doors shall be rack-and-pinion type enclosed in a cast aluminum alloy shell. Closer spring shall be clocktype coil spring and shall be adjustable through a wide range of closing power. Closer shall be equipped with a single hex-key operated regulating valve for control of both closing and latch speeds. Closer shall have a hex-key operated regulating valve to control the adjustable backcheck feature. Closer shall be Norton Rixson Series 78-B/F Traditional Surface Closer or equivalent.

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APPLICATIONS



Regular Arm

This is the only pull-side application where a double lever arm is used. It is the most power-efficient application for a door closer. Sufficient frame, door and/or ceiling clearance must be considered. Since the arm assembly projects directly out from the frame, this application may present an aesthetics issue or be prone to vandalism. Only available with non-hold open arm.



Parallel Arm

This application provides the most appealing design appearance for a surface mounted door closer having a double lever arm. This also makes it beneficial in vandalism-prone areas. It is on the push side of the door and the arm assembly extends almost parallel to the door. In the closed position, there is very little or no hardware projecting beyond the frame face in most situations.

Due to the geometry of the arm it is approximately 25% less power efficient than a regular arm application. The entire closer and arm assembly are mounted below the frame stop, requiring a top rail of 5-3/8" (137mm) to mount the body. Clearance to the bottom of the closer body from the top of the door is 7-3/8" (187mm). (Based on 5/8" (16mm) high frame stop.) Only available with non-hold open arm.

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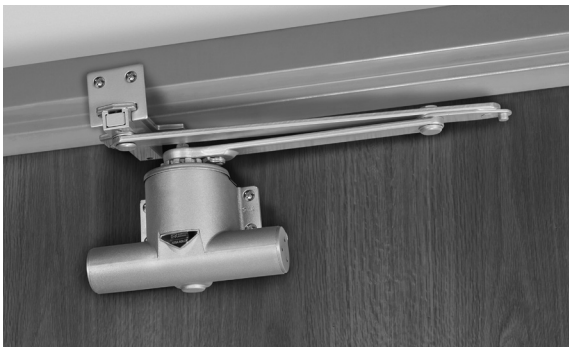
78-B/F
TRADITIONAL DOOR CLOSER

APPLICATIONS



Parallel Rigid Arm

An enhanced variation of the standard parallel arm assembly that is intended for use in heavy traffic areas where auxiliary door stops are installed. Hold open available – specify hand when ordering.



Unitrol® Arm (Parallel Arm applications only)

Unitrol arms combine the features of a double lever arm overhead door stop/holder with the backcheck feature of the door closer to reduce door stopping shock loads to a minimum. The Unitrol uses a compression spring buffer at the soffit plate/arm shoe that will absorb 30 lbs. of force, 5° prior to the door's dead stop. Coupled with the door closer's backcheck feature, this arm provides the most controlled stop available with a surface door closer.

For parallel arm applications there are three different length arm assemblies. Each length is designed for a specific range of door widths, to provide precise door control. This further lessens the dead stop impact on the door's hinges/pivots.

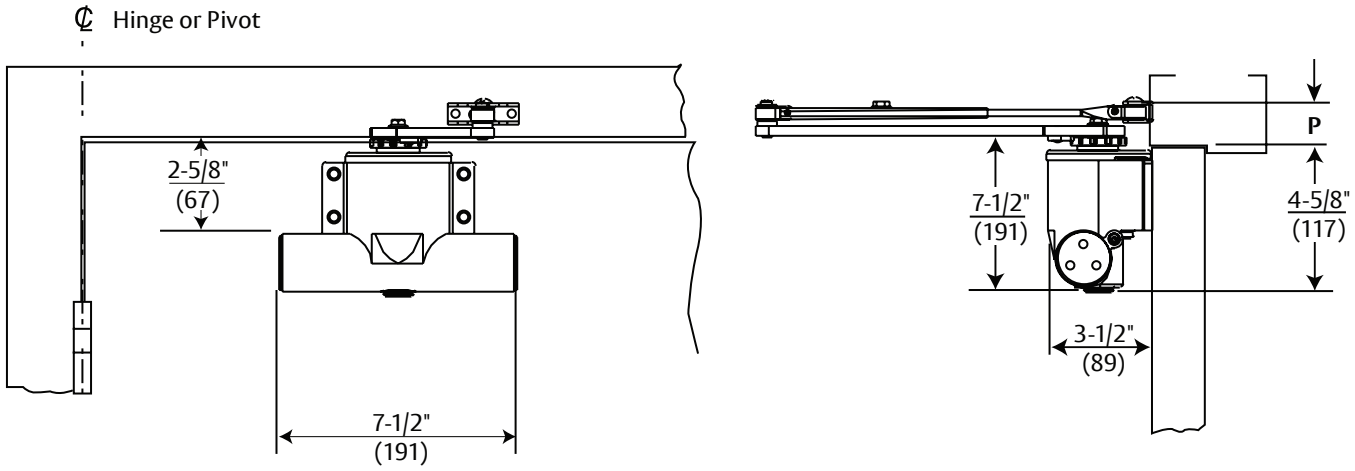
Only available in painted finishes.

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78-B/F

TRADITIONAL DOOR CLOSER

REGULAR ARM



Body mounting holes are spaced 4-1/8" (105mm) horizontally and 1-3/8" (76mm) vertically.

Maximum Door Size Wood or Metal Inches (cm)		Model
Interior	Exterior	Non-Hold Open
48" (122)	36" (91)	78B/D-RA
—	44" (112)	78E/F-RA

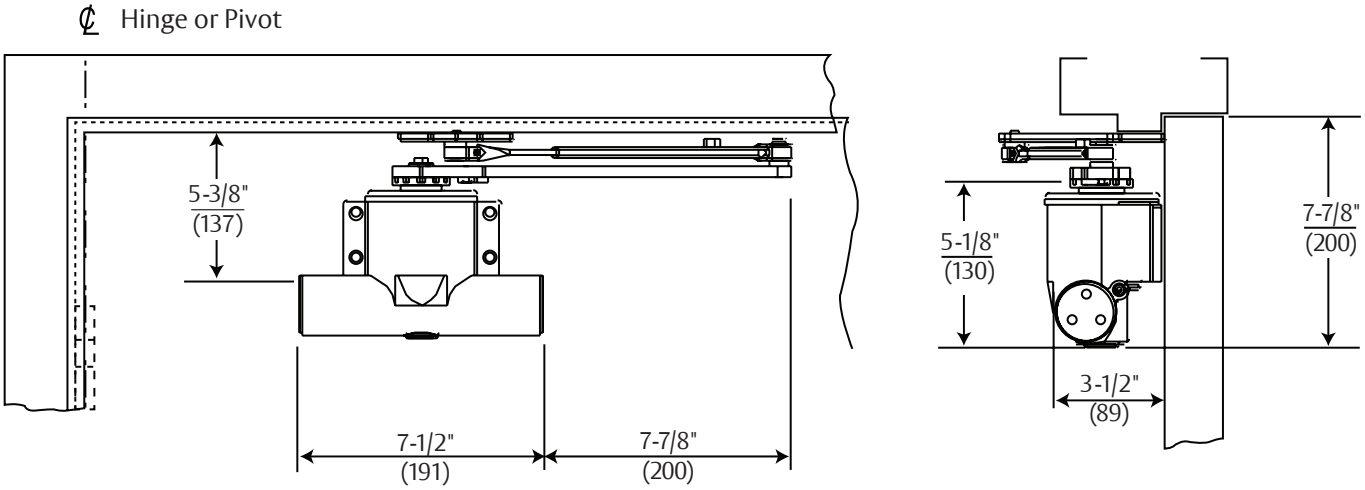
P Minimum Ceiling Clearance
Non-Hold Open
1-1/2" (38)

All dimensions are for reference only.

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78-B/F
TRADITIONAL DOOR CLOSER

PARALLEL ARM



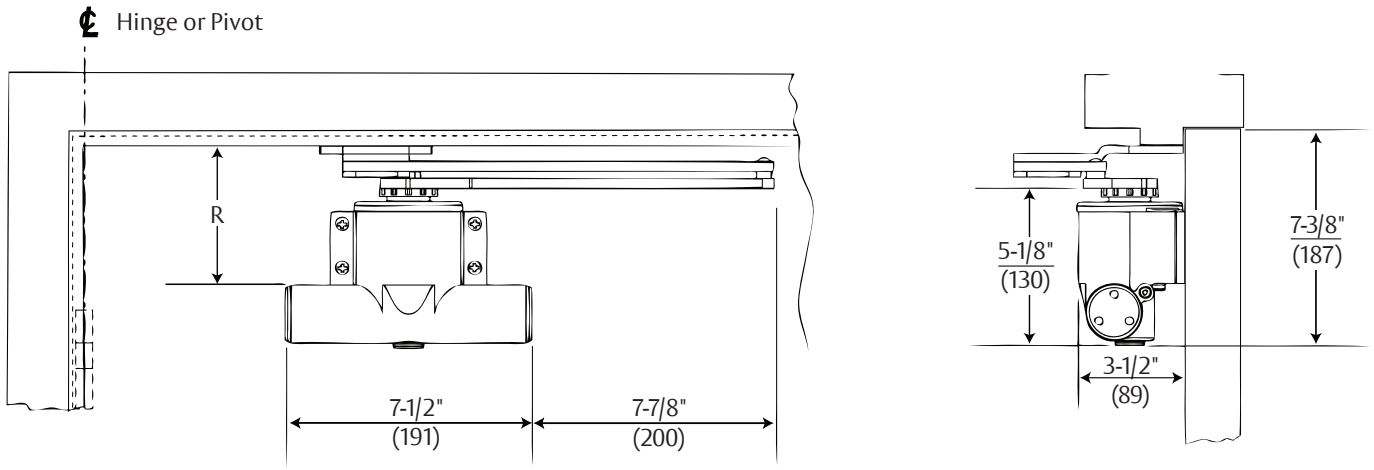
Body mounting holes are spaced 4-1/8" (105mm) horizontally and 1-3/8" (76mm) vertically.

Maximum Door Size Wood or Metal Inches (cm)		Model
Interior	Exterior	Non-Hold Open
42" (107)	36" (91)	78B/D-PA
—	44" (112)	78E/F-PA

All dimensions are for reference only.

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PARALLEL RIGID ARM



Body mounting holes are spaced 4-1/8" (105mm) horizontally and 1-3/8" (76mm) vertically.

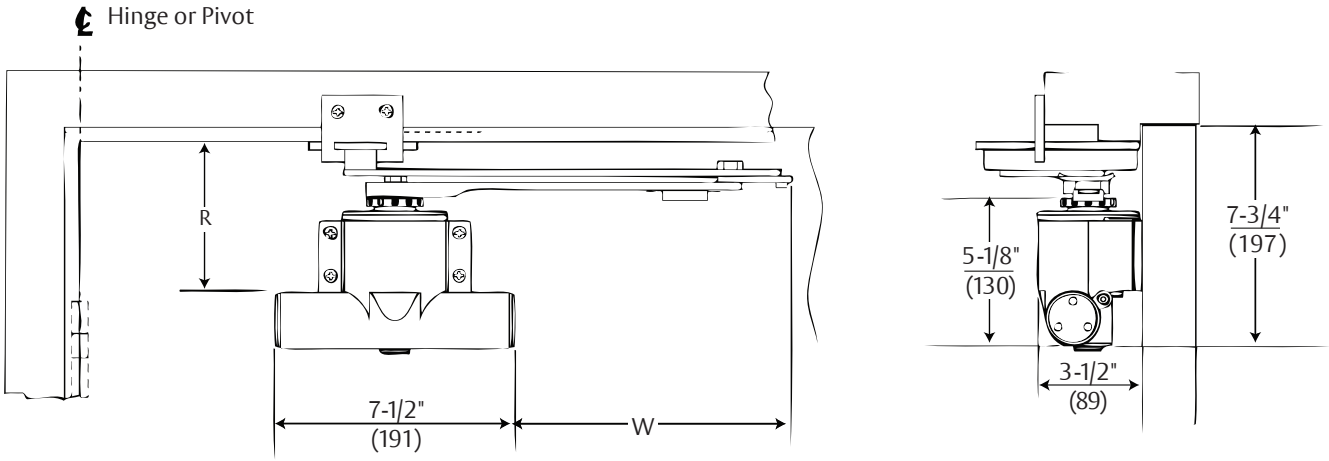
Maximum Door Size Wood or Metal Inches (cm)		Model	
Interior	Exterior	Non-Hold Open	Hold Open
48" (122)	36" (91)	78B/D-PRA	78B/D-PRHA
—	44" (112)	78E/F-PRA	78E/F-PRHA

R Minimum Top Rail 5/8" (16mm) frame stop	
Without Drop Plate	With 88 Drop Plate
5-3/8" (137)	2-1/2" (64)

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78-B/F
TRADITIONAL DOOR CLOSER

UNITROL® ARM



Body mounting holes are spaced 4-1/8" (105mm) horizontally and 1-3/8" (76mm) vertically.

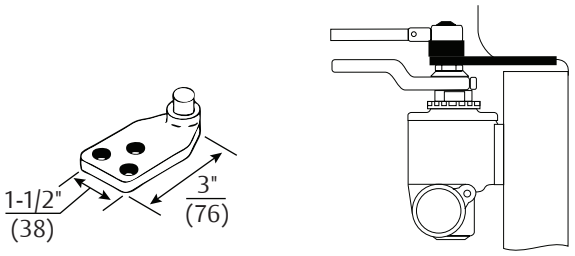
Door Width Inches (cm)	R - Minimum Top Rail 5/8" (16mm) Frame Stop		W - Arm Extension Beyond Closer
	Without Drop Plate	With 88 Drop Plate	
28-32" (71-81)	5-5/8" (143)	2-3/4" (70)	8-7/8" (225)
33-41" (84-104)			10-3/8" (264)
42-48" (107-122)			11-7/8" (302)

Maximum Door Size Inches (cm)		Model		
Interior	Exterior	Non-Hold Open	Hold Open	
28-41" (71-104)	28-36" (71-91)	UNI78-B/D	UNI78-B/D-H	x Specify Door Width
42-48" (107-122)	37-48" (94-122)	UNI78-E/F	UNI78-E/F-H	

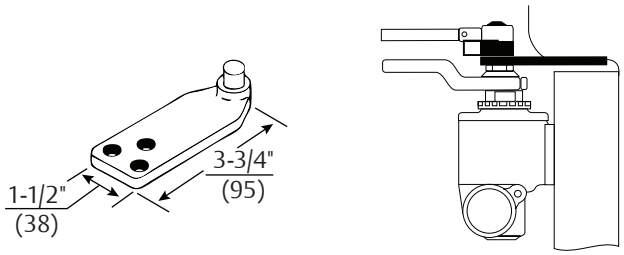
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REGULAR ARM

Brackets for Non-Hold Open Arms



Molded/Bull Nose Trim - 2403B Bracket:
For use where the door frame has molded or bull nose trim which will not accept a standard non-hold open shoe. The bracket is mortised into the frame rabbet and projects beyond the face of the frame. It will accommodate a frame rabbet up to 2" (51mm) deep.



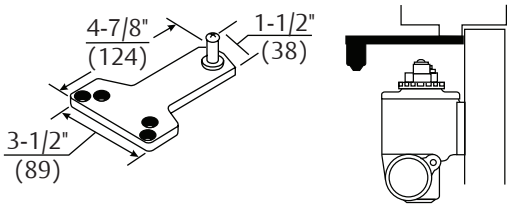
Molded/Bull Nose Trim - 2403 3/4 Bracket:
This bracket is similar to - but longer than – the 2403B bracket. It is designed to accommodate frame rabbets from 2" to 2-7/8" (51 to 73mm) deep.

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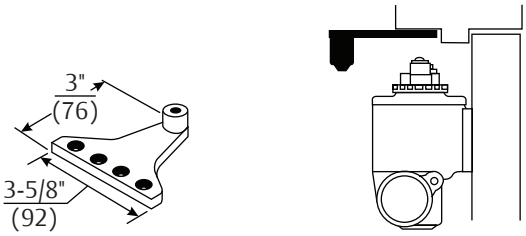
78-B/F
TRADITIONAL DOOR CLOSER

PARALLEL ARM

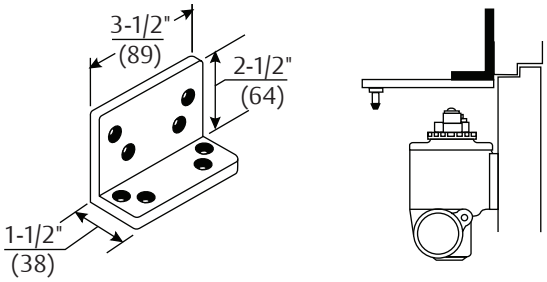
Brackets for Non-Hold Open Arms



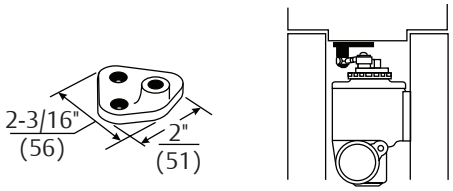
Standard Installation - 1618 Soffit Plate:
This soffit plate is supplied standard with parallel arm closers. It can be mounted where the frame soffit is as narrow as 1" (25mm).



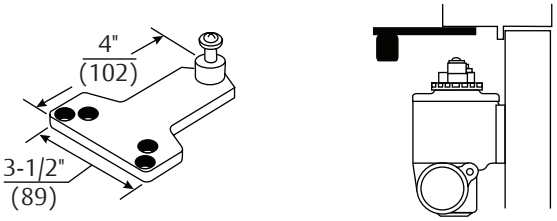
Narrow Frame/Removable Stop - 2018B Soffit Plate:
For use where a narrow frame or frame with removable stop does not permit use of the standard soffit plate. This plate may be mounted on the frame soffit or the frame rabbet where the stop does not exceed 5/8" (16mm) in height. All of the screw holes are in a straight line, requiring as little as 1-1/4" (32mm) of frame reveal to mount bracket and maintain good closer arm geometry. Where the frame soffit is as wide as 2" (51mm), this soffit plate may be used to clear weatherstripping that is up to 1-3/8" (35mm) wide and 5/8" (16mm) in height.



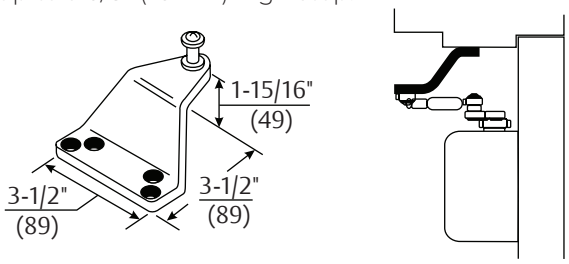
Flush Transom - 2022 Angle Bracket:
For use where rabbeted or flush transom conditions prevent installation of a soffit plate. Used in combination with the 1618 soffit plate, or it may be used in combination with the 2018S soffit plate when it is necessary for the closer arm to clear a separate overhead door holder.



Mounting Between Doors - 2018 Soffit Bracket:
For use where insufficient space between companion doors does not permit use of other soffit plates. This bracket permits mounting of the closer between doors with as little as 4-1/8" (105mm) of header space. Permits closer arm to clear up to a 5/8" (16mm) high stop.



Blade/Applied Stop - 2018D Soffit Plate:
For use where a blade or applied stop does not permit installation of the standard soffit plate. Mounts to either the frame soffit or rabbet. Since this soffit plate projects 7/8" (22mm) less than a standard soffit plate, it requires a minimum frame reveal of 1-1/2" (38mm). Permits closer arm to clear up to a 5/8" (16mm) high stop.

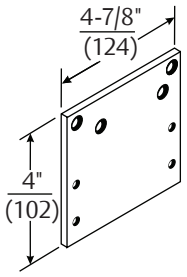


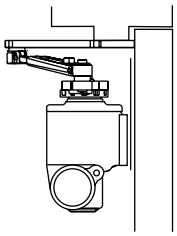
Extra-Clearance - 2018S Offset Soffit Plate:
For use where the need for additional clearance prevents use of the standard soffit plate. This plate mounts to the frame soffit to provide up to 1-1/2" (38mm) of clearance when a separate overhead door holder is used. Standard mounting requires a 2-5/8" (67mm) wide frame soffit. It may also be used where unusually high frame stops or weatherstripping prevent the use of other soffit plates.

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PARALLEL ARM

Closer Mounting Plates

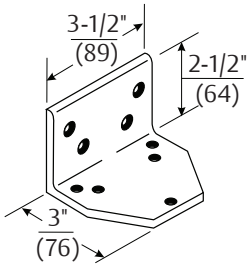


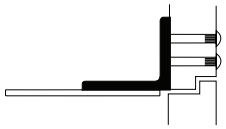


Narrow Top Rail - 88 Drop Plate:
For use where a narrow top rail prevents the closer from being mounted directly to the door surface.

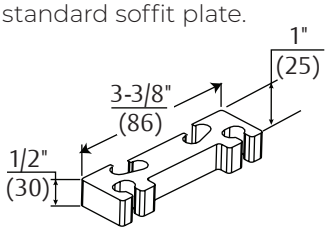
PARALLEL RIGID

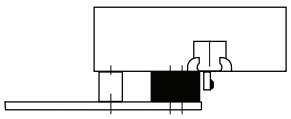
Brackets for Non-Hold Open Arms



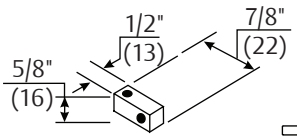


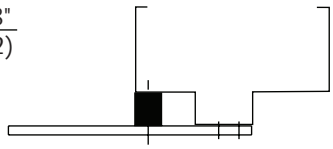
Flush Rabetted Transom - 2019L Angle Bracket:
For use where flush transom conditions prevent mounting of the standard soffit plate. This bracket is used in combination with the standard soffit plate.



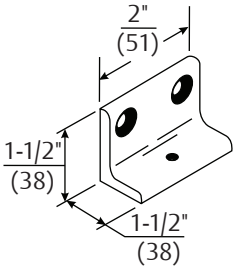


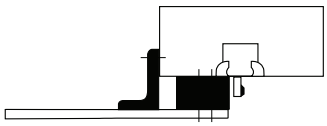
Clearance/Support Blade Stop - 6891 Spacer Block:
For use where the frame has a blade stop and the soffit plate must be mounted on the frame rabbet. This accessory is used in combination with the standard spacer block to provide clearance of the blade stop.





Standard - 2019S Spacer Block:
For use where a narrow frame soffit does not provide adequate support for the soffit plate. Supplied as standard with all Parallel Rigid arm closers.





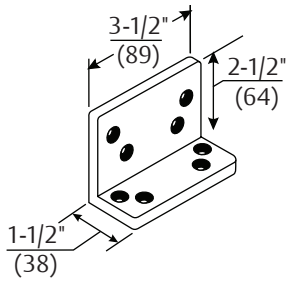
Narrow Frame - 6890 Support Bracket:
For use where the frame is narrow, and the soffit plate cannot be mounted directly to the frame soffit or rabbet. Used in combination with the 6891 spacer block on blade stop frames to provide extra support and needed clearance of the blade stop.

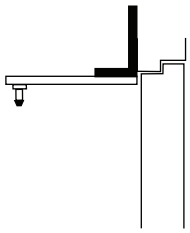
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78-B/F
TRADITIONAL DOOR CLOSER

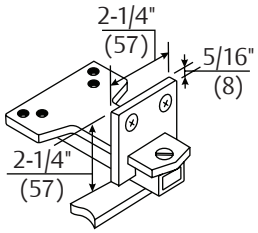
UNITROL® ARM

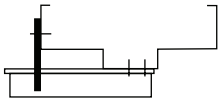
Brackets for Non-Hold Open Arms





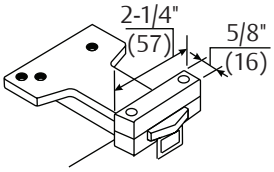
Flush Transom - 2022 Angle Bracket:
For use where rabbeted or flush transom conditions prevent installation of a soffit plate. Used in combination with the 1618 soffit plate, or it may be used in combination with the 2018S soffit plate when it is necessary for the closer arm to clear a separate overhead door holder.

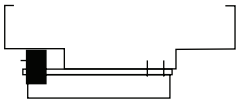


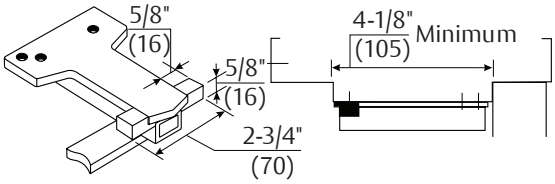


Additional Support - 6190 Reinforcing Bracket:
Standard for use with Unitrol parallel arms. Provides additional support to the soffit plate on installations with door frame reveals from 1-7/8" to 4-5/8" (48 to 117mm).

Reinforcing Kit

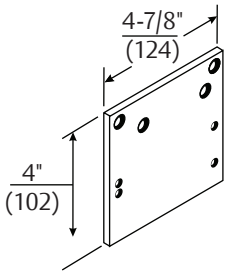


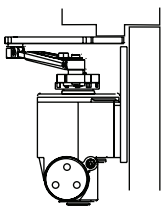




Wide Frame - 6191 Reinforcing Kit:
Optional for use with all Unitrol parallel arms. Used to support the soffit plate on installations with wide frames. Clamps may be used with or without the spacer block, depending on frame conditions.

Closer Mounting Plates



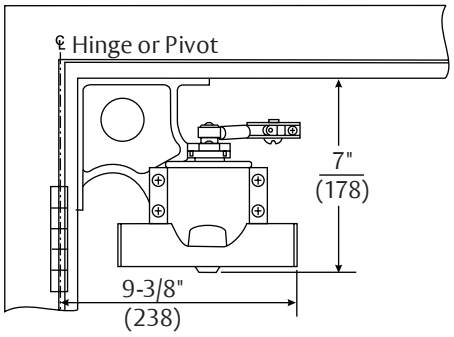


Narrow Top Rail - 88 Drop Plate:
For use where a narrow top rail prevents the closer from being mounted directly to the door surface.

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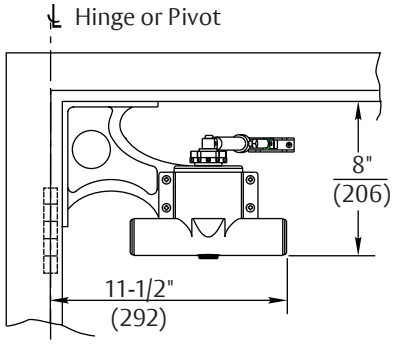
CORNER BRACKETS

All of the following frame-mounted brackets require the use of a regular arm door closer of the opposite hand from the hand of the door. Use the Parallel Arm Sizing Chart to select the correct size of closer to use when the closer is to be mounted on a corner bracket.



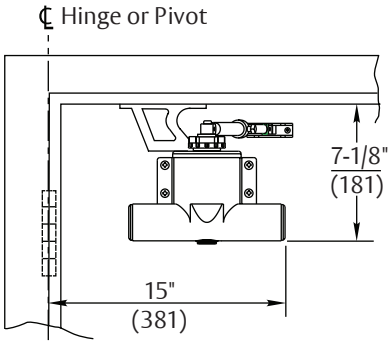
Corner Mounting, Standard Drop - 2-B/F Corner Bracket:

For use where door is required to open to 180°. Minimum soffit width 1-3/8" (35mm).



Corner Mounting, Extra Drop and Extension- 8-B/F Combination Bracket:

Recommended for use instead of 2-B/F corner bracket, whenever possible. Permits door openings to 140°



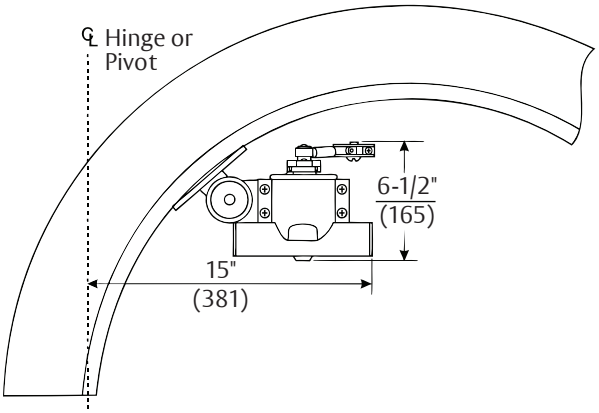
Soffit Mounting - 1-B/F Soffit Bracket:

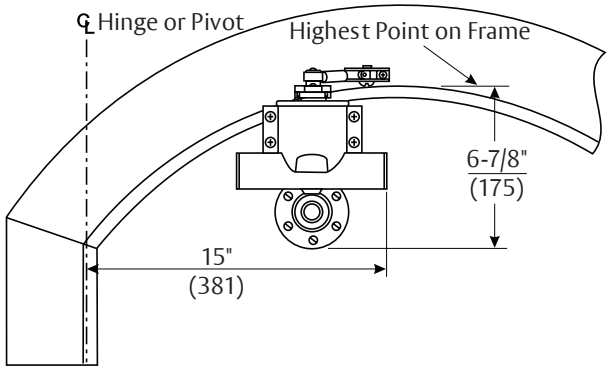
For use where frame conditions prevent mounting of a corner bracket. This bracket mounts to the overhead frame soffit. Permits door openings to 180°.

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78-B/F
TRADITIONAL DOOR CLOSER

CORNER BRACKETS



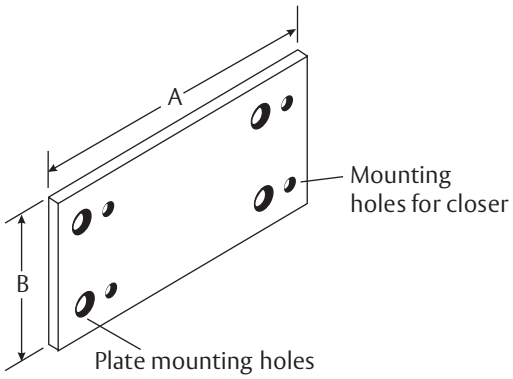


Arched or Circular Top Door - 6-B/F Adjustable Bracket:
For opposite hinge side application on arched or circular top doors. This frame-mounted bracket can be adjusted to accommodate virtually any radius of frame. Minimum soffit width 2-1/2" (64mm). This bracket requires the use of a regular arm door closer of the opposite hand from that of the door. Intended for 90° door swing.

Arched or Circular Top Door - 7-B/F Offset Adjustable Bracket:
For hinge side application on arched or circular top doors. This door-mounted bracket is adjustable to accommodate virtually any radius of frame. Base diameter 3-5/8" (92mm). Use in conjunction with a regular arm door closer. Intended for 90° door swing.

ADAPTER PLATES

Size Closer Being Replaced	Adapter Plate Catalog Number	Dimensions	
		A	B
B	9-B	4-7/8" (124)	2-1/4" (57)
B/C	9-B/C	5-1/2" (140)	2-5/8" (67)
D	None Required	—	—
E/F	9-E/F	5-1/2" (140)	2-5/8" (67)

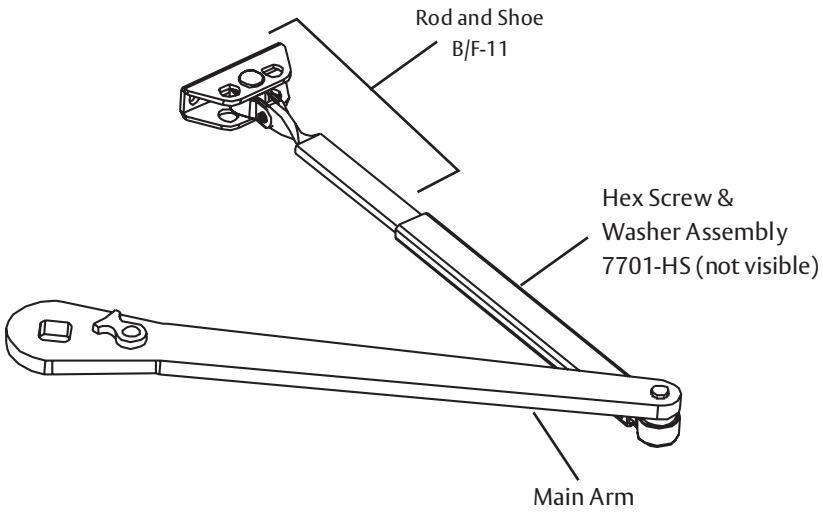


9 Adapter Plate
For use when replacing a discontinued old style traditional surface closer with a series 78-B/F Traditional Surface Closer. The plate selected will employ the existing holes in either door, corner bracket or soffit bracket. The Series 78-B/F will mount to the plate. These plates can be used to convert regular arm, parallel arm or bracket mount installations. Order by model number.

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REGULAR ARM

Non-Hold Open



Note: Mounting hardware included with all parts ordered

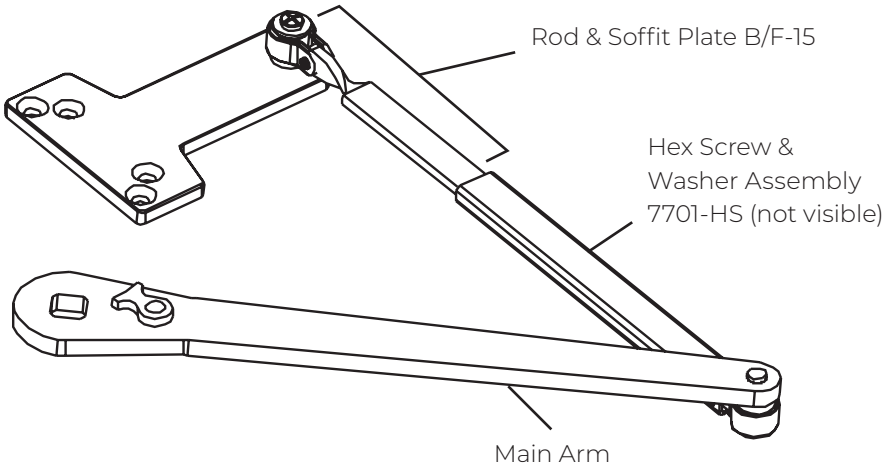
Arm Function	Complete Arm Assembly	Main Arm	Main Arm Less Rod & Shoe
Non-hold open	B/F-1	B/F-1M	B/F-1W

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78-B/F
TRADITIONAL DOOR CLOSER

PARALLEL ARM

Non-Hold Open



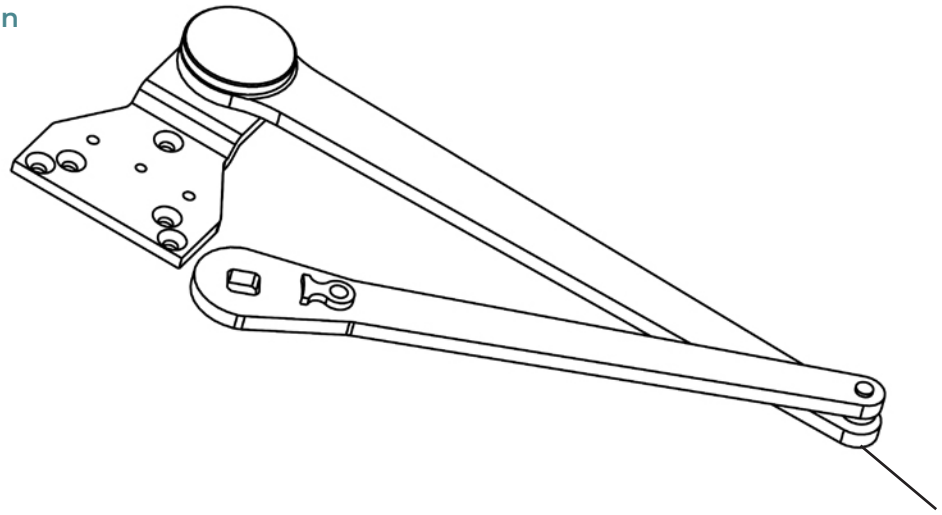
Note: Mounting hardware included with all parts ordered

Arm Function	Complete Arm Assembly	Main Arm	Main Arm Less Rod & Shoe
Non-hold open	B/F-5	B/F-1M	B/F-5W

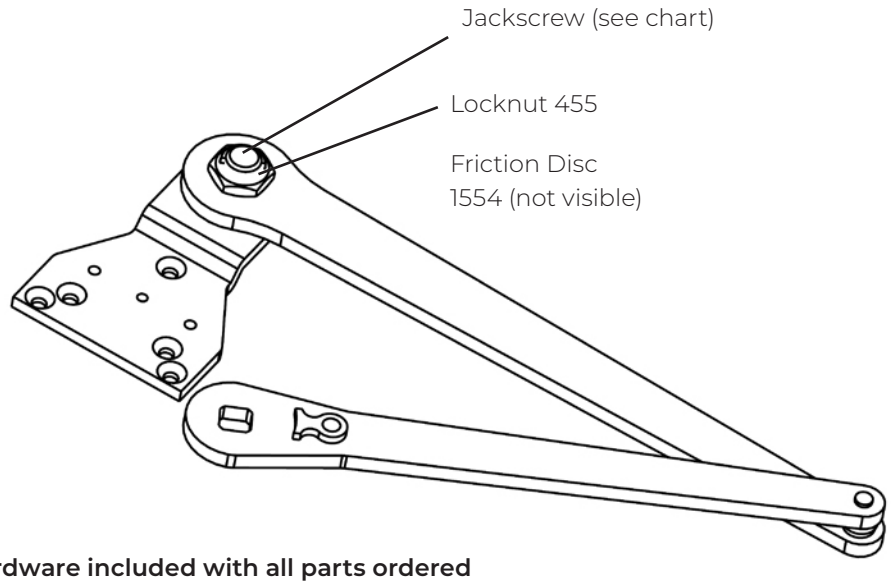
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PARALLEL ARM

Non-Hold Open



Hold Open



Note: Mounting hardware included with all parts ordered

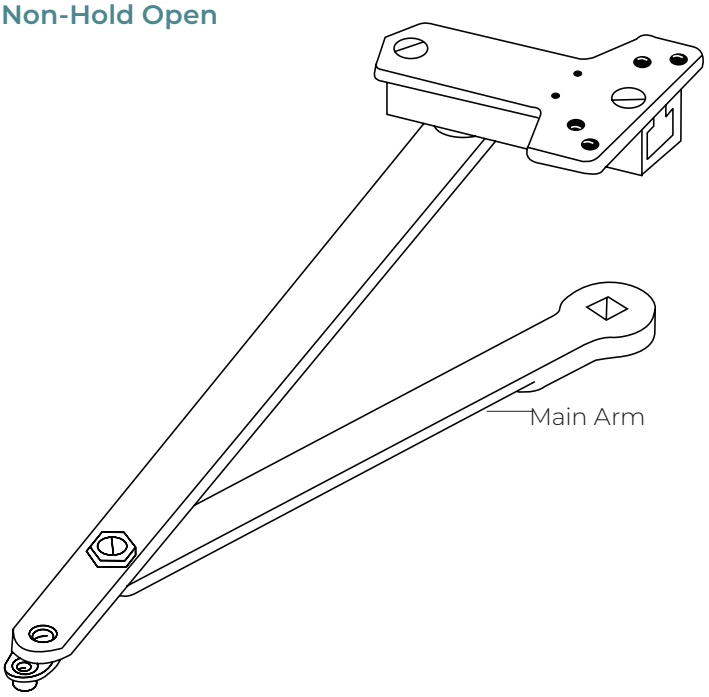
Arm Function	Complete Arm Assembly	Jackscrew
Non-hold open	78PRA-5	N/A
Hold open	78PRA-8R (right hand)	1543R
	78PRA-8L (left hand)	1543L

NORTON RIXSON
ASSA ABLOY

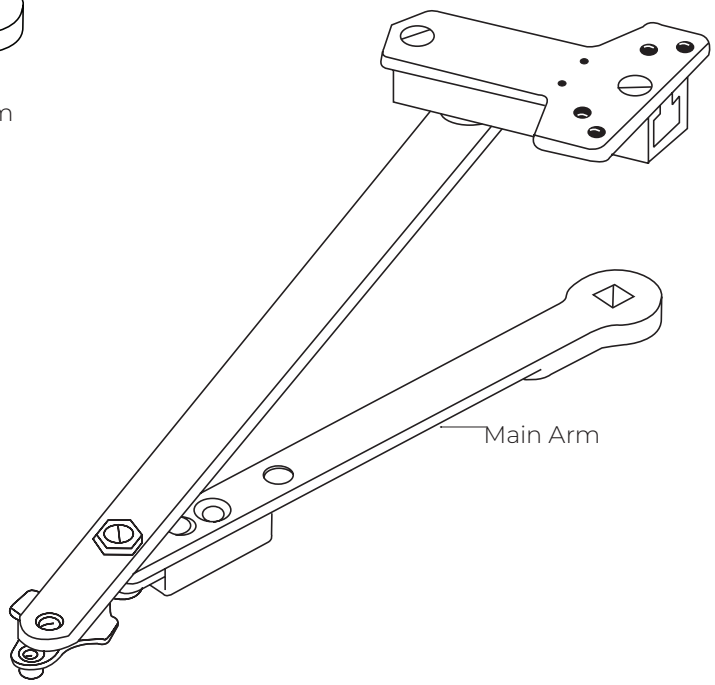
78-B/F
TRADITIONAL DOOR CLOSER

UNITROL® ARM ASSEMBLIES

Non-Hold Open



Hold Open



Note: Mounting hardware included with all parts ordered

Door Width (cm)	Main Arm Length (mm)	Complete Arm Assembly	
		Non-Hold Open	Hold Open
28"- 32" (71 - 81)	9-1/2" (241)	6130-17	6130-7
33"- 41" (84 - 104)	11" (279)	6130-18	6130-8
42"- 48" (107 - 122)	12-1/2" (318)	6130-19	6130-9

Only available in painted finishes.

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FASTENERS

Standard Fasteners	With Arms Specified Below		
	Regular Parallel	Parallel Rigid (PR)	Unitrol (UNI)
Door			
Self drilling self tapping	S	S	S
Machine screw	S	S	S
Sleeve nut/sex nut		S	S
Frame			
Self drilling self tapping	S	S	S
Machine screw	S	S	S

S = Standard
Fasteners are standard (included) with closer package.
Examples:
78B/D RA includes self drilling, self tapping and machine screws
78B/D PRA includes self drilling, self tapping, machine screws and sleeve nut/sex nuts

Optional Fasteners	Description	With Arms Specified Below		
		Regular Parallel	Parallel Rigid (PR)	Unitrol (UNI)
Door				
SN^	Sleeve nut/sex nut	O		
TBGN^	Thru bolts & grommet nuts	O	O	O

O = Optional
^ When SN or TBGN are ordered, standard screw packs are also furnished.
Examples:
78B/D RA x **SN** includes self drilling, self tapping, machine screws and sleeve/sex nuts

SN are for use on hollow metal doors and can also be used for thru bolting on wood doors. When selected, SNs are supplied for 1-3/4" (44mm) thick doors unless specified for 2-1/4" (57mm) thick doors

TBGN are an alternative to SN for wood doors. When selected an add-on option, TBGNs are supplied standard for 1-3/4" (44mm) thick doors. They can be specified for 1-3/8" (35mm) thick doors.

NORTON RIXSON
ASSA ABLOY

78-B/F
TRADITIONAL DOOR CLOSER

FINISHES

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat
600^	Prime coat

All door closers are painted in water borne acrylics. All steel parts, arms, bracket and mounting plates are powder coated. The closers will withstand 100 hours of salt spray. ANSI requires 25 hours.

*600 is a special rust-inhibiting prime coat. Closers can be ordered prime coat only (specify closer x 600). An additional charge applies if finish coat is required over prime coat (ex: 78-B/D x 600 x 689).

MISCELLANEOUS PARTS

Springs	
Part Number	**Description**
24BD	B/D spring
56EF	E/F spring

Wrenches	
Part Number	**Description**
78-SW	Spanner wrench

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78-B/F
TRADITIONAL DOOR CLOSER

HOW TO ORDER

UNI	78	B/D	H	RH	689
Prefix	**Closer series**	**Closer Size**	**Suffixes**	**Hand**	**Finish** (See Page 196)

UNI – Unitrol® arm
(specify door width)

Multi-Size
B/D – Spring size 2 thru 4
E/F – Spring sizes 5 & 6

RA – Regular arm, non-hold open
PA – Parallel arm, non-hold open
PRA – Parallel Rigid arm, non-hold open
PRHA – Parallel Rigid arm, hold open
H – Hold open – Unitrol arm only
DA – Delayed action

NOTES:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).

NORTON RIXSON
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1700
LIGHT COMMERCIAL DOOR CLOSER

INTRODUCTION

1700 Series Door Closers offer a compact design that is ideal for interior door applications. This narrow-style closer has distinctive lines that harmonize with most decors. The 1700 Series offers an economical alternative for those installations where a more heavy-duty closer is not necessary.



STANDARD FEATURES

- Tri-Style® packaging: closer tri-packed for regular arm, top jamb or parallel arm installation
- Non-handed
- Size 3 or 4 depending on installation
- Door weight: 250 lbs.
- Aluminum alloy shell
- Rack & pinion operation
- Adjustable closing speed
- Adjustable latch speed
- Adjustable backcheck cushioning: independent regulating valve
- Non-hold open
- Slim line cover
- Auxiliary stop required (by others)
- Interior doors

OPTIONAL FEATURES

- Hold open

CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 3 BHMA CERTIFIED
- UL10C positive pressure up to 3 hours UL
- UL-cUL listed

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EXPLANATION OF FEATURES

Door Plates

For narrow top rails, narrow frame faces, and top jamb hold open installations. Specify finish when ordering separately.

Molded Slim Line Cover

Molded of high-impact U.L. Listed material, cover encloses closer body and mounting screws.

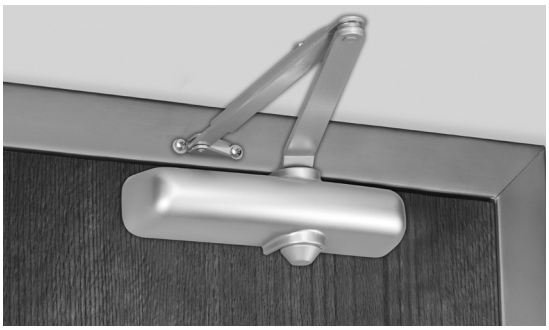
SPECIFICATIONS

Closers for interior doors shall be full rack-and-pinion type with cast aluminum alloy shell. Closer shall be non-handed to permit installation on either hand of door. Closer to be supplied with brackets to allow regular arm, parallel arm or top jamb mounting. Closer to have noncritical valves to independently regulate sweep speed (and) latch speed (and backcheck cushioning.) (Closer shall be enclosed in a molded slim line cover.) Closer to be Norton Rixson 1700 Series.

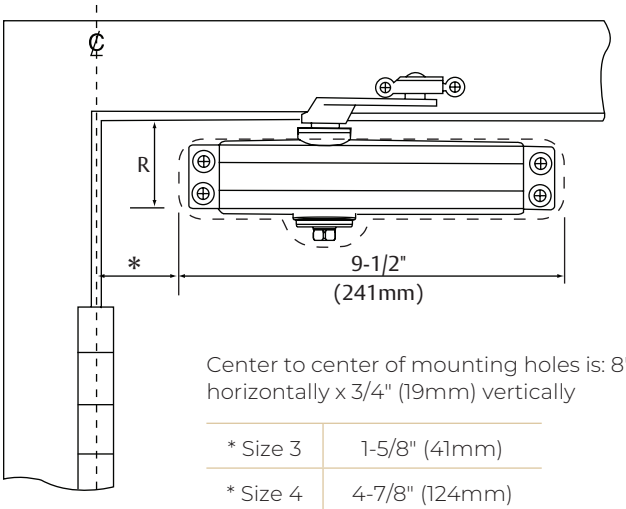
NORTON RIXSON
ASSA ABLOY

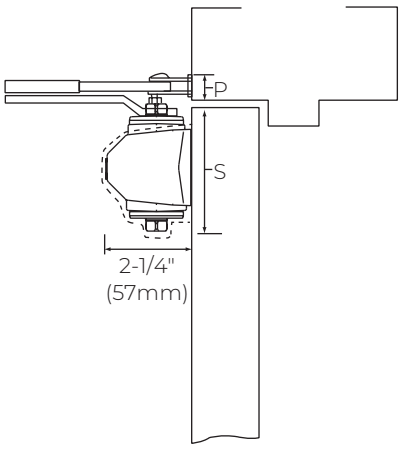
1700
LIGHT COMMERCIAL DOOR CLOSER

REGULAR ARM INSTALLATION



Closer mounts on door;
arm bracket on frame face.





Center to center of mounting holes is: 8" (203mm) horizontally x 3/4" (19mm) vertically

* Size 3	1-5/8" (41mm)
* Size 4	4-7/8" (124mm)

R Minimum Top Rail				S Minimum Top Rail Clearance		P Minimum Ceiling Clearance Without Drop Plate	
Without Drop Plate		With N1756 Drop Plate					
Non-Hold Open	Hold Open	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
2" (51mm)		1-1/4" (32mm)		2-3/4" (70mm)		1" (25mm)	1-3/8" (35mm)

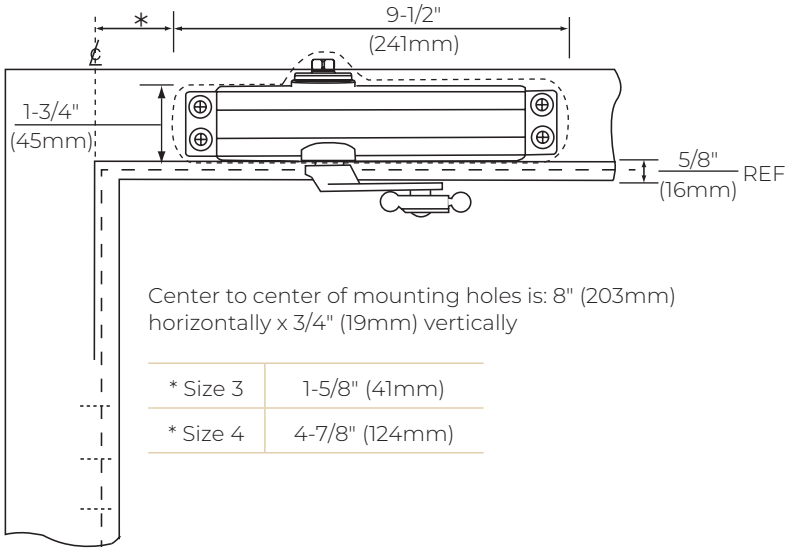
Maximum door swing = 180°

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TOP JAMB INSTALLATION

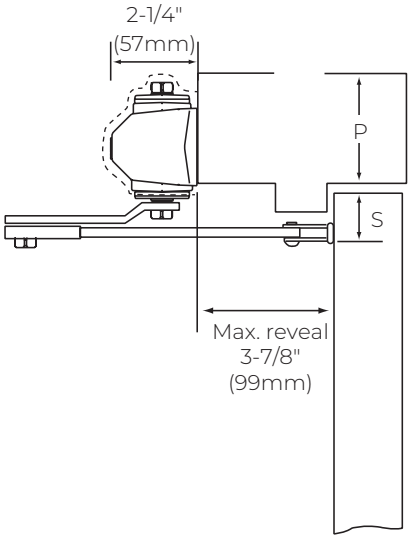


Closer mounts on push side of frame; arm shoe mounts to door.



Center to center of mounting holes is: 8" (203mm) horizontally x 3/4" (19mm) vertically

* Size 3	1-5/8" (41mm)
* Size 4	4-7/8" (124mm)



S Minimum Top Rail 5/8" (16mm) Frame Stop			P Minimum Ceiling Clearance			
Without Drop Plate	With N1757 Drop Plate		Without Drop Plate		With N1757 Drop Plate	
Non-Hold Open	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
1-5/16" (33mm)	2-1/4" (57mm)	2-5/8" (67mm)	2-1/2" (64mm)	Required*	1-3/4" (44mm)	

*Hold open (top jamb) application requires use of N1757 drop plate
Maximum door swing
Size 3 : 180°; reveals 0" to 3"
: 160°; reveals 3" to 3-7/8"
Size 4 : 140°; reveals 0" to 3-7/8"

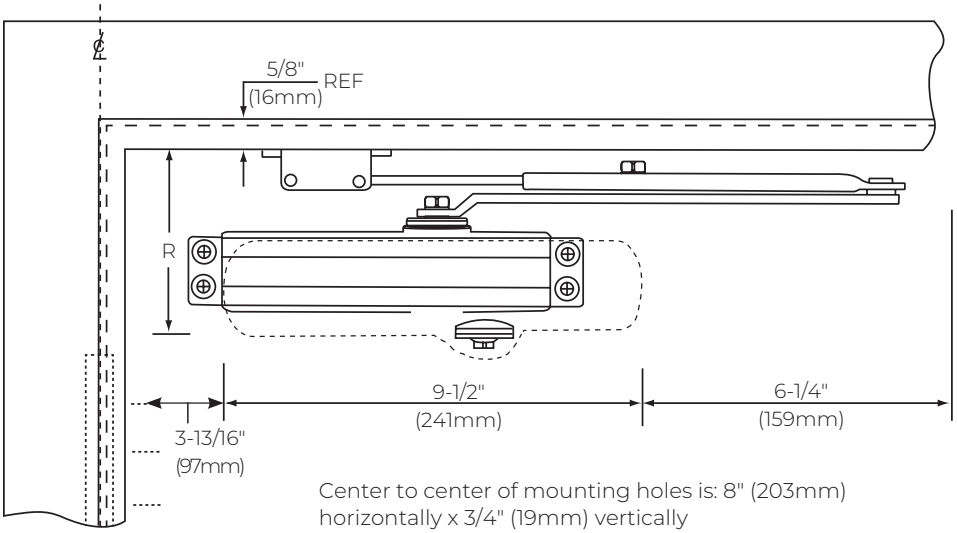
NORTON RIXSON
ASSA ABLOY

1700
LIGHT COMMERCIAL DOOR CLOSER

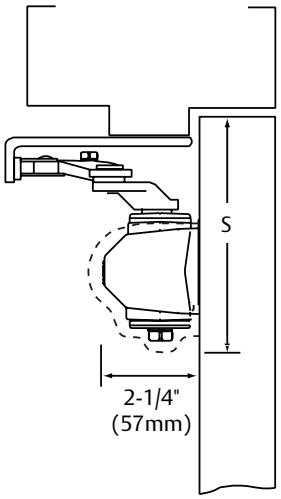
PARALLEL ARM INSTALLATION



Closer mounts on door;
bracket on frame soffit.



Center to center of mounting holes is: 8" (203mm)
horizontally x 3/4" (19mm) vertically



℟ Minimum Top Rail 5/8" (16mm) Frame Stop				S Minimum Top Rail Clearance	
Without Drop Plate		With N1758 Drop Plate			
Non-Hold Open	Hold Open	Non-Hold Open	Hold Open	Non-Hold Open	Hold Open
4-1/2" (114mm)		2-7/8" (73mm)		5" (127mm)	

Maximum door swing = 180°

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ACCESSORIES

Part Number	Description
N1756	Drop plate (regular arm)
N1757	Drop plate (top jamb)
N1758	Drop plate (parallel arm)

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1700
LIGHT COMMERCIAL DOOR CLOSER

HOW TO ORDER

1700
Defines closer series

H
Suffix

Blank - Non-hold open
H - Hold open

689
Finish

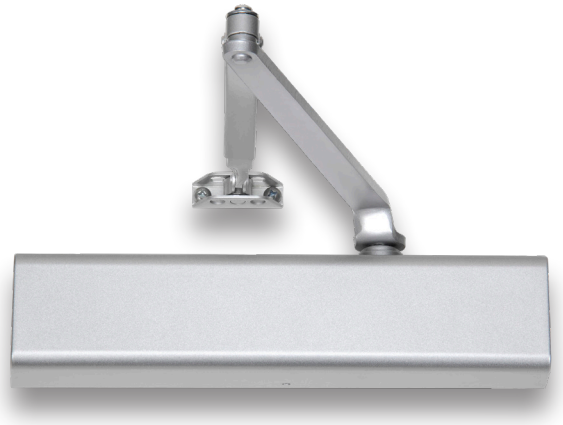
ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted

NOTES:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).

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210
LIGHT COMMERCIAL DOOR CLOSER



INTRODUCTION

The 210 Series is an adjustable door closer for light traffic commercial openings, including office and utility closet doors. It features an adjustable spring; tri-packed, non-hold open arms; and both independent and separate latch, sweep and backcheck intensity valves. The 210 is ideal for stocking distributors serving high-volume after-market segments.

FEATURES

- Adjustable spring size 1 through 6
- Door weight: 250 lbs.
- Non-handed
- Cast aluminum body
- Rack-and-pinion design
- Independent latch sweep and backcheck intensity valves
- Full plastic cover
- Non-hold open, hold open and heavy-duty arms
- Closer footprint: 3/4" x 12"
- Cover dimensions: 2-15/16" high x 2-1/8" deep x 13-1/16" long
- Sex nuts (SN-134) included
- 10 year limited warranty

CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 1
- ANSI/BHMA A117.1
- Americans with Disabilities Act (ADA) Compliant
- UL10C positive pressure up to 3 hours
- UL-cUL listed

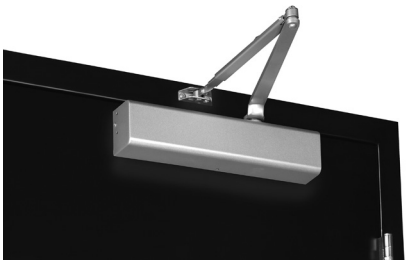
CAUTION: Door Closers for Low Opening Force Applications:
Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

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ASSA ABLOY

210
LIGHT COMMERCIAL DOOR CLOSER

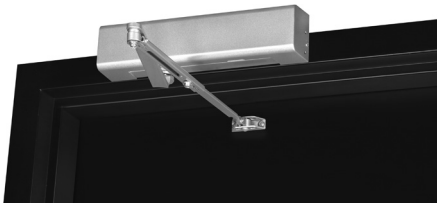
APPLICATIONS

Standard Arms



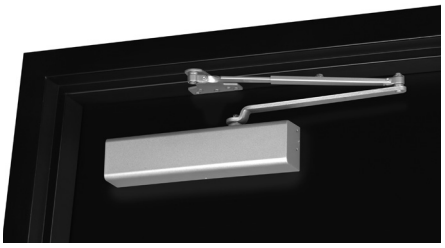
TPN arm shown (regular mounting)

- Pull-side application
- Closer mounted on the door



TPN arm shown (top jamb mounting)

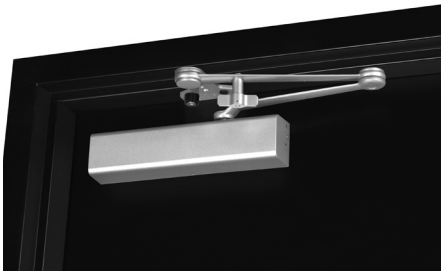
- Push-side application
- Closer mounted on the frame
- Minimum top rail = 2-1/4" (57mm)
- Maximum frame reveal = 2-3/4" (70mm)



TPN arm shown (parallel mounting)

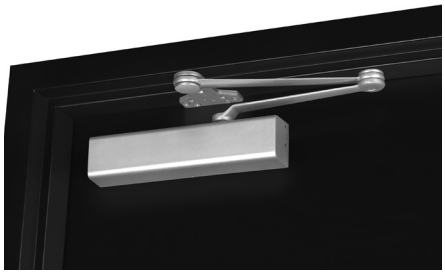
- Push-side application
- Closer mounted on the door

Heavy Duty Arms



HDH arm (with stop) shown

- Push-side application
- Stop is removable



HDN arm (without stop) shown

- Push-side application
- Stop is removable

NOTE: Arms are not interchangeable with Norton Rixson premium door closers.

ACCESSORIES

Part Number	Description
210P	Full plastic cover
SP210	Screw pack for TPN arm

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HOW TO ORDER

210 X **TPN** X **689**

210 — Defines closer series

Includes full cover

TPN — Arm assemblies

- **TPN** – Tri-packed (regular, parallel, top jamb mounting), non-hold open
- **TPH** – Tri-packed (regular, parallel, top jamb mounting), hold open
- **HDN** – Heavy duty, non-hold open with removable stop
- **HDH** – Heavy duty, hold open thumbturn with removable stop

689 — Finish

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
BSP	Black suede powder coat

NOTES:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).

NORTON RIXSON
ASSA ABLOY

160
LIGHT COMMERCIAL DOOR CLOSER

INTRODUCTION

The 160 Series door closer, is ideal for stocking distributors serving high volume after-market and storefront segments. The 160 Series features an adjustable spring, non-hold open arms and independent and separate latch, sweep and backcheck intensity valves. With easy installation and maintenance and dependable control, the 160 Series is perfect for office doors, utility doors and strip mall applications.



FEATURES

- Two models:
  - 161BF: adjustable spring size 1 through 4
  - 164: size 4 spring
- Door weight: 250 lbs.
- Non-handed
- Cast aluminum body
- Rack-and-pinion design
- Independent latch sweep and backcheck intensity valves
- Non-hold open arms: 161BF, 164
- Hold open arms: 161BF only
- Closer footprint: 3/4" x 9-1/16"
- Closer projection: 2-5/8"
- 5-year limited warranty

CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 1
- Americans with Disabilities Act (ADA) Compliant
- UL10C positive pressure up to 3 hours
- UL-cUL listed

CAUTION: Door Closers for Low Opening Force Applications:
Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

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160
LIGHT COMMERCIAL DOOR CLOSER

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APPLICATIONS



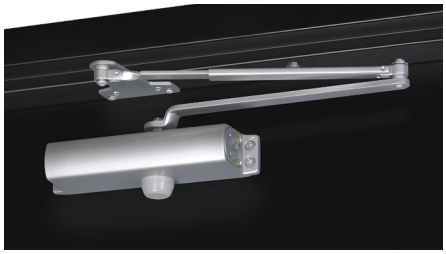
TPN arm shown (regular mounting)

- Pull-side application
- Closer mounted on the door



TPN arm shown
(top jamb mounting)

- Push-side application
- Closer mounted on the frame
- Minimum top rail = 2-1/4" (57mm)
- Maximum frame reveal = 2-3/4" (70mm)



TPN arm shown (parallel mounting)

- Push-side application
- Closer mounted on the door

NOTE: Arms are not interchangeable with Norton Rixson premium door closers.

COVER



To order cover only, specify 160P x finish. (Only available with model 161BF closer.)

NORTON RIXSON
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HOW TO ORDER

16 Closer series x **1BF** Closer size x **TPN** Arm assemblies x **689** Finish

1BF – Adjustable 1-4
4 – Size 4

TPN – Tri-packed (regular, parallel, top jamb mounting), non-hold open
TPH – Tri-packed (regular, parallel, top jamb mounting), hold open

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
BSP	Black suede powder coat

Model #	Suffix	Non-Hold Open	Hold Open	Adjustable Spring 1-4	Size 4 Spring	Adjustable Slide Arm	Tri-Packed (RA, TJ, PA)	Sex Nuts Included
161BF	TPN	·		·		·	·	·
	TPH		·	·		·	·	·
164	TPN	·			·	·	·	·

Note: Specify 161BFxOP2 to order the 161BF closer packed with a cover.

NOTES:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).

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9500
CAST IRON DOOR CLOSER

NORTON RIXSON
ASSA ABLOY

INTRODUCTION

Ideal for high use openings, the 9500 Series Cast Iron door closer offers the durability, flexibility and strength required to meet the needs of your facility. For interior or exterior doors, this ANSI/BHMA Grade 1 closer features a clean, modern cover aesthetic and durable cast iron body that can be used in a variety of institutional environments requiring ADA compliance.



FEATURES

- Cast iron closer body
- Non-handed
- Rack-and-pinion design
- Standard, separate and independent, latch, sweep and backcheck intensity valves
- Pressure relief valves for both opening and closing cycles protect the door and frame from damage and reduces maintenance costs
- Staked valves
- 2-1/4" (57mm) projection
- 1-1/2" (38mm) diameter piston
- 5/8" (16mm) diameter pinion journals
- Closer mounting plate for easy installation
- Tri-style® packaging: packed for regular, top jamb or parallel arm mounting
- Adjustable spring sizes 1-6
- Door weight: 250 lbs.
- Molded ABS plastic cover
- All standard arm applications allow doors to swing 180°, conditions permitting
- Heavy-duty arms: Regular Rigid, Parallel Rigid, CloserPlus®, Parallel Rigid Offset and Unitrol®
- Slide Tracks: push or pull side mounting
- 30-year limited warranty

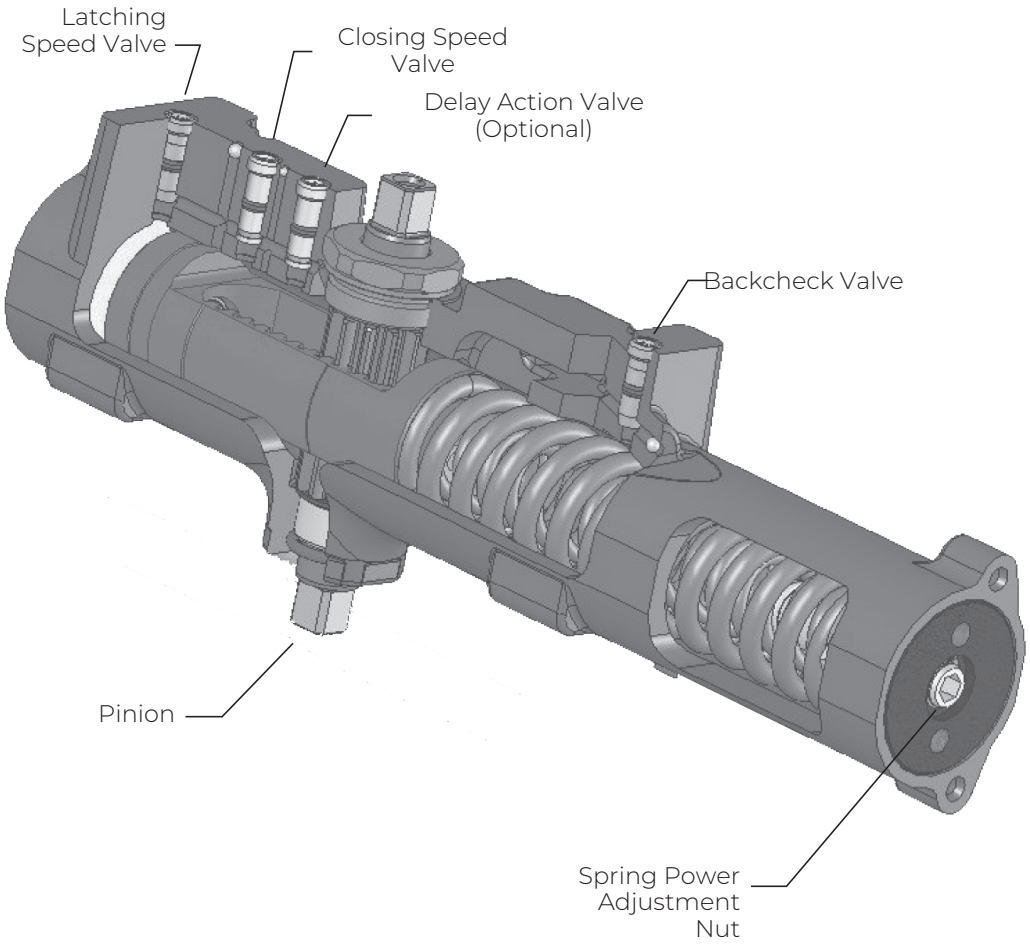
OPTIONAL FEATURES

- Metal cover
- Delayed action

NORTON RIXSON
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9500
CAST IRON DOOR CLOSER

OVERVIEW



CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 1
- ANSI/BHMA A117.1
- Americans with Disabilities Act (ADA) Compliant
- Environmental Product Declaration (EPD)
- GreenCircle certified environmental facts
- UL10C positive pressure up to 3 hours
- UL-cUL listed
- Manufactured in an ISO 9001, ISO 14001 facility

CAUTION: Door Closers for Low Opening Force Applications:
Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

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9500
CAST IRON DOOR CLOSER

SPECIFICATIONS

Door closers shall be of full rack and pinion construction with a cold headed heat-treated steel spindle and a forged steel piston precision machined and heat treated. The case shall be of cast iron. All closers for both interior and exterior doors shall be the product of one manufacturer.

Surface closers shall be adjustable to provide sizes 1 though 6 and comply with ADA. All sizes shall be accommodated in one closer body.

Closing shall be controlled by two valves — one to control closing speed and one to control latching speed. Valves shall be concealed against unauthorized adjustment and be non-critical with “O” ring seals. Delayed action shall be available and shall be accomplished with a separate valve.

All arms shall be finely finished with heavy duty forged steel main arm. All closers shall be suitable for regular arm, top jamb, and parallel arm mounting and track type applications when provided with proper brackets and arms. Hold open and heavy duty arms are available. Closers mounted regular arm, top jamb and parallel arm shall allow for full 180° door opening, trim permitting.

Closers shall be available with an adjustable backcheck intensity valve with a safety feature that automatically relieves internal pressure when backcheck has reached the desired adjustment level. Valves shall be accessible without removing the closer from the door.

Closers shall be available with a backcheck intensity valve. Backcheck begins at approximately 70° of door opening for all applications. This valve shall be operative on regular, top jamb, parallel arm, and track type mountings.

Closer covers shall be non-handed to meet a variety of door conditions and design requirements. Closer covers shall be of high impact plastic material of flame retardant grade, secured by machine screws. Projection of the closer body from the door shall not exceed 2-1/4". Closers shall be capable of mounting on 1-3/4" top rail or inverted mounting on 1-3/4" top jamb. Metal covers shall be available. All closers with metal covers shall be available in architectural finishes to match corresponding door hardware.

Closers without hold open shall be regularly furnished with power adjustment arm bracket capable of providing a 15% power adjustment.

A mounting bracket to attach the closer shall be regularly furnished.

Hydraulic fluid shall be of a type requiring no seasonal valve readjustment due to extreme temperature variations.

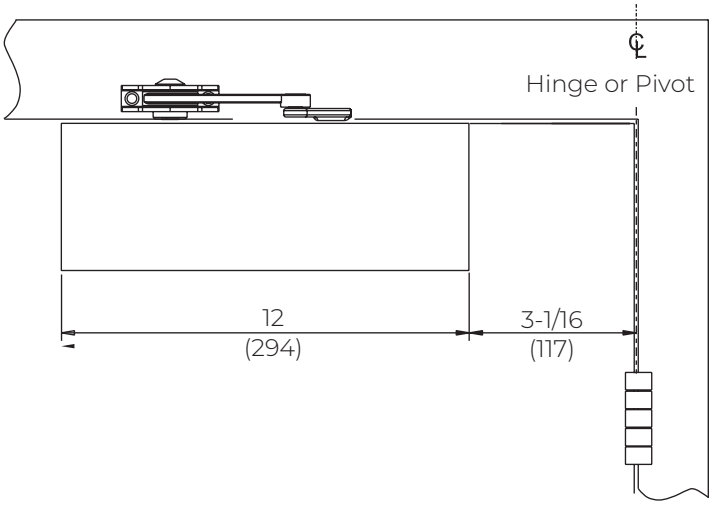
Closer shall have a 30-year limited warranty.

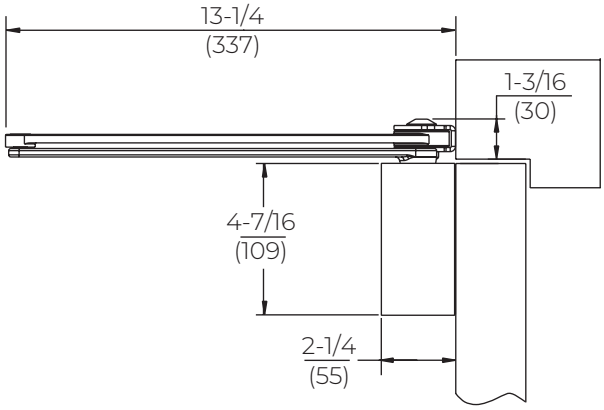
Closers with non-hold open arms shall be listed by Underwriters Laboratories.

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CAST IRON DOOR CLOSER

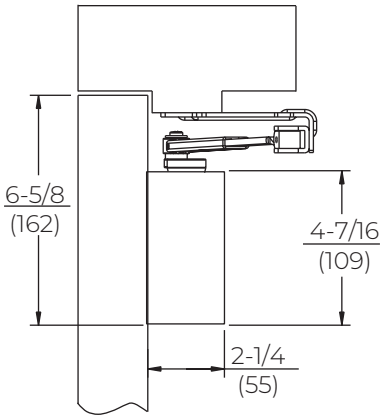
TECHNICAL DETAILS – REGULAR ARM

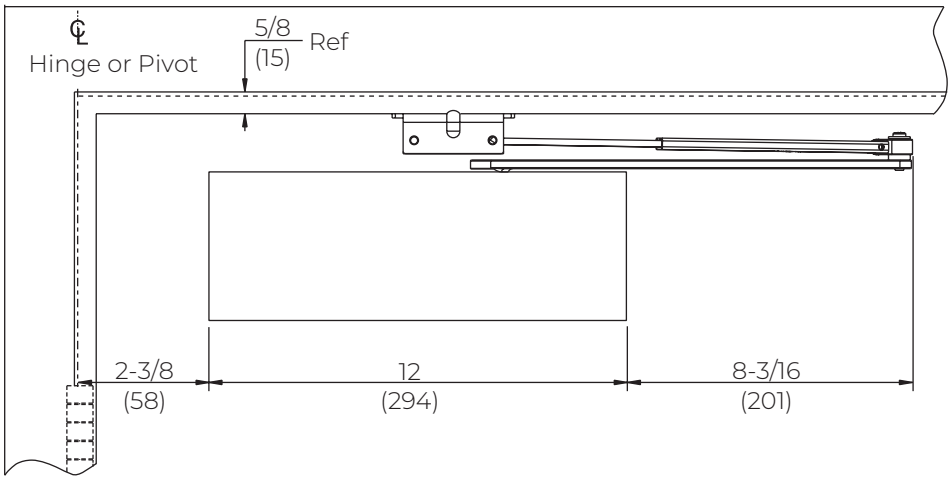




Arm Function	Minimum Header	Minimum Top Rail	Maximum Door Swing
Non-hold open	1-1/2" (38)	3" (76)	180° (trim permitting)
Hold open	1-11/16 (43)		90°-180°

TECHNICAL DETAILS – PARALLEL ARM





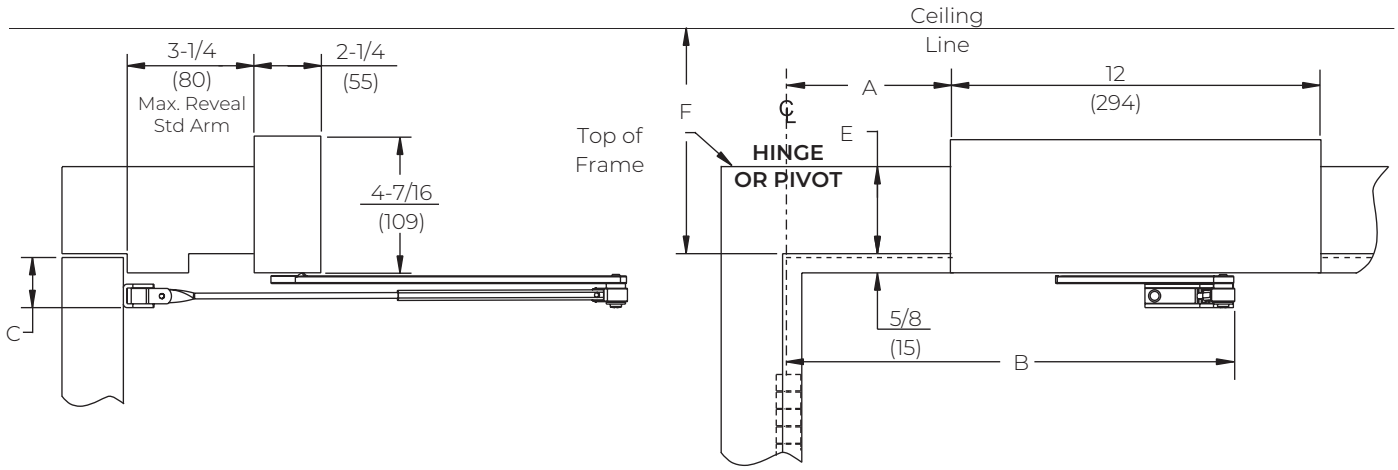
Arm Function	Minimum Top Rail
Non-hold open	5-1/4" (133)
Hold open	

NOTES:
- Mounting holes for mounting bracket are spaced 1" (25mm) x 10" (254mm).
- Closers are tri-packed for regular arm, parallel arm and top jamb mounting. Parallel arm bracket is included.

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TECHNICAL DETAILS – TOP JAMB



Maximum Opening	A	B	Hinge Condition
110°	7" (172)	16-1/16" (394)	Butts, Offset Pivots, and Swing Clear Hinges
140°	5-1/2" (135)	14-5/16" (351)	
180°	4" (98)	13-1/16" (320)	
140°	5-1/2" (135)	14-7/16" (354)	^Center Hung

Header Width	C Minimum Top Rail	E Header	F Ceiling Clearance
Standard	1-7/8" (48)	2-1/8" (54)	4" (102)
Narrow	2-1/4" (57)	2" (49)	3-5/8" (92)

Dimensions “A” and “B” are taken from centerline of hinge as shown and apply to pivot point of swing clear hinges. Offset and center hung pivots.

^Must be single-acting door.

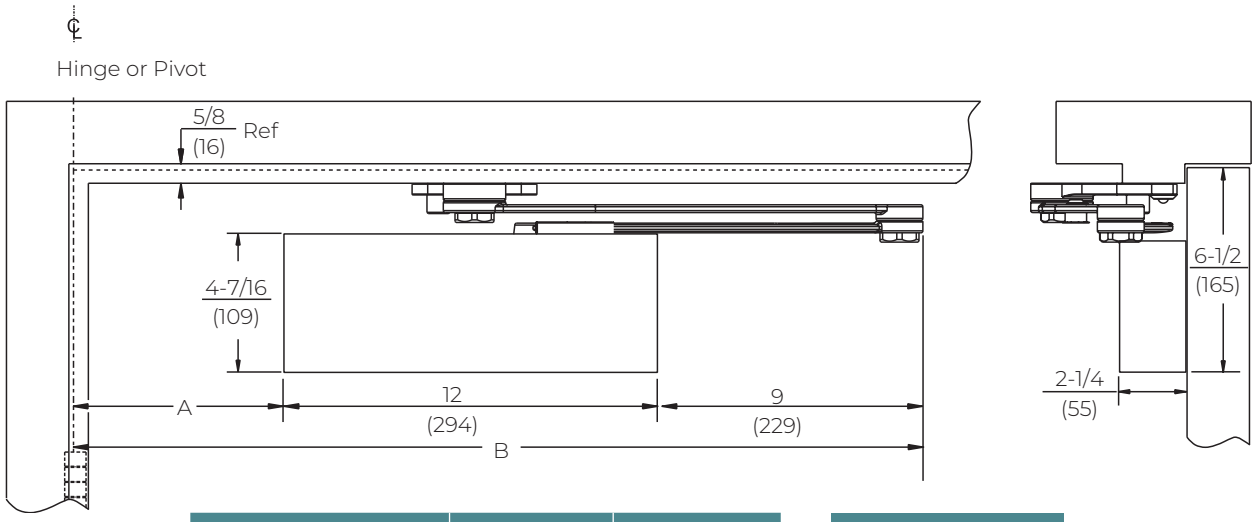
NOTES:

- Mounting holes for mounting bracket are spaced 1" (25mm) x 10" (254mm).
- Closers are tri-packed for regular arm, parallel arm and top jamb mounting. Parallel arm bracket is included.

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CAST IRON DOOR CLOSER

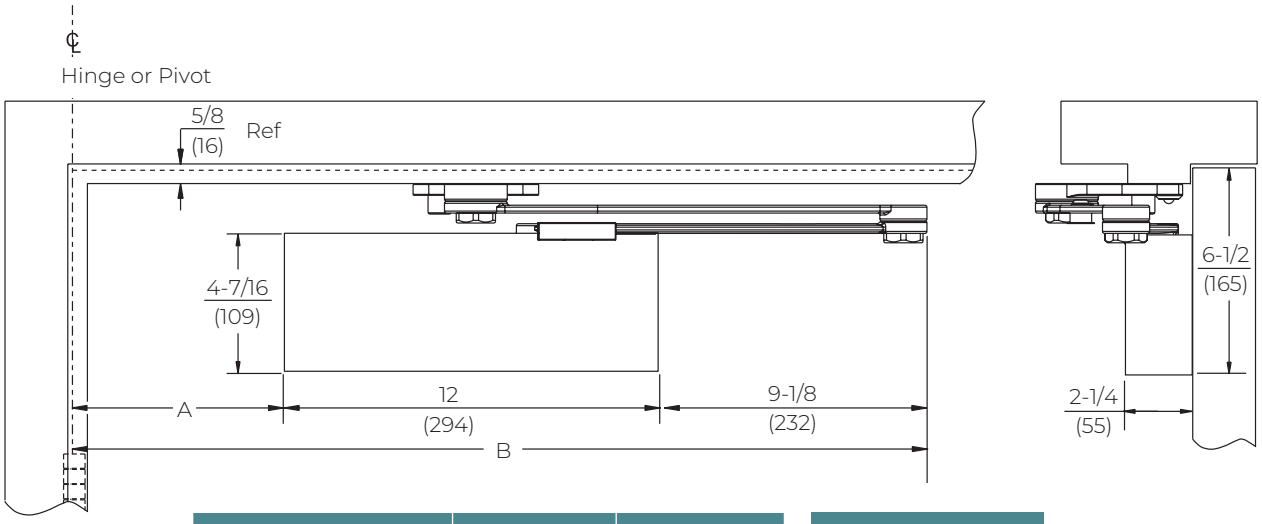
TECHNICAL DETAILS – PARALLEL RIGID ARM



Maximum Opening	A	B
90°	6-7/8" (175)	27-7/8" (708)
180°	2-7/8" (73)	23-7/8" (606)

Minimum Top Rail
5" (127)

TECHNICAL DETAILS – PARALLEL RIGID, FRICTION HOLD OPEN ARM



Maximum Opening	A	B
90°	6-1/2" (165)	27-5/8" (702)
180°	2-1/2" (64)	23-5/8" (600)

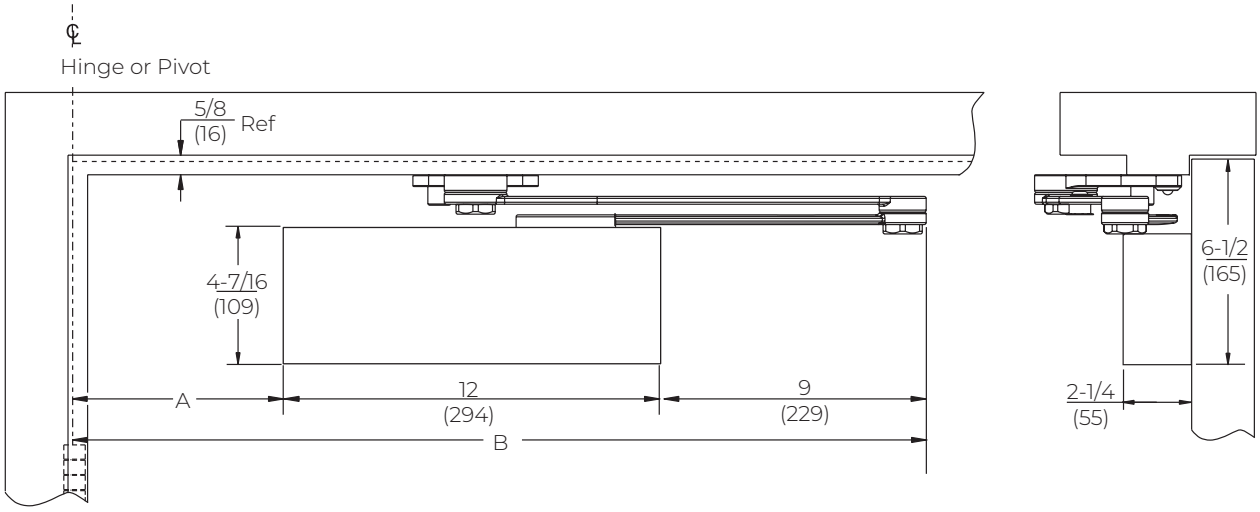
Minimum Top Rail
5" (127)

NOTE:
- Mounting holes for mounting bracket are spaced 1" (25mm) x 10" (254mm).

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CAST IRON DOOR CLOSER

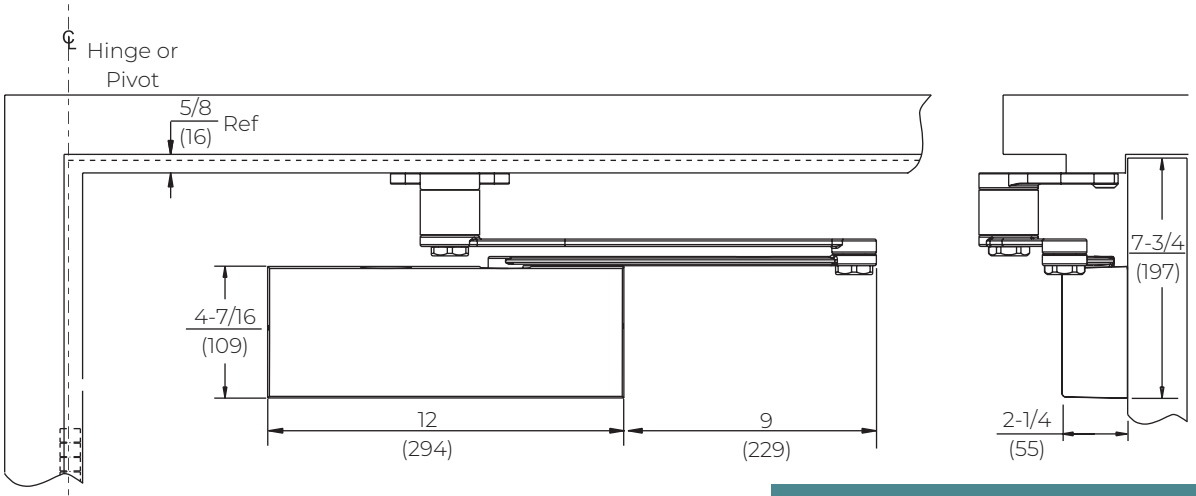
TECHNICAL DETAILS – CLOSER PLUS® ARM



Maximum Opening	A	B
85°	7-3/4" (197)	28-3/4" (730)
90°	6-3/4" (171)	27-3/4" (708)
100°	5-1/4" (133)	26-1/4" (667)
110°	3-7/8" (98)	24-7/8" (631)

Minimum Top Rail
5" (127)

TECHNICAL DETAILS – PARALLEL RIGID, FRICTION HOLD OPEN ARM



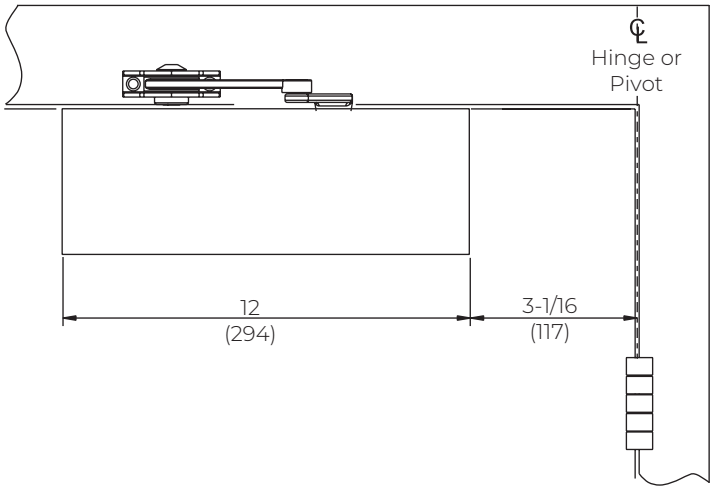
NOTE:
- Mounting holes for mounting bracket are spaced 1" (25mm) x 10" (254mm).

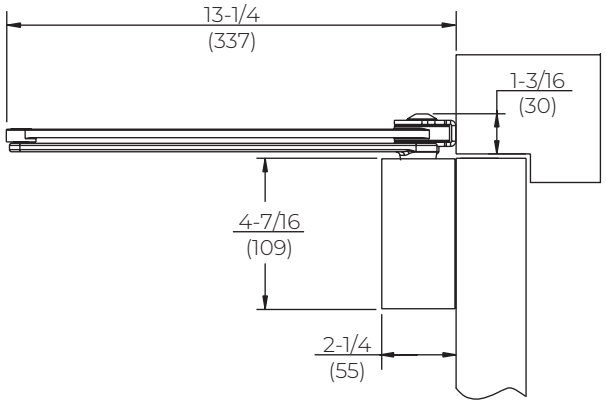
Minimum Top Rail of Door with 5/8" (16mm) Frame Stop	
Without 9500-1/2SP Spacer	With 9500-1/2SP Spacer
6-7/8" (175)	7-3/8" (187)

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CAST IRON DOOR CLOSER

TECHNICAL DETAILS – REGULAR RIGID ARM





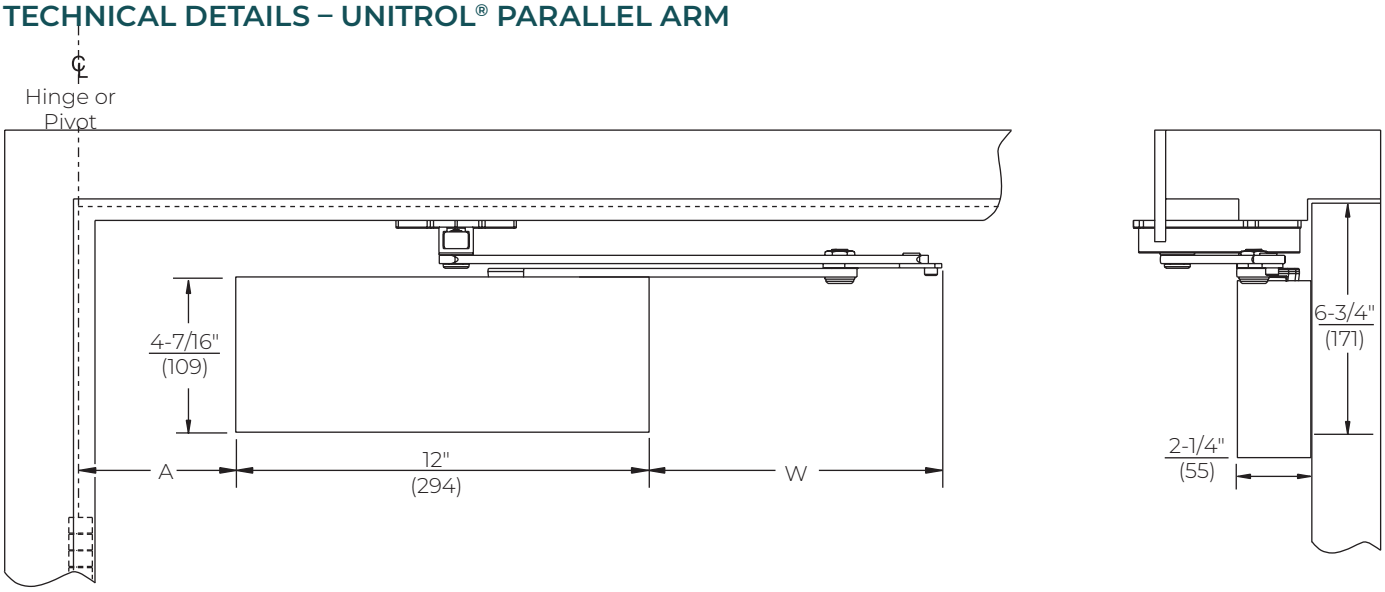
Minimum Header	Minimum Top Rail
1-5/8" (41)	3" (76)

NOTE:
- Mounting holes for mounting bracket are spaced 1" (25mm) x 10" (254mm).

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CAST IRON DOOR CLOSER

TECHNICAL DETAILS – UNITROL® PARALLEL ARM



Opening		Doors 28" - 32"		Doors 33" - 41"		Doors 42" - 48"	
Hold Open	Dead Stop	A	W	A	W	A	W
85°	90°	4-3/4" (121)	8-1/2" (216)	5-3/8" (137)	10" (254)	5-7/8" (149)	11-3/8" (289)
90°	95°	4-1/4" (108)		4-7/8" (124)		5-3/8" (137)	
95°	100°	3-3/4" (95)		4-3/8" (111)		4-7/8" (124)	
100°	105°	3-3/8" (86)		3-7/8" (98)		4-3/8" (111)	
105°	110°	3" (76)		3-1/2" (89)		4" (102)	
110°	115°	2-3/4" (70)		3-1/4" (82)		3-5/8" (92)	

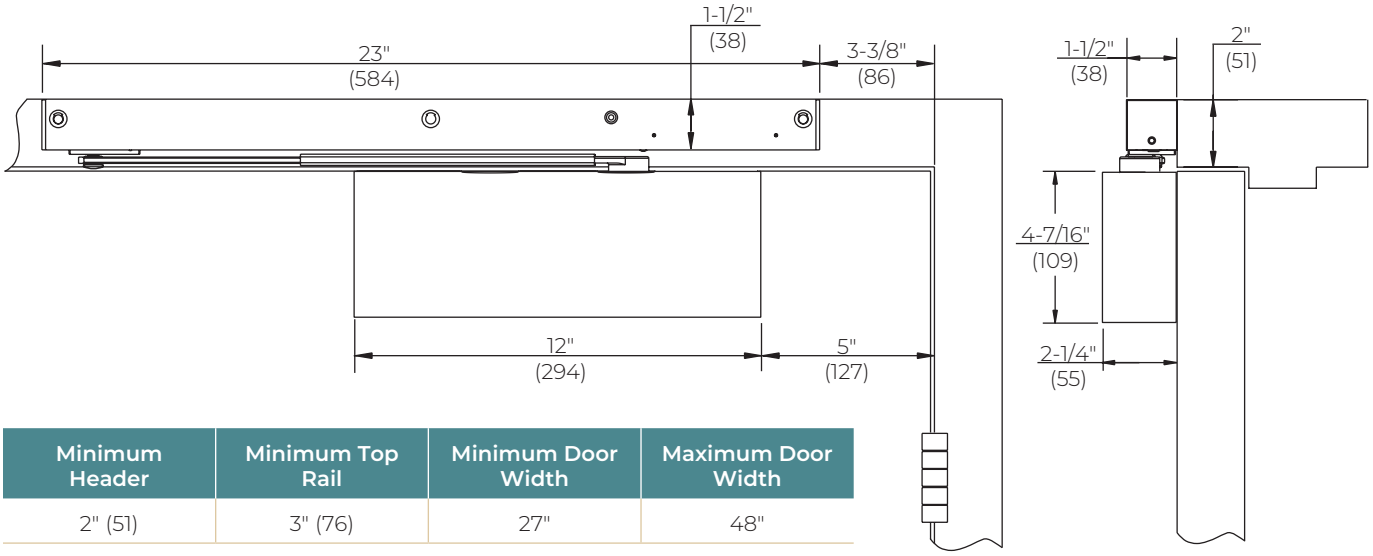
Minimum Top Rail
5" (127)

NOTE:
- Mounting holes for mounting bracket are spaced 1" (25mm) x 10" (254mm).

NORTON RIXSON
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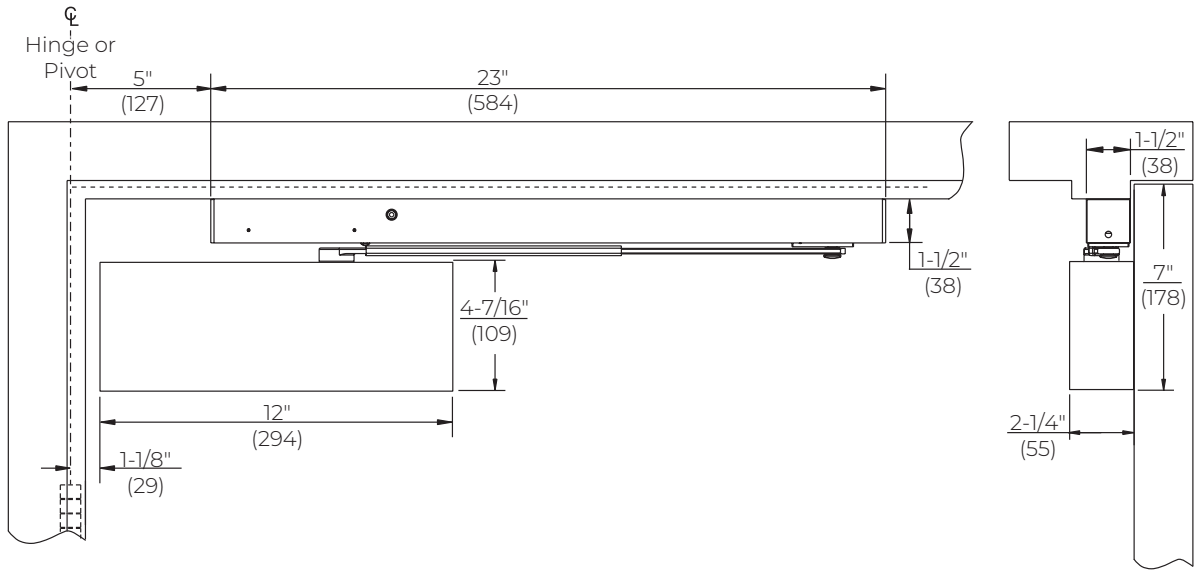
9500
CAST IRON DOOR CLOSER

TECHNICAL DETAILS – PULL SIDE MOUNTING



Minimum Header	Minimum Top Rail	Minimum Door Width	Maximum Door Width
2" (51)	3" (76)	27"	48"

TECHNICAL DETAILS – PUSH SIDE MOUNTING



Minimum Top Rail	Minimum Door Width
5-1/2" (140)	29"

NOTE:
- Mounting holes for mounting bracket are spaced 1" (25mm) x 10" (254mm).

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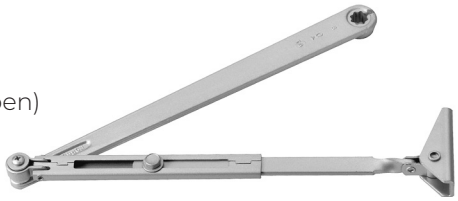
9500
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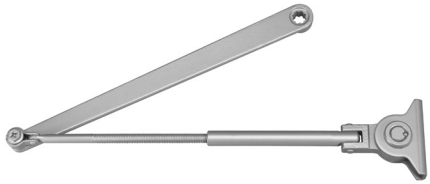
ARM OPTIONS

Regular Arm

9501-1
(Non-Hold Open)



9501-3
(Hold Open*)



- Used with regular arm mounting (pull side) and top jamb mounting (push side)
- Available in painted or plated finishes

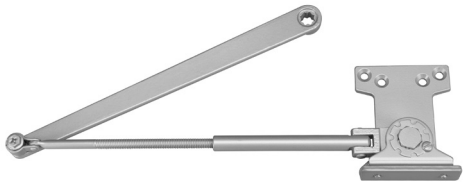
	Part Number	Description
Non-Hold Open	9501-1W	Main arm & tube assembly
	9501-11	Rod & shoe assembly
	9500-HS	Hex screw package
Hold Open	9501-3W	Main arm & rod assembly
	9501-13	Hold open bracket assembly

Parallel Arm

9501-5
(Non-Hold Open)

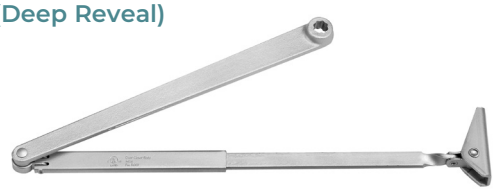


9501-8
(Hold Open*)



- Mounted on push side
- Non-hold open arm – combines regular arm with parallel arm mounting bracket
- Hold open arm – combines regular hold open arm with parallel arm mounting bracket
- Available in painted or plated finishes

Top Jamb (Deep Reveal)



- Accommodates top jamb mounting for reveals from 3-3/8" (86mm) up to 7-1/4" (184mm), depending on door and frame conditions
- Mounted on push side
- Available in painted or plated finishes

	Part Number	Description
Non-Hold Open	**9501-1B**	**Arm Assembly**
	9501-2W	Main arm & arm tube assy
	9501-11B	Rod & shoe assembly
Hold Open	**9501-3B**	**Arm Assembly**
	9501-3WB	Main arm & rod assy
	9501-13	Hold open bracket assy

Specify finish when ordering arms.
*Not allowed by code on fire doors.

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ARM OPTIONS

Parallel Rigid Arm

PR9501-5
(Non-Hold Open)



- Recommended for high-use, high-abuse environments
- Tamper-resistant, solid forged steel riveted arm
- Mounted on push side
- Not available in plated finishes

Parallel Rigid - Friction Hold Open Arm*



- Recommended for high-use, high-abuse environment
- Requires auxiliary stop
- Allows door to swing 180°, conditions permitting
- Handed
- Mounted on push side
- Not available in plated finishes

Arm Assemblies	Handing
PR9501-8R	Right hand
PR9501-8L	Left hand

CloserPlus® Arm

9770-5
(Non-Hold Open)



9870T-8
(Hold Open)*



- Recommended for high-use, high-abuse environments
- Tamper-resistant, solid forged steel riveted arm (mounted on push side)
- Field-reversible steel lug restricts degree of opening to protect door, wall and hardware
- Requires both backcheck valves on closer
- Shipped standard as left hand. Handing can be reversed in the field
- Not available in plated finishes

Specify finish when ordering arms.
*Not allowed by code on fire doors.

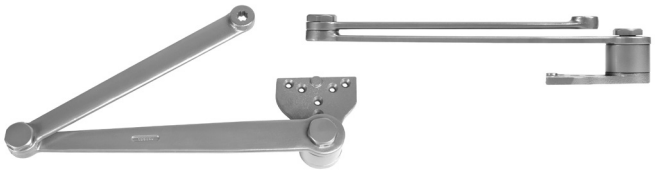
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CAST IRON DOOR CLOSER

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ARM OPTIONS

Parallel Rigid Offset Arm



Arm Assemblies	Arm Function
PRO9501-5	Non-hold open

- Recommended for high-use, high-abuse environments
- Provides additional vertical clearance
- Mounted on push side
- Not available in plated finishes

Standard Clearance	Blade Spacer Part Number	Total Clearance
1-3/4"	9500-1/2SP	2-1/4"
	9500-5/8SP	2-3/8"

Regular Rigid Arm

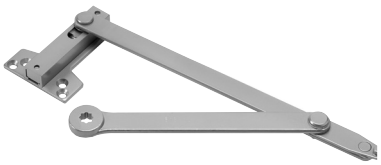
R9501-1
(Non-Hold Open)



- Recommended for high-use, high-abuse environments
- Tamper-resistant, solid forged steel riveted arm
- Mounted on pull side
- Not available in plated finishes

Unitrol® Parallel Arm

(Non-Hold Open)



(Hold Open)*



- Recommended for high-use, high-abuse environments
- Integrates a door closer, shock absorber and auxiliary heavyduty overhead stop
- Requires both backcheck valves on the closer
- Hold open*
  - Holder mechanism tension adjustable
  - Hold open can be engaged/disengaged with a 1/4 turn of the mechanism with a standard blade type screwdriver
- Not available in plated finishes

Door Width	Arm Assemblies	
	Non-Hold Open	Hold Open*
28" - 32" (71cm - 81cm)	**9100-11**	**9100-1**
33" - 41" (84cm - 104cm)	**9100-13**	**9100-3**
42" - 48" (107cm - 122cm)	**9100-14**	**9100-4**

Specify finish when ordering arms.
*Not allowed by code on fire doors.

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TRACK OPTIONS

Pull Side Track



- Provides a clean aesthetic look with maximum 100° door swing and a minimum door width of 28" (71cm)
- Mounted on pull side
- Hold open can be set for 85°, 90°, 95°, or 100°
- Not available in plated finishes

	Part Number	
Arm/Track Function	Track Only	Arm Only
Non-Hold Open	9501ST-1T	9501ST-1A
Hold Open	9501ST-3T	

Push Side Track



- Clean aesthetic look for doors opening a maximum of 100˚ and a minimum door width of 32" (81cm)
- Backcheck option recommended
- Mounted on push side
- Hold open*
  - From 85° to 100°
  - Turn knob offers the use the option of turning hold open on or off
- Not available in plated finishes

	Part Number	
Arm/Track Function	Track Only	Arm Only
Non-Hold Open	9501ST-5T	9501ST-1A
Hold Open	9501ST-8T	

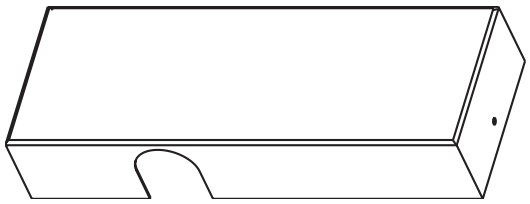
Specify finish when ordering arms.
*Not allowed by code on fire doors.

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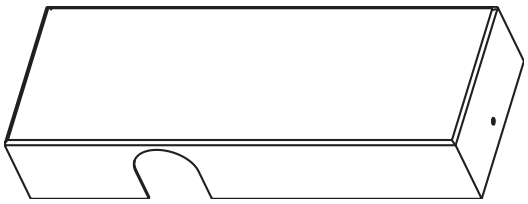
COVERS AND PLATES

Full Plastic Cover



9500P
- Completely covers closer body
- Non-handed
- Dimensions: 12" (294) x 4-7/16" (109) x 2-1/4" (55)
- Available in painted finishes only

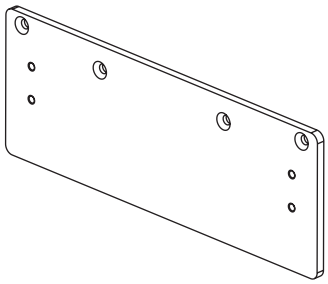
Full Metal Cover



- For use in high-abuse applications
- Specify hand; not field reversible
- Dimensions: 12" (294) x 4-7/16" (109) x 2-1/4" (55)
- Available in painted and plated finishes

Part Numbers	Handing
9500M-R	Right hand
9500M-L	Left hand

Drop Plate



- Permits parallel arm or top jamb mounting on door when top rail is too narrow to install closer in the regular manner
- Minimum 2" (51mm) top rail required
- To order separately, specify Part No. x Finish

Drop Plate	Used with:
9586	Regular arm or pull side track
9587	Top jamb
9588	Parallel arm or push side track

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BRACKETS

Mounting Bracket



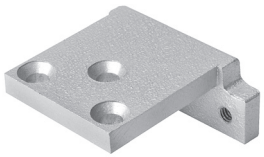
9500-CMB
- Standard on all closers
- Reduces installation time
- Ensures correct mounting
- Bracket is first mounted to door or frame, then closer is attached
- Bracket size: 3-5/8" (92mm) x 11-1/2" (292mm)
- Hole spacing: 1" (25mm) x 10" (254mm)

Parallel Arm Hold Open Bracket



9528H
- Converts regular arm hold open to parallel arm hold open closer
- Standard with parallel arm hold open mounting

Mortise Arm Bracket for Regular Arm Mounting



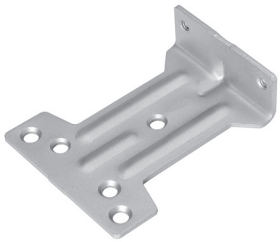
9500-MAB
- For regular arm mounting where frame requires reinforcement, i.e., on frames with bull nose trim
- Not available in plated finishes

Parallel Arm Offset Bracket



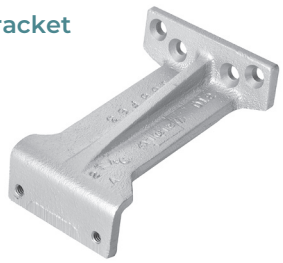
9500-OB
- Required when parallel arm is used in conjunction with an overhead door holder

Parallel Arm Non-Hold Open Bracket



9518
- Converts regular arm to parallel arm closer
- Standard with parallel arm mounting

Parallel Arm Flush Transom Bracket



9500-PFTB
- Required when parallel arm mounting is used on a flush transom application
- Not available in plated finishes

Specify finish when ordering parts.

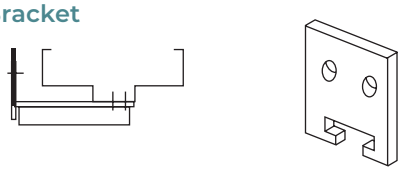
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BRACKETS

Reinforcing Bracket



9500-RB
- Supplied as standard for use with Unitrol® arms
- Provides additional support to the soffit plate on installations with door frame reveals from 1-7/8" to 4-5/8" (48 to 117mm)
- Not available in plated finishes

Flush Transom Bracket



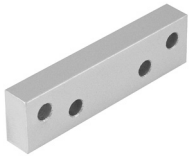
9500-FTB
- Available separately for mounting Parallel Rigid and CloserPlus® arms rabbeted or flush transom conditions
- Not available in plated finishes

Deep Reveal Reinforcement Kit



9500-DRK
- For use with Unitrol® arms
- Used to support the soffit plate on installations with wide frames.
- Clamps may be used with or without the spacer block, depending on frame conditions
- Not available in plated finishes
- For frames deeper than 4-5/8" (117mm), specify closer x 9500-DRK

Blade Stop Spacer*



Spacer Size	Part Number
1/2"	**9500-1/2SP**
5/8"	**9500-5/8SP**

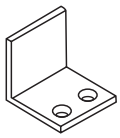
*Not for use with Unitrol arms

Flush Partition Bracket



9500-FPB
- For use with Unitrol® arms where rabbeted or flush transom conditions prevent installation of the soffit plate assembly
- Bracket fastens to the overhead transom to provide a mounting surface for the soffit plate assembly
- Specify closer x 9500-FP

Angle Support Bracket



9500-AB
- Available separately for mounting Parallel Rigid and CloserPlus® arms heavy-duty arms on narrow frame or soffit conditions
- Specify closer x 9500-AB

Power Adjustment Arm Bracket

Maximum Power



Normal Power



- Standard on all closers without hold open, except heavy-duty and track type
- In regular arm or top jamb mounting, bracket may be reversed to increase closing power 15%

Specify finish when ordering parts.

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CAST IRON DOOR CLOSER

PARTS LIST

Door Closer Body Assemblies

Part Number	Description
9500LAP	Multi-size closer body

SCREW PACKS

SP9500	Standard screw package
SP9500SN	Standard screw pack (includes sex nuts)
SP9500SNB	Sex Nuts and Bolts (SNB) for 1-3/4" door
95ASW	Main arm screw & washer
SP9500COV	Cover screw pack
TBGN134-95	Through Bolts & Grommet Nuts

FASTENERS

Self drilling screws (for properly reinforced wood and metal doors) are supplied standard.

Sleeve nuts and bolts (SNB) are supplied standard with Parallel Rigid, CloserPlus® and Unitrol® arms and Slide Track (push and pull) closers. SNB's are optional for Tri-Style® packed closers (Regular, Top Jamb and Parallel arms). Torx® machine screws are optional for all 9500 series.

TORX® SCREW PACKS

Arm Type	Part Number
Regular, Top Jamb & Parallel	TX95
Parallel Rigid, CloserPlus®	PRTX95
Regular Rigid heavy-duty	RTX95
Unitrol®	UNITX95
Slide track	TXTK95
70TK	Torx® tool kit

FINISHES

Norton Rixson offers waterborne acrylic, polyster powder coat and plated finishes. Custom finishes are available on special order. A sample and approval is required.

Waterborne acrylic and polyester powder coat will withstand 100 hours of salt spray (ANSI requires 25 hours).

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613E (US10BE)	Dark oxidized satin bronze - equiv.
619 (US15)	Satin nickel plated, clear coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat
600^	Prime coat

^ 600 is a special rust-inhibiting prime coat. Closers can be ordered prime coat only (specify closer x 600). An additional charge applies if finish coat is required over prime coat.

* Closer bodies and plastic covers are available in waterborne acrylic finishes. Arms and metal covers are available in powder coat or plated finishes.

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HOW TO ORDER

NOTE: For optimum protection of door and frame assemblies, always use auxiliary wall, floor, or overhead door stop. Auxiliary stop is required in abusive applications.

PR	9500	H	689
Prefixes	**Closer Series**	**Suffixes**	**Finish** (see page 228)

No Prefix } 9500 series designates Tri-Style® packaging (regular arm, top jamb and parallel arm)
PR – Parallel Rigid arm (parallel arm only); specify hand for hold open functions.
PRO – Parallel Rigid arm with offset soffit plate (parallel arm only); specify hand for hold open applications.
PS – 9500ST for push side mounting only.
R – Rigid heavy-duty regular arm. (Torx® screws not included).
CLP – CloserPlus® arm (parallel arm only).
UNI – Unitrol® arm (parallel arm only - specify **door width**). Frame reveals 1-7/8" to 4-5/8" (48-117mm) standard.

None – Non-hold open arm function.
H – Hold open arm function (specify hand when "PR" prefix is ordered).
M – Metal cover.
DA – Optional delayed action feature.
ST – Slide track - single lever arm (auxiliary stop recommended). For push side - prefix PS.
T – Thumbturn hold open on CloserPlus® (CLP).

NOTE:
- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).

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9540
CAST IRON DOOR CLOSER

INTRODUCTION

The 9540 Series are premium, cast iron door closers for moderate-to-high traffic applications with ANSI/BHMA Grade 1 certification for a long-life of reliability. A direct replacement for LCN 4040XP door closers, the 9540 Series is an ideal retrofit solution for retail, office, government and other commercial facilities.



FEATURES

- Cast iron closer body
- Retrofits LCN 4040XP
- Non-hold open
- Non-handed
- Rack-and-pinion design
- Standard, separate and independent, latch, sweep and backcheck intensity valves
- Pressure relief valves for both opening and closing cycles, protect the door and frame from damage, and reduces maintenance costs
- Staked valves
- 2-1/4" (57mm) projection
- 1-1/2" (38mm) diameter piston
- 5/8" (16mm) diameter pinion journals
- Mounting bracket
- Tri-style® packaging: packed for regular, top jamb or parallel arm mounting
- Adjustable spring sizes 1-6
- Door weight: 250 lbs.
- Molded ABS plastic cover
- 30-year limited warranty

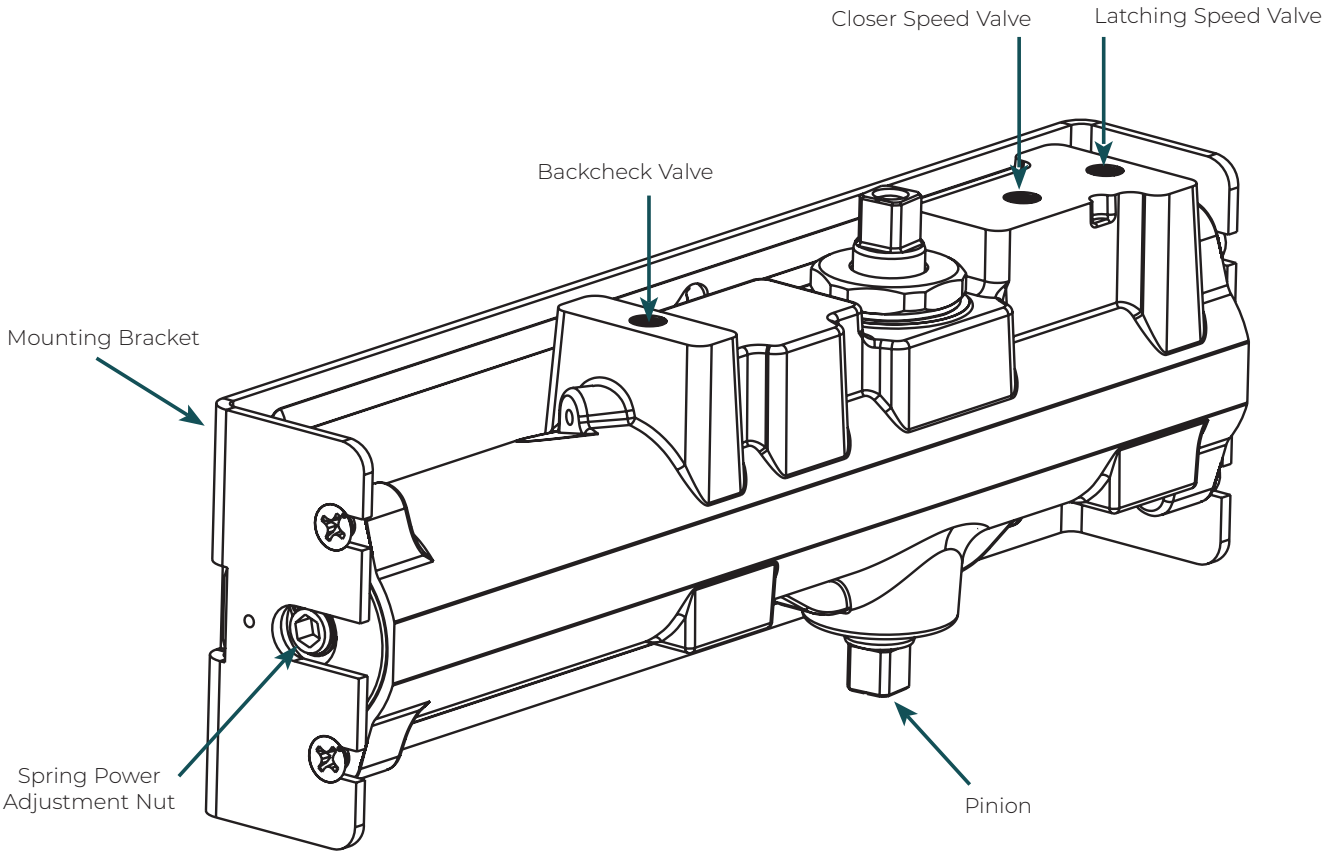
OPTIONAL FEATURES

- Metal covers
- Delayed action

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9540
CAST IRON DOOR CLOSER

OVERVIEW



CERTIFICATIONS

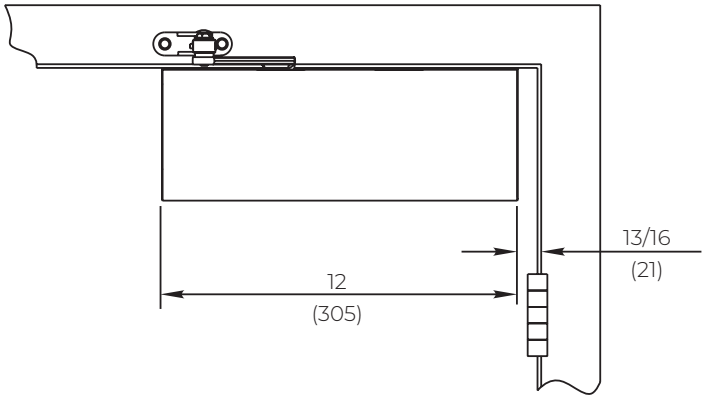
- ANSI/BHMA A156.4, Grade 1
- ANSI/BHMA A117.1
- Americans with Disabilities Act (ADA) Compliant
- UL10C positive pressure up to 3 hours
- UL-cUL listed
- Manufactured in a ISO 9001, ISO 14001 facility

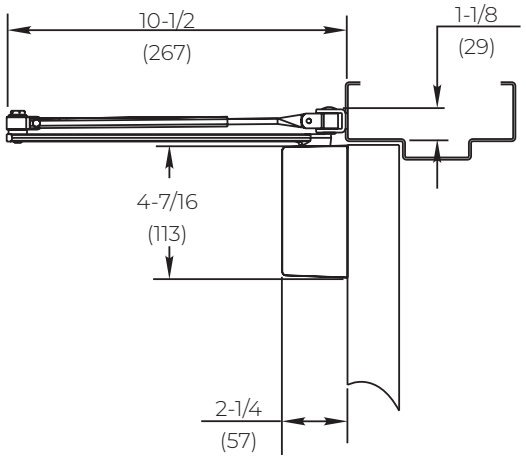
CAUTION: Door Closers for Low Opening Force Applications:
Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

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9540
CAST IRON DOOR CLOSER

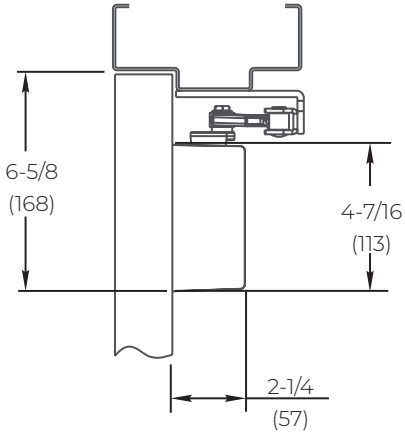
TECHNICAL DETAILS-REGULAR ARM

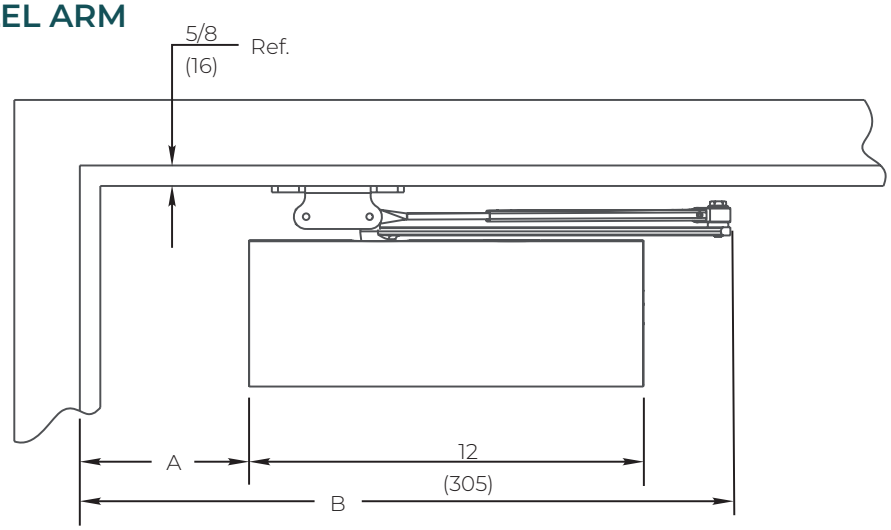




Maximum Door Swing: 120°

TECHNICAL DETAILS - PARALLEL ARM



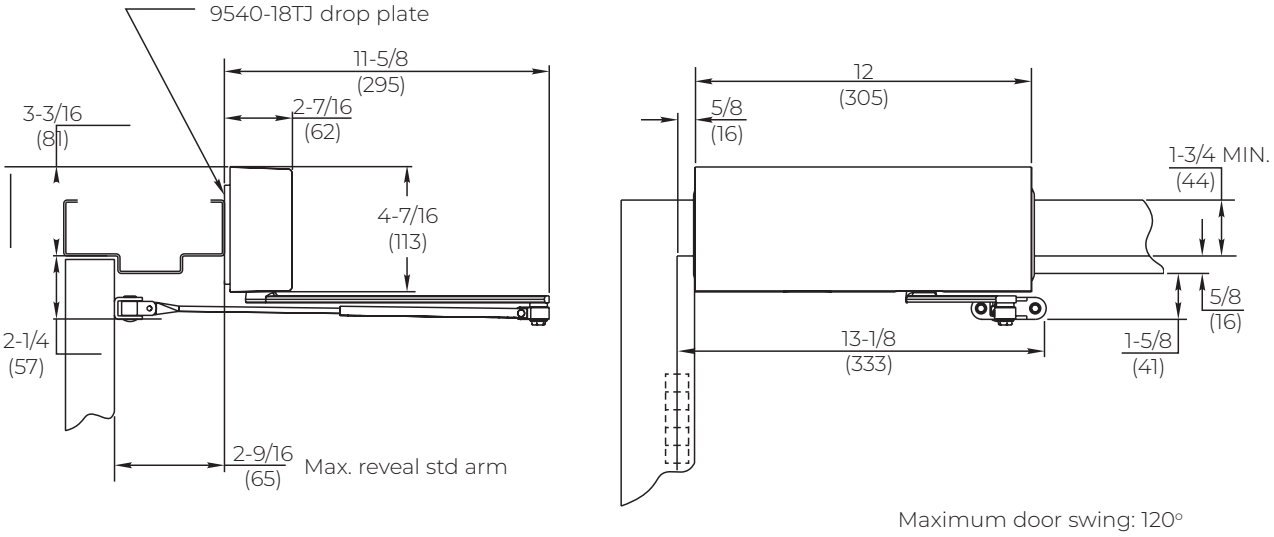


Door Swing	Dimension "A"	Dimension "B"
90°	8-3/16 (208)	22-7/8 (581)
120°	6-5/8 (168)	21-3/8 (543)
180°	5-3/16 (132)	19-7/8 (505)

Minimum top rail: 5-5/8" (143)

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TECHNICAL DETAILS - TOP JAMB



Note:

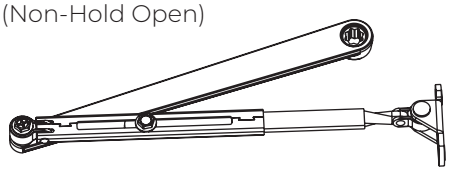
- Closers are tri-packed for regular arm, parallel arm and top jamb mounting. Parallel arm bracket is included.

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9540
CAST IRON DOOR CLOSER

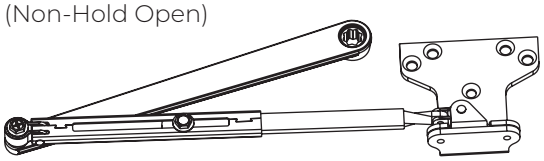
ARM OPTIONS

Regular & Top Jamb Arms
9541-1
(Non-Hold Open)



- Used with regular arm mounting (pull side) and top jamb mounting (push side)
- Top jamb arm will accommodate reveals up to 2-9/16" (65mm)
- Available in painted or plated finishes

Parallel Arm
9541-5
(Non-Hold Open)

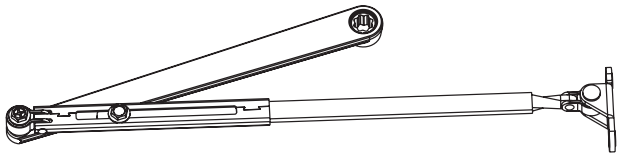


- Mounted on push side
- Non-hold open arm – combines regular arm with parallel arm mounting bracket
- Hold open arm – combines regular hold open arm with parallel arm mounting bracket
- Available in painted or plated finishes

Top Jamb (Deep Reveal)

(Non-Hold Open)

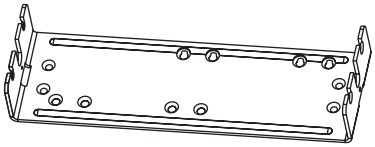
Arm Assembly	Reveal
9541-1A	2-9/16" – 4-13/16" (65-122mm)
9541-1B	4-13/16" – 8" (122-203mm)



- Mounted on push side
- Available in painted or plated finishes

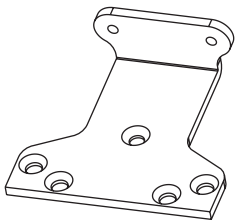
Mounting Bracket
9540-CMB

- Standard on all closers
- Reduces installation time
- Ensures correct mounting
- Bracket is first mounted to door or frame, then closer is attached
- Bracket size: 3-5/8" (92mm) x 11-1/2" (292mm)
- Hole spacing: 1" (25mm) x 10" (254mm)



Parallel Arm Non-Hold Open Bracket
9548

- Converts regular arm to parallel arm closer
- Standard with parallel arm mounting



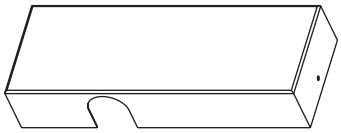
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COVERS AND PLATES

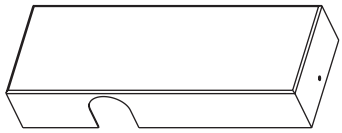
ABS Plastic Cover
9500P

- Completely covers closer body
- Non-handed
- Dimensions: 12" (294) x 4-7/16" (109) x 2-1/4" (55)
- Available in painted finishes only



Metal Cover

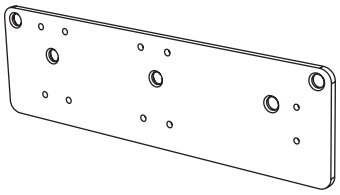
- For use in high-abuse applications
- Specify hand; not field reversible
- Dimensions: 12" (294) x 4-7/16" (109) x 2-1/4" (55)
- Available in painted and plated finishes



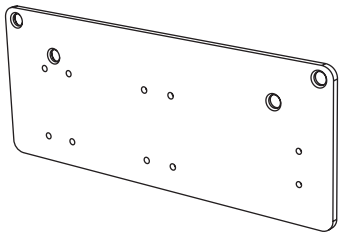
Part Numbers	Handing
9540M-1	Right hand application
9540M-2	Left hand application

DROP PLATES

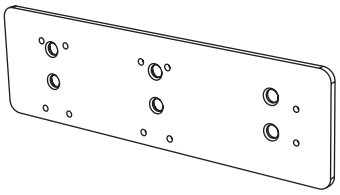
9540-18 Regular Arm



9540-18PA Parallel Arm



9540-18TJ Top Jamb



For top jamb mounting with low ceiling clearance, contact Technical Product Support Dept. at 877-974-2255 x 2

PARTS LIST

Door Closer Body Assemblies

Part Number	Description
9500LAP	Multi-size closer body

LAP = less all parts

SCREW PACKS

Part Number	Description
SP9540	Standard screw package
SP9540SNB	Sex nuts and bolts (SNB) for 1-3/4" door
95ASW	Main arm screw & washer
SP9500COV	Cover screw pack
TBGN134-95	Through Bolts & Grommet Nuts

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9540
CAST IRON DOOR CLOSER

HOW TO ORDER

NOTE: For optimum protection of door and frame assemblies, always use auxiliary wall, floor, or overhead door stop. Auxiliary stop is required in abusive applications.

J	9540	M	689
Prefixes	Closer series	Suffixes	Finish

No Prefix – Tri-style® packaging includes 9548 parallel arm bracket
J – Top jamb installation reveals 2-9/16" - 4-13/16" (65-122mm)
JL – Top jamb installation reveals 4-13/16" - 8" (122-203mm)

None – Non-hold open arm function
M – Metal cover; specify handing
DA – Optional delayed action feature

Fasteners

Self drilling screws (for properly reinforced wood and metal doors) are supplied standard.

Sex nuts & bolts (SNB's) are optional for Tri-Style® packed closers (regular, top jamb and parallel arms).

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613E (US10BE)	Dark oxidized satin bronze - equiv.
619 (US15)	Satin nickel plated, clear coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat
600^	Prime coat

^ 600 is a special rust inhibiting prime coat. Closers can be ordered prime coat only (specify closer x 600). An additional charge applies if finish coat is required over prime coat.

- Closer bodies and plastic covers are available in waterborne acrylic finishes. Arms and metal covers are available in powder coat or plated finishes.
- When a plated finish is ordered, arm and cover will be plated unless "cover only" is specified.

Finishes

Norton Rixson offers waterborne acrylic, polyster powder coat and plated finishes. Custom finishes are available on special order. A sample and approval is required.

Waterborne acrylic and polyester powder coat will withstand 100 hours of salt spray (ANSI requires 25 hours).

Notes:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).

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410
CAST IRON DOOR CLOSER

NORTON RIXSON
ASSA ABLOY

INTRODUCTION

The 410 Series cast iron door closers provide an attractive retrofit solution for retail, office, government and other commercial facilities. Heavy-duty and hold open arms, along with adjustable spring size, backcheck, closing and latch speed, provide a flexible and economical closer that you can trust. The 410 Series is certified to ANSI/BHMA Grade 1 requirements for long life and reliability, and offers a 10 year warranty.



FEATURES

- Adjustable spring sizes 1–6
- Door weight: 250 lbs.
- Cast iron closer body
- Standard and heavy-duty arms available as hold open or non-hold open
- Adjustments for backcheck, closing and latch speed
- Tri-packed for regular, parallel or top jamb installation
- Sleeve nuts and bolts provided with each closer
- Retrofit for LCN 4040XP
- Non-handed
- Plastic cover
- Delayed action (optional)
- 10 year warranty

CERTIFICATIONS

- ANSI/BHMA A156.4, Grade 1
- ANSI/BHMA A117.1
- Americans with Disabilities Act (ADA) Compliant
- UL10C positive pressure up to 3 hours

CAUTION: Door Closers for Low Opening Force Applications:

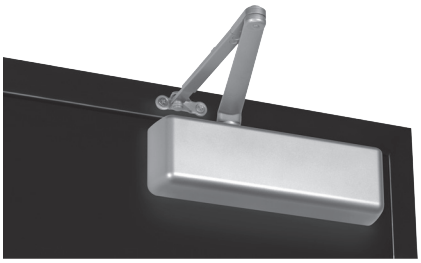
Door closers installed in openings required to meet the requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, when adjusted to meet those requirements, may not provide adequate closing power to dependably close and latch the door based on opening or site conditions.

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410
CAST IRON DOOR CLOSER

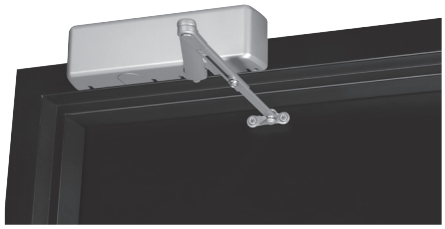
APPLICATIONS

Standard Arms



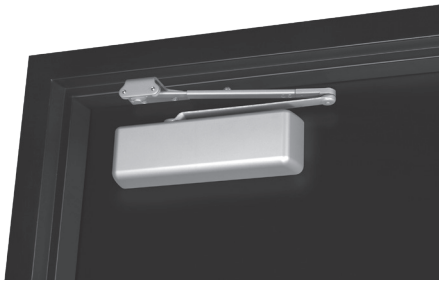
TPN arm shown (regular mounting)

- Pull-side application
- Closer mounted on the door



TPN arm shown (top jamb mounting)

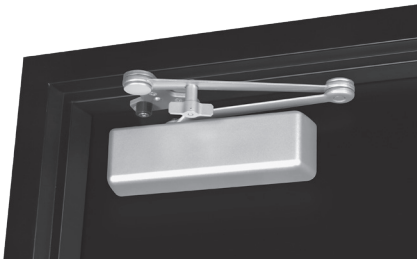
- Push-side application
- Closer mounted on the frame
- Minimum top rail = 2-1/4" (57mm)
- Maximum frame reveal = 2-3/4" (70mm)



TPN arm shown (parallel mounting)

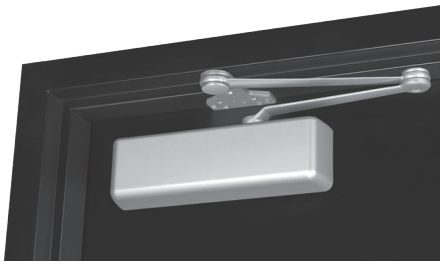
- Push-side application
- Closer mounted on the door

Heavy Duty Arms



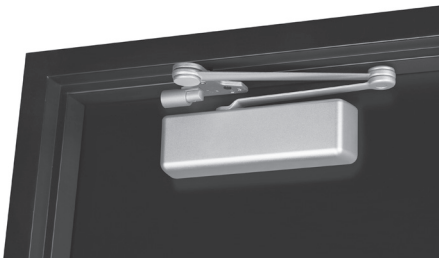
HDH arm (with stop) shown

- Push-side application
- Heavy-duty arm
- Stop is removable



HDN arm (without stop) shown

- Push-side application
- Heavy-duty arm
- Stop is removable



CPS arm shown

- Push-side application
- Heavy-duty arm
- Buffer spring provides greater protection at the end of door opening cycle
- Spring is removable

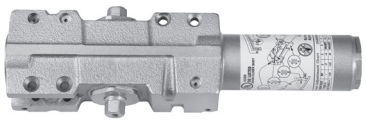
NOTE: Arms are not interchangeable with Norton Rixson premium door closers.

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410
CAST IRON DOOR CLOSER

MODEL/PART NUMBERS

Model	Description
410xTPN	Non-hold open, tri-packed
410DAxTPN	Non-hold open, delayed action, tri-packed
410xTPH	Hold open, tri-packed
410xHDN	Heavy-duty, non-hold open with removable stop
410xHDH	Heavy-duty, hold open with removable stop
410xCPS	Heavy-duty, non-hold open with removable stop and spring buffer
410xCPST	Heavy-duty, hold open with removable stop and spring buffer



MISCELLANEOUS PARTS*

Part Number	Description
410COV	Cover
SP410	Screw pack
2730KIT	CPS kit

*Specify finish when ordering



CPS Kit

COVER DIMENSIONS

Cover Dimensions		
Width	Length	Projection
3-1/2" (89mm)	12-1/4" (311mm)	2-1/4" (57mm)



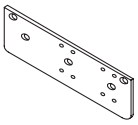
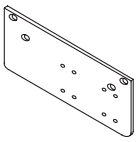
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OPTIONAL FASTENERS

Part Number	Description
SN-134	Sex nuts
TBGN134-47	Through-bolts & grommet nuts

Note: Sex nuts furnished standard with all models.

ACCESSORIES

Closer Mounting Plates	
	**410RDP** Narrow Frame Drop Plate (regular arm): Required for hinge side mount where top rail is less than 3-3/4" (95mm). Plate requires 2" (51mm) minimum top rail.
	**410PDP** Narrow Top Rail Drop Plate (parallel arm): Required for parallel arm mounting where top rail is less than 5-1/2" (140mm), measured from the stop. Plate requires 2" (51mm) minimum top rail.

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HOW TO ORDER

410
Defines closer series

- **410** – Standard
- **410DA** – Delayed action (only available with TPN arm)

X

TPN
Arm assemblies

- **TPN** – Tri-packed (regular, parallel, top jamb mounting), non-hold open
- **TPH** – Tri-packed (regular, parallel, top jamb mounting), hold open
- **HDN** – Heavy duty, non-hold open with removable stop
- **HDH** – Heavy duty, hold open with removable stop
- **CPS** – Heavy duty, non-hold open with removable stop and spring buffer
- **CPST** – Heavy duty, hold open with removable stop and spring buffer

X

689
Finish

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
BSP	Black suede powder coat

Note:

- Before installing a door closer, verify the accessibility, fire, and life-safety requirements that are in effect. This includes the mounting height and projection into the clear opening. Check the adopted state and local building codes and consult the Authority Having Jurisdiction (AHJ)
- To maintain the warranty and ensure proper operation of the product, follow the installation instructions & templates and install on the inside of the building.
- Consult NFPA 80 for the hinge requirements on a fire door.
- Failure to use fasteners supplied with closer may void factory warranty.
- Optional fasteners are available for a variety of applications. Consult the door and frame manufacturer to ensure the proper fasteners are used to maintain certifications.
- Sizing charts are based on 1-3/4" x 7' standard weight doors swinging to 110°. Other application conditions (e.g. larger door heights or weight) may require larger size closer. Adjusting the spring power to meet the low opening force requirements of the Americans With Disabilities Act or ANSI/BHMA Standard A117.1, may not provide adequate closing power to dependably close and latch the door in some conditions (i.e. air movement from wind gusts or building stack pressure).

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CLOSERS COMPARISON

CLOSERS COMPARISON

	CAST IRON			ALUMINUM							
CERTIFICATION & WARRANTY	**9500**	**9540**	**410**	**2800ST**	**7500**	**8000**	**1600**	**1700**	**78B/F**	**210**	**160**
ANSI/BHMA A156.4	Grade 1	Grade 1	Grade 1	Grade 1	Grade 1	Grade 1	Grade 1	Grade 3	—	Grade 1	Grade 1
UL & ULC Listed	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Warranty	30 Year	30 Year	10 Year	10 Year	30 Year	30 Year	30 Year	5 Year	10 Year	10 Year	5 Year
End of Life Recycling Program Available	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SIZE & CONSTRUCTION											
Construction (Body)	Cast Iron	Cast Iron	Cast Iron	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Mounting Hole Pattern	1" x 10"	2-1/4" x 5"*	2-1/4" x 5"*	1"x 11-1/8"	2-3/8" x 6-3/4"	3/4" x 12"	3/4" x 9-1/16"	3/4" x 8"	4-1/8" x 1-3/8"	3/4" x 12"	3/4" x 9-1/16"
Spring Size	Adjustable 1-6	Adjustable 1-6	Adjustable 1-6	Adjustable 1-6	Adjustable 1-6	Adjustable 1-6	Adjustable 1-6 Size 3, 4	Size 3, 4	Size 2-4; Size 5-6	Adjustable 1-6	Adjustable 1-4 Size 4
Closer Body (Handing)	Non-Handed	Non-Handed	Non-Handed	Non-Handed	Non-Handed	Non-Handed	Non-Handed	Non-Handed	Handed	Non-Handed	Non-Handed
Standard Backcheck	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
OPTIONS											
Plastic Cover	Standard	Standard	Standard	Standard	Standard	Standard	Optional	Standard	No	Standard	Optional
Metal Cover Option	Optional	Optional	No	No	Optional	Optional	No	No	No	No	No
Slim Line Cover Option	No	No	No	No	No	Optional	No	No	No	No	No
Delayed Action Option	Yes	Yes	Yes	No	Yes	Yes	No	No	Yes	No	No
Sex Nuts & Bolts (Tri-Style® pack)	Optional	Optional	Standard	Optional	Optional	Optional	Optional	Optional	Optional	Standard	Standard
Finishes	Multiple	Multiple	689, 690 only	Multiple	Multiple	Multiple	Multiple	689, 690 only	Multiple	689, 690 only	689, 690 only
APPLICATION / ARM TYPE AVAILABILITY											
Regular	•	•	•		•	•	•	•	•	•	•
Top Jamb	•	•	•		•	•	•	•		•	•
Parallel	•	•	•		•	•	•	•	•	•	•
Regular Rigid	•				•	•					
Parallel Rigid	•				•	•	•		•		
Heavy Duty: HDH/HDN			◦							◦	
CloserPlus	•				•	•	•				
CloserPlus Spring			◦		•	•	•				
CloserPlus Ramp					•	•					
Cushion Stop							•				
Unitrol	•				•	•	•		•		
Low Profile					•	•					
Slide Track	•			•	•	•					

* Retrofit LCN4040XP
◦ Specific to Individual Series

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CATALOG

NORTON RIXSON

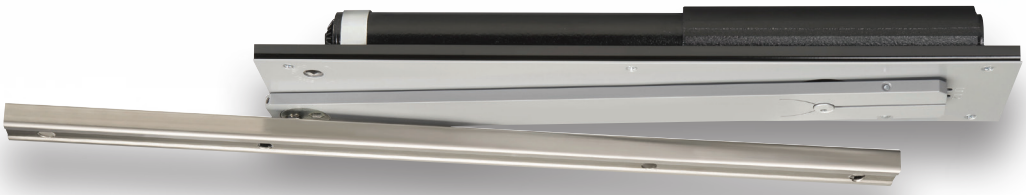
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OVERHEAD CONCEALED

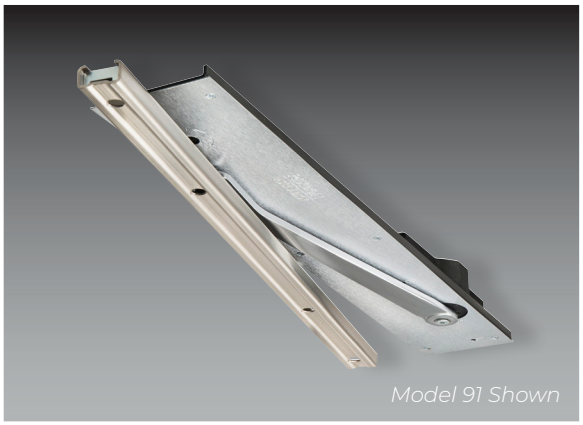
FOR HIGH-END APPLICATIONS











INTRODUCTION

Norton Rixson Overhead Concealed Closers offer an aesthetically appealing way to close a door. In situations where a closer is needed but concealment is required, Norton Rixson offers several different series to meet your application demands. Concealed for minimal appearance, these offset hung or center hung (single or double acting) door closers provide control without sacrificing the aesthetics of the opening.

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⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

GENERAL INFORMATION

OVERHEAD CONCEALED CLOSERS

Models	Architectural Grade	Commodity Grade	Offset Hung	Center Hung	Single Acting	Double Acting	Handed	ADA Compliant Model Available	Grade 1 Certified	Door Weight
91	•		•		•		•	•	•	250 lbs
93	•			•	•		•	•	•	250 lbs
73	•			•		•		•	•	250 lbs
73ER	•			•		•		•		250 lbs
700	•			•	•		•			200 lbs
800	•			•		•				200 lbs
0608		•	•		•					200 lbs
608		•		•	•	•				200 lbs
7900	•				•		•			200 lbs
61		•		•	•					175 lbs (weight carried by hinges)

Non-Hold Open closers do not hold the door open. This feature cannot be changed in the field on the 608, 700, or 800 series closers.

Hold Open closers hold the door open. This feature cannot be changed in the field on the 608, 700, or 800 series closers.

The degree of swing must be specified on some closers (refer to specific product pages for requirements).

When the door closer must be concealed above the ceiling or drywall, a longer or extended spindle is required. Regular and 1/2" extended spindles available for all models except 73 and 61. Closer adjustment valves must always be accessible.

End caps are used to cover the mortise edges for wood doors on center hung 608 and 700/800 models. Two 199 End Caps can be furnished; one for the top arm and one for the bottom pivot.

Mounting brackets or boxes for aluminum, wood or metal frames must be specified when ordering the 608 and 700/800 series.



ARCHITECTURAL GRADE, OFFSET HUNG

OVERHEAD CONCEALED CLOSERS

MODEL 91



Application

- Exterior or interior doors
- Door weight up to 250 lbs.
- Maximum door size: exterior 4' x 8', interior 4'6" x 8'
- Can be used in aluminum, hollow metal or wood frames

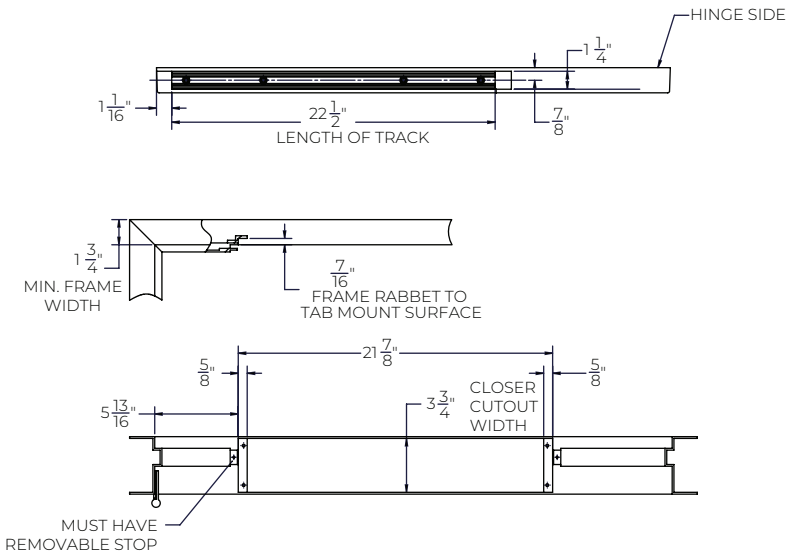
Features

- Single acting, offset hung
- Heavy-duty cast iron closer body
- Forged arms
- Steel alloy track
- One-piece mounting plate
- Includes security track designed to eject foreign materials used to prevent a door from closing
- 1-1/4" piston diameter
- Dress cover plate included
- Adjustable spring 3-6 for larger doors or fire rated openings (specify 91)
- Adjustable spring 1-3 for lighter opening force (specify PH91 – ADA compliant)
- A separate auxiliary door stop, supplied by others, is strongly recommended to avoid damage to door closer and adjacent property.
- Handed
- Staked, brass adjusting valves
- Product shipped with all wood and all metal screws
- Separate and independent closing speed and latch speed valves
- Separate and independent hydraulic backcheck valve
- All weather fluid (accommodates a temperature range from - 40° to 150°F.)
- Hanging means by others. If products other than 3/4" offset pivots or 4-1/2" x 4-1/2" butt hinges are used, contact factory for special templating and pricing
- Hold open; can be achieved by adding hold open assembly to track. Specify 91H. (Standard hold open with pivot is 85°; 85°-105° with butt hinges)
- Extended spindle; 1/2" longer than standard closer spindle. Must be ordered as part of the closer; cannot be added later
- Minimum metal frame size 1-3/4" x 4"
- Direct replacement for LCN 2030
- 15 year limited warranty

Compliance

- ANSI/BHMA A156.4 Grade 1
- UL-cUL listed
- UL10C positive pressure: 3-hours for hollow metal doors, 1-1/2 hour for wood doors. (PH91 not recommended)
- PH91 meets requirements for Americans with Disabilities Act (ADA)

TECHNICAL INFO



Specifications

Model 91 shall be used for offset hung doors. Closer shall fit in a 1-3/4 x 4 aluminum tube. Closer shall have adjustable spring that complies to accessibility codes. Adjustable spring, backcheck, and closing speed valves must be accessible after door is installed. Where applicable, a hold open feature is achieved in the track. Closer shall be Grade 1 per ANSI/BHMA A156.4. Closer shall be fire rated UL10C for doors tested for overhead concealed products up to 3 hours.

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ARCHITECTURAL GRADE, OFFSET HUNG
OVERHEAD CONCEALED CLOSERS

MODEL 91

HOW TO ORDER

Specify Model, Hand and Finish when ordering.

91N

Model	Description
Non-Hold Open	
91N	Adjustable 3-6 Spring
W91N	Adjustable 3-6 Spring, Wood Frame
91BHN	Adjustable 3-6 Spring, Behavior Health, (see note 1 below)
PH91N	Adjustable 1-3 Spring (ADA)
WPH91N	Adjustable 1-3 Spring (ADA), Wood Frame
PH91BHN	Adjustable 1-3 Spring (ADA), Behavioral Health (see note 1 below)
Hold Open	
91H	Adjustable 3-6 Spring
W91H	Adjustable 3-6 Spring, Wood Frame
PH91H	Adjustable 1-3 Spring (ADA)
WPH91H	Adjustable 1-3 Spring (ADA), Wood Frame

1. Behavior Health - models include security track and Torx® security screws. Only available as Non-Hold Open

If applicable, specify "1/2 in. ext. spdl"

OPTION
1/2" extended spindle

RH

HAND
RH- Right Hand
LH - Left Hand

626

FINISHES

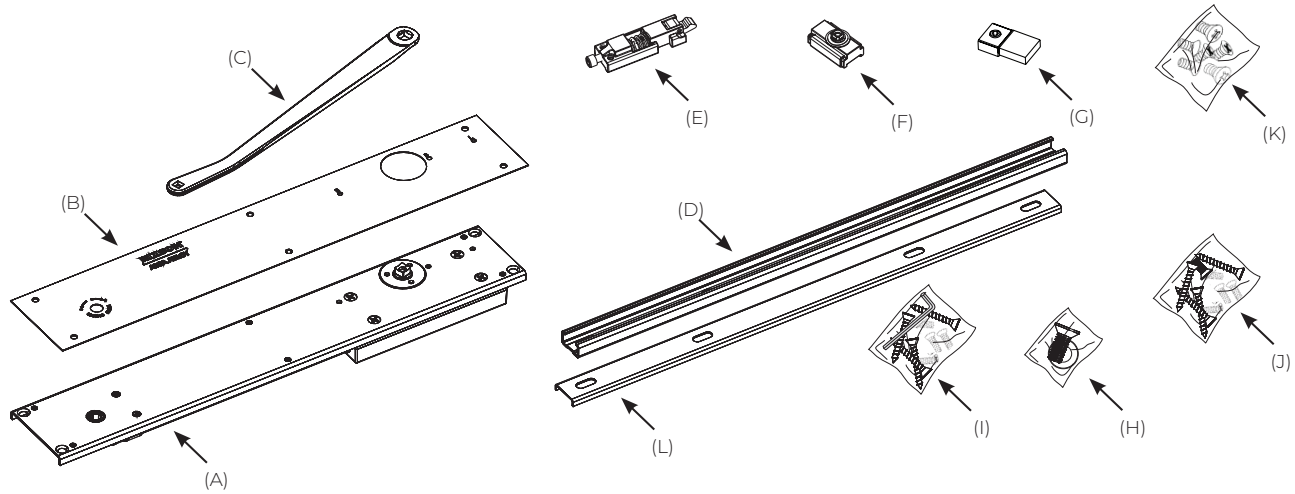
ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
613 (US10B)	Antique bronze
613E (US10BE)	Dark oxidized satin bronze - equiv.
618 (US14)	Bright nickel plated, clear coated
619 (US15)	Satin nickel plated, clear coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
696 (US4)	Gold, painted
BSP	Black suede powder coat
WSP	White suede powder coat
600	SRI primer

Note: In corrosive conditions, SRI primer over powder coat finish is recommended. Specify finish x 600 when ordering. SRI is not available with plated finishes.

PARTS LIST

OVERHEAD CONCEALED CLOSERS

MODEL 91



Left hand shown

PACKAGES

Right Hand Arm Package
90237-*PKG (includes 90237, 90283 and 90253)

Left Hand Arm Package
90236-*PKG (includes 90236, 90283 and 90253)

Non-Hold Open Track Assembly
90255-ASY (includes 90255, 90242 and 90239)

Hold Open Track Assembly
90254-ASY (includes 90254, 90242 and 90239)

(A) Closer Body (Specify hand, function (NHO or HO), LAP (less all parts)

(B) Cover Plate 90272-* (LH)
90275-* (RH)

(C) Arm 90236-* (LH)
90237-* (RH)

(D) Track 90239

(E) Hold Open Assembly 90254

(F) Slider 90253

(G) Non-Hold Open Stop Block 90255

(H) Arm Screw Pack 90283-*

(I) Closer Screw Kit 90241-*

(J) Track Screw Kit 90242

(K) Cover Plate Screw Pack 90278-*

(L) Optional Track Spacer for Retrofit Applications 90260

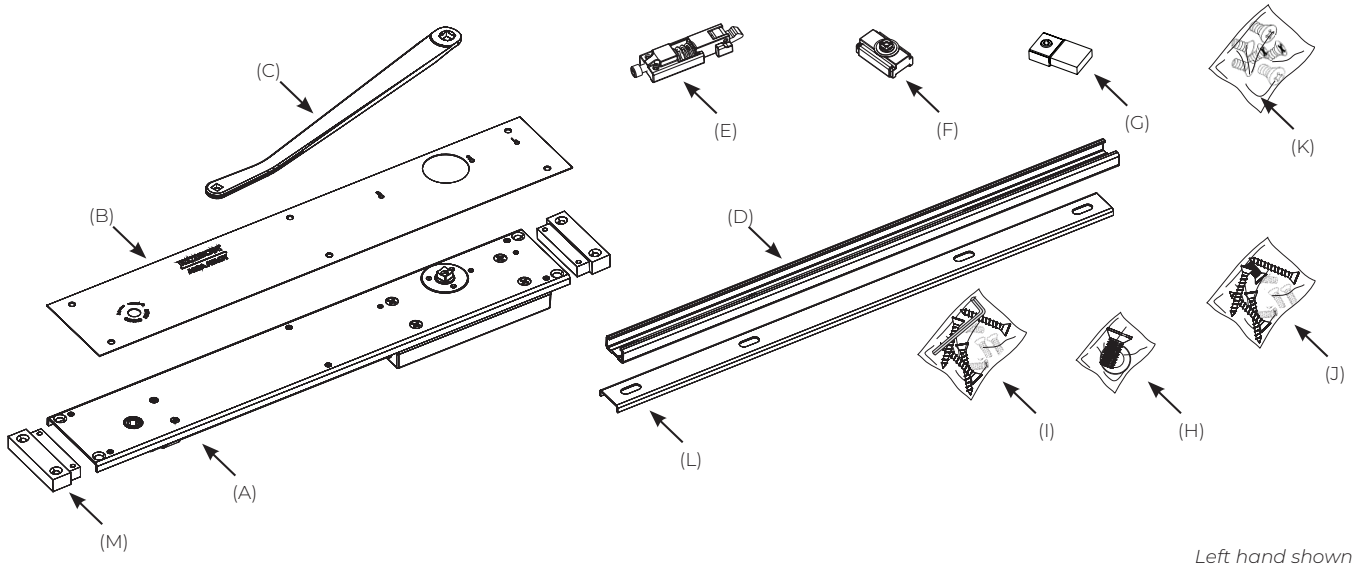
** Specify finish*

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PARTS LIST

OVERHEAD CONCEALED CLOSERS

MODEL W91



Left hand shown

PACKAGES

Right Hand Arm Package
90237-*PKG (includes 90237, 90283 and 90253)

Left Hand Arm Package
90236-*PKG (includes 90236, 90283 and 90253)

Non-Hold Open Track Assembly
90255-ASY (includes 90255, 90242 and 90239)

Hold Open Track Assembly
90254-ASY (includes 90254, 90242 and 90239)

(A) Closer Body (Specify hand, function x LAP)

(B) Cover Plate 90272-* (LH)
90275-* (RH)

(C) Arm 90236-* (LH)
90237-* (RH)

(D) Track 90239

(E) Hold Open Assembly 90254

(F) Slider 90253

(G) Non-Hold Open Stop Block 90255

(H) Arm Screw Kit 90283-*

(I) Closer Screw Kit 90241-*

(J) Track Screw Kit 90242

(K) Cover Plate Screw Pack 90278

(L) Optional Track Spacer for Retrofit Applications 90260

(M) Wood Mounting Clips 90257-*

** Specify finish*

ARCHITECTURAL GRADE, CENTER HUNG

OVERHEAD CONCEALED CLOSERS

MODEL 93





Application

- Exterior or interior doors
- Door weight up to 250 lbs.
- Maximum door size: exterior 4' x 8', interior 4'6" x 8'
- Can be used in aluminum, hollow metal or wood frames

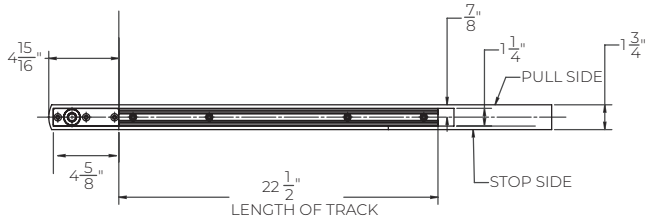
Features

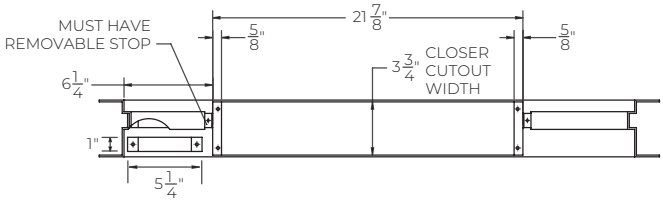
- Single acting, center hung
- Heavy-duty cast iron closer body
- Forged arms
- 270 pivot set included
- Steel alloy track
- One-piece mounting plate
- 1-1/4" piston diameter
- Dress cover plate included
- Adjustable spring 3-6 for larger doors (specify 93)
- Adjustable spring 1-3 for lighter opening force (specify PH93 – ADA compliant)
- A separate auxiliary door stop, supplied by others, is strongly recommended to avoid damage to door closer and adjacent property.
- Handed
- Staked, brass adjusting valves
- Product shipped with all wood and all metal screws
- Separate and independent closing speed and latch speed valves
- Separate and independent hydraulic backcheck valve
- All weather fluid (accommodates a temperature range from - 40° to 150°F.)
- Hold open; can be achieved by adding hold open assembly to track. Specify 93H. 100° maximum hold open.
- Extended spindle; 1/2" longer than standard closer spindle. Must be ordered as part of the closer; cannot be added later
- Wood frame; specify prefix W (W93N, WPH93N, W93H, WPH93H)
- Minimum metal frame size 1-3/4" x 4". Minimum wood frame 2-1/2" x 4-1/2"
- Corrosive applications: SRI primer over powder coat finish is recommended. Specify finish x 600 when ordering.
- Direct replacement for LCN 2030
- 15 year limited warranty

Compliance

- ANSI/C05121
- ANSI/BHMA A156.4 Grade 1
- PH93 meets requirements for Americans with Disabilities Act (ADA)

TECHNICAL INFO





Specifications

Model 93 shall be used for center pivot single acting, interior or exterior doors. Closer shall fit in a 1-3/4" x 4" metal frame/aluminium transom and 2-1/2" x 4-1/2" wood frame. Closer shall be handed. Closer shall have an adjustable spring for adjustable strength. Closer shall have adjustable hydraulic backcheck. Closer shall have two closing speed adjustments, sweep and latch. Closer shall be constructed with a cast iron body with 1-1/4" piston for high strength and premium performance. Closer shall be Grade 1 per ANSI/BHMA A156.4, UL Listed, and ADA-compliant. An optional hold open feature can be achieved using the single lever arm and track design.

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MODEL 93

HOW TO ORDER

Specify Model, Hand and Finish when ordering.

WPH93N

Model	Description
Non-Hold Open	
93N	Adjustable 3-6 Spring
W93N	Adjustable 3-6 Spring, Wood Frame
PH93N	Adjustable 1-3 Spring (ADA)
WPH93N	Adjustable 1-3 Spring (ADA), Wood Frame
Hold Open	
93H	Adjustable 3-6 Spring
W93H	Adjustable 3-6 Spring, Wood Frame
PH93H	Adjustable 1-3 Spring (ADA)
WPH93H	Adjustable 1-3 Spring (ADA), Wood Frame

If applicable, specify "1/2 in. ext. spdl"

OPTION
1/2" extended spindle

RH

HAND
RH- Right Hand
LH - Left Hand

626

FINISHES

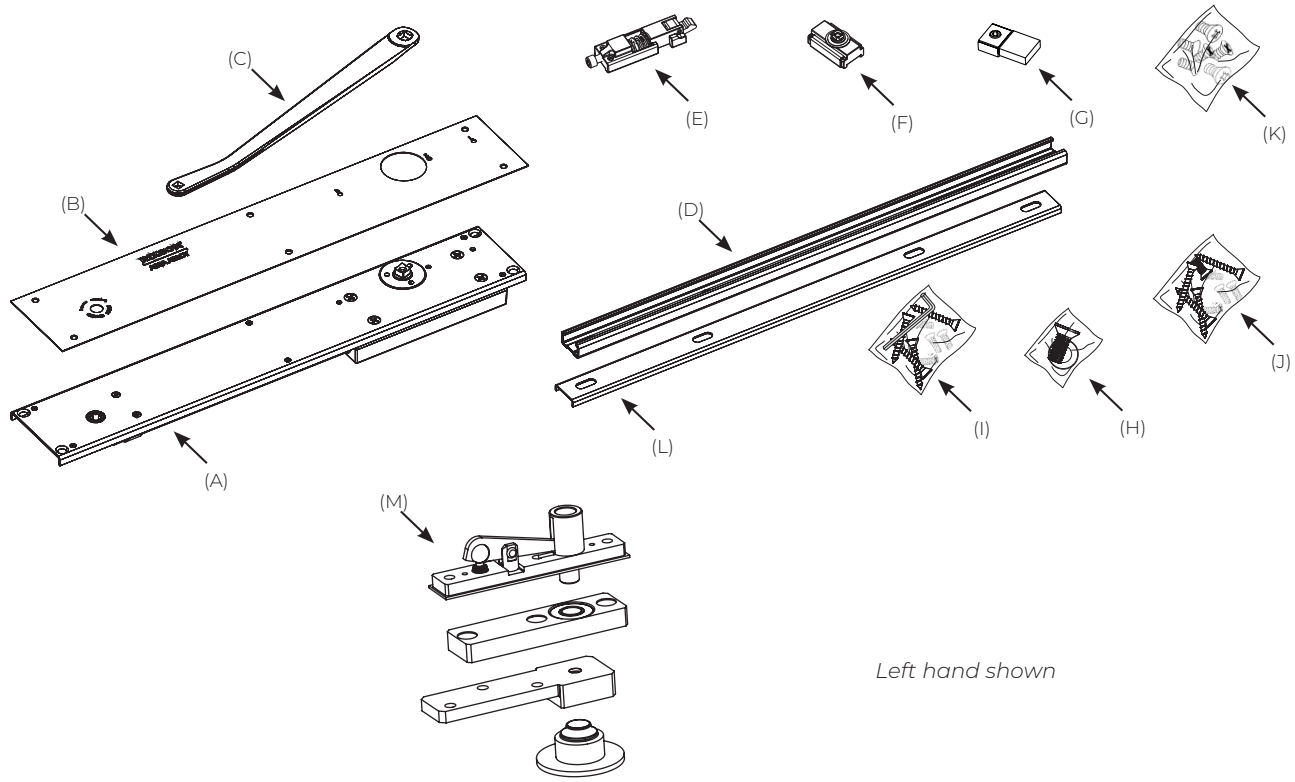
ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
613 (US10B)	Antique bronze
613E (US10BE)	Dark oxidized satin bronze - equiv.
618 (US14)	Bright nickel plated, clear coated
619 (US15)	Satin nickel plated, clear coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
696 (US4)	Gold, painted
BSP	Black suede powder coat
WSP	White suede powder coat
600	SRI primer

Note: In corrosive conditions, SRI primer over powder coat finish is recommended. Specify finish x 600 when ordering. SRI is not available with plated finishes.

PARTS LIST

OVERHEAD CONCEALED CLOSERS

MODEL 93



Left hand shown

PACKAGES

Right Hand Arm Package
90237-*PKG (includes 90237, 90283 and 90253)

Left Hand Arm Package
90236-*PKG (includes 90236, 90283 and 90253)

Non-Hold Open Track Assembly
90255-ASY (includes 90255, 90242 and 90239)

Hold Open Track Assembly
90254-ASY (includes 90254, 90242 and 90239)

(A) Closer Body (Specify hand, function (NHO or HO), LAP (less all parts)

(B) Cover Plate 90272-* (LH)
90275-* (RH)

(C) Arm 90236-* (LH)
90237-* (RH)

(D) Track 90239

(E) Hold Open Assembly 90254

(F) Slider 90253

(G) Non-Hold Open Stop Block 90255

(H) Arm Screw Pack 90283-*

(I) Closer Screw Kit 90241-*

(J) Track Screw Kit 90242

(K) Cover Plate Screw Pack 90278-*

(L) Optional Track Spacer for Retrofit Applications 90260

(M) 270 Pivot*

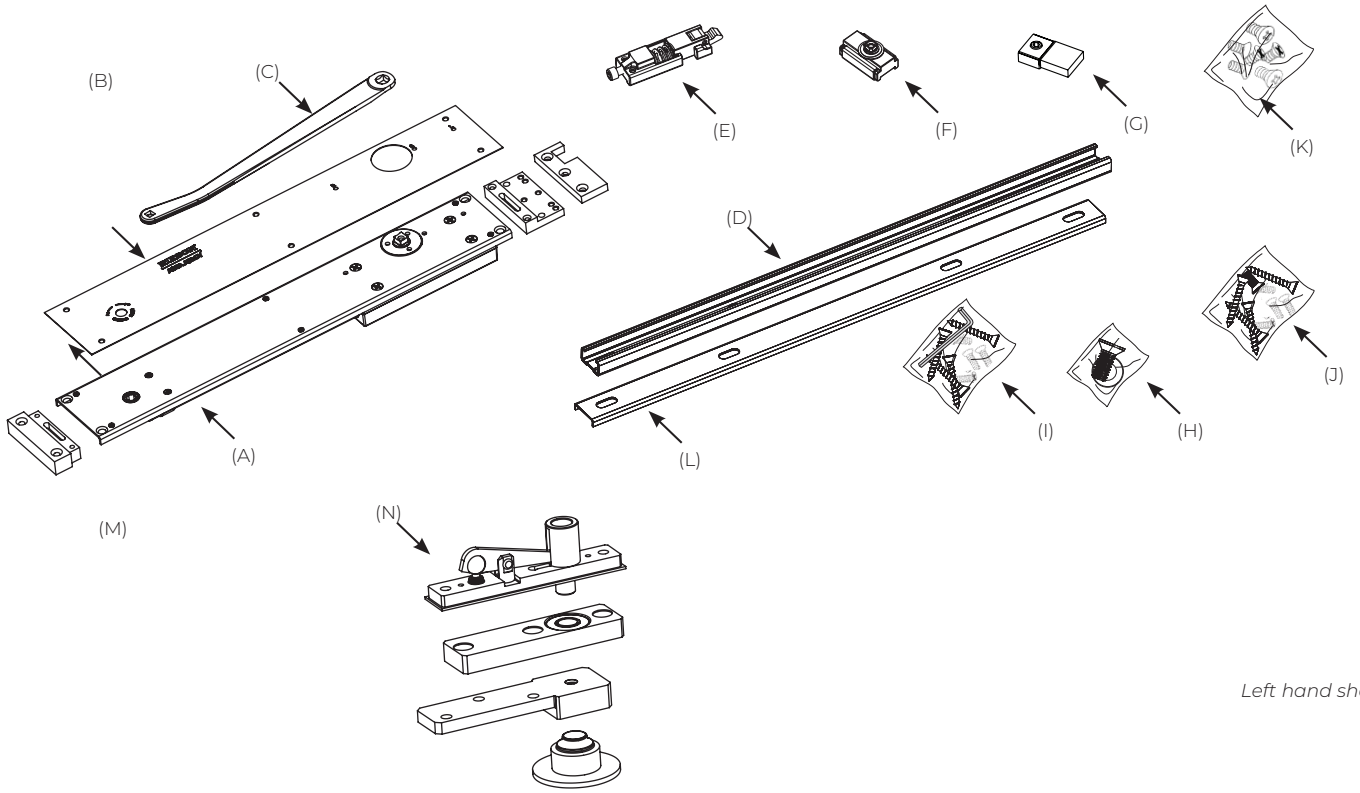
** Specify finish*

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PARTS LIST

OVERHEAD CONCEALED CLOSERS

MODEL W93



Left hand shown

PACKAGES

Right Hand Arm Package
90237-*PKG (includes 90237, 90283 and 90253)

Left Hand Arm Package
90236-*PKG (includes 90236, 90283 and 90253)

Non-Hold Open Track Assembly
90255-ASY (includes 90255, 90242 and 90239)

Hold Open Track Assembly
90254-ASY (includes 90254, 90242 and 90239)

(A) Closer Body (Specify hand, function x LAP)

(B) Cover Plate 90272-* (LH)
90275-* (RH)

(C) Arm 90236-* (LH)
90237-* (RH)

(D) Track 90239

(E) Hold Open Assembly 90254

(F) Slider 90253

(G) Non-Hold Open Stop Block 90255

(H) Arm Screw Kit 90283-*

(I) Closer Screw Kit 90241-*

(J) Track Screw Kit 90242

(K) Cover Plate Screw Pack 90278

(L) Optional Track Spacer for Retrofit Applications 90260

(M) Wood Mounting Clips 90270-*

(N) 270 Pivot*

** Specify finish*

ARCHITECTURAL GRADE, CENTER HUNG

OVERHEAD CONCEALED CLOSERS

MODEL 73

Application

- Exterior or interior doors
- Door weight up to 250 lbs.
- Maximum door size: exterior 4' x 8', interior 4'6" x 8'
- Can be used in aluminum, hollow metal or wood frames

Features

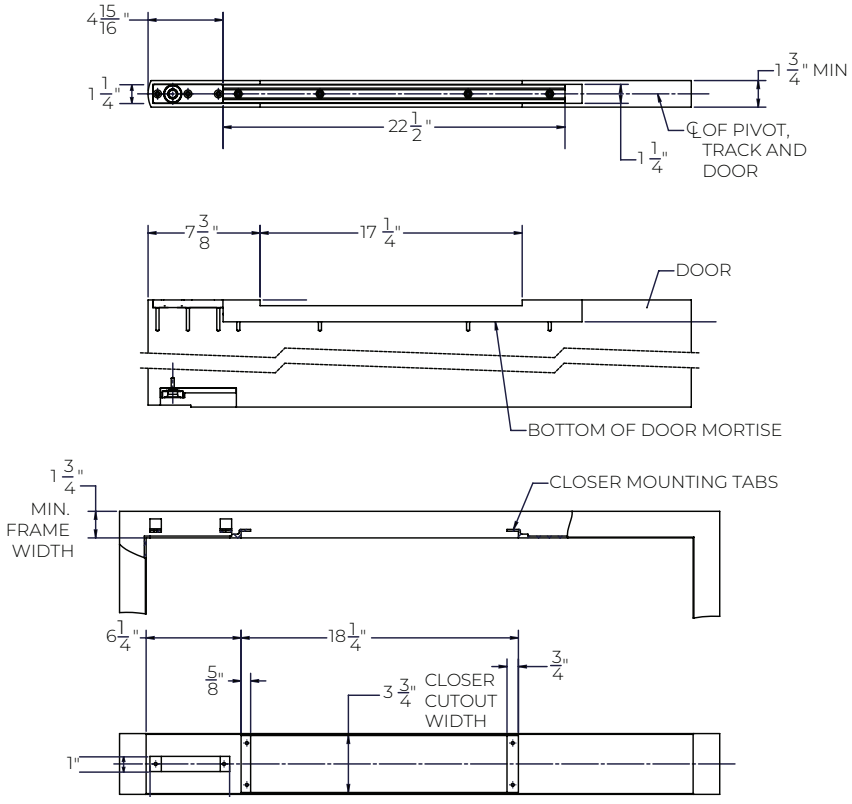
- Double acting, center hung
- Heavy-duty cast iron closer body
- 270 pivot set included
- Steel alloy track
- Includes security track designed to eject foreign materials used to prevent a door from closing
- One-piece mounting plate
- 1-1/4" piston diameter
- Dress cover plate included
- Adjustable spring 2-4 for larger doors (specify 73)
- Adjustable spring 1-3 for lighter opening force
  (specify PH73 – ADA compliant)
- A separate auxiliary door stop, supplied by others, is strongly recommended to avoid damage to door closer and adjacent property.
- Non-handed
- Staked, brass adjusting valves
- Product shipped with all wood and all metal screws
- Independent latch speed valves
- Closing speed valve
- Backcheck speed valve
- All weather fluid (accommodates a temperature range from - 40° to 150°F.)
- Hold open; can be achieved by adding hold open assembly to track. Specify 73H. 95° maximum hold open.
- Minimum metal frame size 1-3/4" x 4". Minimum wood frame 2-1/2" x 4-1/2"
- Direct replacement for LCN 6030 (double acting)
- 15 year limited warranty

Compliance

- ANSI/C05081
- ANSI/BHMA A156.4 Grade 1
- PH73 meets requirements for Americans with Disabilities Act (ADA)



TECHNICAL INFO



Specifications

Model 73 shall be used for center pivot double acting, interior or exterior doors. Closer shall fit in a 1-3/4" x 4" metal frame/aluminum transom and 2-1/2" x 4-1/2" wood frame. Closer shall be non-handed. Closer shall have adjustable springs that can be independently adjusted per door direction for adjustable strength. Closer shall have adjustable hydraulic back check. Closer shall have two closing speed adjustments, sweep and latch, where latch speed adjustments can be independently adjusted per door direction. Closer shall be constructed with a cast iron body with 1-1/4" dual pistons for high strength and premium performance. Closer shall be Grade 1 per ANSI/BHMA A156.4, UL Listed, and ADA-compliant. An optional hold open feature can be achieved using the single lever arm and track design.

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MODEL 73

HOW TO ORDER

Specify Model and Finish when ordering.

WPH73N

Model	Description
Non-Hold Open	
73N	Adjustable 2-4 Spring
W73N	Adjustable 2-4 Spring, Wood Frame
73ERN	Adjustable 2-4 Spring, Emergency Release (see notes 1 & 2 below)
W73ERN	Adjustable 2-4 Spring, Wood Door, Emergency Release (see notes 1 & 2 below)
73BHN	Adjustable 2-4 Spring, Behavioral Health (see note 3 below)
73BHERN	Adjustable 2-4 Spring, Behavioral Health, Emergency Release (see notes 1, 2 & 3 below)
PH73N	Adjustable 1-3 Spring (ADA)
WPH73N	Adjustable 1-3 Spring (ADA), Wood Frame
Hold Open	
73H	Adjustable 2-4 Spring
W73H	Adjustable 2-4 Spring, Wood Frame
73ERH	Adjustable 2-4 Spring, Emergency Release (see note 1 below)
PH73H	Adjustable 1-3 Spring (ADA)
WPH73H	Adjustable 1-3 Spring (ADA), Wood Frame

Notes:
1. *Emergency Release - 270 pivot not included. Works with Markar DSH1000 Double Swing Pin & Parrel Hinge and Pemko DSHP01 Double Swing Continuous Geared Hinge*
2. *PH not available for 73ER closers*
3. *Behavior Health - models include security track and Torx® security screws. Only available as Non-Hold Open*

626

FINISHES

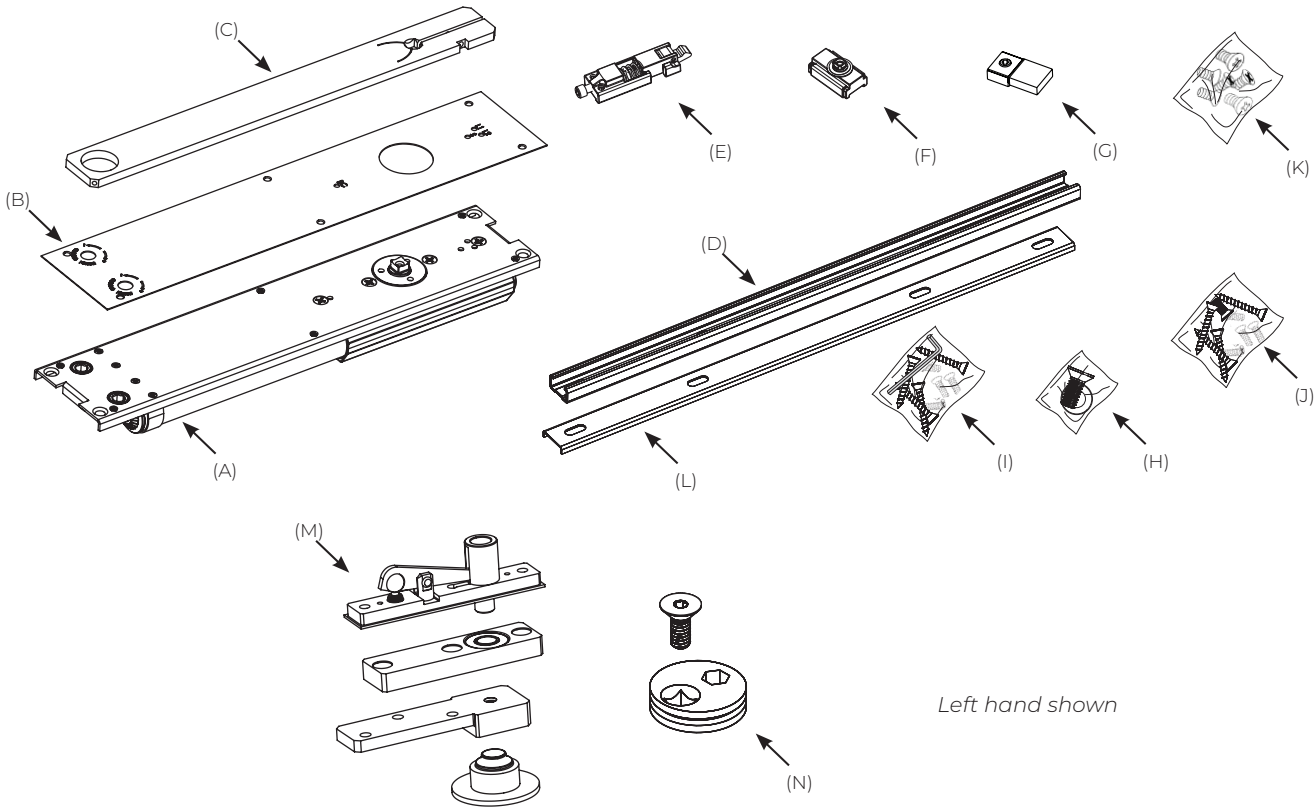
ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
613 (US10B)	Antique bronze
613E (US10BE)	Dark oxidized satin bronze - equiv.
618 (US14)	Bright nickel plated, clear coated
619 (US15)	Satin nickel plated, clear coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
696 (US4)	Gold, painted
BSP	Black suede powder coat
WSP	White suede powder coat
600	SRI primer

Note: In corrosive conditions, SRI primer over powder coat finish is recommended. Specify finish x 600 when ordering. SRI is not available with plated finishes.

PARTS LIST

OVERHEAD CONCEALED CLOSERS

MODEL 73



Left hand shown

PACKAGES

Non-Hold Open Track Assembly
90255-ASY (includes 90255, 90242 and 90239)

Hold Open Track Assembly
90254-ASY (includes 90254, 90242 and 90239)

Arm Package
70218-*PKG

(A) Closer Body (Specify function (NHO or HO), LAP (less all parts)
(B) Cover Plate 70202-*
(C) Arm 70218-*
(D) Track 90239
(E) Hold Open Assembly 90254
(F) Slider 90253
(G) Non-Hold Open Stop Block 90255
(H) Arm Screw Pack 70251-*
(I) Closer Screw Kit 90241-*
(J) Track Screw Kit 90242
(K) Cover Plate Screw Pack 90278-*
(L) Optional Track Spacer for Retrofit Applications 90260
(M) 270 Pivot *
(N) Slider Centering Hub 70219

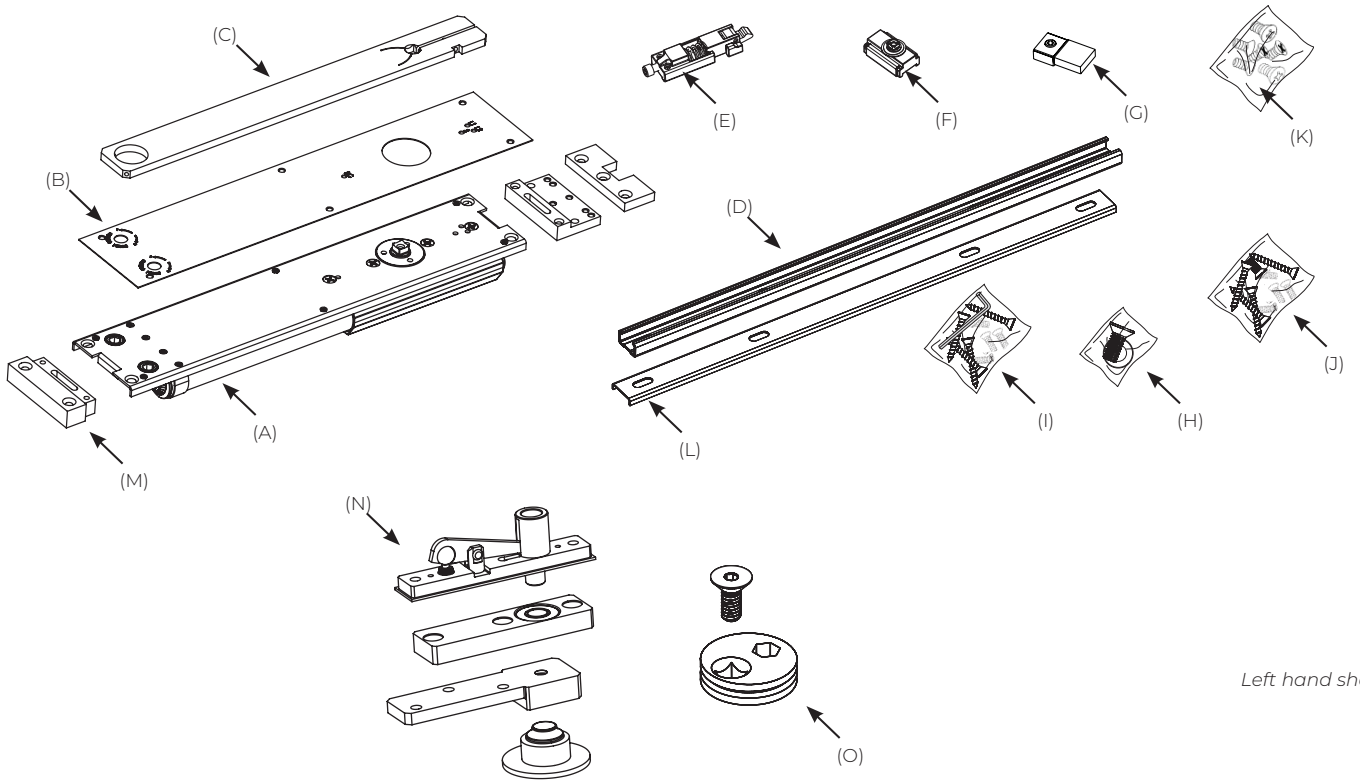
** Specify finish*

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PARTS LIST

OVERHEAD CONCEALED CLOSERS

MODEL W73



Left hand shown

PACKAGES

Non-Hold Open Track Assembly
90255-ASY (includes 90255, 90242 and 90239)

Hold Open Track Assembly
90254-ASY (includes 90254, 90242 and 90239)

Arm Package
70218-*PKG

(A) Closer Body (Specify function x LAP)
(B) Cover Plate 70202-*
(C) Arm 70218-*
(D) Track 90239
(E) Hold Open Assembly 90254
(F) Slider 90253
(G) Non-Hold Open Stop Block 90255
(H) Arm Screw Kit 70251-*
(I) Closer Screw Kit 90241-*
(J) Track Screw Kit 90242
(K) Cover Plate Screw Pack 90278
(L) Optional Track Spacer for Retrofit Applications 90260
(M) Wood Mounting Clips 70270-*
(N) 270 Pivot*
(O) Slider Centering Hub 70219

** Specify finish*

ARCHITECTURAL GRADE SINGLE ACTING, CENTER HUNG

OVERHEAD CONCEALED CLOSERS

MODEL 700

Application
- Exterior or interior doors
- Door weight up to 200 lbs.

Features
- Single acting
- Handed
- Available non-hold open (N) or automatic hold open (A). Specify 90° or 105°, N or A
- Frame stop required. See Door Control Accessories Catalog (part number 60131). Order separately.
- Adjustable closing speed valve
- Adjustable hydraulic backcheck
- Includes 2183020 bottom pivot
- Product should always be used with auxiliary stop
- 2 year limited warranty

Optional Features
- Extended spindle; 1/2" longer than standard closer spindle. Must be ordered as part of the closer; cannot be added later
- End cap 199 for top and bottom of wood door

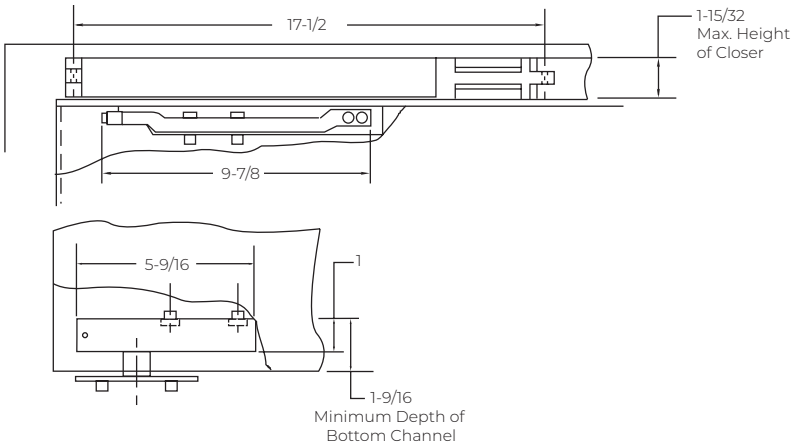
Specifications
Hydraulic closer mechanism to fit in minimum 1-3/4" x 4" aluminum frame. Closer shall have a sized spring determined by the door width. Adjustable hydraulic backcheck and closing speed valves. Closers for single acting doors shall be handed and preloaded for positive closing action. Vertically adjustable center hung bottom pivot included. Hold open (option) is achieved through the closer body and degree called out.





Closer shown with cover, furnished with W, M, MW models

TECHNICAL INFO



Model	Door/Frame Application	Frame Dimensions	Package includes
700	Aluminum Door/Frame	1-3/4" x 4"	Closer body, arm, frame mounting clips (1639000), and bottom pivot (2183020)
M700	Metal Door/Frame	2" x 5-1/2"	Closer body, arm, cover plate, frame mounting channel (1929000*) and bottom pivot (2183020)
MW700	Wood Door/Metal Frame		
W700	Wood Door/Frame	2" x 5-1/2"	Closer body, arm, cover plate, frame mounting channel (1980910*) and bottom pivot (2183020)

*Note: mounting channels must be welded into frames prior to shipment to job site.

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MODEL 700

HOW TO ORDER

Specify Model, Hand and Finish when ordering.

M706 90A

If applicable, specify "1/2 in. ext. spdl"

OPTION
1/2" Extended Spindle

RH

HAND
RH- Right Hand
LH - Left Hand

626

Model	Degree/Function	Door/Frame Material	Door Width/ Height
706 90N	90 deg. Non-Hold Open	Aluminium Door & Frame	Exterior 2'6" x 8'0" Interior 3'0" x 8'0"
706 90A	90 deg. Hold Open		
706 105N	105 deg. Non-Hold Open		
706 105A	105 deg. Hold Open		
M706 90N	90 deg. Non-Hold Open	Metal Door & Frame	
M706 90A	90 deg. Hold Open		
M706 105N	105 deg. Non-Hold Open		
M706 105A	105 deg. Hold Open		
MW706 90N	90 deg. Non-Hold Open	Wood Door & Metal Frame	
MW706 90A	90 deg. Hold Open		
MW706 105N	105 deg. Non-Hold Open		
MW706 105A	105 deg. Hold Open		
W706 90N	90 deg. Non-Hold Open	Wood Door & Frame	
W706 90A	90 deg. Hold Open		
W706 105N	105 deg. Non-Hold Open		
W706 105A	105 deg. Hold Open		
707 90N	90 deg. Non-Hold Open	Aluminium Door & Frame	Exterior 3'0" x 8'0 Interior 3'3" x 8'0"
707 90A	90 deg. Hold Open		
707 105N	105 deg. Non-Hold Open		
707 105A	105 deg. Hold Open		
M707 90N	90 deg. Non-Hold Open	Metal Door & Frame	
M707 90A	90 deg. Hold Open		
M707 105N	105 deg. Non-Hold Open		
M707 105A	105 deg. Hold Open		
MW707 90N	90 deg. Non-Hold Open	Wood Door & Metal Frame	
MW707 90A	90 deg. Hold Open		
MW707 105N	105 deg. Non-Hold Open		
MW707 105A	105 deg. Hold Open		
W707 90N	90 deg. Non-Hold Open	Wood Door & Frame	
W707 90A	90 deg. Hold Open		
W707 105N	105 deg. Non-Hold Open		
W707 105A	105 deg. Hold Open		

Model	Degree/Function	Door/Frame Material	Door Width/ Height
708 90N	90 deg. Non-Hold Open	Aluminium Door & Frame	Exterior 3'6" x 8'0" Interior 3'8" x 8'0"
708 90A	90 deg. Hold Open		
708 105N	105 deg. Non-Hold Open		
708 105A	105 deg. Hold Open		
M708 90N	90 deg. Non-Hold Open	Metal Door & Frame	
M708 90A	90 deg. Hold Open		
M708 105N	105 deg. Non-Hold Open		
M708 105A	105 deg. Hold Open		
MW708 90N	90 deg. Non-Hold Open	Wood Door & Metal Frame	
MW708 90A	90 deg. Hold Open		
MW708 105N	105 deg. Non-Hold Open		
MW708 105A	105 deg. Hold Open		
W708 90N	90 deg. Non-Hold Open	Wood Door & Frame	
W708 90A	90 deg. Hold Open		
W708 105N	105 deg. Non-Hold Open		
W708 105A	105 deg. Hold Open		

FINISHES

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613 (US10B)	Antique bronze
619 (US15)	Satin nickel plated, clear coated
622 (US19)	Flat black coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
696 (US4)	Gold, painted
BSP	Black suede powder coat
WSP	White suede powder coat

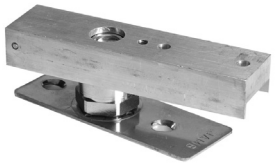
Note: *Arms are available in sprayed finishes; cover plates are available in plated finishes, BSP and WSP.*

ARCHITECTURAL GRADE DOUBLE ACTING, CENTER HUNG

OVERHEAD CONCEALED CLOSERS

MODEL 800





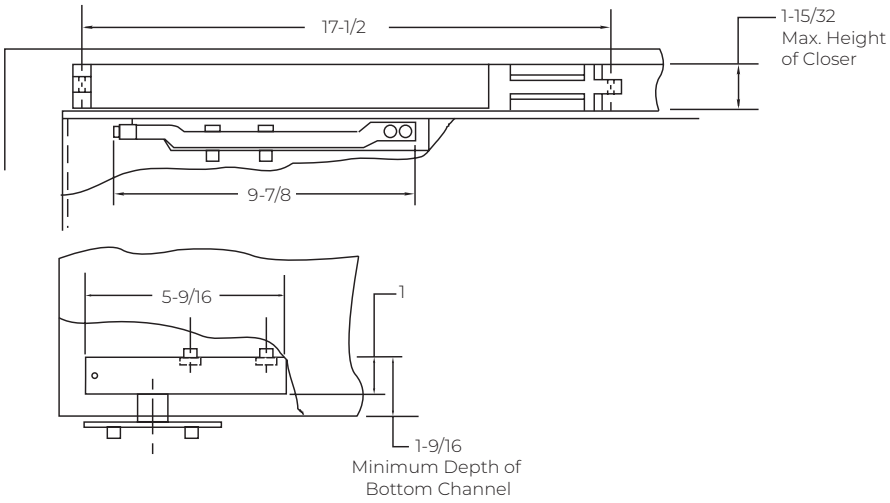
Application
- Exterior or interior doors
- Door weight up to 200 lbs.

Features
- Double acting
- Non-handed
- Available non-hold open (N) or automatic hold open (A). Specify 90° or 105°, N or A
- Adjustable closing speed valve
- Includes 2183020 bottom pivot
- Product should always be used with auxiliary floor or wall stop
- 2 year limited warranty

Optional Features
- Extended spindle; 1/2" longer than standard closer spindle. Must be ordered as part of the closer; cannot be added later
- End cap 199 for top and bottom of wood door

Specifications
Hydraulic closer mechanism to fit in minimum 1-3/4" x 4" aluminum frame. Closer shall have a sized spring determined by the door width. Adjustable hydraulic backcheck and closing speed valves. For double acting doors, model 800 has adjustable closing speed for each swing direction. Vertically adjustable center hung bottom pivot included. Hold open (option) is achieved through the closer body and degree called out.

TECHNICAL INFO



Model	Door/Frame Application	Frame Dimensions	Package includes
800	Aluminum Door/Frame	1-3/4" x 4"	Closer body, arm, frame mounting clips (1639000), and bottom pivot (2183020)
M800	Metal Door/Frame	2" x 5-1/2"	Closer body, arm, cover plate, frame mounting channel (1929000*) and bottom pivot (2183020)
MW800	Wood Door/Metal Frame		
W800	Wood Door/Frame	2" x 5-1/2"	Closer body, arm, cover plate, frame mounting channel (1980910*) and bottom pivot (2183020)

*Note: mounting channels must be welded into frames prior to shipment to job site.

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MODEL 800

HOW TO ORDER

Specify Model and Finish when ordering.

M807 90A

If applicable, specify "1/2 in. ext. spdl"

626

OPTION
1/2" Extended Spindle

Model	Degree/Function	Door/Frame Material	Door Width/ Height
806 90N	90 deg. Non-Hold Open	Aluminium Door & Frame	Exterior 2'6" x 8'0" Interior 3'0" x 8'0"
806 90A	90 deg. Hold Open		
806 105N	105 deg. Non-Hold Open		
806 105A	105 deg. Hold Open		
M806 90N	90 deg. Non-Hold Open	Metal Door & Frame	
M806 90A	90 deg. Hold Open		
M806 105N	105 deg. Non-Hold Open		
M806 105A	105 deg. Hold Open		
MW806 90N	90 deg. Non-Hold Open	Wood Door & Metal Frame	
MW806 90A	90 deg. Hold Open		
MW806 105N	105 deg. Non-Hold Open		
MW806 105A	105 deg. Hold Open		
W806 90N	90 deg. Non-Hold Open	Wood Door & Frame	
W806 90A	90 deg. Hold Open		
W806 105N	105 deg. Non-Hold Open		
W806 105A	105 deg. Hold Open		
807 90N	90 deg. Non-Hold Open	Aluminium Door & Frame	Exterior 3'0" x 8'0" Interior 3'3" x 8'0"
807 90A	90 deg. Hold Open		
807 105N	105 deg. Non-Hold Open		
807 105A	105 deg. Hold Open		
M807 90N	90 deg. Non-Hold Open	Metal Door & Frame	
M807 90A	90 deg. Hold Open		
M807 105N	105 deg. Non-Hold Open		
M807 105A	105 deg. Hold Open		
MW807 90N	90 deg. Non-Hold Open	Wood Door & Metal Frame	
MW807 90A	90 deg. Hold Open		
MW807 105N	105 deg. Non-Hold Open		
MW807 105A	105 deg. Hold Open		
W807 90N	90 deg. Non-Hold Open	Wood Door & Frame	
W807 90A	90 deg. Hold Open		
W807 105N	105 deg. Non-Hold Open		
W807 105A	105 deg. Hold Open		

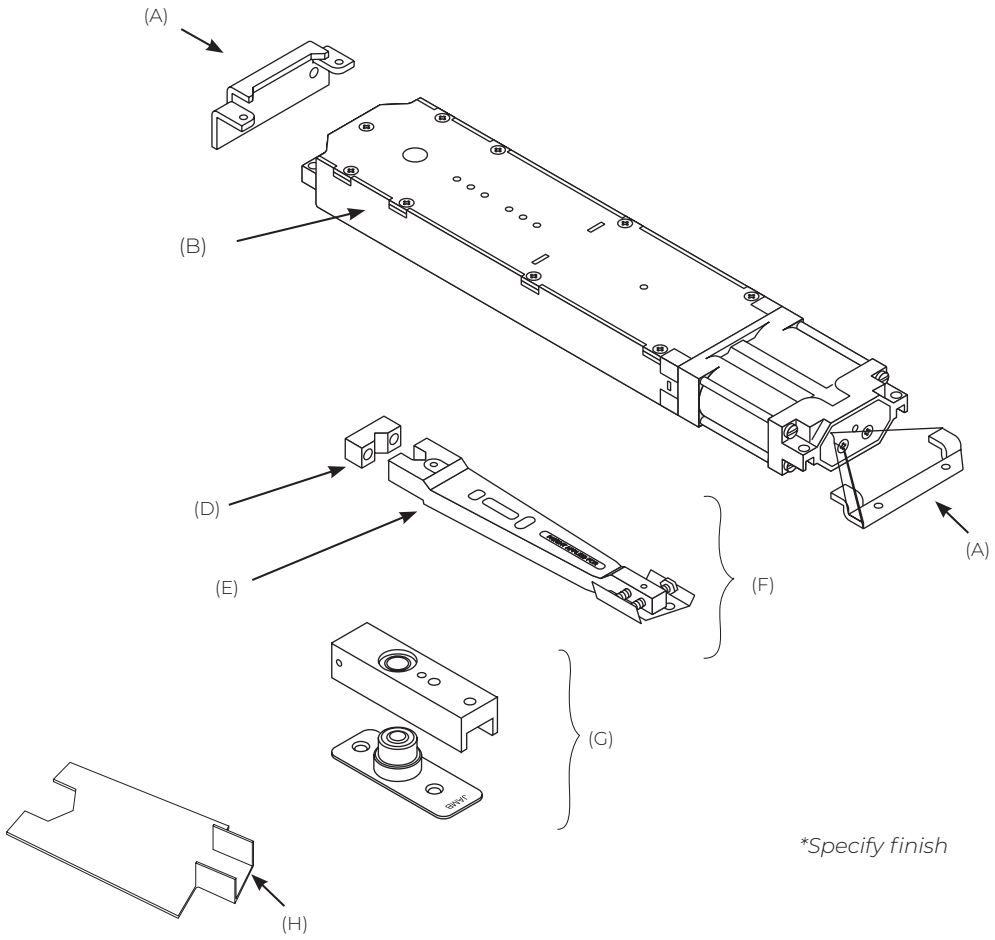
Model	Degree/Function	Door/Frame Material	Door Width/ Height
808 90N	90 deg. Non-Hold Open	Aluminium Door & Frame	Exterior 3'6" x 8'0" Interior 3'8" x 8'0"
808 90A	90 deg. Hold Open		
808 105N	105 deg. Non-Hold Open		
808 105A	105 deg. Hold Open		
M808 90N	90 deg. Non-Hold Open	Metal Door & Frame	
M808 90A	90 deg. Hold Open		
M808 105N	105 deg. Non-Hold Open		
M808 105A	105 deg. Hold Open		
MW808 90N	90 deg. Non-Hold Open	Wood Door & Metal Frame	
MW808 90A	90 deg. Hold Open		
MW808 105N	105 deg. Non-Hold Open		
MW808 105A	105 deg. Hold Open		
W808 90N	90 deg. Non-Hold Open	Wood Door & Frame	
W808 90A	90 deg. Hold Open		
W808 105N	105 deg. Non-Hold Open		
W808 105A	105 deg. Hold Open		

FINISHES

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613 (US10B)	Antique bronze
619 (US15)	Satin nickel plated, clear coated
622 (US19)	Flat black coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
696 (US4)	Gold, painted
BSP	Black suede powder coat
WSP	White suede powder coat

Note: *Arms are available in sprayed finishes; cover plates are available in plated finishes, BSP and WSP.*

MODEL 700, 800



**Specify finish*

SCREW KITS

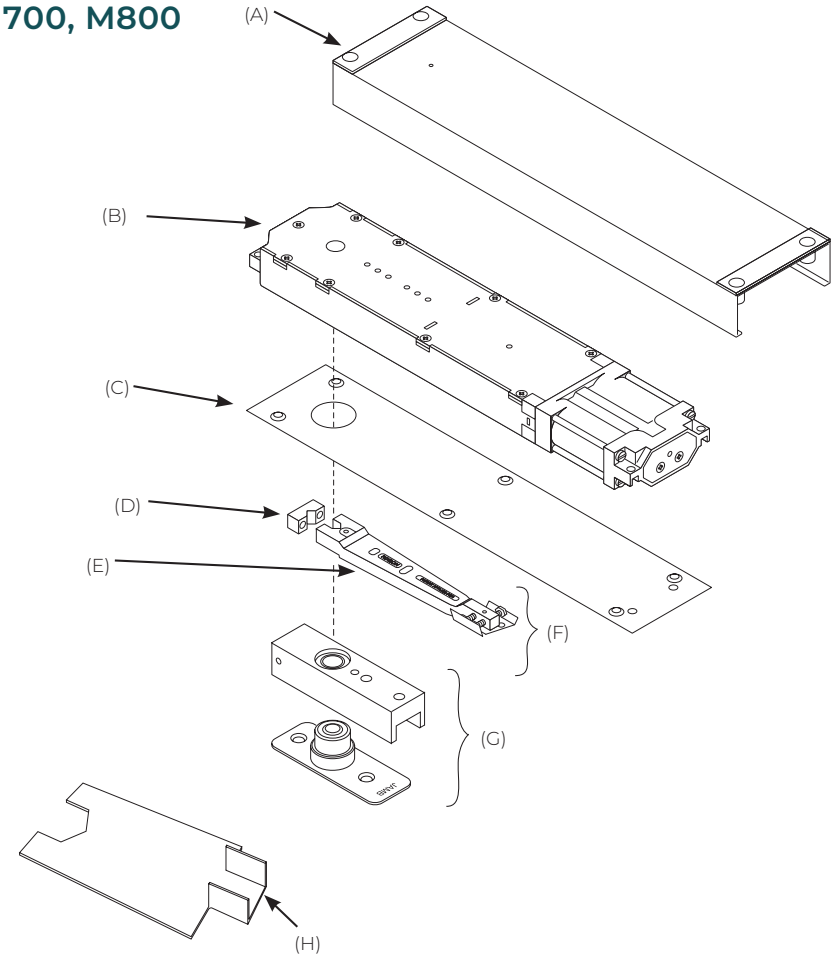
Bottom Pivot Screw Kit 107218
Arm Screw Kit 107055 (Includes arm end block)
Arm Block Screw 806018-PKG

(A) Attaching Bracket 1639000
(B) Closer Body (Specify Complete Model No. x LAP)
(D) Arm Block 808075-1
(E) Arm Assembly 808175
(F) Arm Package 8002020
(G) Bottom Pivot Package 2183020
(H) Pivot Wrench, 218007

PARTS LIST

OVERHEAD CONCEALED CLOSERS

MODEL M700, M800



SCREW KITS

Bottom Pivot Screw Kit 107218
Arm Screw Kit 107055 (Includes arm end block)
Arm Block Screw 806018-PKG
Cover Plate Screw Kit 107006-*

(A) Closer Mounting Channel 1929000

(B) Closer Body (Specify Complete Model No. x LAP)

(C) Cover Plate
700 Series, 7004000R* (RH), 7004000L* (LH)
800 Series, 8004000-*

(D) Arm Block, 808075-1

(E) Arm Assembly, 808175

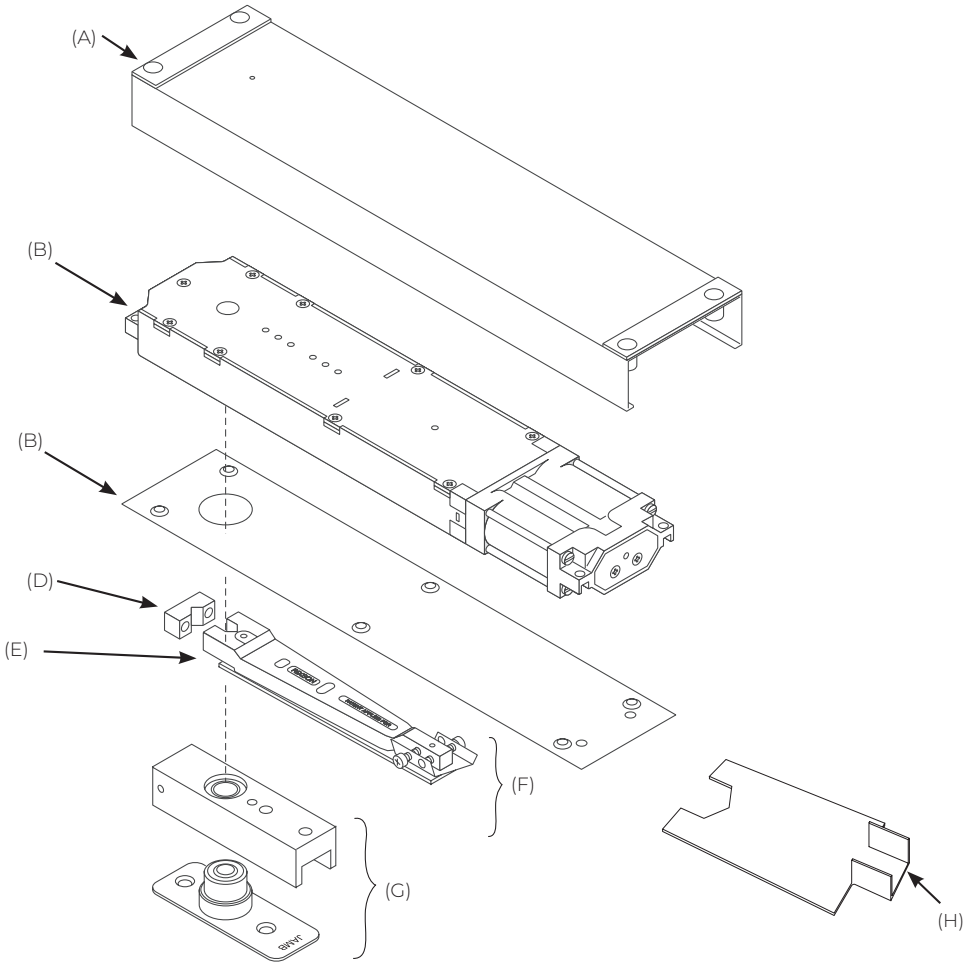
(F) Arm Package, 8002020

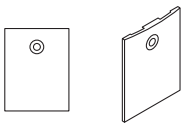
(G) Bottom Pivot Package, 2183020

(H) Pivot Wrench, 218007

** Specify finish*

MODEL MW700, MW800





Decorative Arm Cap (contains 2 caps)
1990906- (612 and 627 only)*

SCREW KITS

Bottom Pivot Screw Kit 107218

Arm Screw Kit 107055 (Includes arm end block)

Arm Block Screw 806018-PKG

Cover Plate Screw Kit 107006-*

(A) Closer Mounting Channel 1929000

(B) Closer Body (Specify Complete Model No. x LAP)

(C) Cover Plate
700 Series, 7004000R* (RH), 7004000L* (LH),
800 Series, 8004000-*

(D) Arm Block 808075-1

(E) Arm Assembly 808174

(F) Arm Package 8002021

(G) Bottom Pivot Package 2183020

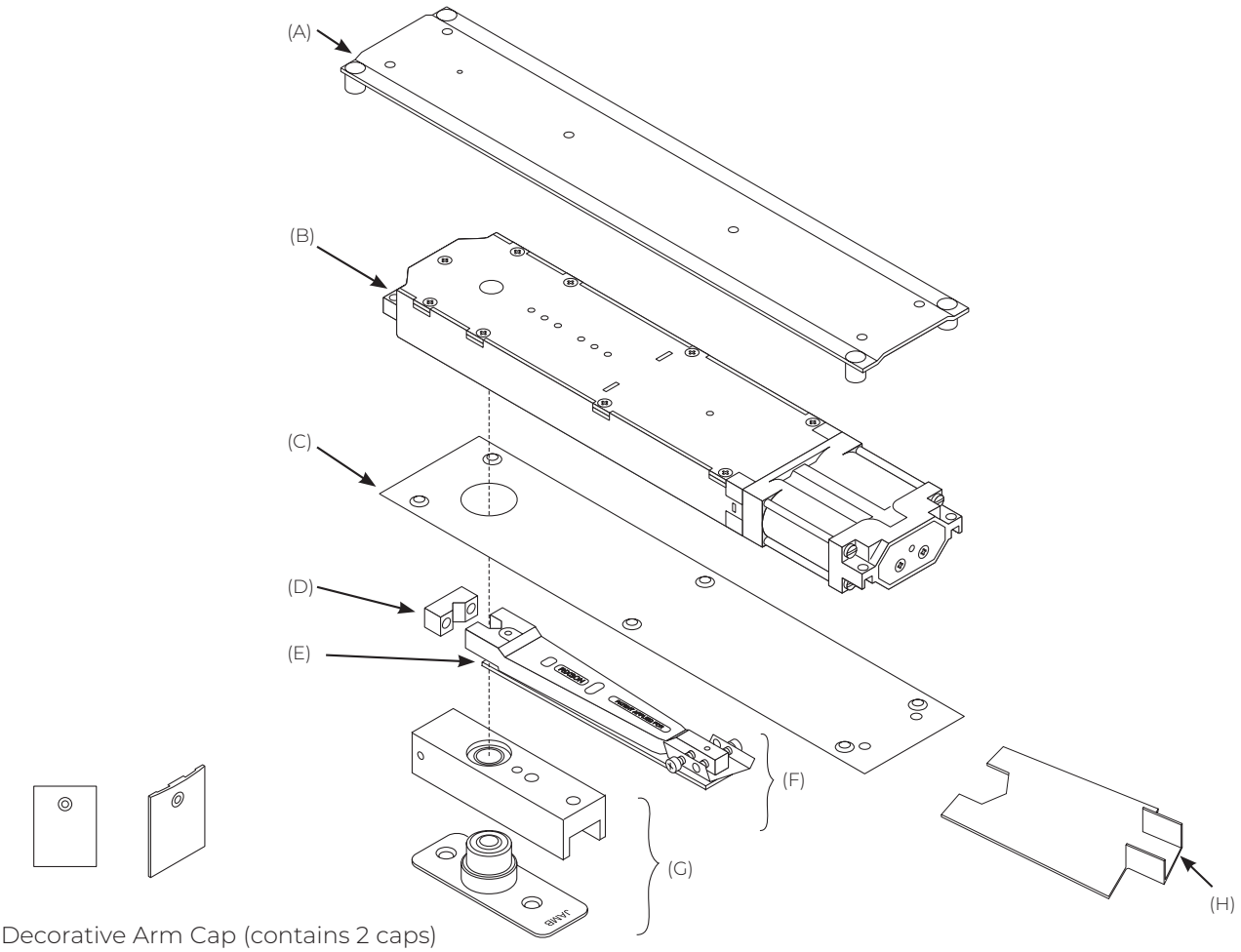
(H) Pivot Wrench, 218007

** Specify finish*

PARTS LIST

OVERHEAD CONCEALED CLOSERS

MODEL W700, W800



Decorative Arm Cap (contains 2 caps)
1990906-* (612 and 627 only)

SCREW KITS

Bottom Pivot Screw Kit 107218

Arm Screw Kit 107055 (Includes arm end block)

Arm Block Screw 806018-PKG

Cover Plate Screw Kit 107006-*

(A) Closer Mounting Channel 1980910

(B) Closer Body (Specify Complete Model No. x LAP)

(C) Cover Plate
7004000R* (RH),
7004000L* (LH)

(D) Arm Block 808075-1

(E) Arm Assembly 808174

(F) Arm Package 8002021

(G) Bottom Pivot Package 2183020

(H) Pivot Wrench, 218007

** Specify finish*

COMMODITY GRADE, OFFSET HUNG

OVERHEAD CONCEALED CLOSERS

MODEL 0608

Application

- Exterior or interior doors
- Door weight up to 200 lbs.
- Maximum door size 3'8" x 8'

Features

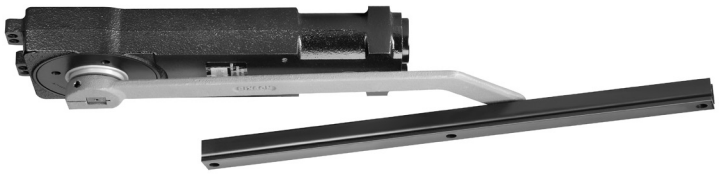
- Single acting
- Non-handed
- Available non-hold open (N)
- Available automatic hold open - specify 90° or 105° (A)
- Arms only available in sprayed finishes
- Adjustable closing and latch speeds
- Removable frame stop required
- Product should always be used with auxiliary floor or wall stop
- Hanging means by others. Recommended product - pivot set 547. See Pivot Catalog.
- Cannot be used with a top pivot
- 2 year limited warranty

Optional Features

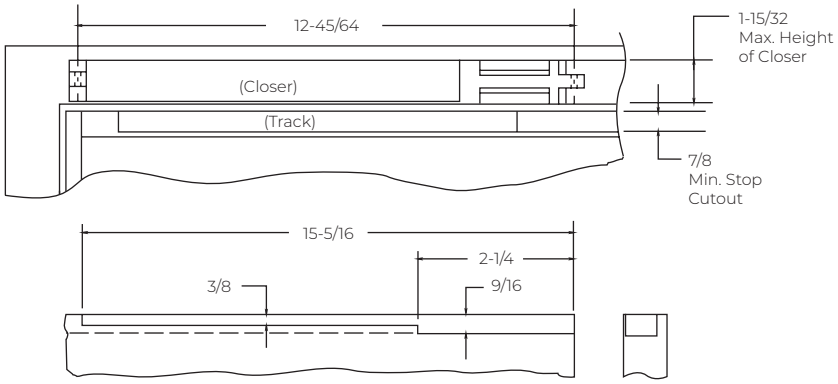
- Extended spindle; 1/2" longer than standard closer spindle. Must be ordered as part of the closer; cannot be added later

Specifications

Compact cast iron body to fit in minimum 1-3/4 x 4" aluminum frame. Closer shall have separate and independent closing and latch speed control valves. Optional hold open at 90 or 105°. Closer body is non-handed, single acting. For independently hung doors use model 0608 with slide track arm and channel.



TECHNICAL INFO



Model	Door/Frame Application	Frame Dimensions	Package includes
M0608	Metal Door/Frame	2" x 5-1/2"	Closer body, arm, frame mounting box (608049PKG*), and cover plate
MW0608	Wood Door/Metal Frame		
W0608	Wood Door/Frame		
AW0608	Wood Door/Aluminum Frame	1-3/4" x 4"	Closer body, arm, and frame mounting clips

*Note that mounting box must be welded into frames prior to shipment to job site.

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COMMODITY GRADE, OFFSET HUNG
OVERHEAD CONCEALED CLOSERS

MODEL 0608

HOW TO ORDER

Specify Model, and Finish when ordering.

M0608 90A

Model	Degree/Function	Door/Frame Material
0608N	Non-Hold Open	Aluminium Door & Frame
0608 90A	90 Deg. Hold Open	
0608 105A	105 Deg. Hold Open	
M0608N	Non-Hold Open	Metal Door & Frame
M0608 90A	90 Deg. Hold Open	
M0608 105A	105 Deg. Hold Open	
MW0608N	Non-Hold Open	Wood Door & Metal Frame
MW0608 90A	90 Deg. Hold Open	
MW0608 105A	105 Deg. Hold Open	
W0608 90N	Non-Hold Open	Wood Door & Frame
W0608 90A	90 Deg. Hold Open	
W0608 105A	105 Deg. Hold Open	
AW0608 90N	Non-Hold Open	Wood Door & Aluminum Frame
AW0608 90A	90 Deg. Hold Open	
AW0608 105A	105 Deg. Hold Open	

If applicable, specify "1/2 in. ext. spdl"

OPTION
1/2" Extended Spindle

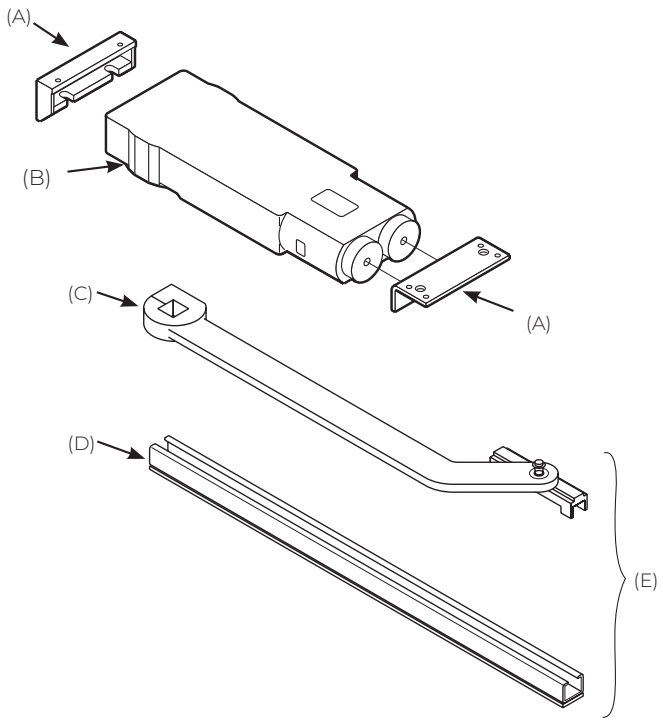
689

FINISHES

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613 (US10B)	Antique bronze
619 (US15)	Satin nickel plated, clear coated
622 (US19)	Flat black coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold, painted
BSP	Black suede powder coat
WSP	White suede powder coat

Note: *Arms are available in sprayed finishes; cover plates are available in plated finishes, BSP and WSP.*

MODEL 0608/AW0608



SCREW KITS

Screw Kit 608064

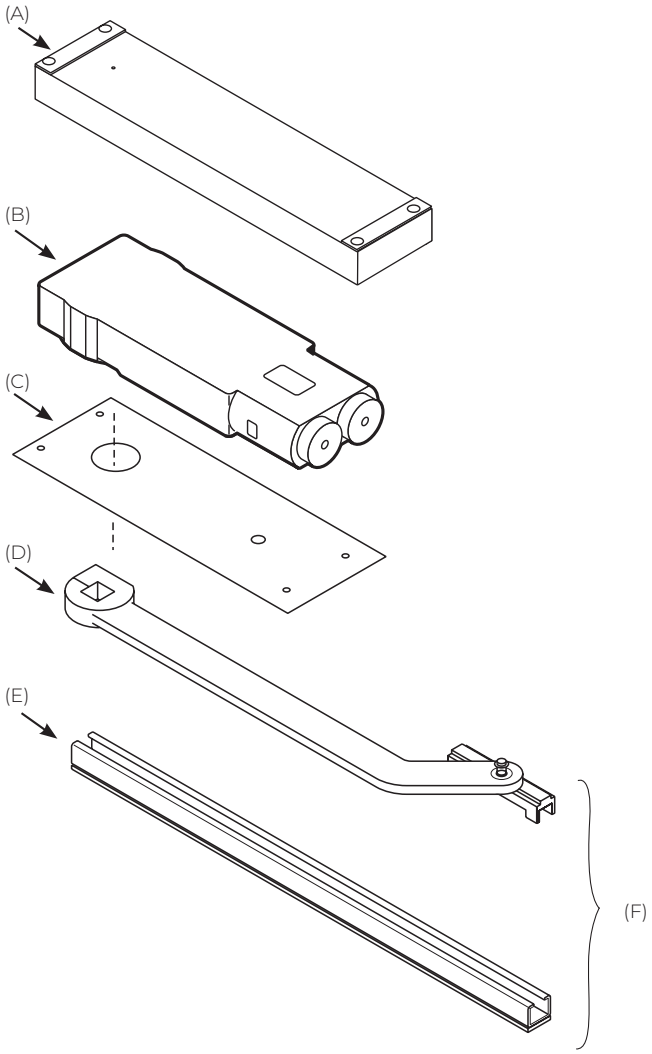
(A) Closer Mounting Kit 608019
(B) Closer Body (Specify Complete Model No. x LAP)
(C) Arm Assembly (sprayed finishes only) 0608312-*
(D) Rail 0608109
(E) Arm & Rail Package (sprayed finishes only) 06082012-*

** Specify finish*

PARTS LIST

OVERHEAD CONCEALED CLOSERS

MODEL M0608/MW0608/W0608



SCREW KITS

Cover Plate Screw Kit 107022-*

Screw Kit 608064

(A) Closer Mounting Kit 608049PKG
(B) Closer Body (Specify Complete Model No. x LAP)
(C) Cover Plate 6084000-*
(D) Arm Assembly (sprayed finishes only) 0608312-*
(E) Rail 0608109
(F) Arm & Rail Package (sprayed finishes only) 06082012-*

** Specify finish*

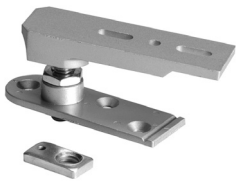
COMMODITY GRADE, CENTER HUNG
OVERHEAD CONCEALED CLOSERS

MODEL 608

Application
- Exterior or interior doors
- Door weight up to 200 lbs.
- Maximum door size: interior 3'8" x 8', exterior 3'6" x 8'

Features
- Single or double acting
- Non-handed
- Available in non-hold open (N)
- Available in automatic hold open (both directions) Specify 90° or 105° (A)
- Adjustable closing and latch speeds
- Includes 608011 bottom pivot
- Frame stop is required. See Door Control Accessories Catalog (part number 60131). Order separately.
- Product should always be used with auxiliary floor or wall stop
- 2 year limited warranty



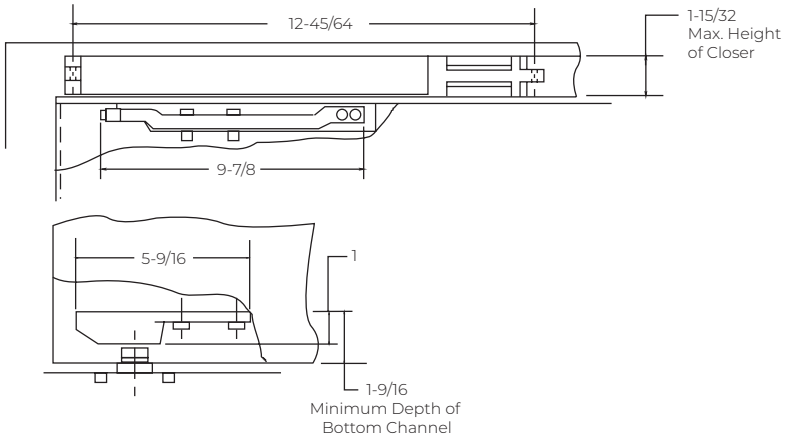


End load arm shown

Optional Features
- Extended spindle; 1/2" longer than standard closer spindle. Must be ordered as part of the closer; cannot be added later
- 199 end caps for top and bottom of wood door

Specifications
Compact cast iron body to fit in minimum 1-3/4 x 4" aluminum frame. Closer shall have separate and independent closing and latch speed control valves. Optional hold open at 90 or 105°. For center hung applications, arm shall have door centering adjustments and be directly connected to the closer spindle. Closer body is non-handed, single or double acting. Vertically adjustable center hung bottom pivot included.

TECHNICAL INFO



Model	Door/Frame Application	Frame Dimensions	Package includes
608EL	Aluminum Door/Frame	1-3/4" x 4"	Closer body, end load arm, frame mounting clips, and bottom pivot (608011)
608SL	Aluminum Door/Frame		Closer body, side load arm, frame mounting clips, and bottom pivot (608011)
M608	Metal Door/Frame	2" x 5-1/2"	Closer body, arm, frame mounting box (608049PKG*), cover plate and bottom pivot (608011)
MW608	Wood Door/Metal Frame		
W608	Wood Door/Frame		
AW608	Wood Door/Aluminum Frame	1-3/4" x 4"	Closer body, arm, frame mounting clips, and bottom pivot (608011)

*Note that mounting box must be welded into frames prior to shipment to job site.

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MODEL 608

HOW TO ORDER

Specify Model and Finish when ordering.

MW608 105A

Model	Degree/Function	Arm	Door/ Frame Material
608ELN	Non-Hold Open	End Load	Aluminium Door & Frame
608EL 90A	90 Deg. Hold Open		
608EL 105A	105 Deg. Hold Open		
SL608N	Non-Hold Open	Side Load	
SL608 90A	90 Deg. Hold Open		
SL608 105A	105 Deg. Hold Open		
M608N	Non-Hold Open		Metal Door & Frame
M608 90A	90 Deg. Hold Open		
M608 105A	105 Deg. Hold Open		
MW608N	Non-Hold Open		Wood Door & Metal Frame
MW608 90A	90 Deg. Hold Open		
MW608 105A	105 Deg. Hold Open		
W608N	Non-Hold Open		Wood Door & Frame
W608 90A	90 Deg. Hold Open		
W608 105A	105 Deg. Hold Open		
AW608N	Non-Hold Open		Wood Door & Aluminum Frame
AW608 90A	90 Deg. Hold Open		
AW608 105A	105 Deg. Hold Open		

If applicable, specify "1/2 in. ext. spdl"

OPTION
1/2" Extended Spindle

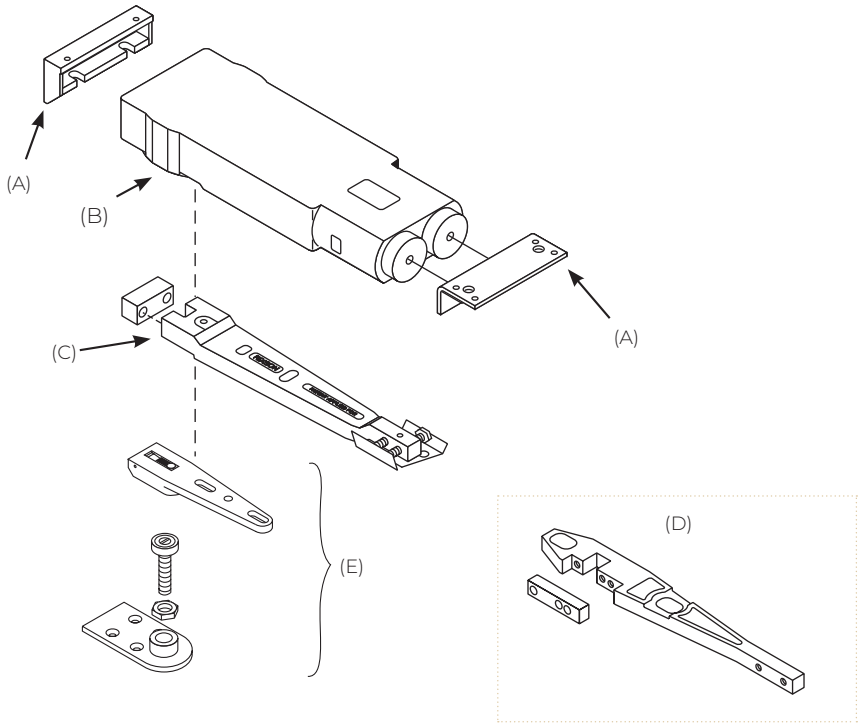
BSP

FINISHES

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613 (US10B)	Antique bronze
619 (US15)	Satin nickel plated, clear coated
622 (US19)	Flat black coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold, painted
BSP	Black suede powder coat
WSP	White suede powder coat

Note: *Arms are available in sprayed finishes; cover plates are available in plated finishes, BSP and WSP.*

MODEL 608EL/608SL



SCREW KITS

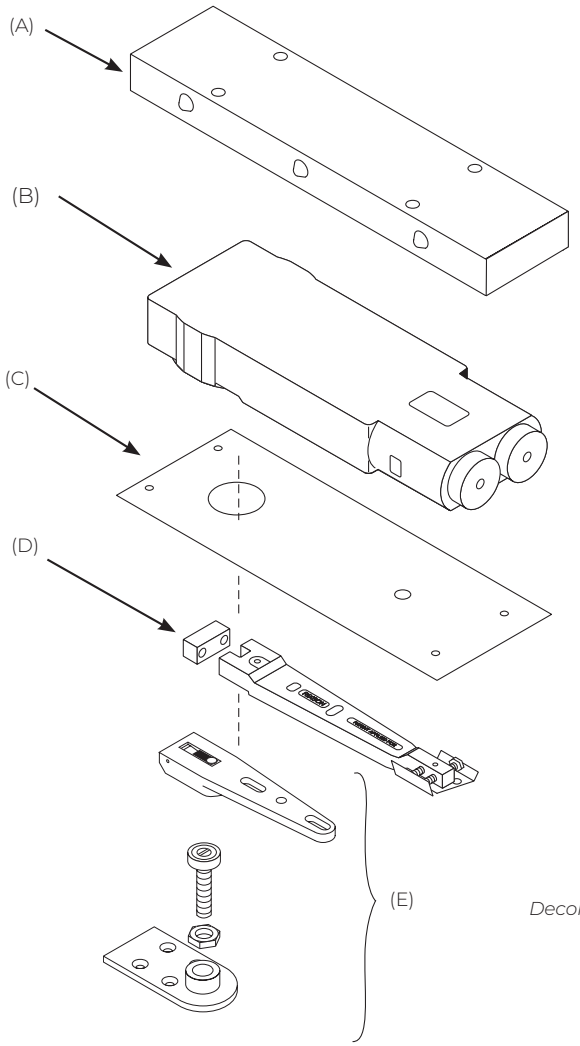
Arm Screw Kit 107065 (Includes arm end block)

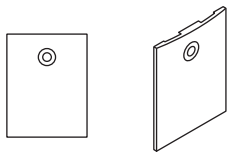
Bottom Pivot Screw Kit 107143

(A) Closer Mounting Kit 608019
(B) Closer Body (Specify Complete Model No. x LAP)
(C) End Load Arm Pkg 6002020
(D) Side Load Arm 608005S
(E) Bottom Pivot with Screws 608011A

** Specify finish*

MODEL M608





Decorative Arm Cap (contains 2 caps)
1990906- (612 and 627 only)*

SCREW KITS

Arm Screw Kit 107065 (Includes arm end block)

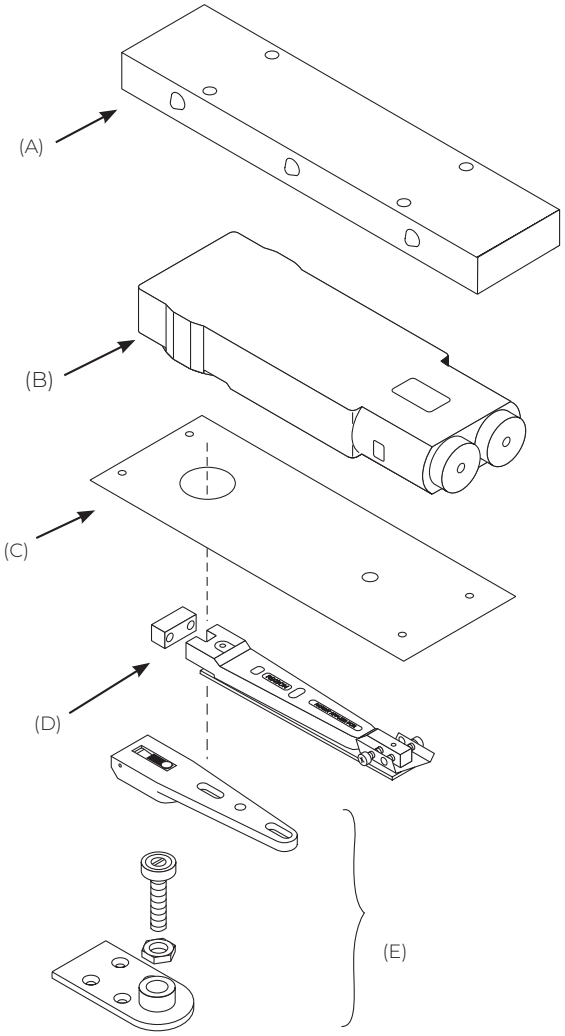
Cover Plate Screw Kit 107022-*

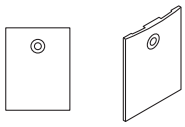
Bottom Pivot Screw Kit 107143

(A) Closer Mounting Kit 608049PKG
(B) Closer Body (Specify Complete Model No. x LAP)
(C) Cover Plate 6084000 - *
(D) Arm Package 6002020
(E) Bottom Pivot 608011A

** Specify finish*

MODEL MW608/W608





Decorative Arm Cap (contains 2 caps)
1990906- (612 and 627 only)*

SCREW KITS

Bottom Pivot Screw Kit 107143

Arm Screw Kit 107065 (Includes arm end block)

Cover Plate Screw Kit 107022-*

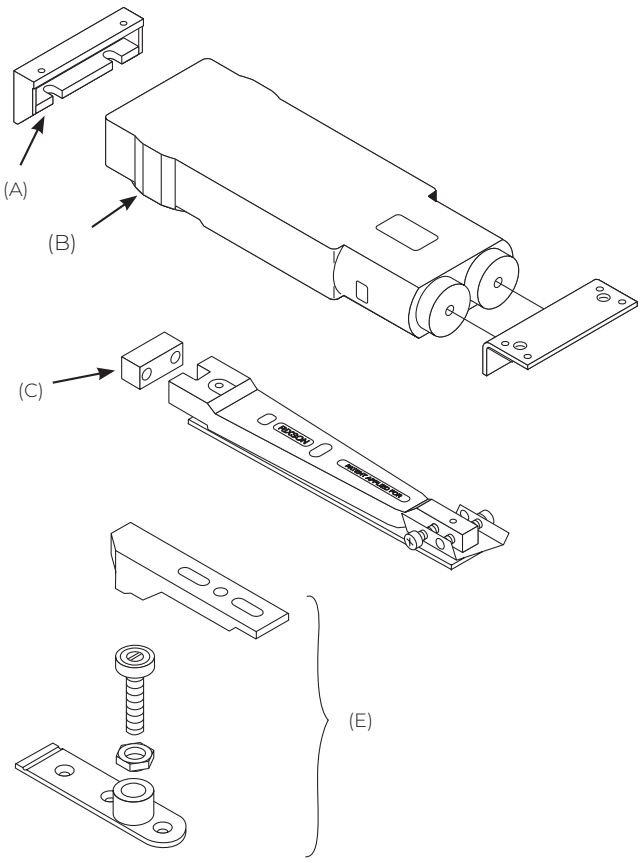
(A) Closer Mounting Kit 608049PKG
(B) Closer Body (Specify Complete Model No. x LAP)
(C) Cover Plate 6084000 - *
(D) Arm Package 6002021
(E) Bottom Pivot with Screws 608011A

** Specify finish*

PARTS LIST

OVERHEAD CONCEALED CLOSERS

MODEL AW608



SCREW KITS

Arm Screw Kit 107065 (Includes arm end block)

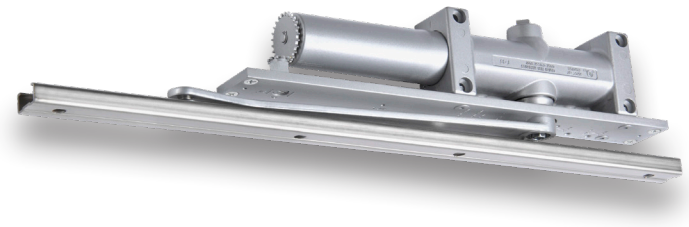
Bottom Pivot Screw Kit 107143

(A) Closer Mounting Kit 608019
(B) Closer Body (Specify Complete Model No. x LAP)
(C) End Load Arm Pkg 6002021
(E) Bottom Pivot with Screws 608011A

** Specify finish*

ARCHITECTURAL GRADE
OVERHEAD CONCEALED CLOSERS

MODEL 7900



Application
- Exterior or interior doors
- Door weight up to 200 lbs.
- Minimum door width 27"
- Can be used with butt hinges (5" max), 3/4 offset pivots or center hung pivots

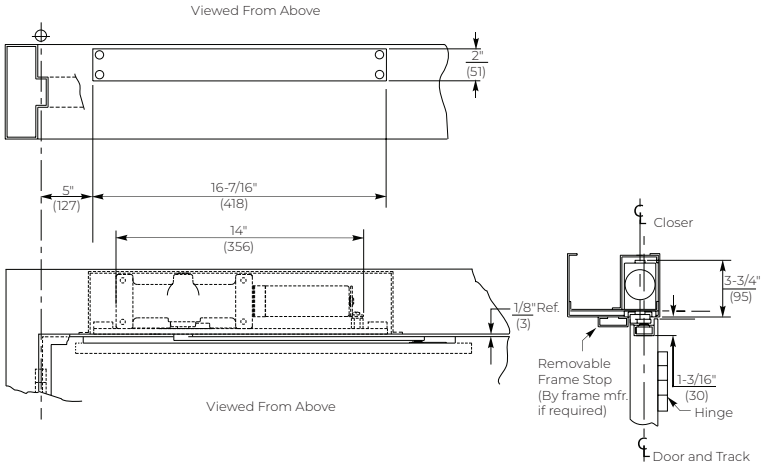
Features
- Single acting
- Steel track & slider
- Dress cover plate included
- Shock absorbing door stop
- Aluminium alloy shell
- Adjustable sweep and latch speeds
- Adjustable backcheck cushioning and positioning
- Spring power options:
  - Size 4 (50% adjustability)
  - Adjustable spring 1-3
- Handed
- 1-3/4" – 2-1/4" thick doors
- Fully adjustable, multi-point hold open (7900)
- Minimum 4" high frame
- Non-hold open and hold open units have a shock-absorbing adjustable position stop in the slide track.
- A separate auxiliary door stop, supplied by others, is strongly recommended to avoid damage to door closer and adjacent property.
- Maximum degree of hold open is dependent on how door is hung:
  - Butt hinges: 85-110°
  - Offset pivots: 85-95°
  - Center pivots: 85-100°
- Torx® screws furnished standard (7970 only)
- Door Position Switch (DPS) option (7970 only)
- 10-year limited warranty

Optional Features
- Delayed Action
- Enhanced backcheck (in lieu of standard backcheck and backcheck positioning)

Compliance
- ANSI/BHMA A156.4 Grade 1
- UL-cUL listed
- UL10C positive pressure up to 3 hours
- Complies with requirements for the Americans with Disabilities Act (A.D.A.) and ANSI standard A117.1 (Model 7900 or 7970)
- MEA - City of New York
- CAL Fire 3550.0944:0100, 3550.0944:0102

WHI
The Fire Block door liner is listed with Warnock Hersey International for use in 20-minute (wood) fire doors that are listed with WHI, when used with the Series 7900 door closer. Specify model number 790. The combination of a 7900 door closer installed in a UL labeled hollow metal door frame and a Norton Rixson Fire Block installed in a WHI labeled 20-minute (wood) fire door, which has the tested preparation, may qualify as a 20-minute fire door assembly. Always consult local authorities to determine the acceptance and proper application of fire door and hardware applications.

TECHNICAL INFO



Shown with offset pivots

Specifications
Model 7900 shall be concealed in a 4" (102 mm) high frame header. The slide track shall be concealed in the top rail of the door. (Closer shall be provided with a fireblocking door liner to permit installation in 20-minute wood fire door assemblies.) Closer shall have (four) (five) noncritical valves, hex-key operated, to independently regulate sweep speed, latch speed, backcheck cushioning (and backcheck positioning) (and delayed action closing). [Closers shall be sized units (4)]. [Closers shall have power adjustment to permit a 50% increase in power over the minimum closing force for any size.] [Closers shall have multi-sized adjustment for (interior doors)(exterior doors)]. Closer shall conform to Accessibility Code specifications. Degree of stop shall be field adjustable. Slide track shall have a built-in cushioning shock absorber mechanism. (Hold open mechanism shall be capable of release when holding function is not required. Hold open mechanism shall have an adjustable range 85°-110° of door opening and shall release with a manual pressure on the edge of the door in the direction of closer). 7970/7970DPS shall be supplied with Torx® lobular drive fasteners having a center security pin.

Experience a safer and more open world

MODEL 7900

HOW TO ORDER

Specify Model, Hand and Finish when ordering.

7904 | **If applicable, specify options listed below** | **RH** | **626**

Model	Description
Non-Hold Open	
7900	Multi-Size 1-3 Spring
7904	Size 4 Spring
Hold Open	
7900H	Multi-Size 1-3 Spring
7904H	Size 4 Spring

Note: *For 20-min wood fire doors, order 790 Fire Block package*

OPTIONS

DA - Delayed Action
EBC - Enhanced Backcheck (available on 7900 and 7900H only)

HAND

LH - Left Hand
RH - Right Hand

FINISHES

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
613E (US10B)	Antique bronze
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold, painted
BSP	Black suede powder coat
WSP	White suede powder coat

MODELS 7970, 7970DPS

HOW TO ORDER

Specify Model, Hand and Finish when ordering.

7970 | **If applicable, specify options listed below** | **RH** | **690**

Model	Description
Non-Hold Open	
7970	Multi-Size 1-3 Spring
7970DPS	Multi-Size 1-3 Spring, Door Position Switch
7974	Size 4 Spring
7974DPS	Size 4 Spring, Door Position Switch
Hold Open	
7900H	Multi-Size 1-3 Spring
7904H	Size 4 Spring

Note: For 20-min wood fire doors, order 790 Fire Block package

OPTIONS

DA - Delayed Action
EBC - Enhanced Backcheck

HAND

LH - Left Hand
RH - Right Hand

FINISHES

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
613E (US10B)	Antique bronze
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold, painted
BSP	Black suede powder coat
WSP	White suede powder coat

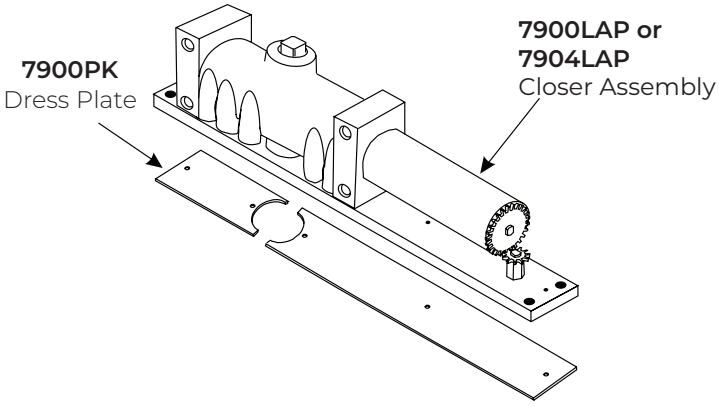
⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

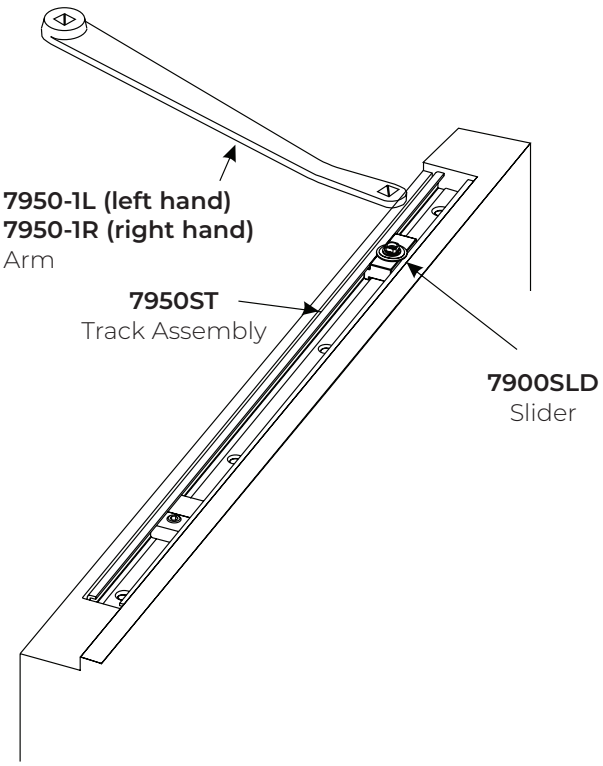
PARTS LIST

OVERHEAD CONCEALED CLOSERS

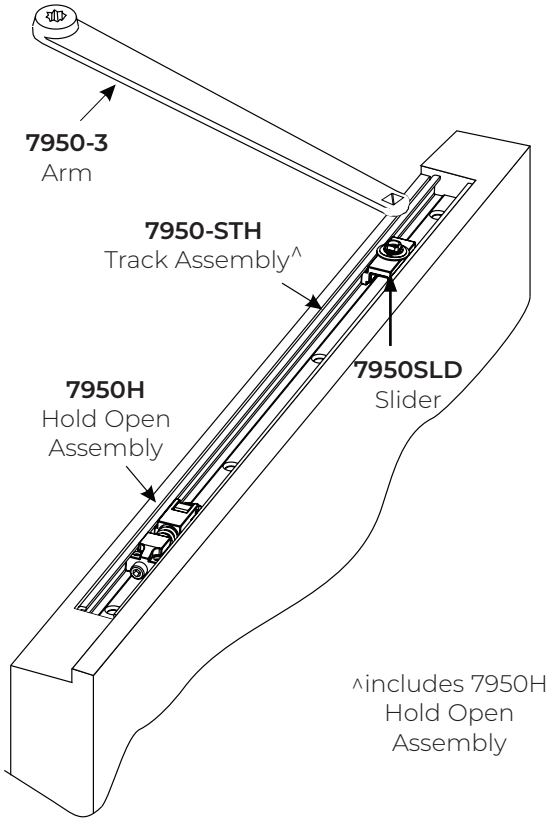
MODEL 7900



Non-Hold Open



Hold Open

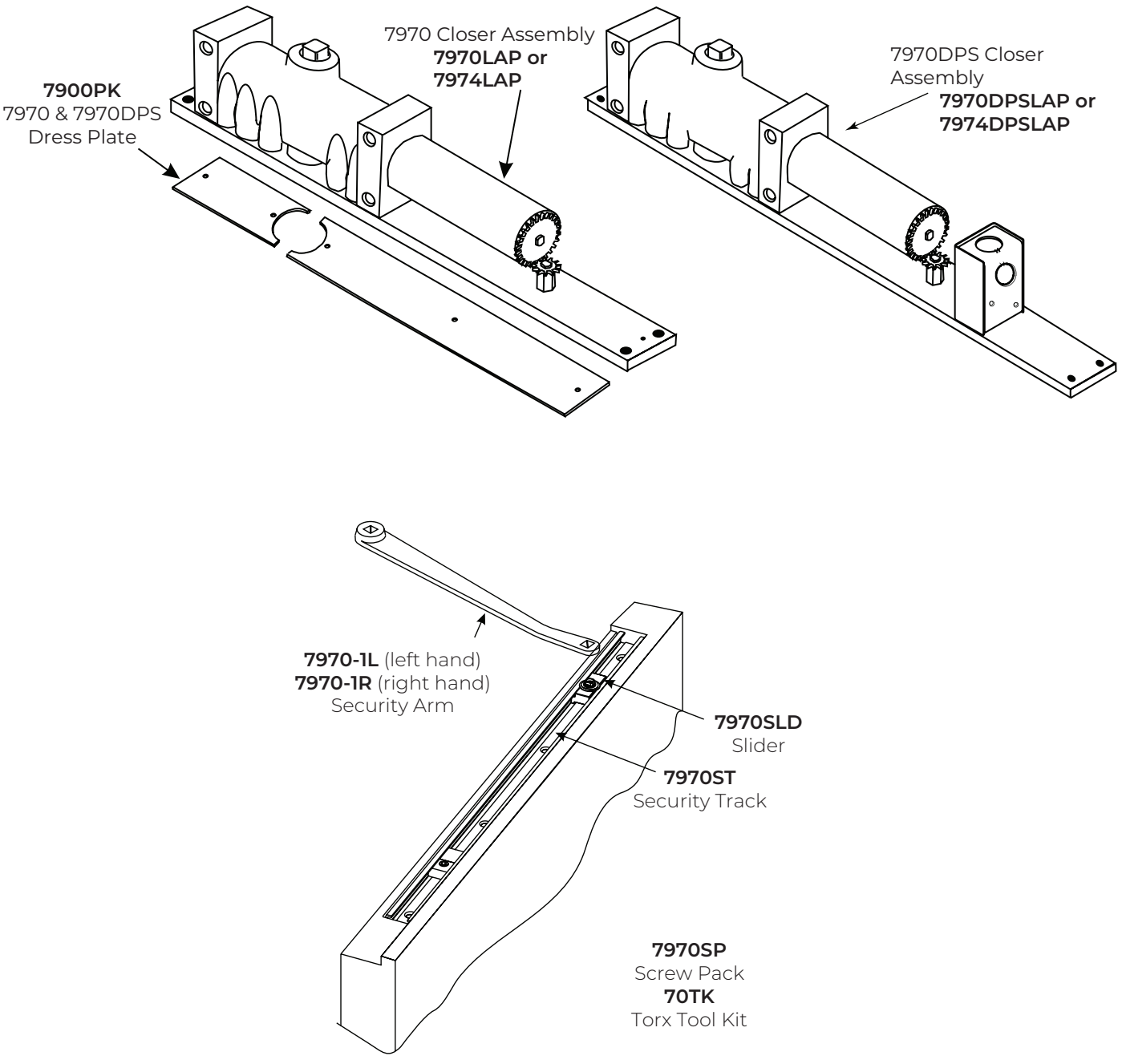


^includes 7950H Hold Open Assembly

Specify finish when ordering parts.

7900SP
Screw Pack

MODEL 7970



Specify finish when ordering parts.

COMMODITY GRADE
OVERHEAD CONCEALED CLOSERS

MODEL 61

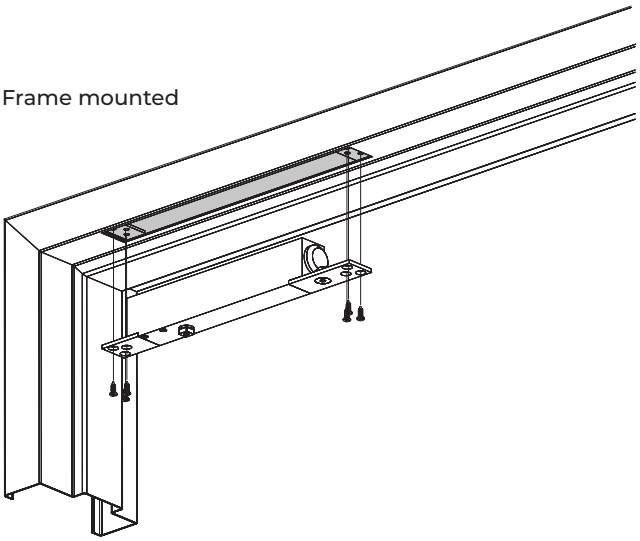


Application
- Concealed in the door or frame
- Interior doors
- Door weight: 175 lbs. (weight carried by hinges)
- Can be used in metal or wood doors/frames

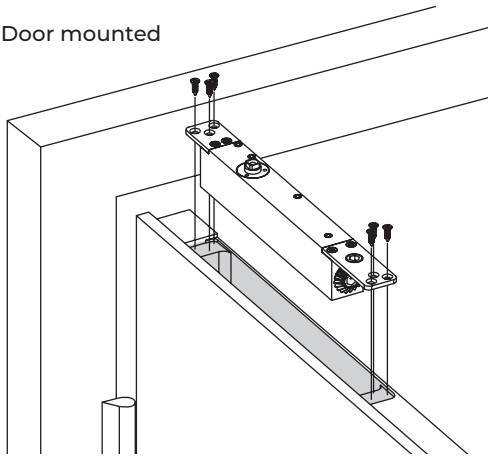
Features
- Cam action design for ease of opening and secure close
- Single acting
- Non-handed
- Adjustable spring size 2-4
- Minimum door thickness: 1-3/4"
- Minimum frame required: 1”
- Minimum top rail: 2-1/2"
- Maximum door width: 42"
- Adjustable closing speed, latching speed and backcheck
- Maximum opening: 120°
- Non-hold open model: specify 61N
- Hold open model: specify 61H
- Finish: 689, 693
- Warranty: 5 years

Compliance
- UL228

Frame mounted



Door mounted



MODEL 61

HOW TO ORDER

Specify Model and Finish when ordering.

61N

689

Model	Description
61N	Non-Hold Open
61H	Hold Open

FINISHES

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
693	Black, painted

PARTS

Model	Description
61HOASY	Hold open assembly

The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

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43058-02/26

CATALOG

SPECIALTY CLOSERS

HIGH-END SECURITY GATE SOLUTIONS

NORTON RIXSON

ASSA ABLOY

Experience a safer and more open world





NORTON RIXSON

ASSA ABLOY

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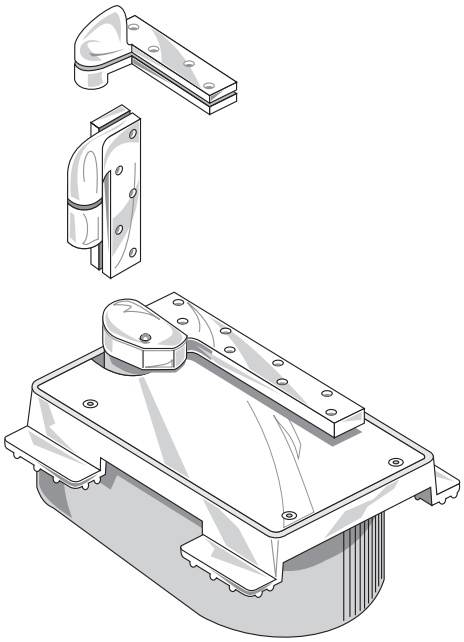
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Security Closers

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SEC27-180 Closer with FA180 top pivot and FA19 intermediate pivot (recommended)

⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

The closers in this section are for specific niche markets.

GATE CLOSERS MODELS 354, 355, 356, 357, 359

Closers that mount to the side jamb for small gates such as teller gates, courtroom gates.

- Closer mounts off the floor approximately 6" under the door
- Double acting with a hold open option
- Single acting when used with butts

EXTERIOR GATE CLOSERS MODEL 1351

Surface closers and tracks used on high-end residential and commercial ornamental iron fencing systems that must be self-closing.

- Extremely easy to install
- Uses surface closer technology

HIGH-SECURITY MODELS SEC27-180

These closers are used on doors in detention areas in hospitals, detention centers and non-cell prison doors. The weight of the door is supported at bottom.

- Door swings with less resistance
- Heavier doors can be accommodated
- Reduced stress on frame

Fasteners are in shear, not tension

- Eliminates door sag
- Vertically adjustable

Heavy-duty hardened steel spindles

- Designed to provide positive dead stop
- Thrust bearing supports vertical load
- Needle bearings for lateral force

Bottom arm directly attached to closer spindle

- A mechanical advantage that increases efficiency
- One-to-one ratio of door swing to spindle rotation makes controls more precise

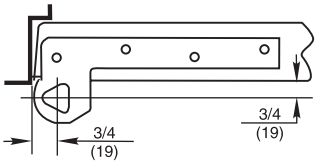
Helical torsion spring

- Operates in same direction as door movement and contributes to even higher closer efficiency
- A torsion spring has a much longer life than standard compression springs

Advantages of security concealed floor closers

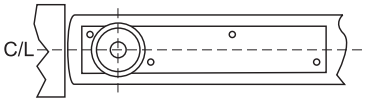
- Vandal resistant – mechanism not exposed
- Supplied with Torx® screws

1. OFFSET VS. CENTER HUNG APPLICATION



3/4" Offset

Pivot point located 3/4" from the heel edge of the door and 3/4" from face of door.



Center Hung

Pivot point centered in thickness of door. Distance from heel edge can vary 2-3/4 and up (Not for use on fire rated doors).

2. SIZE OF DOOR (WIDTH, HEIGHT, THICKNESS)

Estimated door weights pounds per square foot (PSF)

DOOR MATERIAL	DOOR THICKNESS		
	1-3/4"	2-1/4"	3
Hollow Metal	6.5	7	—
Solid Core Wood	7	9	11.5
Aluminum/Glass Storefront	3.5	4	—
MDF	7	9	11.5
DOOR MATERIAL	**3/8"**	**1/2"**	**3/4"**
Tempered Glass	5	7	9.75

Example: **3/0 X 7/0 X 1-3/4" WD**
Door: 21sq ft x 7lb.sq ft = 147lbs

Example: **3/6 X 8/0 X 1/2" Tempered Glass Door**
Door: 28sq ft x 7lb./sq ft = 196lbs

For doors of other sizes consult factory

3. EXPECTED FREQUENCY OF DOOR OPERATION

APPLICATION	DAILY	YEARLY	
Large department store entrance	5,000	1,500,000	
Large office building entrance	4,000	1,200,000	
Theater entrance	1,000	365,000	
School entrance	1,250	225,000	High
School restroom door	1,250	225,000	
Store or bank entrance	500	150,000	
Office building restroom door	400	118,000	
School corridor door	80	15,000	
Office building corridor door	75	22,000	Average
Store restroom door	60	18,000	
Residential entrance door	40	15,000	
Residential restroom door	25	9,000	
Residential hallway door	10	3,600	Low
Residential closet door	6	2,200	

350 SERIES AND 1351 GATE CLOSERS - NO OPTIONS

Degree of Swing – Suffix -180
Single acting, heavy-duty floor closers have a deadstop. This means that the door cannot go past a certain point. The SEC27-180 allows the door to swing to 180°.

Non-Hold Open – SEC closers are non-hold open

Less Cement Case – Suffix LCC
For existing installations or when cement case has been sent earlier in construction. Closer will be packaged without the cement case.

Less Top Pivot – Suffix LTP
For unusual head conditions where the top pivot cannot be used, the closer is shipped without the top pivot.

Extended Spindle – Suffix Extra Length
Any special floor covering or severe door undercuts will affect spindle height. In these applications, an extended spindle may be required. See product template to determine if an extended spindle is needed. Extended spindles available in 1/2" increments up to 2" longer than standard.

CERTIFICATIONS

The 350 gate closers and SEC27-180 closers are in compliance with ANSI/BHMA A156.4 standards.
See individual products for sub-section.

LIMITED WARRANTY

Gate closers are warranted for 2-years against defect; SEC27-180 specialty closers are warranted for 10-years against defect. See Price Book for specific details of the limited warranty.

SPECIFICATIONS

Interior Gate Closer

All interior gates shall use model 350 closers. Closers shall be mounted above the floor and may be single or double acting, depending on hanging means. Closers shall have hydraulic closing speed adjustment. Units shall have built-in hold open.

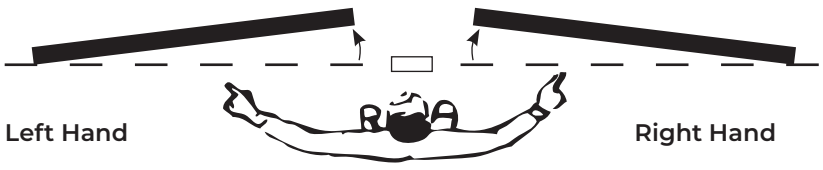
Exterior Gate Closer

All exterior gates shall be model 1351. They shall be surface type with non-corrosive tracks. Track shall be two sided to keep debris from collecting. Must accommodate gates with top cross member or open spokes.

Security Closer

Closer shall be model SEC27-180 concealed floor closer package. Cement case to be cast iron with cast-in integral anchor extensions. 1/4" thick steel cover plate to be recessed into lip on cement case. Closer mechanism to have individual hydraulic cylinders for closing functions and adjustable hydraulic backcheck and be operated by a torsion spring. Closing and latch speed to be controlled by two independent valves. Closer to have built-in dead stop. Bottom arm shall be 1/2" thick steel. Top pivot shall be asylum type with Torx® security fasteners.

How to Determine Hand of Door



Face a door swinging open away from you. If it opens to the right, it is right handed. If it opens to the left, it is left handed.

INTERIOR GATE CLOSERS

SPECIALTY CLOSERS

MODEL 354

Application

- Double acting, non-handed
- Maximum weight: 75 lbs.
- Dwarf doors from 2'2" to 3'0" wide (660 x 914mm)



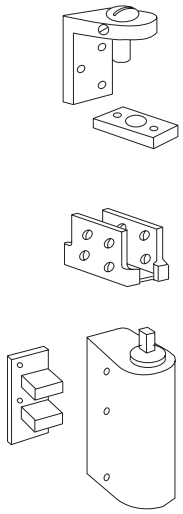
Product Description & Features

- Recommended for office rail gates, partitions, and lavatory stall doors
- Body mounts under gate
- Surface mounted top pivot: 3541020
- 1-3/4" door thickness
- Maximum opening 90°
- Arm adjustment door normally comes to rest at closed position. If door is to remain open, arm is set on spindle so door comes to rest at 90°
- Package also includes closer bracket and flange style arm
- Frame carries full weight of door
- Quiet control; no slamming or flapping
- All moving parts enclosed and fully immersed in lubricating checking fluid
- Painted finishes only
- Not compliant with ICC/ANSI A117.1 low opening force requirements

Compliance

- ANSI C09053

Technical Information



MODEL 355

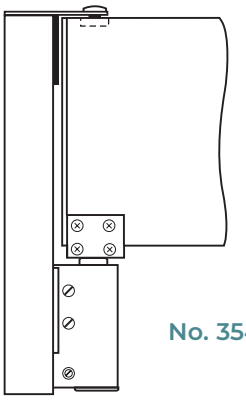
Application

- Double acting, non-handed

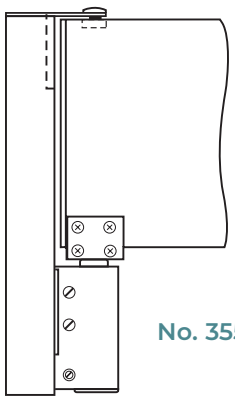
Product Description & Features

Identical to 354 except:

- Mortise top pivot: 3551020



No. 354



No. 355

MODEL 356

Application

- Double acting, non-handed
- Maximum weight: 75 lbs.
- Dwarf doors from 2'2" to 3'0" wide (660 x 914mm)



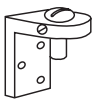
Product Description & Features

- Recommended for office rail gates, partitions, and lavatory stall doors
- Body mounts under the gate
- Surface mounted top pivot: 3541020
- 1-3/4" door thickness
- Maximum opening 90°
- Arm adjustment door normally comes to rest at closed position. If door is to remain open, arm is set on spindle so door comes to rest at 90°
- Package also includes closer bracket and arm that may be surface mounted or mortised
- Frame carries full weight of door
- Quiet control; no slamming or flapping
- All moving parts enclosed and fully immersed in lubricating checking fluid
- Painted finishes only
- Not compliant with ICC/ANSI A117.1 low opening force requirements

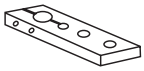
COMPLIANCE

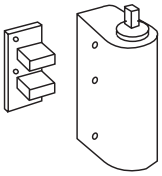
- ANSI C09503

Technical Information









MODEL 357

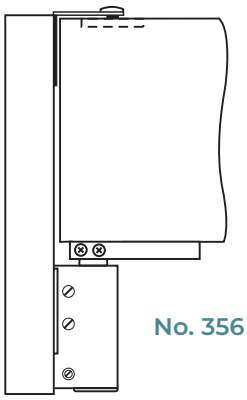
Application

- Double acting, non-handed

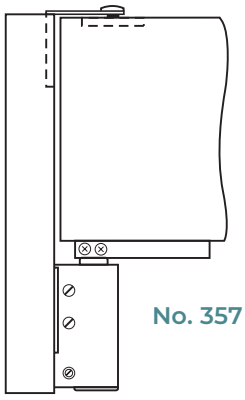
Product Description & Features

Identical to 356 except:

- Mortise top pivot: 3551020



No. 356

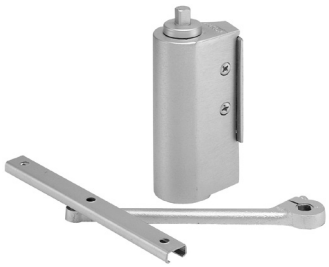


No. 357

MODEL 359

Application

- Single acting, non-handed
- Maximum weight: 75 lbs.
- Dwarf doors from 2'2" to 3'0" wide (660 x 914mm)

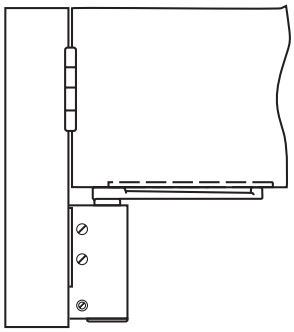


Product Description & Features

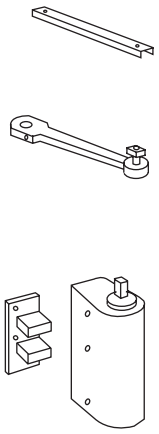
- Recommended for office rail gates, partitions, and lavatory stall doors
- Closer mounts under the door
- 1-3/4" door thickness
- Maximum opening 140°
- Surface mounted to edge of partition with edge wide enough for 1-1/2" bracket
- Butt hinges by others
- Frame carries full weight of door
- Track style arm
- Package includes closer, bracket, and slide track arm
- Painted finishes only
- Not compliant with ICC/ANSI A117.1 low opening force requirements

COMPLIANCE

- ANSI C09503



Technical Information

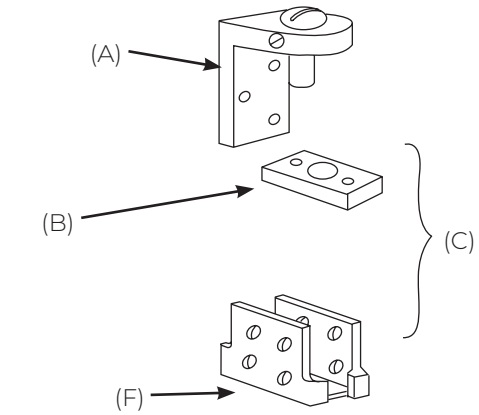


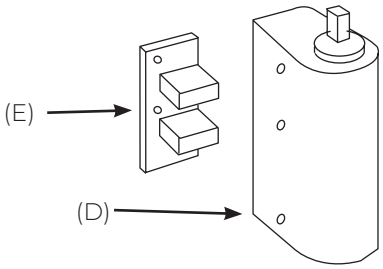
MODEL 354

(A) Jamb portion
01960-*AS

(B) Gate portion
35064-*AS

(E) Bracket
3549000-*
(includes closer mtg. screw kit)





(C) Top pivot package
3541020-*
(includes A, B and attaching screws)

(F) Arm with screws
3542026-*

(D) Closer body
X03540370-*
(includes E)

Screw Kits

Top pivot
107017-*

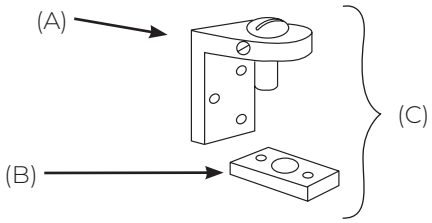
Closer mtg.
107350

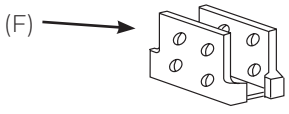
MODEL 355

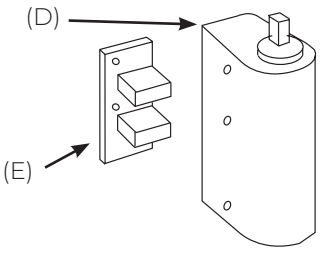
(A) Jamb portion
0490-*AS

(B) Gate portion
35064-*AS

(E) Bracket
3549000-*
(includes closer mtg. screw kit)







(C) Top pivot package
3551020-*
(includes A,B and attaching screws)

(F) Arm with screws
3542026-*

(D) Closer body
X03540370-*
(includes E)

Screw Kits

Top pivot
107017

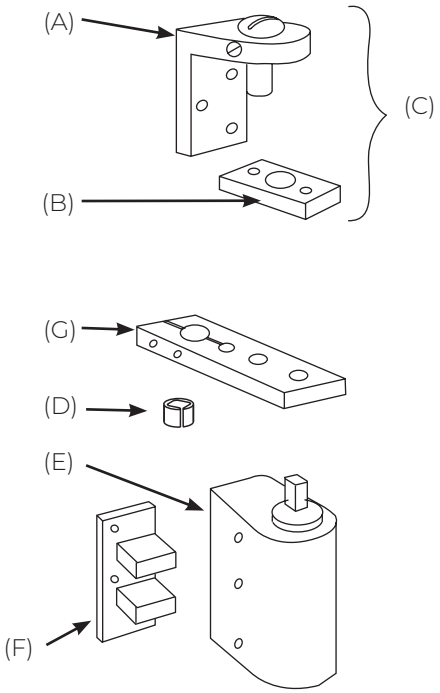
Closer mtg.
107350

**specify finish*

PARTS DRAWINGS
SPECIALTY CLOSERS

MODEL 356

(A) Jamb portion
01960-*AS
(B) Gate portion
35064-*AS
(D) Bushing only
35051
(included in arm
package)
(F) Bracket
3549000-*
(includes closer mtg.
screw kit)



(C) Top pivot package
3541020-*
(includes A, B and
attaching screws)
(G) Arm with screws
3562020-*
(includes D and
attaching screws)
(E) Closer body
X03540370-*
(includes F)

Screw Kits

Top pivot
107017 -*

Arm
107359

Closer mtg.
107350

MODEL 357

(A) Jamb portion
0490-*AS
(B) Gate portion
35064-*AS
(D) Bushing only
35051
(included in arm package)
(F) Bracket
3549000-*
(includes closer mtg
screw kit)

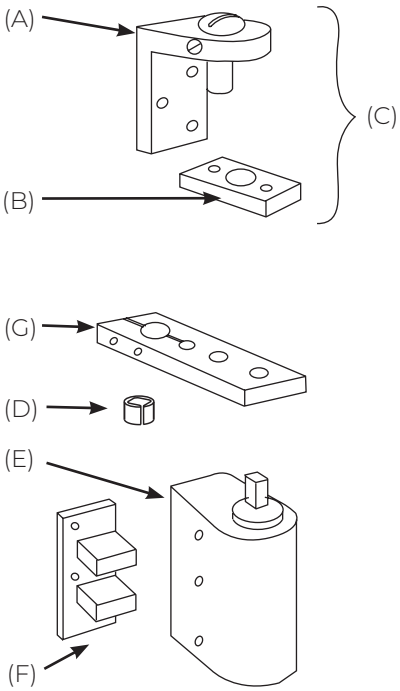
Screw Kits

Top pivot
107017-*

Arm
107359

Closer mtg.
107350

**specify finish*



(C) Top pivot package
3551020-*
(includes A, B and
attaching screws)
(G) Arm with screws
3562020-*
(includes D and
attaching screws)
(E) Closer body
X03540370-*
(includes F)

MODEL 359

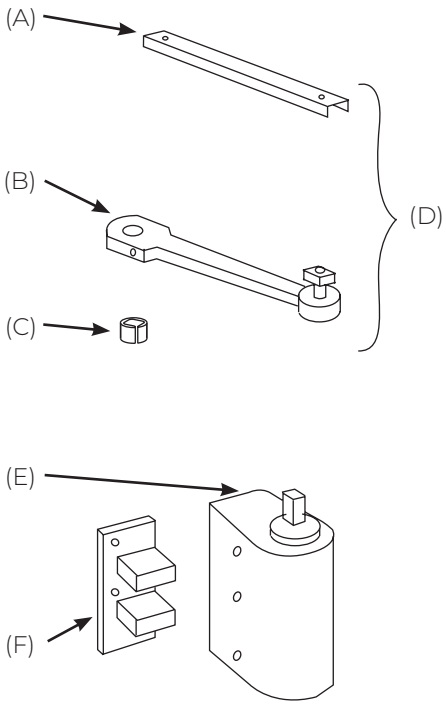
(A) Arm rail
35510-*

(B) Arm with screw & bushing
35535-*

(C) Bushing only
35051
(included in arm package)

(F) Bracket
3549000-*
(includes closer mtg. screw kit)

*specify finish



(D) Arm & rail package
3592010-*
(includes A, B, C and attaching screws)

(E) Closer body
X03540370-*
(includes F)

Screw Kits

Arm
107003

Closer mtg.
107350

MODEL 1351

Application

- Single acting
- Exterior ornamental iron gates
- Weight to 250 lbs.
- Gate maximum 4'6" x 10'0" (1372 x 3048mm)

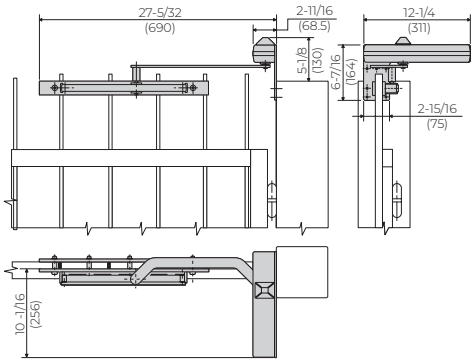


Product Description & Features

Recommended for exterior gates on high-end residences and commercial building campuses.

- Includes closer body, mounting bracket, arm and slide track
- Track has pass thru hole to avoid debris build-up
- Components are rust-resistant
- Surface closer has adjustable latch speed, closing speed and backcheck
- May be mounted on cross-member or spokes
- Hanging means by others
- All weather fluid
- All machine screws
- Black finish only

Technical Information



MODEL SEC27-180

Application

- Single acting, handed
- Interior security doors
- Weight to 650 lbs.
- Door width up to 4'0" (1219mm)





Product Description & Features

Recommended for non cell doors in detention facilities or psychiatric centers

- Non-hold open only
- FA180 top pivot included
- FA19 intermediate pivot recommended; order separately
- Door will swing to 180°, trim permitting
- Built-in hydraulic backcheck at 160°
- Cast iron cement case with cast in extensions for positive anchorage in floor
- Solid 1/4" (6mm) thick steel floor plate
- Cast-in lip to provide positive containment of cement case in floor
- Sealed closer standard
- Heavy-duty forged bottom arm
- Adjustable closing speed
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Every additional 30" (762mm) of door height warrants another intermediate pivot
- Delayed action not available
- Furnished with Torx® screws
- PH option not available

Optional Features

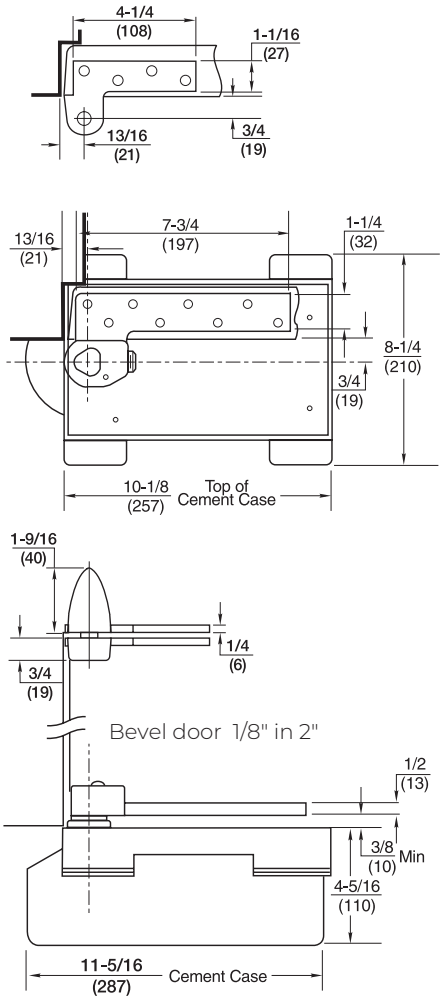
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

- This closer is for fire-rated openings (up to 3 hour assemblies). Only non-hold open closers are used. FA19 intermediate pivot required: order separately.

Technical Information

Frame stop required



MODEL SEC27-180

Right hand shown
3/4" offset only

(A) Pivot pin assembly
181770-Asy

(B) Hex cap
181778 -*

(C) Arm cap & screw
012142R*ATS (RH, BRS)
012142L*ATS (LH, BRS)
012144R*ATS (RH, SS)
012144L*ATS (LH, SS)

(D) Arm x locking screw
18550-Asy (RH)
18650-Asy (LH)

(E) Arm locking screw only
88905-PKG (5)

(F) Arm shims
275065-PKG (5)

(G) Arm bearing washer
275062-PKG (5)

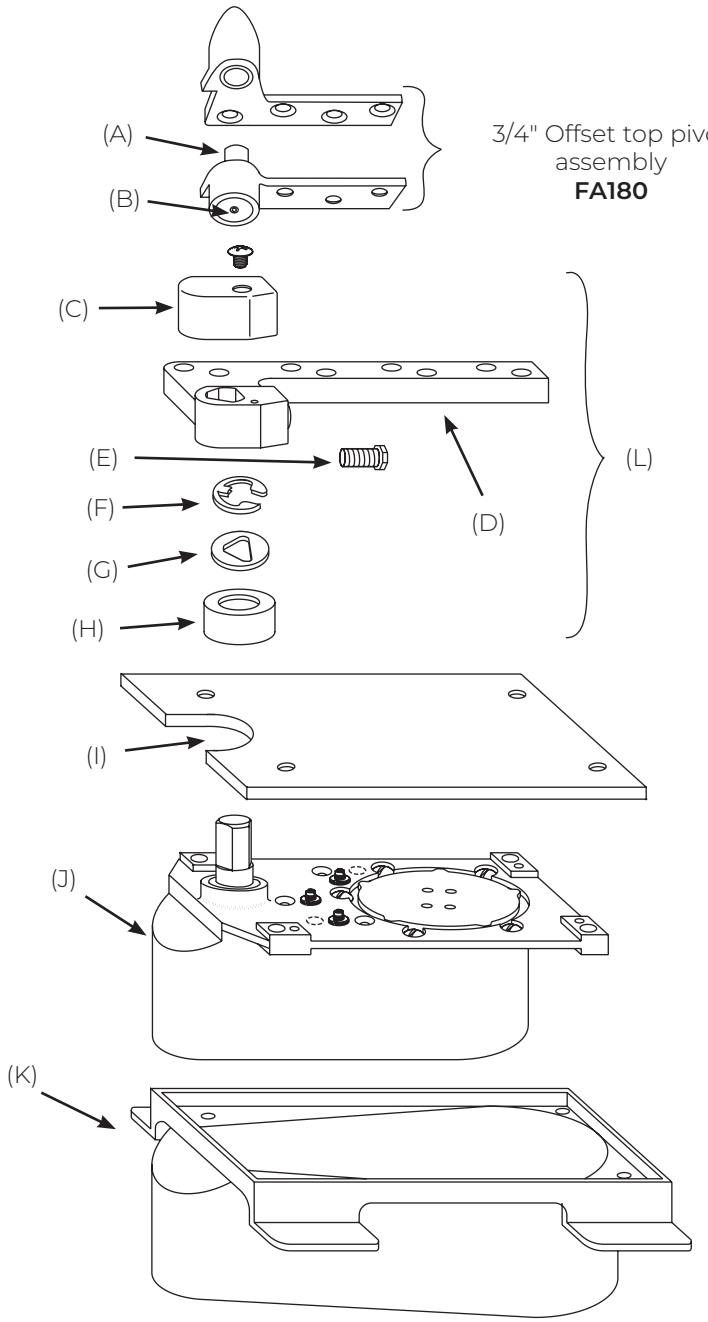
(H) Collar
259000 -*

(I) Floor plate with screws
274056 -*

(J) Closer body (specify complete model no. x LAP)

(K) Cement case with screws
253001SEC

(L) Bottom Arm Package
252056R* (RH)
252056L* (LH)
(Includes C, D, H and attaching screws)



Screw Kits

FA180 Torx®
107014 - *T machine (2 required)
107114 - *T wood (2 required)

Arm
107144 machine (2 required)
107048 wood (2 required)

Floor plate
107021 -*

*specify finish

QUICK REFERENCE OF OPTIONS/HOW TO ORDER

SPECIALTY CLOSERS

QUICK REFERENCE OF OPTIONS

Prefix	Model	Degree of Hold Open	Holding Options	General Options	Fire Rated	Handed	Maximum Door Weight
	354	90	A		No	No	75
	355	90	A		No	No	75
	356	90	A		No	No	75
	357	90	A		No	No	75
	359		N		No	No	75
	1351		N				250
	SEC27-180		N	Extended spindle	Yes	Yes	650

HOW TO ORDER

SEC27-180
Model

354	Interior Gate
355	Interior Gate
356	Interior Gate
357	Interior Gate
359	Interior Gate
1351	Exterior gate
SEC27-180	Security

A
Hold Open (SEC27-180 only)

N	Non-hold open
A	Automatic hold open

LTP
Suffix (SEC27-180 only)

Extended Spindles

LAP	Closer body only
LFP	Less floor plate
LCC	Less cement case
LTP	Less top pivot
SPLO	Special layout #

Hand

Blank	Double Acting or Non Handed
RH	Right Hand
LH	Left Hand

626
Finish

350 Series Only	
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold, painted
1351 Only	
622 (US19)	Flat black coated
SEC27-180 Only	
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613 (US10B)	Antique bronze
613E (US10BE)	Dark oxidized satin bronze - equiv.
619 (US15)	Satin nickel plated, clear coated
622 (US19)	Flat black coated
BSP	Black suede powder coat
WSP	White suede powder coat

**specify finish*

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The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, mechanical and smart locks, access control and service.

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CATALOG

NORTON RIXSON

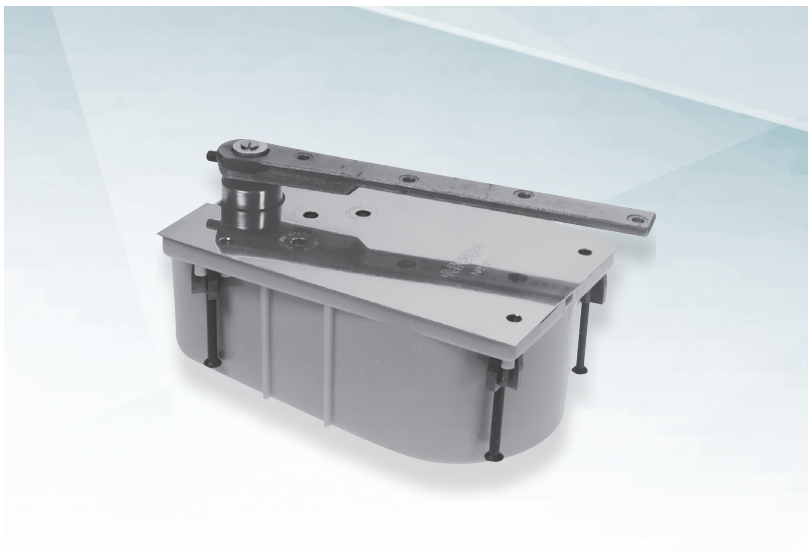
ASSA ABLOY

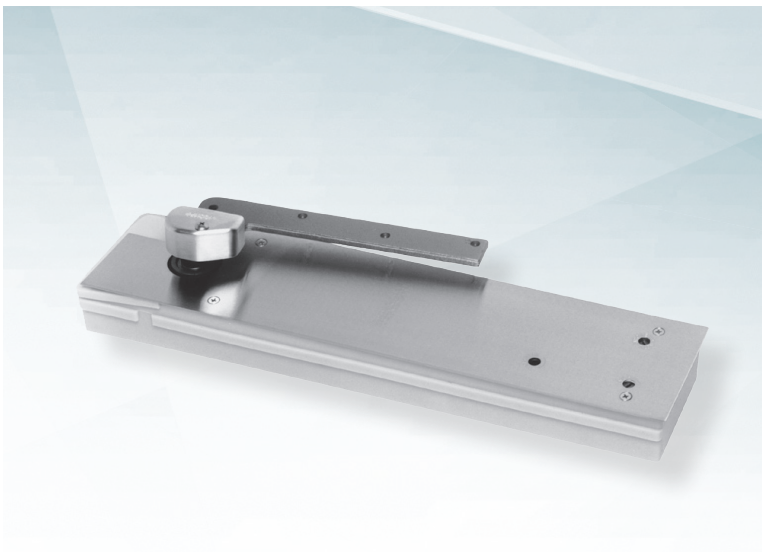
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HEAVY-DUTY & SHALLOW DEPTH FLOOR CLOSERS

COMPLETE DOOR CONTROL FOR EXTERIOR AND INTERIOR DOORS, WHERE CONCEALMENT IS DESIRED







NORTON RIXSON
ASSA ABLOY

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Note: How to Order pages included with product details.

⚠ WARNING

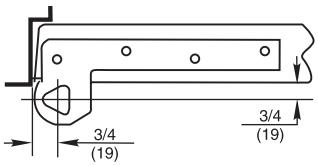
This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

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HOW TO SELECT A PRODUCT

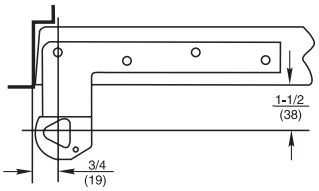
FLOOR CLOSERS

1. Offset Vs. Center Hung Application



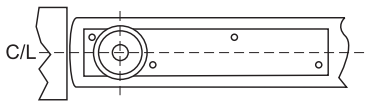
3/4" Offset

Pivot point located 3/4" from the heel edge of the door and 3/4" from face of door



1-1/2" Offset

Pivot point located 3/4" from the heel edge of the door and 1-1/2" from face of door. Used on doors with cladding on face or trim on frame



Center Hung

Pivot point centered in thickness of door. Distance from heel edge can vary 2-3/4" and up. ***Not for use on fire rated doors.***

2. Size of Door (Width, Height, Thickness)

Door Material	Door Thickness		
	1-3/4"	**2-1/4"**	**3"**
Hollow Metal	6.5	7	—
Solid Core Wood	7	9	11.5
Aluminum/Glass Storefront	3.5	4	—
Bullet Resistant	20	21	
MDF	7	9	11.5
	Glass Thickness		
Tempered Glass	3/8"	1/2"	3/4"
	5	7	9.75
	Lead Thickness		
Lead Lining (add to door material weight)	1/16"	1/8"	1/4"
	5	8	9.75
	Cladding Material		
3/4" Cladding (add to door material weight)	Wood	Stone	Bronze
	3	10.5	28

Example: 3' x 7' x 1-3/4" WD x 1/4" Lead lining

Door:	21sq ft x 7lb.sq ft	=	147lbs
Lead Lining:	21sq ft x 9.75lb./sq ft	=	204.75lbs
	Total Door weight		351.75lbs

Example: 3'6" x 8' x 1/2" Tempered Glass Door

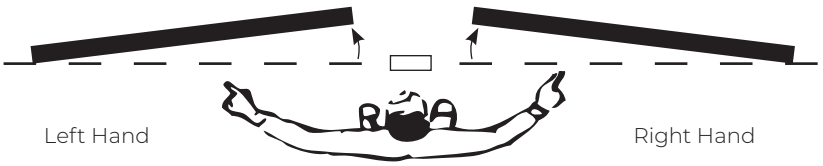
Door: 28sq ft x 7lb./sq ft = 196lbs

For doors of other sizes consult factory

3. Expected Frequency of Door Opening

Application	Daily	Yearly	
Large department store entrance	5,000	1,500,000	
Large office building entrance	4,000	1,200,000	
Theater entrance	1,000	365,000	
School entrance	1,250	225,000	High
School restroom door	1,250	225,000	
Store or bank entrance	500	150,000	
Office building restroom door	400	118,000	
School corridor door	80	15,000	
Office building corridor door	75	22,000	Average
Store restroom door	60	18,000	
Residential entrance door	40	15,000	
Residential restroom door	25	9,000	
Residential hallway door	10	3,600	Low
Residential closet door	6	2,200	

How to Determine Hand of Door

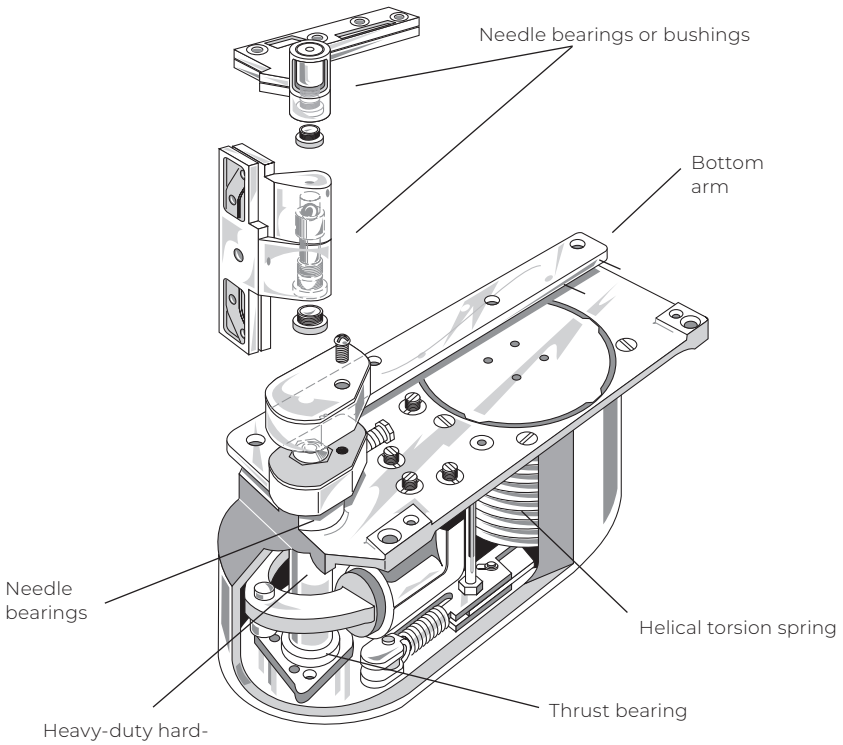


Face a door swinging open away from you. If it opens to the right, it is right handed. If it opens to the left, it is left handed.

Norton Rixson heavy-duty floor closers are ideal for supporting and controlling doors. Floor closers provide long-lasting performance and dependability. Heavy-duty closers are used on exterior or interior, medium to high traffic openings or for applications where the doors are very heavy.

Features and Benefits

- Weight of the door is supported by the bottom arm and floor
  - Door swings with less resistance
  - Reduces stress on the frame
  - Fasteners are in shear, not tension
  - Eliminates door sag
  - Doors can be adjusted vertically
- Bottom arm attaches directly to the closer spindle
  - A mechanical advantage that increases efficiency insuring that ICC/ANSI A117.1 compliant, lower opening forces will still close the door
  - One to one ratio of door swing to spindle rotation makes control more precise
- Closer is concealed in the floor
  - Aesthetics -the beauty of the opening is the focal point, not the closer
  - Vandal resistance -the mechanism is not exposed
  - Solution for arch top doors (offset models)
- Heavy-duty, hardened, one piece steel spindles
  - Designed to provide positive dead stop in normal conditions. For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop/Holder is recommended to protect the opening and all door hardware.
  - Thrust bearings support vertical load
  - Needle bearings for lateral loads
  - L models have applied thrust bearings to handle extra heavy doors or doors with high traffic
- Helical torsion springs
  - Operates in the same direction as door movement – contributes to higher closer efficiency
  - Torsion spring has a longer life than compression springs



27 Closer with 180 Top Pivot and M19 Intermediate Pivot (Recommended)

GLOSSARY OF TERMS

FLOOR CLOSERS

Automatic Hold Open – Specify A
These closers hold the door open. This feature cannot be changed in the field. Models 27-180, 30 & 40 only.

Cold Weather Fluid – Specify CWF
Cold weather fluid should be specified for exterior doors in consistently cold climates under 32° F for weeks at a time. The hydraulic fluid is of a lower viscosity to prevent sluggish closing. Cannot be used with the delayed action feature.

Cover Pan (Terrazzo) – Specify Part Number
Closers should always be accessible. They should never be buried beneath flooring materials. A cover pan sits on top of the closer and has the flooring material set in it. This way the sight line for the floor is consistent. Cover pans may require closers with longer spindles. See cover pan template to determine spindle length needed.

Degree of Swing – Follows Model Number
Single acting heavy-duty floor closers have a deadstop. This means that the door cannot go past a certain point. If ordered as a hold open closer, the hold open position is exactly the same as the deadstop. The degrees available are 85°, 90°, 95° or 105° (180° for model 27 only). It is recommended that the maximum degree of swing be ordered.

Double acting closers have a deadstop at 103° and are available with hold open options at 90° or 100°.

Delayed Action – Specify DA
After full open, permits door to remain ajar (at 70 degrees) for up to 40 seconds. Operates by separate valve and can be shut off if not needed. Not available on closers with hold open feature.

Door Thickness – Specify 1-3/4, 2, 2-1/4, 2-1/2 or 3
When ordering L product for lead lined doors, the thickness of the door must be given. The purpose of the L product is to have screws spaced so that they straddle the lead in the center of the door. Also used when lead lining is under the skins of the door. Recommended for use on extra heavy or high traffic doors.

Extended Spindle – Specify Extra Length
Any special floor coverings, or severe door undercuts, will affect the spindle height. In these applications an extended spindle may be required. See product template to determine if an extended spindle is needed. Extended spindles available in 1/2" increments up to 2" longer than standard. Extended spindles cannot be added in the field.

Fire Rated – Specify F
Closer packages for fire rated doors (up to 3 hours) include a steel top pivot and must have additional steel intermediate pivots. These closers are non-hold open.

Hand- Specify RH or LH
All single acting floor closers are handed. All double acting floor closers (30, 40, H40) are non-handed.

Less All Parts – Specify LAP
If a closer is needed for replacement, the arm, cover, cement case, top pivot and floor plate are omitted.

Less Cement Case – Specify LCC
For existing installations or when cement case has been sent earlier in construction. Closer will be packaged without the cement case.

Less Floor Plate – Specify LFP
When thresholds or cover pans are being used, the closer doesn't need the decorative floor plate.

Less Top Pivot – Specify LTP
For unusual head conditions, where the top pivot cannot be used, the closer is shipped without the top pivot. For offset installations, an additional load bearing intermediate (side jamb) M190 pivot is required. All intermediate pivots for that opening should be M190's, not M19's.

Low Opening Force – Specify PH
To comply with ICC/ANSI A117.1 established by the Americans with Disabilities Act. PH indicates 5 pounds of opening force, based at 30" from centerline of pivot. PH closers may not be used on labeled fire doors or exterior doors. Norton Rixson accepts no responsibility for PH closers and door latching. Also, be advised that ADA guidelines DO NOT apply to fire rated openings or exterior doors.

8-1/2 Lbs. Opening Force – Specify PH 8-1/2 lbs.
This is a lighter than normal opening force. Be aware that this may not be strong enough to close fire rated or exterior doors. Norton Rixson accepts no responsibility for PH closers and door latching. Also, be advised that ADA guidelines DO NOT apply to fire rated openings or exterior doors.

Non Hold Open – Specify N
These closers do not hold the door open. This feature cannot be changed in the field.

GLOSSARY OF TERMS

FLOOR CLOSERS

1-1/2" Offset – Specify 1-1/2" OS
Offset is the distance from the face of the door to the pivot point. Extended offsets should not be used unless there is cladding on the face of the door or there is trim to clear on the frame. 1-1/2" offset arms and pivots are for doors with cladding or trim that project 3/4" from the face of the door.

Sealed Closer – Specify SC
This option for exterior doors or interior doors, with heavy exposure to water or cleaning solvents, protects the body. The closer body is placed in the cement case. A stainless steel cover plate is then gasketed and fastened to the cement case. This must be ordered with closer and cannot be ordered less the cement case.

Selective Hold Open – Specify S
These closers can be set to hold open or non-hold open. This is done via a screw control on the top of the closer. Available on Models 27 and 28 only.

Special Layouts – Specify SPLO
Unique installations or specially engineered products are called special layouts. These numbers must be assigned by the technical support department and they must be called out specifically, by their number, when ordered.

Twenty Minute Label – Specify -20 min
This UL rating is for 20 minute doors. Pivots are brass base material and include a visible label.

Wood Door – Specify W
When using a center hung product with the centering arm (e.g. 28, 30 or 40) a special plate and less obtrusive adjusting screws are needed for wood doors. This plate is reinforcement to the deep mortise required for that arm, protecting veneer.

CERTIFICATIONS
See individual sections for compliance with ANSI A156.4 standards.

LIMITED WARRANTY
Norton Rixson heavy-duty floor closers models 27, 28, 30 and 40 are warranted for 10 years against defect. The model 20 closer carries a 2 year warranty. See Price Book for specific details of the limited warranty.

SPECIFICATION
Floor closers shall be heavy-duty model 27 (offset) or model 28 (center hung). All closers shall be handed. Choose appropriate functions and strengths to accommodate lead lining, extra high traffic, fire rating, independently hung or quick install models. These closers shall have separate and independent checking valves, to control latch speed, closing speed and adjustable hydraulic backcheck. All single acting closers shall have a built in dead stop feature. All closers shall have one piece spindle assembly. Extra heavy-duty closers shall have minimum of two thrust bearings and one needle bearing. Closers shall not have compression spring.

3/4" OFFSET HUNG
FLOOR CLOSERS

MODEL 27

Application
- Single Acting, Handed
- Exterior or Interior Doors
- Weight to 450 lbs.*
- Door Width up to 4'0" (1219mm)

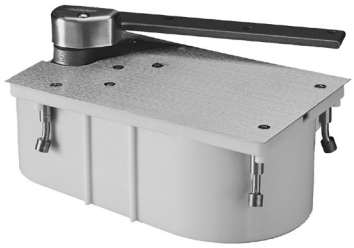
Product Description & Features
- 180 top pivot included. M19 intermediate pivot(s) required (ordered separately)
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95°, 105°)
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware.
- Separate and independent valves for closing speed, latch speed and backcheck
- Vertical door adjustment
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac, rustproof cement case
- For arch top doors or when a 180 top pivot can't be used, install at least two M190 load-bearing intermediate pivots mounted together at the top of the straight vertical edge
- Furnished with wood and machine screws

Optional Features
- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Sealed closer: specify "SC"
- 1-1/2" offset: for doors with 3/4" cladding or frames with applied molding. Max door weight 250 lbs.
- Extended spindles available in 1/2" increments up to 2" longer than standard
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot

Compliance
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify "PH". (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs))
- For fire rated openings (up to 3 hour assemblies) specify "F". This package will be supplied with a F180 steel top pivot and a non-hold open closer. FM19 intermediate pivot required (order separately)
- UL listed closers cannot have PH option
- For 20-minute labeled doors specify -20 min. (non-hold open closer only)
- ANSI/C06041/C06051
- ANSI/BHMA A156.4, Grade 1

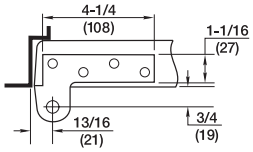
**Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

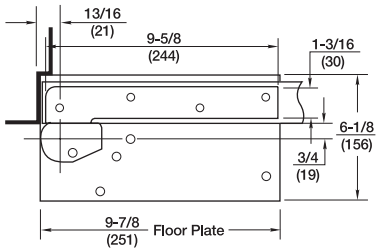


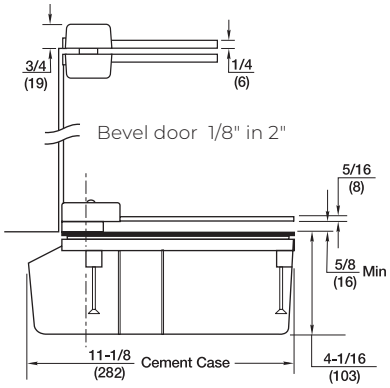


TECHNICAL INFORMATION

(Frame stop required)







Experience a safer
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3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

2785N | **SC, 1-1/2" OS** | **RH** | **626**

(1) Model/Degrees/Function

2785N	85 Degrees, Non-Hold Open
2790N	90 Degrees, Non-Hold Open
2795N	95 Degrees, Non-Hold Open
27105N	105 Degrees, Non-Hold Open
2785S	85 Degrees, Selective Hold Open
2790S	90 Degrees, Selective Hold Open
2795S	95 Degrees, Selective Hold Open
27105S	105 Degrees, Selective Hold Open

Sample Order String (as shown above)

27: 27 Floor Closer
85: 85 Degree Door Swing
N: Non-Hold Open
SC: Sealed Closer & Cement Case
1-1/2" OS: 1-1/2" Offset
RH: Right Hand
626: 626 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
1-1/2" OS	1-1/2" Offset
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
F	Fire Rated
-20 min	20 Minute Label
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

3/4" OFFSET HUNG
FLOOR CLOSERS

MODEL 27-180

Application
- Single Acting, Handed
- Exterior or Interior Doors
- Weight to 450 lbs.*
- Door Width up to 4'0" (1219mm)

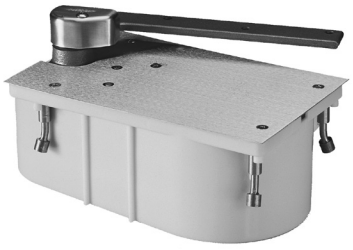
Product Description & Features
- 180 top pivot included. M19 intermediate pivot(s) required (ordered separately)
- Available non-hold open (N) or automatic hold open (A)
- Maximum opening 180°, auxiliary floor or wall stop recommended
- Separate and independent valves for closing speed and latch speed
- Adjustable hydraulic backcheck
- Vertical door adjustment
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac, rustproof cement case
- For arch top doors or when a 180 top pivot can't be used, install at least two M190 load-bearing intermediate pivots mounted together at the top of the straight vertical edge
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Not available with delayed action (DA)
- Furnished with wood and machine screws

Optional Features
- Cold weather fluid: specify "CWF"
- Sealed closer: specify "SC"
- 1-1/2" offset: for doors with 3/4" cladding or frames with applied molding. Max door weight 250 lbs.
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify "PH". (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- For fire rated openings (up to 3 hour assemblies) specify "F". This package will be supplied with a F180 steel top pivot and a non-hold open closer. FM19 intermediate pivot required (order separately)
- UL labeled closers cannot have PH option
- For 20-minute labeled doors specify -20 min. (non-hold open closer only)

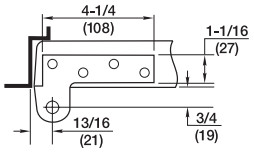
**Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

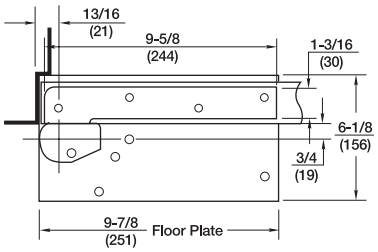


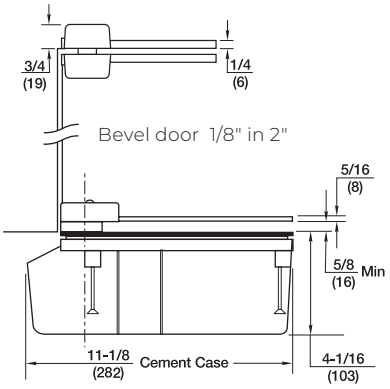


TECHNICAL INFORMATION

(Frame stop required)







Experience a safer
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3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

27180A | **1/2" ext. spdl.** | **RH** | **626**

(1) Model/Degrees/Function

27180N	180 Degrees, Non-Hold Open
27180A	180 Degrees, Automatic Hold Open

(2) Options (if required)

CWF	Cold Weather Fluid
SC	Sealed Closer
1-1/2" OS	1-1/2" Offset
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
F	Fire Rated
-20 min	20 Minute Label
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

Sample Order String (as shown above)

27: 27 Floor Closer
180: 180 Degree Door Swing
A: Automatic Hold Open
1/2" ext spdl: 1/2" Extended Spindle
RH: Right Hand
626: 626 Finish

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

MODEL 127

Application

- Single Acting, Handed
- Exterior or Interior Doors
- Deep Reveal Applications
- Weight to 250 lbs.*
- Door Width up to 4'0" (1219mm)

Product Description & Features

- Recommended for applications where vertical movement of the door at installation is not possible, such as a door inset in a deep reveal or with no ceiling clearance
- Closer has a tapered spindle and uses a unique bottom arm to allow door installation
- 180 top pivot included. 119 intermediate pivot(s) required for non-fire rated opening (ordered separately)
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac, rustproof cement case
- For arch top doors or when a 180 top pivot can't be used, install at least two M190 load-bearing intermediate pivots mounted together at the top of the straight vertical edge
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot

Optional Features

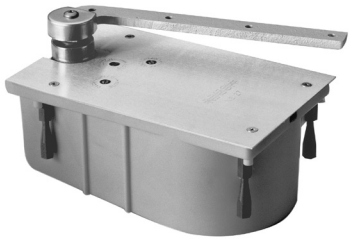
- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Sealed closer: specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify "PH". (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- For fire rated openings (up to 3 hour assemblies) specify "F". This package will be supplied with a F180 steel top pivot and a non-hold open closer. FM19 intermediate pivot required (order separately)
- UL labeled closers cannot have PH option
- For 20-minute labeled doors specify -20 min. (non-hold open closer only)
- ANSI/C06041
- ANSI/BHMA A156.4, Grade 1

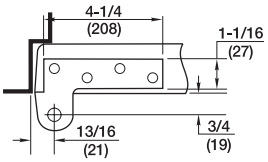
**Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

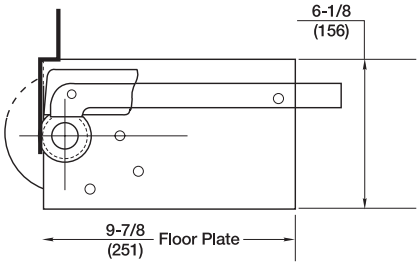


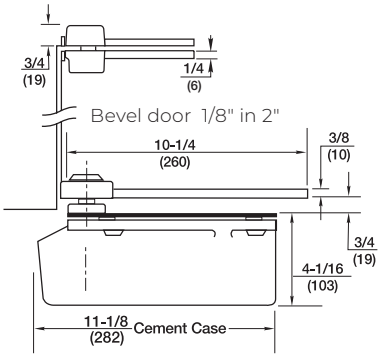


TECHNICAL INFORMATION

(Frame stop required)







3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

127105S **PH** **RH** **605**

(1) Model/Degrees/Function

12785N	85 Degrees, Non-Hold Open
12790N	90 Degrees, Non-Hold Open
12795N	95 Degrees, Non-Hold Open
127105N	105 Degrees, Non-Hold Open
12785S	85 Degrees, Selective Hold Open
12790S	90 Degrees, Selective Hold Open
12795S	95 Degrees, Selective Hold Open
127105S	105 Degrees, Selective Hold Open

Sample Order String (as shown above)

127: 127 Floor Closer
105: 105 Degree Door Swing
S: Selective Hold Open
PH: Meets Low Opening Force (ANSI A117.1)
RH: Right Hand
605: 605 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
F	Fire Rated
-20 min	20 Minute Label
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

3/4" OFFSET HUNG
FLOOR CLOSERS

MODEL 427

Application
- Single Acting, Handed
- Exterior or Interior Doors
- Deep Reveal/Alcove Applications
- Weight to 250 lbs.*
- Door Width up to 4'0" (1219mm)

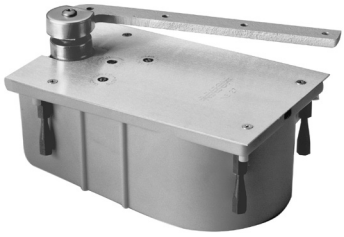
Product Description & Features
- Recommended for applications where vertical movement of the door at installation is not possible, such as a door inset in an alcove with no ceiling or side jamb clearance
- Closer has a tapered spindle and uses a unique bottom arm
- 180x102 top pivot included. 119 intermediate pivot(s) required (ordered separately)
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°) Note: Alcove doors can rarely go beyond 90°
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac rustproof cement case
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Not available for fire rated openings
- Furnished with wood and machine screws

Optional Features
- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Sealed closer: specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify “PH”. (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- ANSI/C06041
- ANSI/BHMA A156.4, Grade 1

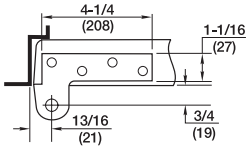
**Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

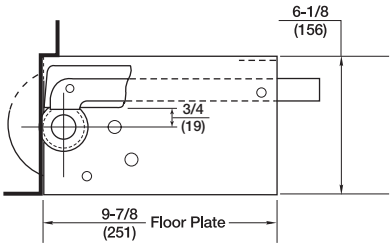


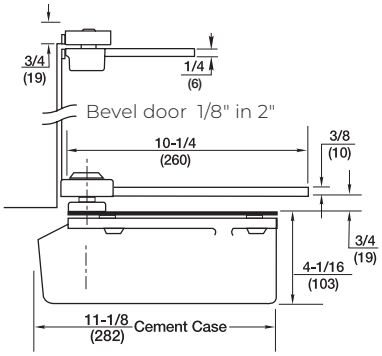


TECHNICAL INFORMATION

(Frame stop required)







Experience a safer
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3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

42790S | **N/A** | **LH** | **626**

(1) Model/Degrees/Function

42785N	85 Degrees, Non-Hold Open
42790N	90 Degrees, Non-Hold Open
42795N	95 Degrees, Non-Hold Open
427105N	105 Degrees, Non-Hold Open
42785S	85 Degrees, Selective Hold Open
42790S	90 Degrees, Selective Hold Open
42795S	95 Degrees, Selective Hold Open
427105S	105 Degrees, Selective Hold Open

(3) Hand

RH	Right Hand
LH	Left Hand

Sample Order String (as shown above)

427: 427 Floor Closer
90: 90 Degree Opening
S: Selective Hold Open
LH: Left Hand
626: 626 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(4) Finish

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613 (US10B)	Antique bronze
613E (US10BE)	Dark oxidized satin bronze - equiv.
618 (US14)	Bright nickel plated, clear coated
619 (US15)	Satin nickel plated, clear coated
622 (US19)	Flat black coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
BSP	Black suede powder coat
WSP	White suede powder coat

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

3/4" OFFSET HUNG
FLOOR CLOSERS

MODEL L27

Application
- Single Acting, Handed
- Exterior or Interior Doors
- Lead-Lined, Heavy, High Traffic Doors
- Weight to 1500 lbs.*
- Door Width up to 4'0" (1219mm)

Product Description & Features
- L180 top pivot included. ML19 intermediate pivot(s) required (ordered separately)
- Heavy-duty bottom arm and top pivot with screw holes spaced to straddle lead lining, or for extra heavy or very high traffic doors.
- Available for the following lead-lined door thicknesses: 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (63mm) or 3" (76mm). 1-3/4" considered standard if door thickness is not specified.
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- Additional thrust bearing for greater load capacity
- Separate and independent valves for closing speed, latch speed and backcheck
- Vertical door adjustment
- Available with floor plate or threshold installation (floor plate shown)
- Cast iron cement case
- For arch top doors or when an L180 top pivot can't be used, install at least two ML19 load-bearing intermediate pivots mounted together at the top of the vertical edge
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

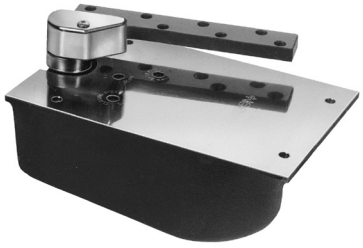
Optional Features
- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Sealed closer: specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify "PH". (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- For fire rated openings (up to 3 hour assemblies) specify "F". This package will be supplied with a FL180 steel top pivot and non-hold open closer. FML19 intermediate required (order separately). Note: UL listing for 1-3/4" thick doors only.
- UL labeled closers cannot have PH option
- For 20-minute labeled doors specify -20 min. (non-hold open closer only)
- ANSI/C06071
- ANSI/BHMA A156.4, Grade 1

**Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

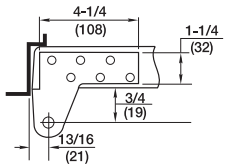
Note: When "PH" is specified for L27 closers, door weight and alignment of pivots may affect opening force.

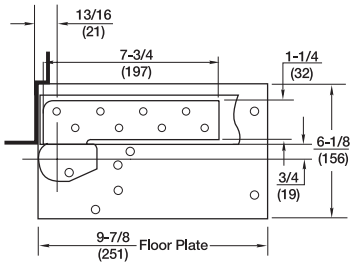


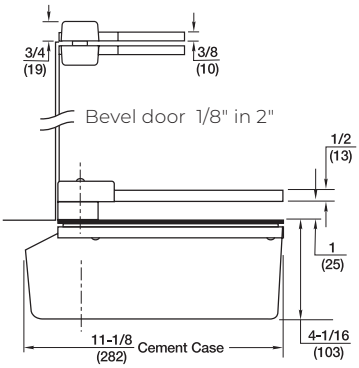


TECHNICAL INFORMATION

(Frame stop required)







* 1-3/4" door thickness shown

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3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

L27105S | **N/A** | **2" Dr** | **LH** | **625**

(1) Model/Degrees/Function

L2785N	85 Degrees, Non-Hold Open
L2790N	90 Degrees, Non-Hold Open
L2795N	95 Degrees, Non-Hold Open
L27105N	105 Degrees, Non-Hold Open
L2785S	85 Degrees, Selective Hold Open
L2790S	90 Degrees, Selective Hold Open
L2795S	95 Degrees, Selective Hold Open
L27105S	105 Degrees, Selective Hold Open

(3) Door Thickness

1-3/4"
2"
2-1/4"
2-1/2"
3"

(4) Hand

RH	Right Hand
LH	Left Hand

Sample Order String (as shown above)

L27: L27 Floor Closer
105: 105 Degree Door Swing
S: Selective Hold Open
2" Dr: 2" Thick Door
LH: Left Hand
625: 625 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
F	Fire Rated
-20 min	20 Minute Label
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(5) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

MODEL L27-180

Application

- Single Acting, Handed
- Exterior or Interior Doors
- Lead-Lined, Heavy, High Traffic Doors
- Weight to 1500 lbs.*
- Door Width up to 4'0" (1219mm)

Product Description & Features

- L180 top pivot included. ML19 intermediate pivot(s) required (ordered separately)
- Heavy-duty bottom arm and top pivot with screw holes spaced to straddle lead lining, or for extra heavy or very high traffic doors.
- Available for the following lead-lined door thicknesses: 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (63mm) or 3" (76mm). 1-3/4" considered standard if door thickness is not specified.
- Available non-hold open (N) or automatic hold open (A) at 180°
- Built-in positive dead stop prevents door from swinging beyond 180° only, auxiliary floor or wall stop recommended
- Additional thrust bearing for greater load capacity
- Separate and independent valves for closing speed, latch speed and backcheck
- Vertical door adjustment
- Available with floor plate or threshold installation (floor plate shown)
- Cast iron cement case
- For arch top doors or when an L180 top pivot can't be used, install at least two ML19 load-bearing intermediate pivots mounted together at the top of the vertical edge
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws
- Not available with delayed action (DA)

Optional Features

- Cold weather fluid: specify "CWF"
- Sealed closer: specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

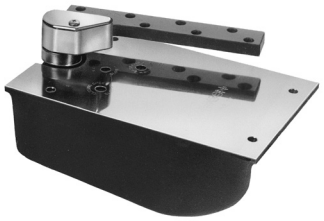
Compliance

- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify "PH". (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- For fire rated openings (up to 3 hour assemblies) specify "F". This package will be supplied with a FL180 steel top pivot and non-hold open closer. Furnish FML19 intermediate pivot (order separately). Note: UL listing for 1-3/4" thick doors only.
- UL labeled closers cannot have PH option
- For 20-minute labeled doors specify -20 min. (non-hold open closer only)

**Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

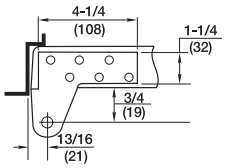
Note: When "PH" is specified for L27 closers, door weight and alignment of pivots may affect opening force.

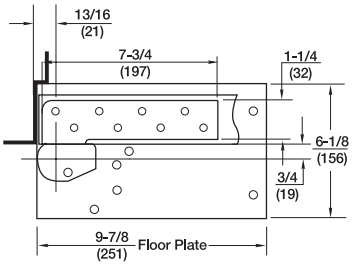


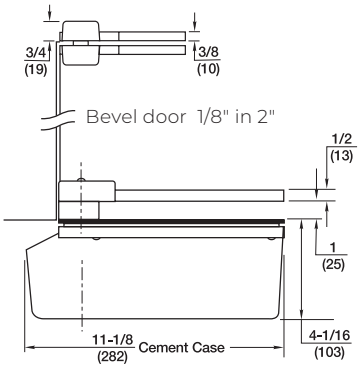


TECHNICAL INFORMATION

(Frame stop required)







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3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

L27180N | **F** | **1-3/4" Dr** | **LH** | **652**

(1) Model/Degrees/Function

L27180N	180 Degrees, Non-Hold Open
L27180A	180 Degrees, Automatic Hold Open

(2) Options (if required)

CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
F	Fire Rated
-20 min	20 Minute Label
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Door Thickness

1-3/4"
2"
2-1/4"
2-1/2"
3"

(4) Hand

RH	Right Hand
LH	Left Hand

(5) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

Sample Order String (as shown above)

L27: L27 Floor Closer
180: 180 Degree Door Swing
N: Non-Hold Open
F: Fire Rated
1-3/4" Dr: 1-3/4" Thick Door
LH: Left Hand
652: 652 Finish

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

MODEL Q27/QT27

Application

- Single Acting, Handed
- Exterior and Interior Doors
- Weight to 350 lbs.*
- Door Width up to 4'0" (1219mm)
- 1-3/4" Thick Only

Product Description & Features

- 180 top pivot included. One M19 intermediate pivot included. Cannot be ordered without intermediate pivot
- 3/4" offset only
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95°)
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- Maximum door swing 95°
- Separate and independent valves for closing speed, latch speed and backcheck
- Vertical door adjustment
- Surface-attached bottom arm allows closer removal without demounting door
- Q closers have a floor plate (shown).
- For threshold application prefix “QT”
- Mortise arm with thru-bolt attachment
- Cycolac rustproof cement case
- Increased depth of cement case for easy closer removal
- For arch top doors, consult factory
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot (included). Each additional 30" (762mm) or doors over 195 lbs. warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify “PH”. (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- For fire rated openings (up to 3 hour assemblies) specify F. This package will be supplied with a F180 steel top pivot, one FM19 intermediate pivot and a non-hold open closer
- UL labeled closers cannot have PH option
- For 20-minute labeled doors specify -20 min. (non-hold open closer only)
- ANSI/C06041/C06051
- ANSI/BHMA A156.4, Grade 1

**Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

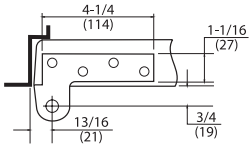


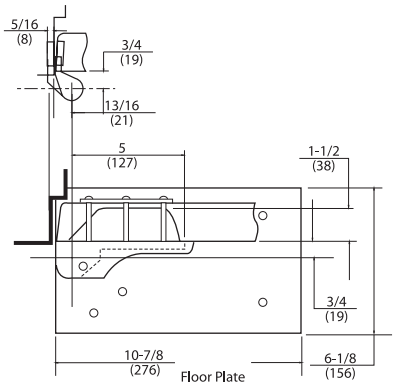


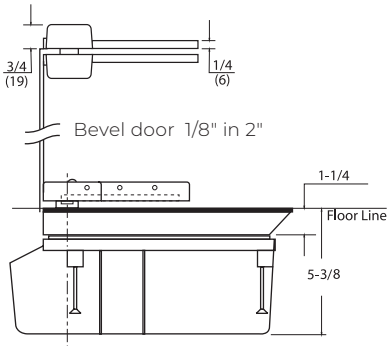


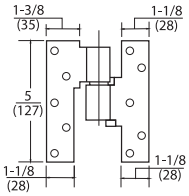
TECHNICAL INFORMATION

(Frame stop required)









3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

QT2790N | **-20 min** | **LH** | **606**

(1) Model/Degrees/Function

QT2785N	85 Degrees, Non-Hold Open
QT2790N	90 Degrees, Non-Hold Open
QT2795N	95 Degrees, Non-Hold Open
QT2785S	85 Degrees, Selective Hold Open
QT2790S	90 Degrees, Selective Hold Open
QT2795S	95 Degrees, Selective Hold Open

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
F	Fire Rated
-20 min	20 Minute Label
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

Sample Order String (as shown above)

QT27: QT27 Floor Closer
90: 90 Degree Door Swing
N: Non-Hold Open
-20 min: 20 minute labeled door
LH: Left Hand
606: 606 Finish

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

3/4" OFFSET HUNG
FLOOR CLOSERS

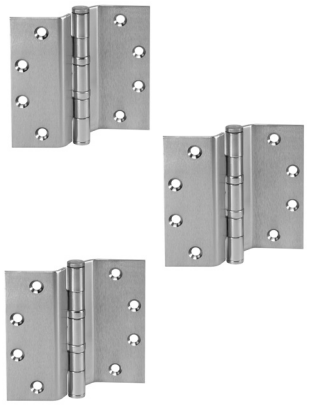
MODEL HM27

Application
- Single Acting, Handed
- Exterior or Interior Doors
- 1-3/4" Hollow Metal Doors/Frames
- Weight to 250 lbs.
- Door Width up to 4'0" (1219mm)

Product Description & Features
- Designed for stock hollow metal doors and frames with standard weight 4-1/2" hinge preparation
- Includes three special steel 4-1/2" ball bearing standard weight hinges with 3/4" offset. Doors over 90" in height warrant an additional hinge
- Surface mounted bottom arm with thru-bolts
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (85°, 90°, 95°)
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- Maximum door swing 95°
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac rustproof cement case
- Furnished with 1/2 wood and full machine screws

Optional Features
- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Sealed closer: specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

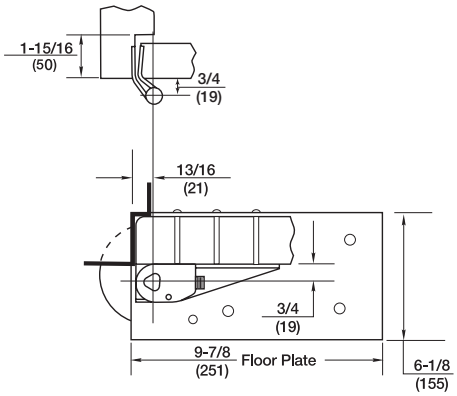
Compliance
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify “PH”. (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- For fire rated opening (up to 3 hour assemblies) specify “F”. This package will be supplied with 3 steel hinges and a non-hold open closer
- UL labeled closers cannot have PH option
- ANSI/C06041/C06051
- ANSI/BHMA A156.4, Grade 1

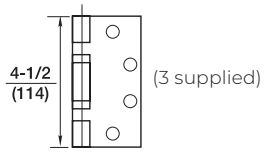


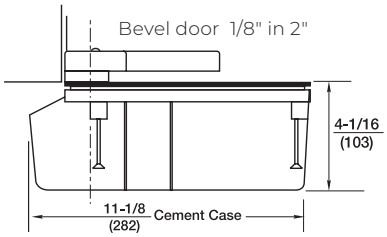


TECHNICAL INFORMATION

(Frame stop required)







Experience a safer
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3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

HM2790S **DA** **RH** **613**

(1) Model/Degrees/Function

HM2785N	85 Degrees, Non-Hold Open
HM2790N	90 Degrees, Non-Hold Open
HM2795N	95 Degrees, Non-Hold Open
HM2785S	85 Degrees, Selective Hold Open
HM2790S	90 Degrees, Selective Hold Open
HM2795S	95 Degrees, Selective Hold Open

Sample Order String (as shown above)

HM27: HM27 Floor Closer
90: 90 Degree Door Swing
S: Selective Hold Open
DA: Delayed Action
RH: Right Hand
613: 613 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
F	Fire Rated
LAP	Less All Parts
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

MODEL 20

Application

- Single Acting, Handed
- Interior Doors
- Weight to 200 lbs.*
- Door Width up to 3'0"

Product Description & Features

- 180 top pivot included. M19 intermediate pivot(s) required (ordered separately)
- Allows 180° door swing (trim permitting)
- Auxiliary floor or wall stop recommended
- Available non-hold open only
- Single valve adjustable closing speed 70° to 0°
- Built-in hydraulic backcheck cushions opening from 140° to 180°
- Vertical door adjustment
- Available with floor plate or threshold installation (floor plate shown)
- Cast iron cement case
- Delayed action not available
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws

Optional Features

- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

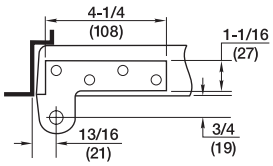
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify "PH". (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- For fire rated openings (up to 3 hour assemblies) specify F. This package will be supplied with a F180 steel top pivot and non hold open closer. FM19 intermediate pivot required (order separately)
- UL labeled closers cannot have PH option
- For 20-minute labeled doors specify -20 min.

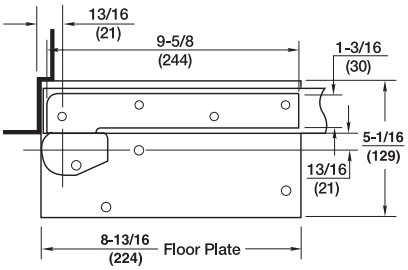
**Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

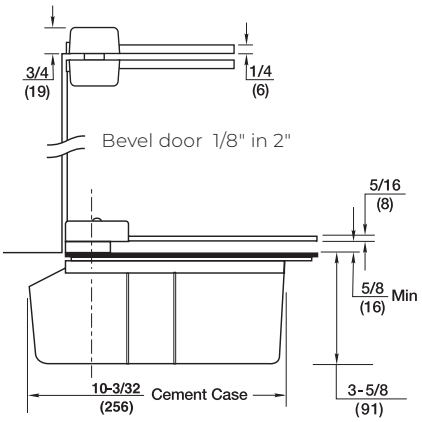


TECHNICAL INFORMATION

(Frame stop required)







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3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

20N **LCC** **RH** **606**

(1) Model/Degrees/Function

20N	Non-hold open

(2) Options (if required)

Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
F	Fire Rated
-20 min	20 Minute Label
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

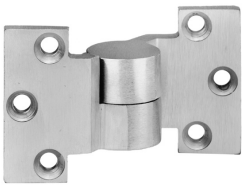
ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

Sample Order String (as shown above)

20: 20 Floor Closer
N: Non-Hold Open
LCC: Less Cement Case
RH: Right Hand
606: 606 Finish

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

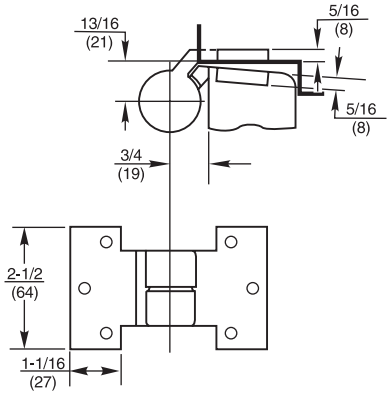
MODEL 119



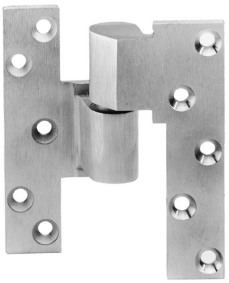
Application
- Full Mortise
- Handed

Product Description & Features
- Not load-bearing
- Maintains door alignment
- Available 3/4" offset only
- Non-ferrous base material
- Recommended for use with Model 127 and 427 Floor Closers
- Bevel door 1/8" in 2"
- Furnished with wood and machine screws

TECHNICAL INFORMATION



Model M19, M190



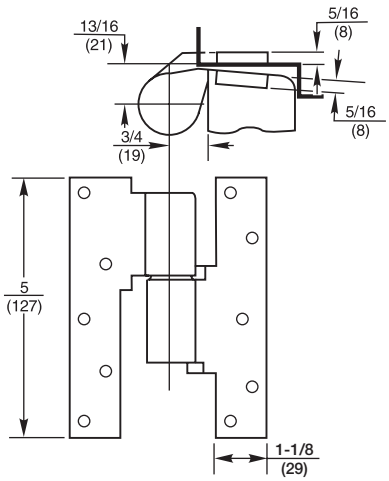
Application
- Full Mortise
- Handed

Product Description & Features
- M19, bushing, not load-bearing
- M190, bearing, load-bearing
- Maintains door alignment
- Aids in installing floor closers and bottom pivots
- Non-ferrous base material 3/4" offset standard
- Bevel door 1/8" in 2"
- For arch top doors or applications where a 180 top pivot cannot be used, supply at least two each M190 load bearing intermediate pivots, mounted together at the top of the vertical edge with a bottom pivot or floor closer
- Furnished with wood and machine screws

Optional Features
- Available 1-1/2 (38mm) offset for 3/4" cladding

Compliance
- Available for fire door assemblies (ferrous material) specify FM19 or FM190
- On labeled for fire doors NFPA 80 requires an intermediate pivot for every additional 30" (762mm) of door height over 60" (1542mm)
- For 20-minute label specify -20 min.

TECHNICAL INFORMATION

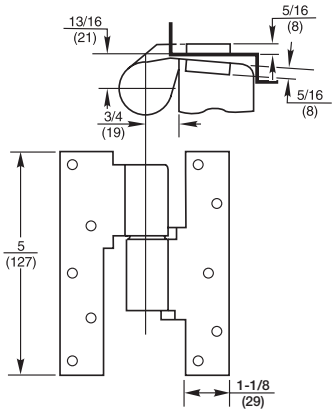


INTERMEDIATE PIVOTS
FLOOR CLOSERS

MODEL ML19



TECHNICAL INFORMATION



Application
- Heavy-Duty Full Mortise
- Handed

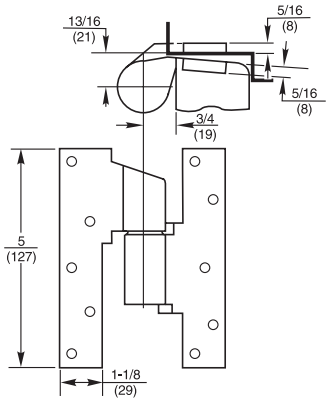
Product Description & Features
- Load-bearing
- Maintains door alignment
- Available to accommodate door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify thickness when ordering
- Screw holes spaced to straddle lead lining in center of door. Use on extra heavy or high traffic doors.
- Aids in installing floor closers and bottom pivot
- Non-ferrous base material
- 3/4" offset, for extended offsets consult factory
- Bevel door 1/8" in 2"
- For arch top doors or applications where a 180 top pivot cannot be used, supply at least two each ML19 load bearing intermediate pivots, mounted together at the top of the vertical edge with a bottom pivot or floor closer
- Furnished with wood and machine screws

Compliance
- Available for fire door assemblies – 1-3/4" (44mm) door only – specify FML19
- On labeled fire door assemblies, NFPA80 requires an intermediate pivot for every additional 30" (762mm) of door height over 60" (1524mm)
- For 20-minute label specify -20 min.

Model FA19



TECHNICAL INFORMATION



Application
- Full Mortise
- Handed

Product Description & Features
- Optional intermediate pivot for institutional use or installations where flat surfaces are objectionable
- Maintains door alignment
- Aids in installing bottom pivots
- Not load bearing
- 3/4" (19mm) offset
- Bevel door 1/8" in 2"
- Furnished with wood and machine Torx® screws

Compliance
- May be used with fire door assemblies
- Ferrous base material
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot

MODEL F327



Application

- Single Acting, Handed
- Interior or Exterior Doors
- Door Width up to 4'0" (1219mm)
- For Doors over 250 lbs. Consult Factory
- 1-3/4 doors only

Product Description & Features

- Used as a concealed floor closer for independently hung doors – butt hinges, pocket pivots, or continuous hinges
- Closer does not support weight of door
  Note: Hanging means must be specified when ordering. Check the product template. If your hanging means are not listed, contact factory for a special layout and pricing
- Includes closer, mortised rail and arm with slider
- 90° maximum door swing
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- Separate and independent valves for closing speed, latch speed and backcheck
- Floor plate standard. For threshold applications a 1/2" extended spindle is required
- Cycolac rustproof cement case
- Not available in “PH”, “DA”, or Hold Open
- Furnished with wood and machine screws

Optional Features

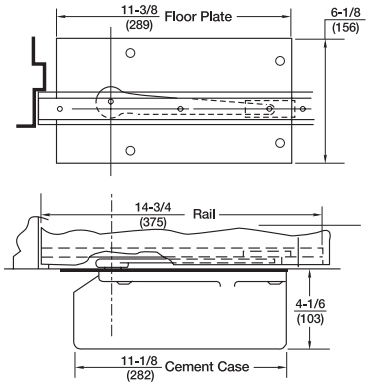
- Cold weather fluid: specify "CWF"
- Sealed closer: specify "SC"
- Extended spindle available in 1/2" increments up to 2" longer than standard

Compliance

- This closer carries a UL Listing for 3 hour fire door assemblies. Fire rated hanging means required

TECHNICAL INFORMATION

(Frame stop required)



INDEPENDENTLY HUNG
FLOOR CLOSERS

How to Order

F327N **LFP** **RH** **613**

(1) Model/Degrees/Function

F327N	Non-Hold Open

(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613 (US10B)	Antique bronze
613E (US10BE)	Dark oxidized satin bronze - equiv.
618 (US14)	Bright nickel plated, clear coated
619 (US15)	Satin nickel plated, clear coated
622 (US19)	Flat black coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
BSP	Black suede powder coat
WSP	White suede powder coat

Sample Order String (as shown above)

F327: F327 Floor Closer
N: Non-Hold Open
LFP: Less Floor Plate
RH: Right Hand
613: 613 Finish

(2) Options (if required)

CWF	Cold Weather Fluid
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

CENTER HUNG, SINGLE ACTING
FLOOR CLOSERS

MODEL 28

Application
- Single Acting, Handed
- Exterior or Interior Doors
- Weight to 350 lbs.
- Centering Arm
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

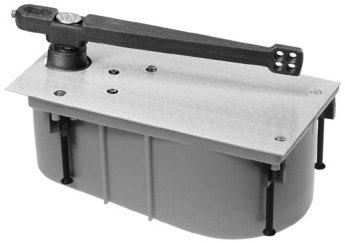
Product Description & Features
- 340 top pivot included
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- Centering arm with adjusting screws in face of door
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac, rustproof cement case
- Not allowed for fire rated doors
- Frame stop required on the header at the lock side. If not supplied by frame manufacturer, recommend use of 60131 (see Door Control Accessories catalog).
- Furnished with wood and machine screws

Optional Features
- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Sealed closer: specify "SC"
- Arm reinforcement bracket for wood doors: specify "W"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify “PH”. (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- ANSI/C06021
- ANSI/BHMA A156.4, Grade 1

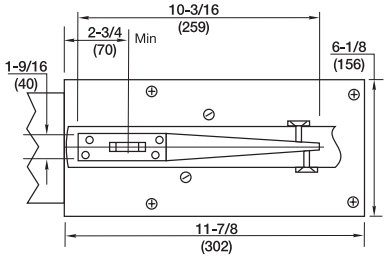
** For doors taller than 8'6" use top pivot # 345 in lieu of 340*

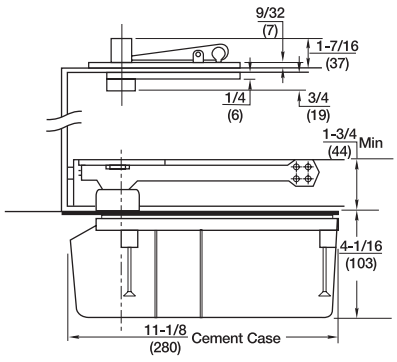




TECHNICAL INFORMATION

(Frame stop required at lock edge)





Pivot edge of door must be radiused.

Experience a safer and more open world

CENTER HUNG, SINGLE ACTING
FLOOR CLOSERS

How to Order

2890S | **SC, 1/2" ext spd.** | **LH** | **625**

(1) Model/Degrees/Function

2885N	85 Degrees, Non-Hold Open
2890N	90 Degrees, Non-Hold Open
2895N	95 Degrees, Non-Hold Open
28105N	105 Degrees, Non-Hold Open
2885S	85 Degrees, Selective Hold Open
2890S	90 Degrees, Selective Hold Open
2895S	95 Degrees, Selective Hold Open
28105S	105 Degrees, Selective Hold Open

Sample Order String (as shown above)

28: 28 Floor Closer
90: 90 Degree Door Swing
S: Selective Hold Open
SC: Sealed Closer & Cement Case
1/2" ext. spdl: 1/2" Extended Spindle
LH: Left Hand
625: 625 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
W	Wood Door Reinforcement Bracket
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Hand

RH	Right Hand
LH	Left Hand

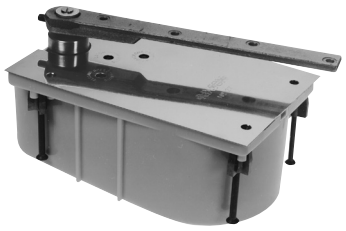
(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
689 (US28)	Any	Aluminum, painted
690 (US20)	Any	Dark bronze, painted
691 (US10)	Any	Light bronze, painted
693	Any	Black, painted
696 (US4)	Any	Gold, painted
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

MODEL 28 X 554 ARM





Application

- Single Acting, Handed
- Exterior or Interior Doors
- Weight to 350 lbs.
- Concealed Arm
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features

- 340 top pivot included
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- Concealed arm is designed to eliminate visible adjusting screws on face of door
- Arm bolt locks arm to closer spindle – adjustments made through heel of door
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac, rustproof cement case
- Not allowed for fire rated doors
- Frame stop required on the header at the lock side. If not supplied by frame manufacturer, recommend use of 60131 (see Door Control Accessories catalog).
- Furnished with wood and machine screws

Optional Features

- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Sealed closer: specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

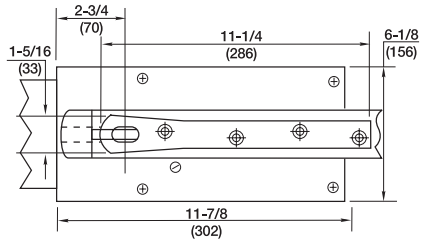
Compliance

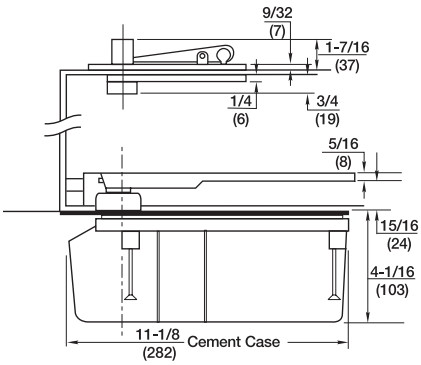
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify “PH”. (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- ANSI/C06021
- ANSI/BHMA A156.4, Grade 1

** For doors taller than 8'6" use top pivot # 345 in lieu of 340*

TECHNICAL INFORMATION

(Frame stop required at lock edge)





Pivot edge of door must be radiused.

CENTER HUNG, SINGLE ACTING
FLOOR CLOSERS

How to Order

28105N | **554, LFP** | **RH** | **626**

(1) Model/Degrees/Function

2885N	85 Degrees, Non-Hold Open
2890N	90 Degrees, Non-Hold Open
2895N	95 Degrees, Non-Hold Open
28105N	105 Degrees, Non-Hold Open
2885S	85 Degrees, Selective Hold Open
2890S	90 Degrees, Selective Hold Open
2895S	95 Degrees, Selective Hold Open
28105S	105 Degrees, Selective Hold Open

Sample Order String (as shown above)

28: 28 Floor Closer
105: 105 Degree Door Swing
N: Non-Hold Open
554: 554 Concealed Arm
LFP: Less Floor Plate
RH: Right Hand
626: 626 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
W	Wood Door Reinforcement Bracket
554	Concealed Arm
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

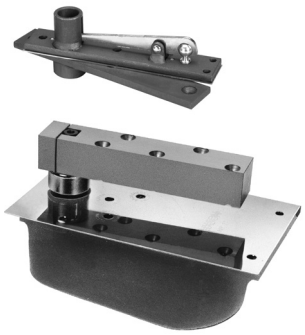
(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
689 (US28)	Any	Aluminum, painted
690 (US20)	Any	Dark bronze, painted
691 (US10)	Any	Light bronze, painted
693	Any	Black, painted
696 (US4)	Any	Gold, painted
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

MODEL H28



Application

- Single Acting, Handed
- Exterior or Interior Doors
- Extra Heavy High Traffic Doors
- Weight to 1000 lbs.
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features

- H340 top pivot included
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- For high traffic or extra heavy doors (2" min. thickness)
- Additional thrust bearing for greater load capacity
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cast iron cement case
- Not allowed for fire rated doors
- Frame stop required at header on lock side. If not supplied by frame manufacturer, Norton Rixson 60131 recommended. Consult Door Control Accessories Catalog.
- Furnished with wood and machine screws

Optional Features

- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Sealed closer: specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

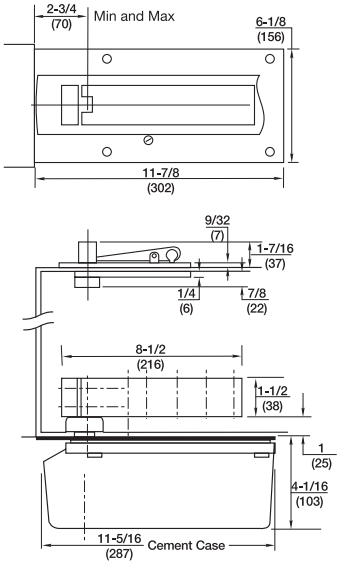
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify “PH”. (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- ANSI/C06061
- ANSI/BHMA A156.4, Grade 1

** For doors taller than 8'6" use top pivot H345 in lieu of H340*

Note: When "PH" is specified for H28 closers, door weight and alignment of pivots may affect opening force.

Technical Information

(Frame stop required at lock edge)



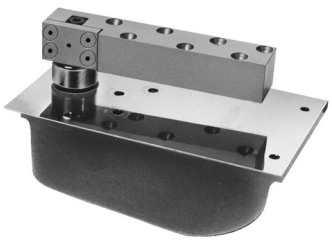
Pivot edge of door must be radiused.

MODEL H28 X 587 ARM

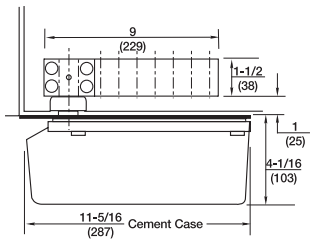
Product Description & Features

Identical to Model H28 except:

- Special side load arm for 1-3/4" thick doors
- Allows pivot point to be moved away from pivot edge of door minimum 2-3/4" backset



Technical Information



CENTER HUNG, SINGLE ACTING
FLOOR CLOSERS

How to Order

H28105N | **DA, 587 Arm** | **LH** | **605**

(1) Model/Degrees/Function

H2885N	85 Degrees, Non-Hold Open
H2890N	90 Degrees, Non-Hold Open
H2895N	95 Degrees, Non-Hold Open
H28105N	105 Degrees, Non-Hold Open
H2885S	85 Degrees, Selective Hold Open
H2890S	90 Degrees, Selective Hold Open
H2895S	95 Degrees, Selective Hold Open
H28105S	105 Degrees, Selective Hold Open

Sample Order String (as shown above)

H28: H28 Floor Closer
105: 105 Degree Door Swing
N: Non-Hold Open
DA: Delayed Action
587 Arm: Side Load Arm
LH: Left Hand
605: 605 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
587	Side Load Arm (1-3/4" Thick Door)
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Hand

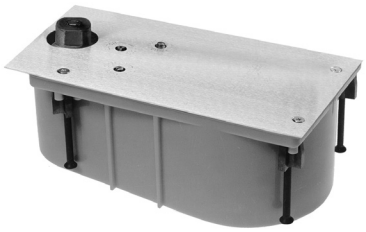
RH	Right Hand
LH	Left Hand

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
689 (US28)	Any	Aluminum, painted
690 (US20)	Any	Dark bronze, painted
691 (US10)	Any	Light bronze, painted
693	Any	Black, painted
696 (US4)	Any	Gold, painted
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

MODEL 328



Application
- Single Acting, Handed
- Exterior or Interior Doors
- Glass Doors with Patch Fittings
- Weight up to 325 lbs.
- Size Up to 3'2" x 8'0"

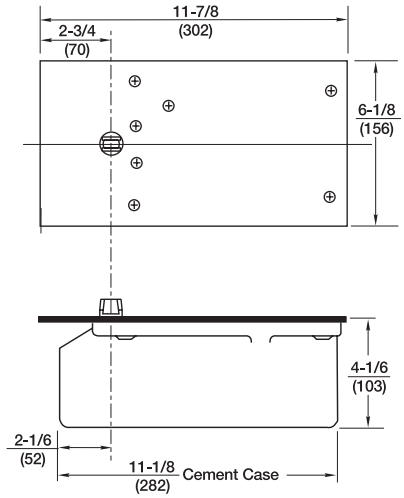
Product Description & Features
- No arm or top pivot provided
- Patch fittings by others. Norton Rixson will provide spindle configuration to fit – provide details when ordering
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- Separate and independent valves for closing speed, latch speed and backcheck
- Floor plate standard. For threshold application an extended spindle is required
- Cycolac, rustproof cement case
- Not allowed for fire rated doors
- Frame stop required at header on lock side. If not supplied by frame manufacturer, Norton Rixson 60131 recommended. Consult Door Control Accessories Catalog.

Optional Features
- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Sealed closer: specify "SC"
- For extended spindles, contact the factory

Compliance
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify “PH”. (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- ANSI/C06021
- ANSI/BHMA A156.4, Grade 1

TECHNICAL INFORMATION

(Frame stop required at lock edge)



CENTER HUNG, SINGLE ACTING
FLOOR CLOSERS

How to Order

32890S **CWF** **LH** **612**

(1) Model/Degrees/Function

32885N	85 Degrees, Non-Hold Open
32890N	90 Degrees, Non-Hold Open
32895N	95 Degrees, Non-Hold Open
328105N	105 Degrees, Non-Hold Open
32885S	85 Degrees, Selective Hold Open
32890S	90 Degrees, Selective Hold Open
32895S	95 Degrees, Selective Hold Open
328105S	105 Degrees, Selective Hold Open

Sample Order String (as shown above)

328: 328 Floor Closer
90: 90 Degree Door Swing
S: Selective Hold Open
CWF: Cold Weather Fluid
LH: Left Hand
612: 612 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
LAP	Less All Parts
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
689 (US28)	Any	Aluminum, painted
690 (US20)	Any	Dark bronze, painted
691 (US10)	Any	Light bronze, painted
693	Any	Black, painted
696 (US4)	Any	Gold, painted
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

*Note * contact factory*

MODEL 428 (WITH PATCH FITTINGS)





Application

- Single Acting, Handed
- Exterior or Interior Doors
- Full Glass Doors
- Weight up to 325 lbs.
- Size Up to 3'2" x 8'0"

Product Description & Features

- Top and bottom patch fittings for tempered glass doors 3/8" - 1/2" thick
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- Separate and independent valves for closing speed, latch speed and backcheck
- Floor plate standard. For threshold application an extended spindle is required (floor plate shown)
- Cycolac, rustproof cement case
- Frame stop required at header on lock side

Optional Features

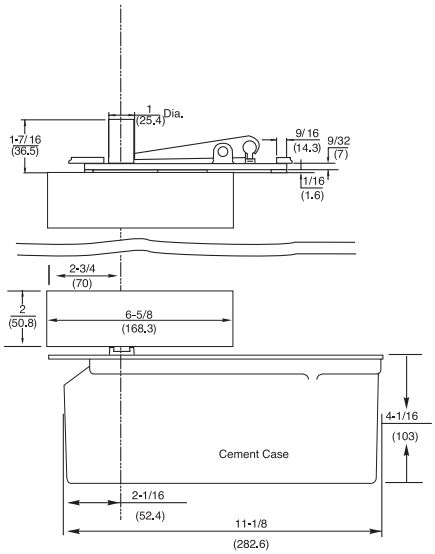
- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Sealed closer: specify "SC"
- For extended spindles, contact the factory. No vertical adjustment

Compliance

- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify “PH”. (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- ANSI/C06061
- ANSI/BHMA A156.4, Grade 1

Technical Information

(Frame stop required at lock edge)



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CENTER HUNG, SINGLE ACTING
FLOOR CLOSERS

How to Order

42890S **N/A** **RH** **605**

(1) Model/Degrees/Function

42885N	85 Degrees, Non-Hold Open
42890N	90 Degrees, Non-Hold Open
42895N	95 Degrees, Non-Hold Open
428105N	105 Degrees, Non-Hold Open
42885S	85 Degrees, Selective Hold Open
42890S	90 Degrees, Selective Hold Open
42895S	95 Degrees, Selective Hold Open
428105S	105 Degrees, Selective Hold Open

Sample Order String (as shown above)

428: 428 Floor Closer
90: 90 Degree Door Swing
S: Selective Hold Open
RH: Right Hand
605: 605 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
LAP	Less All Parts
LCC	Less Cement Case
LTP	Less Top Pivot
LFP	Less Floor Plate

(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

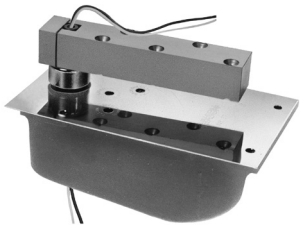
ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
629	Stainless Steel (300 series SS base)	Bright stainless steel
630	Stainless Steel (300 series SS base)	Satin stainless steel

*Note * contact factory*

CENTER HUNG, SINGLE ACTING
FLOOR CLOSERS

MODEL EH28





Application
- Single Acting, Handed
- Interior or Exterior Doors
- Floor Closer for Power Transfer
- Weight to 500 lbs.
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features
- H340 top pivot included
- Available non-hold open (N) or selective hold open (S) at same degree as dead stop
- Built-in positive dead stop prevents door from swinging beyond the desired opening degree (specify 85°, 90°, 95° or 105°)
- For high abuse or environmental conditions such as wind, a Norton Rixson Checkmate® Stop or Holder is recommended to protect the opening and all door hardware
- Provides power transfer through closer spindle. Low voltage, Class II wiring (2 wire, 18 gauge only)
- 2" min. door thickness
- Additional thrust bearing for greater load capacity
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cast iron cement case
- Not allowed for fire rated doors
- Frame stop required on header on lock side. If not supplied by frame manufactuer, Norton Rixson 60131 recommended. Consult Door Control Accessories Catalog.
- Furnished with wood and machine screws

Optional Features
- Delayed action: specify "DA" (non-hold open closers only)
- Cold weather fluid: specify "CWF" (not available for closers with "DA")
- Sealed closer: specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

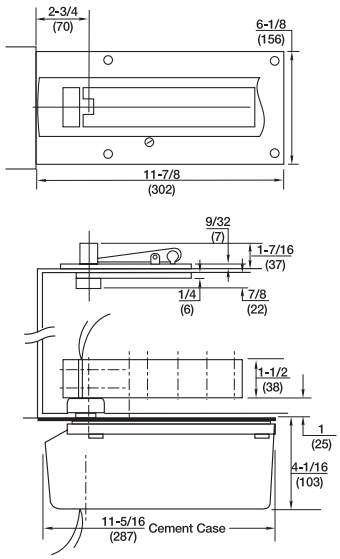
Compliance
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify "PH". (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)
- ANSI/C06061
- ANSI/BHMA A156.4, Grade 1

** For doors taller than 8'6" use top pivot H345 in lieu of H340*

Note: When "PH" is specified for EH28 closers, door weight and alignment of pivots may affect opening force.

Technical Information

(Frame stop required at lock edge)



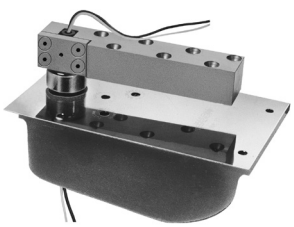
Not available with ElectroLynx®

Pivot edge of door must be radiused.

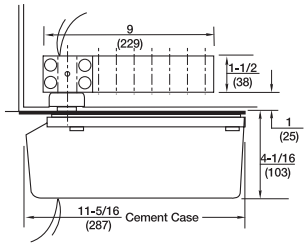
MODEL EH28 X 587 ARM

Product Description & Features

Identical to Model EH28 except:
- Special side load arm for 1-3/4" thick doors
- Allows pivot point to be moved away from pivot edge of door – minimum 2-3/4" backset



Technical Information



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CENTER HUNG, SINGLE ACTING
FLOOR CLOSERS

How to Order

EH28105S | **1" ext. spdl.** | **LH** | **626**

(1) Model/Degrees/Function

EH2885N	85 Degrees, Non-Hold Open
EH2890N	90 Degrees, Non-Hold Open
EH2895N	95 Degrees, Non-Hold Open
EH28105N	105 Degrees, Non-Hold Open
EH2885S	85 Degrees, Selective Hold Open
EH2890S	90 Degrees, Selective Hold Open
EH2895S	95 Degrees, Selective Hold Open
EH28105S	105 Degrees, Selective Hold Open

(3) Hand

RH	Right Hand
LH	Left Hand

Sample Order String (as shown above)

EH28: EH28 Floor Closer
105: 105 Degree Door Swing
S: Selective Hold Open
1" ext spdl: 1" Extended Spindle
LH: Left Hand
626: 626 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
587	Side Load Arm (1-3/4" Thick Door)
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
689 (US28)	Any	Aluminum, painted
690 (US20)	Any	Dark bronze, painted
691 (US10)	Any	Light bronze, painted
693	Any	Black, painted
696 (US4)	Any	Gold, painted
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

CENTER HUNG, DOUBLE ACTING
FLOOR CLOSERS

MODEL 30



Application
- Double Acting, Non-handed
- Interior or Exterior^ Doors
- Weight to 200 lbs.
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features
- 340 top pivot included
- Available non-hold open (N) or automatic hold open (A) at 90° (requires 93° swing) or 100° (requires 103° swing)
- Maximum door opening 103°
- Centering arm with adjustment screws in faces of door (critical for double acting doors)
- Adjustable closing speed valves for each direction of door swing
- Mechanism returns door to center
- Auxiliary door stop required, overhead or floor type
- Available with floor plate or threshold installation (floor plate shown)
- Steel cement case
- Not available in Delayed Action (DA)
- Not allowed for fire rated doors
- Furnished with wood and machine screws

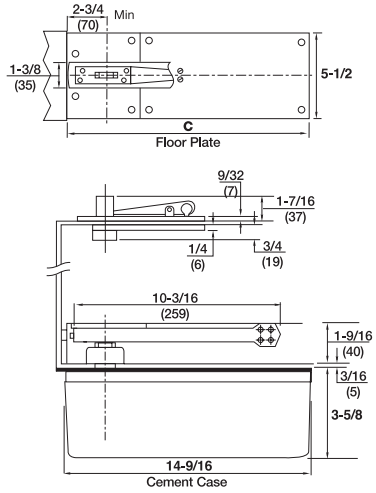
Optional Features
- Cold weather fluid: specify "CWF"
- Sealed closer: specify "SC"
- Arm reinforcement bracket for wood doors: specify "W"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify “PH”. (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)

** For doors taller than 8'6" use top pivot 345 in lieu of 340*

^Primary means of egress should not use double-acting closers

Technical Information



Pivot edge of door must be radiused.

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CENTER HUNG, DOUBLE ACTING
FLOOR CLOSERS

How to Order

30N | **W, PH** | **626**

(1) Model/Degrees/Function

30N	Non-Hold Open
3090A	90 Degrees, Automatic Hold Open
30100A	100 Degrees, Automatic Hold Open

Sample Order String (as shown above)

30: 30 Floor Closer
N: Non-Hold Open
W: Arm Reinforcement for Wood Door
PH: Meets Low Opening Force (ANSI A117.1)
626: 626 Finish

(2) Options (if required)

CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
W	Arm Reinforcement for Wood Doors
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

(3) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
689 (US28)	Any	Aluminum, painted
690 (US20)	Any	Dark bronze, painted
691 (US10)	Any	Light bronze, painted
693	Any	Black, painted
696 (US4)	Any	Gold, painted
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

CENTER HUNG, DOUBLE ACTING
FLOOR CLOSERS

MODEL 40



Application
- Double Acting, Non-handed
- Interior or Exterior^ Doors
- Weight to 300 lbs.
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features
- 340 top pivot included
- Available non-hold open (N) or automatic hold open (A) at 90° (requires 93° swing) or 100° (requires 103° swing)
- Maximum door opening 103°
- Centering arm with adjustment screws in faces of door (critical for double acting doors)
- Adjustable closing speed valves for each direction of door swing
- Mechanism returns door to center
- Auxiliary door stop required, overhead or floor type
- Available with floor plate or threshold installation (floor plate shown)
- Steel cement case
- Not available in Delayed Action (DA)
- Not allowed for fire rated doors
- Furnished with wood and machine screws

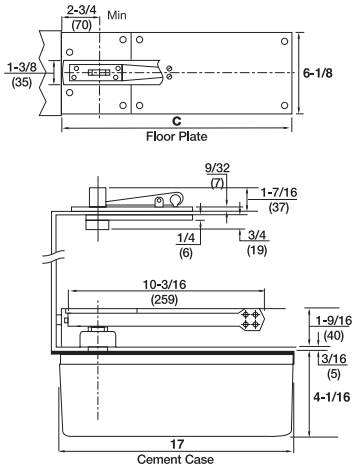
Optional Features
- Cold weather fluid: specify "CWF"
- Sealed closer: specify "SC"
- Arm reinforcement bracket for wood doors: specify "W"
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify “PH”. (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)

** For doors taller than 8'6" use top pivot 345 in lieu of 340*

^ Primary means of egress should not use double-acting closers

Technical Information



Pivot edge of door must be radiused.

Experience a safer and more open world

CENTER HUNG, DOUBLE ACTING
FLOOR CLOSERS

How to Order

40100A **LAP** **606**

(1) Model/Degrees/Function

40N	Non-Hold Open
4090A	90 Degrees, Automatic Hold Open
40100A	100 Degrees, Automatic Hold Open

Sample Order String (as shown above)

40: 40 Floor Closer
100: 100 Degree Door Swing
A: Automatic Hold Open
LAP: Less All Parts
606: 606 Finish

(2) Options (if required)

CWF	Cold Weather Fluid
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
W	Arm Reinforcement for Wood Doors
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

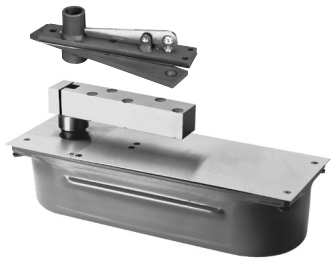
*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

(3) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
689 (US28)	Any	Aluminum, painted
690 (US20)	Any	Dark bronze, painted
691 (US10)	Any	Light bronze, painted
693	Any	Black, painted
696 (US4)	Any	Gold, painted
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

CENTER HUNG, DOUBLE ACTING
FLOOR CLOSERS

MODEL H40



Application
- Double Acting, Non-handed
- Interior or Exterior^ Doors
- Weight to 1000 lbs.
- Sizes up to 4'0" x 8'6"* (1219 x 2591mm)

Product Description & Features
- H340 top pivot included
- Available non-hold open (N) or automatic hold open (A) at 90° (requires 93° swing) or 100° (requires 103° swing)
- Maximum door opening 103°
- For thick, extra heavy doors (2" min. thickness)
- Thrust bearing for greater load capacity
- Adjustable closing speed valves for each direction of door swing
- Mechanism returns door to center
- Available with floor plate or threshold installation (floor plate shown)
- Steel cement case
- Auxiliary door stop required, overhead or floor type
- This arm does not allow door centering adjustment. Not recommended for pairs of doors
- Not allowed for fire rated doors
- Furnished with wood and machine screws

Optional Features
- Cold weather fluid: specify "CWF"
- Sealed closer: specify "SC"
- Extended spindles available in 1/2" increments up to 2" longer than standard

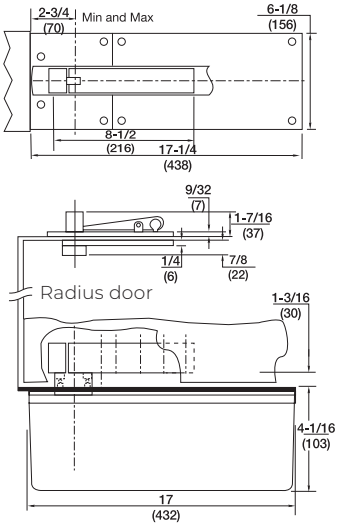
Compliance
- Models available to meet ICC/ANSI A117.1 low opening force requirements, specify "PH". (For 8-1/2 lbs. of opening force specify PH 8-1/2 lbs)

** For doors taller than 8'6" use to pivot H345 in lieu of H340*

^ Primary means of egress should not use double-acting closers

Note: When "PH" is specified for H40 closers, door weight and alignment of pivots may affect opening force. H40 closers are not recommended for pairs of doors.

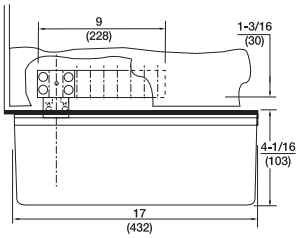
Technical Information



Pivot edge of door must be radiused.

MODEL H40 X 587 ARM

Technical Information



Product Description & Features
Identical to Model H40 except:
- Special side load arm for 1-3/4" thick doors
- Allows pivot point to be moved away from pivot edge of door. Minimum 2-3/4" backset



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CENTER HUNG, DOUBLE ACTING
FLOOR CLOSERS

How to Order

H40N **587** **605**

(1) Model/Degrees/Function

H40N	Non-Hold Open
H4090A	90 Degrees, Automatic Hold Open
H40100A	100 Degrees, Automatic Hold Open

Sample Order String (as shown above)

H40: H40 Floor Closer
N: Non-Hold Open
587: Arm for 1-3/4" Thick Door
605: 605 Finish

(2) Options (if required)

CWF	Cold Weather Fluid (N/A w/ DA)
SC	Sealed Closer
Ext. spdl (see note*)	Extended Spindles
PH or PH 8-1/2 lbs	Meets Low Opening Force (ANSI A117.1)
587	Arm for 1-3/4" Thick Door
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
689 (US28)	Any	Aluminum, painted
690 (US20)	Any	Dark bronze, painted
691 (US10)	Any	Light bronze, painted
693	Any	Black, painted
696 (US4)	Any	Gold, painted
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

OPTIONAL CENTER HUNG TOP PIVOTS

FLOOR CLOSERS

345 TOP PIVOT



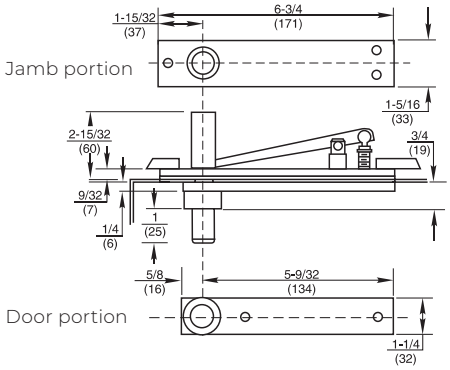
Application

- Fully Concealed
- Center Hung
- Non-handed
- Earthquake Tolerant
- Taller Doors

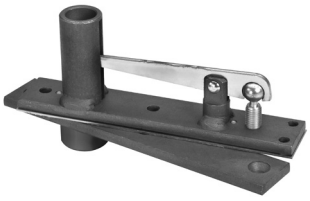
Product Description & Features

- Ideal for locations where dramatic building settling is possible. Also, for doors over 8'6" in height
- Long pivot pin engages in top of door 1-3/4" (44mm).
- Can be used with any center hung floor closer. Order the floor closer LTP (less top pivot) and the 345 top pivot separately
- Walking beam-type pivot – 1/2" (13mm) diameter pivot pin
- Oil impregnated sintered bronze bearing
- Completely concealed when door is closed
- Furnished with wood and machine screws

Technical Information



H345 TOP PIVOT



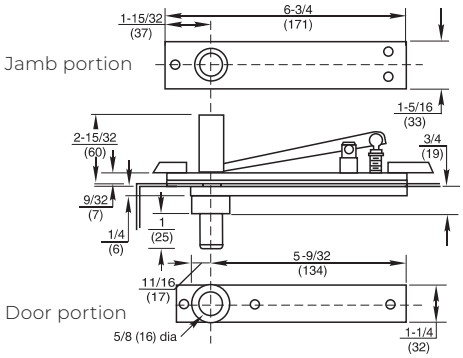
Application

- Fully Concealed
- Center Hung
- Non-handed
- Earthquake Tolerant
- Taller Doors

Product Description & Features

- Ideal for locations where dramatic building settling is possible or for doors over 8'6" in height
- Long pivot pin engages in top of door 1-3/4" (44mm)
- Can be used with heavy-duty (H) center hung floor closer. Order the floor closer LTP (less top pivot) and the H345 top pivot separately
- Walking beam-type pivot – 11/16" (18mm) diameter pivot pin
- Heavy-duty needle bearing
- Completely concealed when door is closed
- Furnished with wood and machine screws

Technical Information



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CASTERS, APPLIED STOP

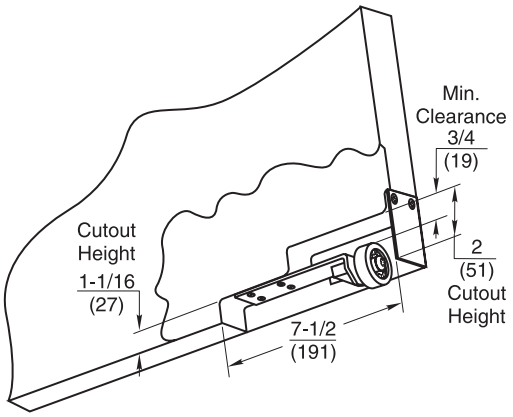
10600, 10602 CASTERS

Application

- Casters are required for all doors over 5' wide that are pivoted near the heel edge of the door
- For doors weighing up to 730 lbs., specify model 10600 (single roller)
- For doors weighing up to 1500 lbs., specify model 10602 (double roller)
- Metal doors minimum1-3/4" thickness
- Wood doors minimum 2-1/4" thickness
- Three 1/16" shim plates included for adjustment after door is installed
- Optional end cap to finish off edge of door 10600-019
- Hollow metal mounting plate available
- For low frequency usage
- For interior door installations
- For pivot doors only
- Patented



Technical Information



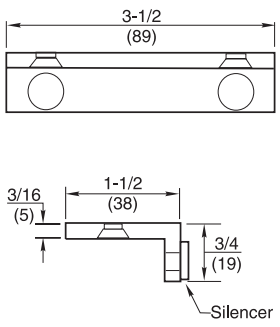
60131 LOCK EDGE APPLIED STOP

Application

For center hung doors with single acting closers. Mount to underside of frame head at the lock edge to keep doors from resting past center.



Technical Information



SPECIAL CEMENT CASES

FOR EXTERIOR EXPANSION JOINTS OR BETWEEN SLAB APPLICATIONS

1101 CEMENT CASE

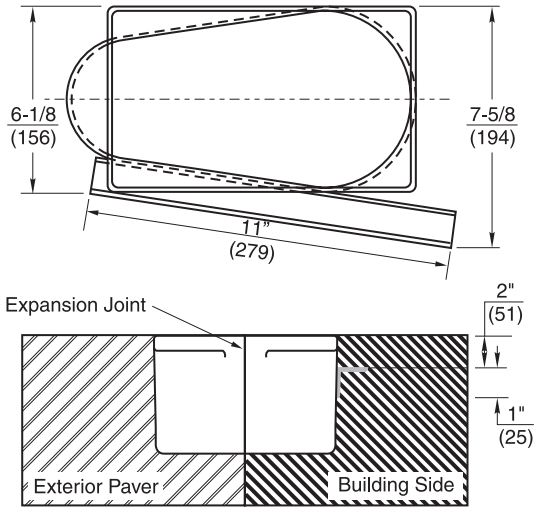
Application

At expansion joints, angle is applied to one side of a cast iron cement case allowing it to anchor to interior slab. Outside edge of slab independent of exterior slab.

To be used with 27 or 28 closers. Not recommended for L or H series - extra heavy-duty models. Specify hand or door swing.



Technical Information



FOR SHALLOW DEPTH FLOORS

79501 HEAVY-DUTY CEMENT CASE

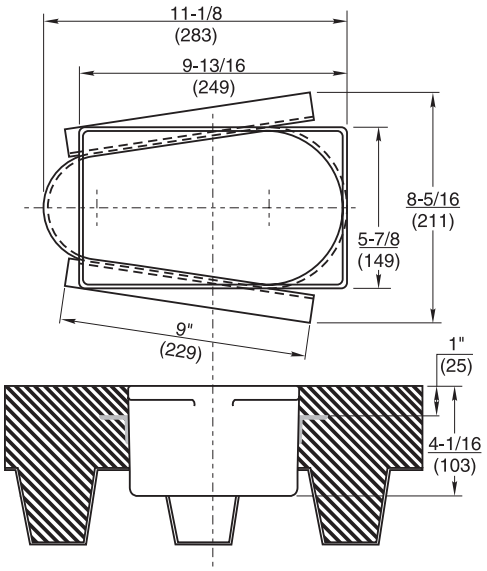
Application

When a shallow concrete floor (less than 4-1/2") presents installation difficulties, there is no need to sacrifice proper door control. Heavy-duty closers (27 and 28) that are normally furnished with cycolac cases may be ordered with metal cases that have steel angles welded to the sides. For 30 or 40 series closers, contact factory.

Not recommended for L or H series - extra heavy-duty models. When concrete is poured, the only concern is that the angles be stable.



Technical Information



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SPECIAL CEMENT CASES

25304, 25204 TWIN CEMENT CASES

Application

27 closers cannot be mounted back-to-back where space between doors is less than 2-7/8" (73mm), without modification.

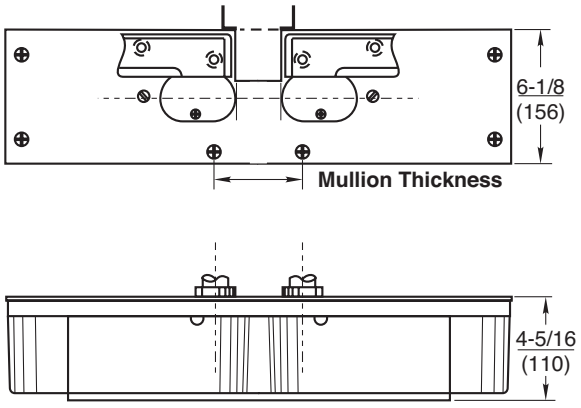
- For applications that have a 2" (51mm) mullion separating the offset closers, specify a 25304 Twin Cement Case
- For applications that have a 1-3/4" (48mm) mullion separating the offset closers, specify a 25204 Twin Cement Case

Closers are also modified.

When a twin cement case is ordered, mullion width must be indicated. Both closers and cement cases must be ordered at the same time. Field modification to standard product is not possible.



Technical Information



COVER PANS

Application

To ensure the aesthetics of a continuous floor line, a cover pan can be used in lieu of a closer floor plate. A cover pan is filled with flooring material (terrazzo, marble, tile, etc.) and is then placed on top of the floor closer. This allows access to the floor closer for maintenance.

Specify stainless steel or brass, exact closer being used, hand, and depth of pan. (7/8" (22mm) is standard.) Deduct cost of floor plate, add for extended spindles, and add for cover pan.

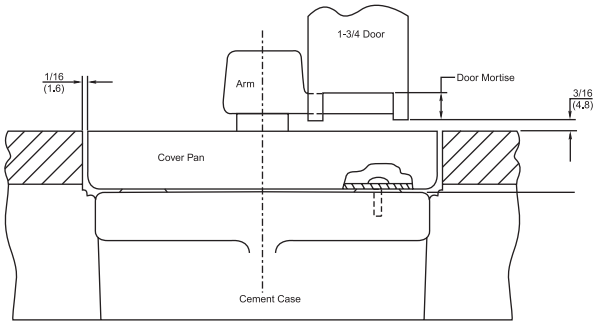
For pan depths and closer spindle information, refer to “Templates” and "Door Control Accessories". Common cover pan part numbers include:

846	27 closer, all depths for 1-3/4" doors. Consult factory for doors greater than 1-3/4".
3910	L27 closer, all depths for 1-3/4 doors. Consult factory for doors greater than 1-3/4.
2237	28 closer x 554 flat arm, all depths
841	28 closer, centering arm, all depths
841B	H28 closer and H28 x 587 arm

Any other closer models will be special layouts. Contact factory for correct product numbers and pricing.



Technical Information



Note: Closers that are "buried" under floor materials, that do not have Norton Rixson cover pans, will not be covered by warranty.

INSTALLATION TOOLS

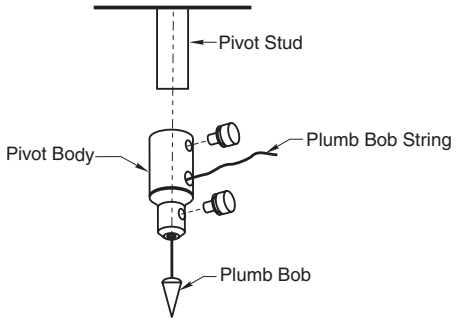
2604/2608 ALIGNMENT TOOLS

Application

- Reuseable tool ensures proper alignment of top and bottom pivot or closer
- May be used for offset or center hung installations
- Plumb line and bob not included
- Can be reused for future/additional installations
- Specify 2604 for use with the 180 offset and 340 center hung top pivots
- Specify 2608 for use with the H340 and H345 heavy-duty, center hung top pivots



Technical Information

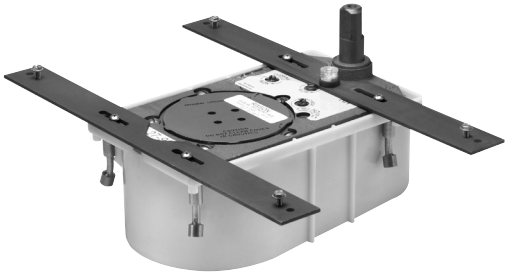


1859001 QUICKSPOTTER

Application

Metal straps are attached to the closer to suspend it during setting. Locator indicates proper placement of spindle. The level ensures a leveled installation.

- Spindle locator plate (for offset and center hung installations)
- Two spotter straps with leveling screws
- Bubble level
- May be used on Models 27, 28, 30, 40
- Can be reused for future/additional installations
- For Q27 specify model 1859501 Quickspotter



PRODUCT COMPARISON CHART

FLOOR CLOSERS

OFFSET HUNG

	20	27	27-180	127	427	HM27[6]	L27	L27-180	Q27, QT27[7]
Application	Replacement	Standard	Standard	Deep reveal	Deep reveal or alcove	Hollow metal doors and frames	Lead-lined, heavy or high traffic	Lead-lined, heavy or high traffic	Arm allows closer to be removed without demounting door
3/4" offset standard	•	•	•	•	•	•	•	•	•
1-1/2" offset optional[1]		•	•						
Handed	•	•	•	•	•	•	•	•	•
Exterior door		•	•	•	•	•	•	•	•
Interior door	•	•	•	•	•	•	•	•	•
Non-hold open	•	•	•	•	•	•	•	•	•
Selective hold open		•		•	•	•	•		•
Automatic hold open			•					•	
Door weight	200 lbs.	450 lbs.	450 lbs.	250 lbs.	250 lbs.	250 lbs.	1500 lbs.	1500 lbs.	350 lbs.
Maximum door swing[2]	180°	105°	180°	105°	105°	95°	105°	180°	95°
Maximum door width	36"	48"	48"	48"	48"	48"	48"	48"	48"
Standard top pivot (included)	180	180	180	180	180x102	N/A	L180	L180	180
Intermediate pivot (order separately)[3]	M19	M19	M19	119	119	N/A	ML19	ML19	(1) M19 included
Standard 1-3/4" door thickness	•	•	•	•	•	•	•	•	•
Optional door thicknesses available[4]							•	•	
Extended spindles available[5]	•	•	•	•	•	•	•	•	•
Options	PH, F, -20	SC, DA, PH, F, CWF, -20	SC, PH, F, CWF, -20	SC, DA, PH, F, CWF, -20	SC, DA, PH, CWF	SC, DA, PH, F, CWF, -20	SC, DA, PH, F, CWF, -20	SC, PH, F, -20	SC, DA, PH, F, CWF, -20
Furnished with wood and machine screws	•	•	•		•	•	•	•	•

Note: All offset closers have positive deadstop except models F327 and 20

1. Recommended door weight will be less when 1-1/2" offset is specified
2. Door swing must be specified when ordering several models. Models 27, 127, 427 and L27; specify 85°, 90°, 95° or 105°. Q/QT models; specify 85°, 90° or 95°
3. Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
4. Can accommodate the following door thicknesses: 2", 2-1/4", 2-1/2" or 3". Specify when ordering
5. 1/2" increments up to 2"
6. Shipped with (3) special hinges
7. Q: includes floor plate, QT: for threshold applications
8. Delayed Action only available with NHO closers
9. CWF not available for closers with DA

Optional Features	Designation
Sealed Closer	SC
Delayed Action[8]	DA
Physically Handicapped	PH
Fire Rated	F
Cold Weather Fluid[9]	CWF
20 minute label	-20

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PRODUCT COMPARISON CHART

FLOOR CLOSERS

CENTER HUNG, SINGLE ACTING

	28	28x554	328	428	EH28[3]	EH28x587[3,4]	H28	H28x587[4]
Application	Standard	Standard; concealed arm eliminates visible adjusting screws	Glass doors with patch fittings (by others)	Full glass doors with patch fitting (by	Floor closer for power transfer through closer spindle	Floor closer for power transfer through closer spindle; side load arm	Extra Heavy, High Traffic Doors	Extra Heavy, High Traffic Doors; side load arm
Handed	•	•	•	•	•	•	•	•
Exterior door	•	•	•	•	•	•	•	•
Interior door	•	•	•	•	•	•	•	•
Non-hold open	•	•	•	•	•	•	•	•
Selective hold open	•	•	•	•	•	•	•	•
Door weight	350 lbs.	350 lbs.	325 lbs.	325 lbs.	500 lbs.	500 lbs.	1000 lbs.	1000 lbs.
Maximum door swing[1]	105°	105°	105°	105°	105°	105°	105°	105°
Maximum door width	48"	48"	38"	38"	48"	48"	48"	48"
Standard top pivot (included)	340	340	N/A	Special to fit patch fitting	H340	H340	H340	H340
Standard door thickness	1-3/4"	1-3/4"	N/A	3/8" - 1/2" thick tempered glass doors	2"	1-3/4"	2"	1-3/4"
Frame stop required	•	•	•	•	•	•	•	•
Extended spindles available[2]	•	•	Consult factory	Consult factory	•	•	•	•
Optional Features	SC, DA, PH, W, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF	SC, DA, PH, CWF
Furnished with wood and machine screws	•	•			•	•	•	•

Notes:
- Center hung closers are not allowed on fire rated doors
- Doors taller than 8'6", use 345 in lieu of 340 top pivot and H345 in lieu of H340 top pivot
- All single acting closers have positive deadstop

1. Door swing must be specifi ed when ordering center hung single acting closers. Single acting closers: specify 85°, 90°, 95° or 105°
2. 1/2" increments up to 2"
3. Low voltage Class II wiring (2 wire, 18 gauge only)
4. Side load arm allows pivot point to be moved away from pivot edge of door; minimum 2-3/4" backset
5. Delayed Action only available with NHO closers
6. Cold Weather Fluid not available for closers with Delayed Action

Optional Features	Designation
Sealed Closer	SC
Delayed Action[5]	DA
Physically Handicapped	PH
Wood Door	W
Cold Weather Fluid[6]	CWF

PRODUCT COMPARISON CHART

FLOOR CLOSERS

CENTER HUNG, DOUBLE ACTING

	30	40	H40[3]	H40x587[4]
Application	Standard	Standard	Extra Heavy, High Traffic Doors	Extra Heavy, High Traffic Doors; Side Load Arm
Exterior door	•	•	•	•
Interior door	•	•	•	•
Non-hold open	•	•	•	•
Automatic hold open	•	•	•	•
Door weight	200 lbs.	300 lbs.	1000 lbs.	1000 lbs.
Maximum door swing[1]	103°	103°	103°	103°
Maximum door width	48"	48"	48"	48"
Standard top pivot (included)	340	340	H340	H340
Standard 1-3/4" door thickness	•	•	2" (min)	•
Extended spindles available[2]	•	•	•	•
Optional Features	SC, PH, W, CWF	SC, PH, W, CWF	SC, PH, CWF	SC, PH, CWF
Furnished with wood and machine screws	•	•	•	•

Notes:

- Center hung closers are not allowed on fire rated doors
- Primary means of egress should NOT use double acting closers
- Doors taller than 8'6", use 345 in lieu of 340 top pivot and H345 in lieu of H340 top pivot

1. Door swing must be specified when ordering closers. Specify 90° or 100°. Door will swing 3° beyond specified degree.
2. 1/2" increments up to 2"
3. Arm does not allow centering adjustment; NOT recommended for pair of doors
4. Side load arm allows pivot point to be moved away from pivot edge of door; minimum 2-3/4" backset
5. CWF not available for closers with DA

Optional Features	Designation
Sealed Closer	SC
Physically Handicapped	PH
Wood Door	W
Cold Weather Fluid[5]	CWF

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MODEL 27

RIGHT HAND SHOWN
3/4" OFFSET

(A) Pivot Stud
181770-ASY

(B) Hex Cap
181778-*

(C) Arm Cap & Screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)

(D) 3/4" Offset Arm x Locking Screw
275177 (RH)
275176 (LH)

(E) Arm Locking Screw Only
88905-PKG (5)

(F) Arm Shims
275065-PKG (5)

(G) Arm Bearing Washer
275062-PKG (5)

(H) Spindle Shoulder Collar
259000-*

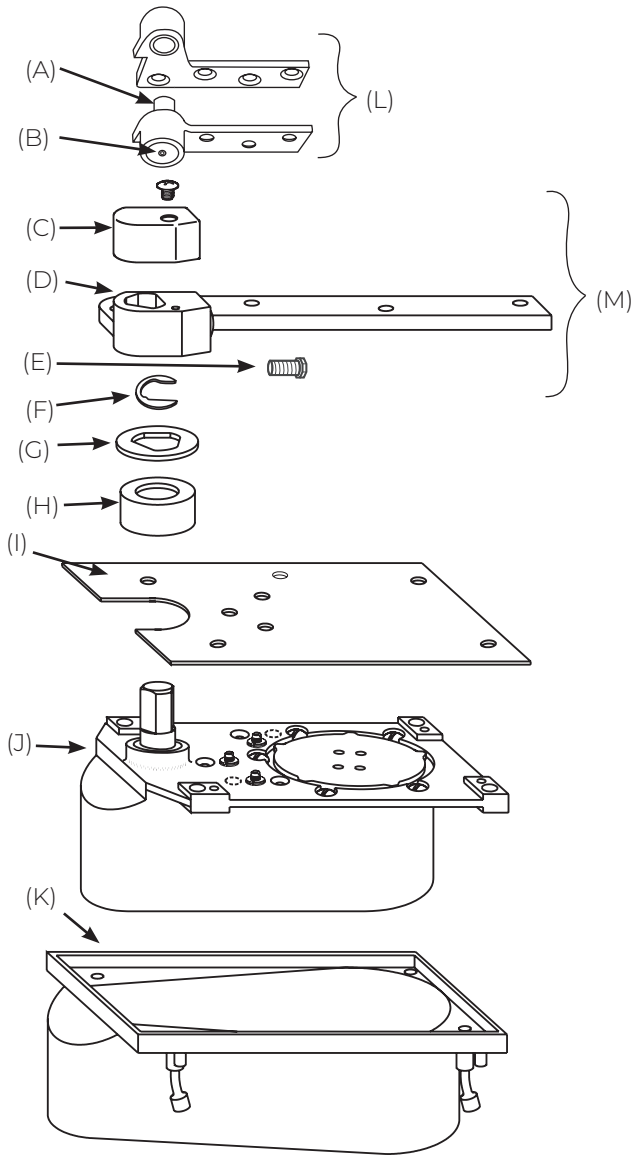
(I) Floor Plate x Screws
274050R* (RH) NHO
274050L* (LH) NHO
274750R* (RH) SHO
274750L* (LH) SHO

(J) Closer Body
LAP Specify Complete Model

(K) Cement Case x Screws
253000-PKG

(L) 3/4" Offset Top Pivot Assembly
180 (standard)
F180 (Fire Rated)
180-20 (20 minutes)

(M) Bottom Arm Package
252050R* (RH)
252050L* (LH)
(Includes C,D, H, and attaching screws)



SCREW KITS

180 Top Pivot Screw Kit
107014-* Machine (2) Req
107114-* Wood (2) Req

Arm Screw Kit
107044 Machine
107144 Wood

Floor Plate Screw Kit
107004 -*

Cement Case Screw Kit
107046

FOR 27 X 1-1/2" OFFSET

1-1/2" Offset Top Pivot
180 x 1-1/2" (standard)
F180 x 1-1/2" (Fire Rated)
180 x 20 x 1-1/2" (20 minute)

1-1/2" Offset Arm x Locking Screw
275167-*

1-1/2" Bottom Arm Package
252060R*
252060L*

*specify finish

MODEL 127/427

RIGHT HAND SHOWN
3/4" OFFSET

(A) Pivot Stud
181770-ASY

(B) Hex Cap
181778-*

(C) Arm Cap x Screw
12029-*AS

(D) 3/4" Offset Arm
12027 (RH)
12028 (LH)

(E) Spindle Shoulder Collar
259000-*

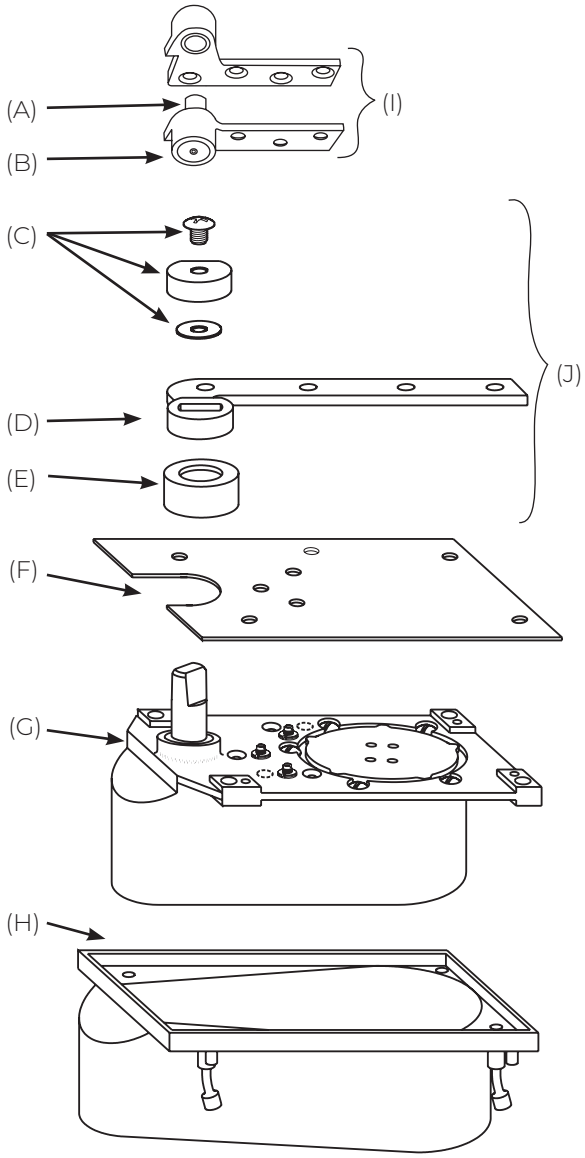
(F) Floor Plate with Screws
274050R* (RH) NHO
274050L* (LH) NHO
274750R* (RH) SHO
274750L* (LH) SHO

(G) Closer Body (Specify Complete Model No. x LAP)

(H) Cement Case with Screws
253000 - PKG

(I) 3/4" Offset Top Pivot
180 (standard)
F180 (Fire Rated)
180 x 20 (20 Minute)

(J) Bottom Arm Package
652050R* (RH)
652050L* (LH)
(Includes C, D and attaching screws)



Screw Kits

180 x 102 Screw Kit
107014-* 1 each Machine
107114-* 1 each Wood
107112-* 1 each Wood
107012-* 1 each Machine

180 Top Pivot Screw Kit
107014-* Machine (2) Req
107114-* Wood (2) Req

Arm Screw Kit
107044 Machine
107144 Wood

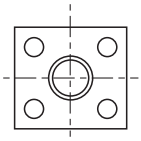
Floor Plate Screw Kit
107004-*

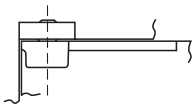
Cement Case Screw Kit
107046

Model 427

(D) 3/4" Offset Arm
12027 (RH)
12028 (LH)

Top Pivot
180 x 102





*specify finish

MODEL L27

RIGHT HAND SHOWN
3/4" OFFSET

(A) Pivot Stud
181770-ASY

(B) Hex Cap
181778-*

(C) Arm Cap & Screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)

(D) Arm x Locking Screw
1-3/4" Door
18550-Asy (RH)
18650-Asy (LH)

2" Door
18551-Asy (RH)
18651-Asy (LH)

2-1/4" Door
18552-Asy (RH)
18652-Asy (LH)

2-1/2" Door
18553-Asy (RH)
18653-Asy (LH)

3" Door
18554-Asy (RH)
18654-Asy (LH)

(E) Arm Locking Screw Only
88905-PKG (5)

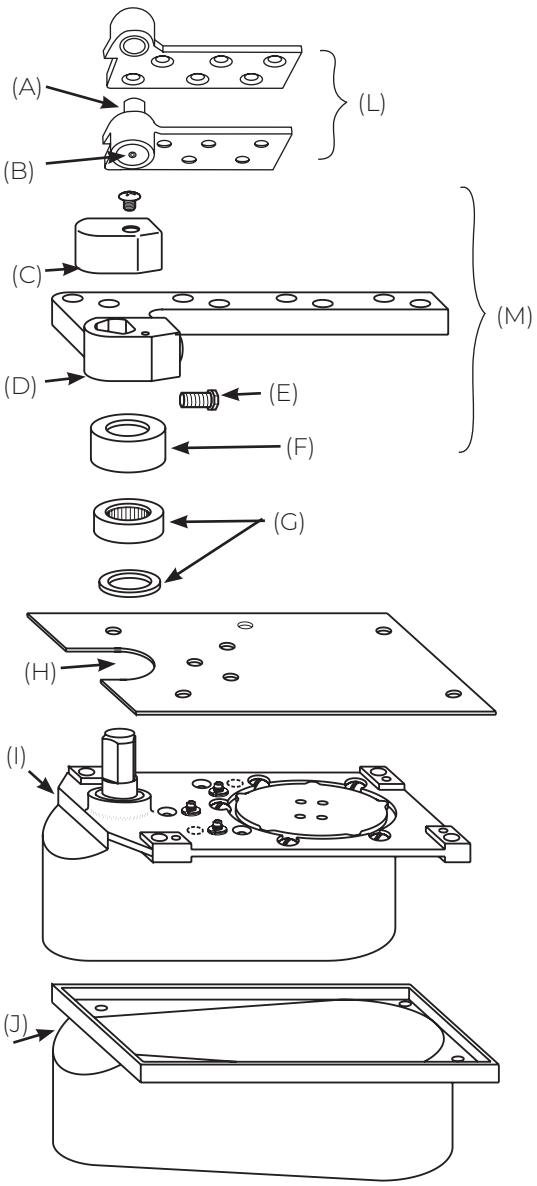
(F) Spindle Shoulder Collar
259500-*

(G) Heavy-Duty Thrust Bearing
41204-PKG
(Includes 41207N spacer)

(H) Floor Plate with Screws
274050R* (RH) NHO
274050L* (LH) NHO
274750R* (RH) SHO
274750L* (LH) SHO

(I) Closer Body
(Specify Complete Model No. x LAP)
(Includes G)

(J) Cement Case with Screws 253001



(L) 3/4" Offset Top Pivot
L180 (standard)
FL180 (Fire Rated)
L180 x 20 (20 minute)

(M) Bottom Arm Package
1-3/4" Door
252051R*(RH)
252051L* (LH)

2" Door
252052R* (RH)
252052L* (LH)

2-1/4" Door
252053R* (RH)
252053L* (LH)

2-1/2" Door
252054R* (RH)
252054L* (LH)

3" Door
252055R* (RH)
252055L* (LH)
(Includes: C, D, F and attaching screws)

Screw Kits

L180 Screw Kit
107016-* Machine (2) Req
107116-* Wood (2) Req

Arm Screw Kit
107048 Machine (2) Req
107144 Wood (2) Req

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107046

*specify finish

MODEL Q27/QT27

RIGHT HAND SHOWN
3/4" OFFSET ONLY

(A) Pivot Stud
181770-ASY

(B) Hex Cap
181778-*

(C) Arm Cap & Screw
73035R*AS (RH)
73035L*AS (LH)

(D) Arm Mounting Screws and Plate
73014-*

(E) Removable Arm
73001R-ASY (RH)
73001L-ASY (LH)

(F) Arm Locking Screw Only
88905-PKG (5)

(G) Arm Washer/Shim Package - 275179
(Includes 275065 and 275178 Torque Washer)

(H) Q Floor Plate with Screws
294050R* (RH) (NHO)
294050L* (LH) (NHO)
294750R* (RH) (SHO)
294750L* (LH) (SHO)

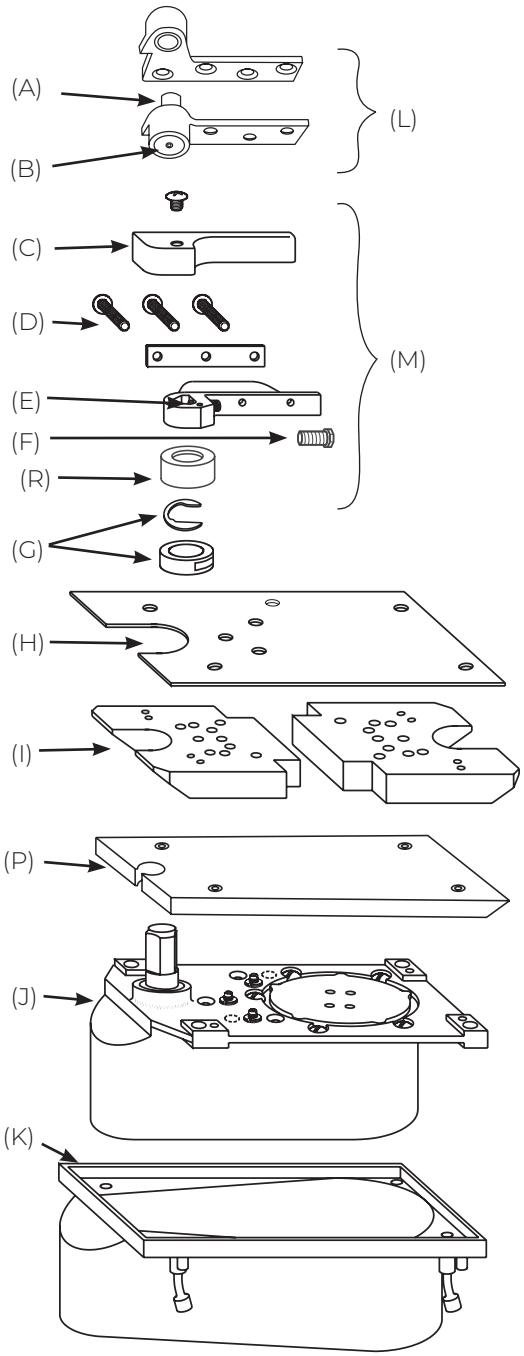
(I) Q27 Styrofoam Filler
73009

(J) Closer Body
(Specify Complete Model No. x LAP)

(K) Cement Case with Screws 253000-PKG

(P) QT Styrofoam Filler
73017

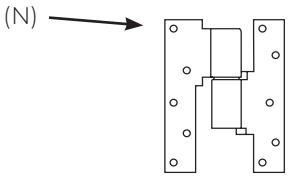
(R) Spindle Shoulder Collar
259000-*



(L) 3/4" Offset Top Pivot
180 (standard)
F180 (Fire Rated)
180 x 20 (20 minute)

(M) Bottom Arm Package
222050R* (RH)
222050L* (LH)
(Includes C, D, E, R and attaching screws)

(N) 3/4" Offset Intermediate Pivot
M19 (standard)
FM19 (Fire Rated)
M19-20 (20 minute)



Intermediate Pivot

SCREW KITS

180 Screw Kit
107014-* Machine (2) Req
107114-* Wood (2) Req

Q Floor Plate Screw Kit
107010-*

Cement Case Screw Kit
107046

M19 Intermediate Pivot Screw Kit
107015-* Machine (2 Req)
107115-* Wood (2 Req)

**specify finish*

PARTS DRAWINGS
FLOOR CLOSERS

MODEL HM27

RIGHT HAND SHOWN
3/4" OFFSET

(A) Arm Cap & Screw
73025R*AS (RH)
73025L*AS (LH)

(B) Arm Mounting Screws and Plate
73014-*

(C) Arm x Set Screw
73041R*AS (RH)
73041L*AS (LH)

(D) Arm Locking Screw Only
88905-PKG (5)

(E) Arm Shims (5)
275065-PKG

(F) Arm Bearing Washer
275062-PKG-5

(G) Spindle Shoulder Collar
259000-*

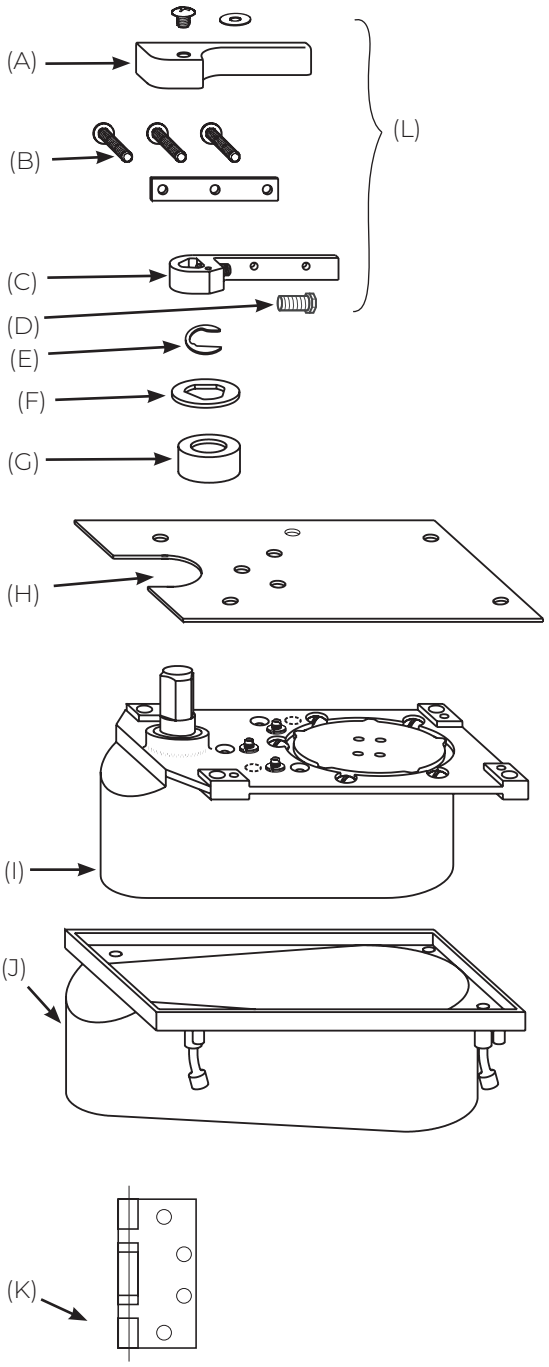
(L) Bottom Arm Package
222050R*HM (RH)
222050L*HM (LH)
(Includes A, B, C, G and attaching screws)

(H) Floor Plate with Screws
274050R* (RH) (NHO)
274050L* (LH) (NHO)
274750R* (RH) (SHO)
274750L* (LH) (SHO)

(I) Closer Body
(Specify Complete Model No. x LAP)

(J) Cement Case with Screws
253000-PKG

(K) Special Offset Hinges (3)
254545*PK



SCREW KITS

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107046

Hinge Screw Kit
107519-*

**specify finish*

MODEL 20

RIGHT HAND SHOWN
3/4" OFFSET

(A) Pivot Stud
181770-ASY

(B) Hex Cap
181778-*

(C) Arm Cap & Screw
012142R*AS
(RH, BRS)
012142L*AS
(LH, BRS)
012144R*AS
(RH, SS)
012144L*AS
(LH, SS)

(D) 3/4" Offset Arm x Locking Screw
275177 (RH)
275176 (LH)

(E) Arm Locking Screw Only
88905-PKG (5)

(F) Arm Shims
275065-PKG (5)

(G) Arm Bearing Washer
275062-PKG (5)

(H) Spindle Shoulder Collar
259000-*

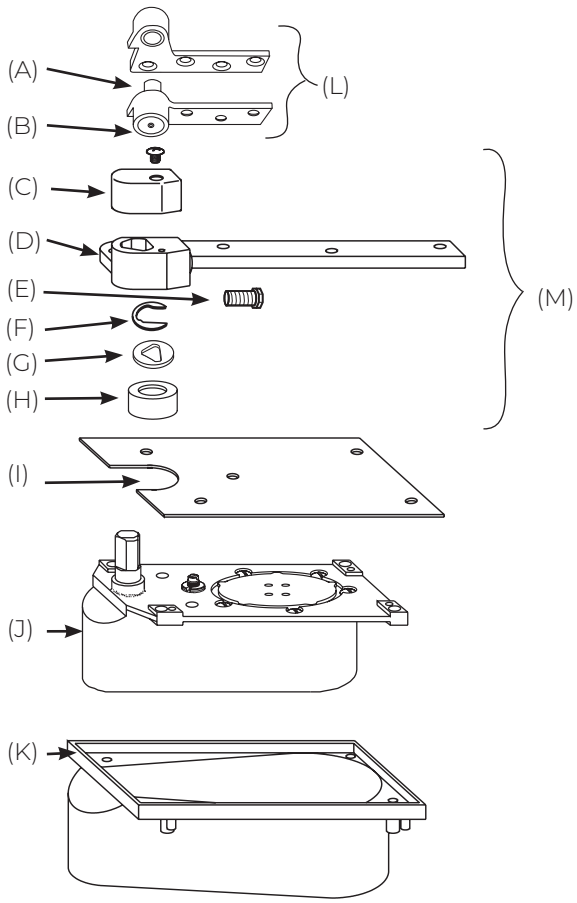
(L) 3/4" Offset Top Pivot
180 (standard)
FL180 (Fire Rated)
180 - 20 (20 Minute)

(M) Bottom Arm Package
252050R* (RH)
252050L* (LH)
(Includes C, D, H and attaching screws)

(I) Floor Plate with Screws
204050-*

(J) Closer Body (Specify Complete Model No. x LAP)

(K) Cement Case with Screws
203000



SCREW KITS

180 Screw Kit
107014-* Machine (2) Req
107114-* Wood (2) Req

Arm Screw Kit
107044-* Machine (2) Req
107144-* Wood (2) Req

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107046

**specify finish*

MODEL F327

RIGHT HAND SHOWN
INDEPENDENTLY HUNG

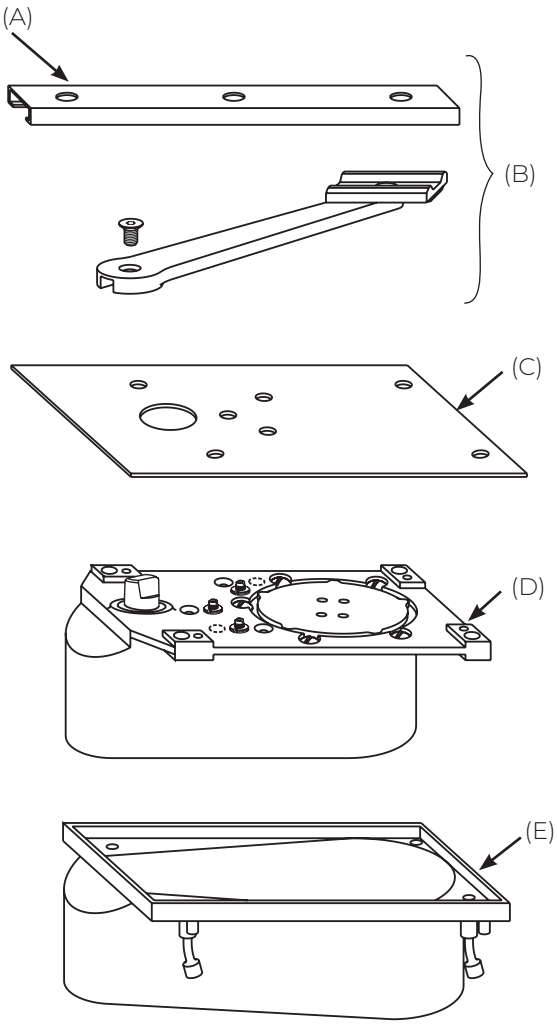
(A) Door Rail
327006

(B) Bottom Arm Package
3252010-*

(C) Floor Plate with Screws
3274010R* (RH)
3274010L* (LH)

(D) Closer Body
(Specify Complete Model No. x LAP)

(E) Cement Case with Screws
253000-PKG



SCREW KITS

Slide Track Screw Kit
107033

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107046

*specify finish

MODEL 28

(A) Jamb Portion
3065

(B) Finish Plate
012202-*PK(BRS)
012204-*PK(SS)

(C) Door Portion
30243

(E) Arm Plate Shims (.062)
46045-PKG (5)

Arm Plate Shims (.187)
46145-PKG (5)

(F) Arm Plate & Stud Assy
46445

(G) Arm Spindle Screw
01244010-PKG (5)

(H) Arm Spindle Washer
01030-PKG (5)

(I) Arm Set Screw Only
26087-PKG (5)

(J) Arm & Arm Set Screw
282026

(K) Arm Alignment Screw & Washer (2) of each
107032-*

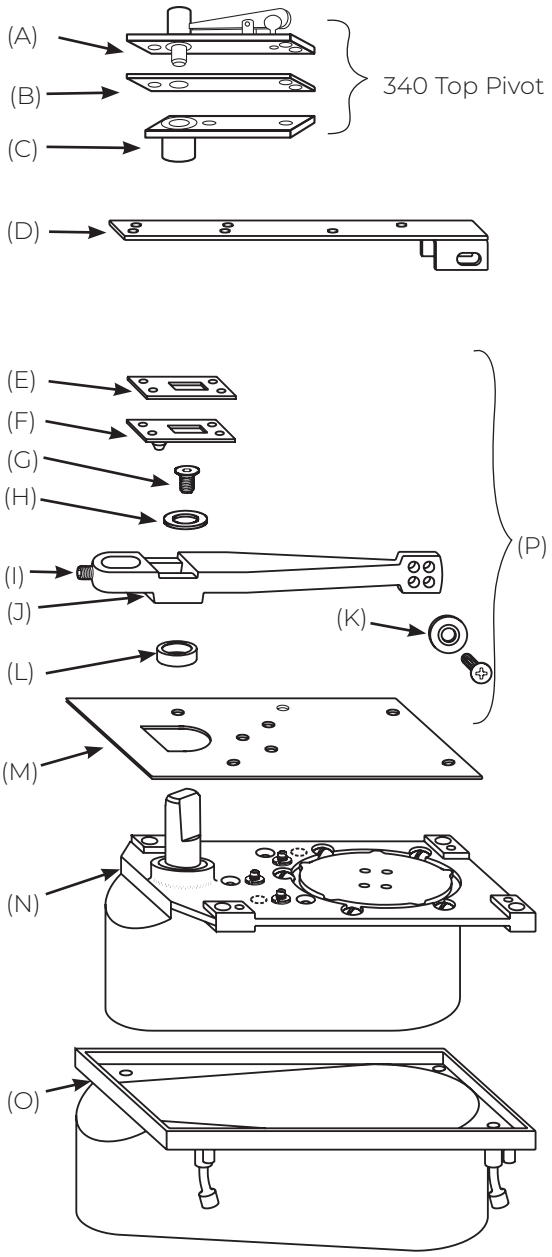
(L) Arm Spindle Collar
259000-*

(M) Floor Plate with Screws
284020R* (RH) NHO
284020L* (LH) NHO
284720R* (RH) SHO
284720L* (LH) SHO

(N) Closer Body
(Specify Complete Model No. x LAP)

(O) Cement Case with Screws
253000-PKG

(P) Bottom Arm Package
(E-K)
282026-*



Wood Door Arm Package
282126 (includes D, E, F, J)

(D) W28 Wood Door Plate & Shim Pkg
107066
(Includes 46145 & 46445)

554 Concealed Arm Package
282554
(Includes 107064)



Screw Kits

340 Screw Kit
107329 Machine & Wood

Arm Screw Kit
107048-* Machine (2) Req

107144-* Wood (2) Req

554 Arm Screw Kit
107064

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107046

**specify finish*

MODEL H28

(A) Jamb Portion
308548

(B) Finish Plate
012202-*PK (BRS)
012204-*PK (SS)

(C) Door Portion
30141

(D) Standard End Load Arm Package (minimum 2" door thickness)

262022
(Includes 107060, 107045, and 107145)

(E) Arm Spindle Collar
259500-*

(F) Heavy-Duty Thrust Bearing

41204-PKG (Includes 41207N)

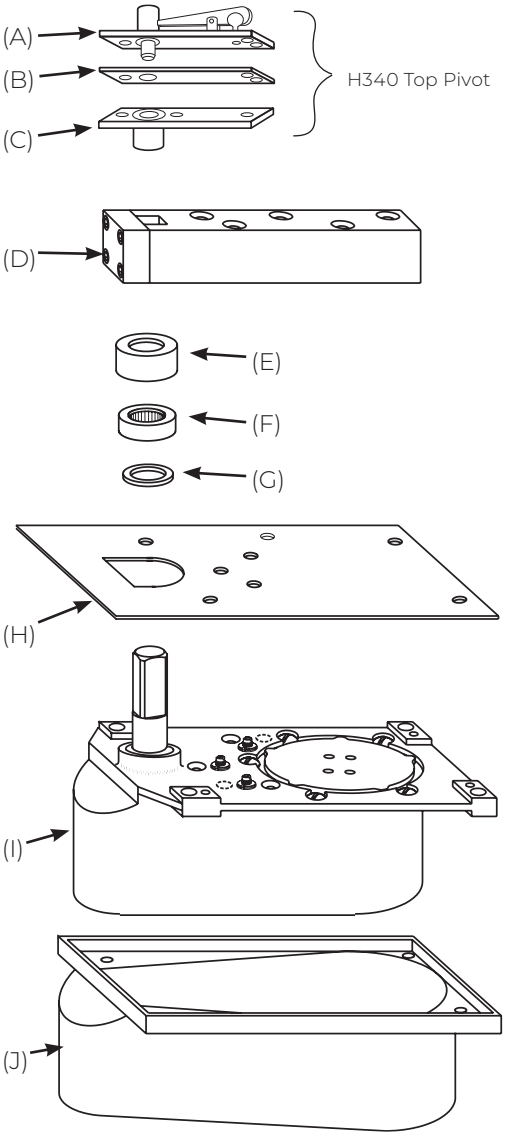
(G) Arm Shim Kit
107060

(H) Floor Plate with Screws
NHO
284020R* (RH
284020L* (LH)

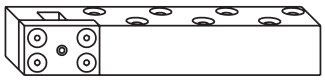
SHO
284720R* (RH)
284720L* (LH)

(I) Closer Body (Specify Complete Model No. x LAP)
(Includes 41204- PKG)

(J) Cement Case with Screws
253001



587 Side Load Arm Package For 1-3/4" Door



262587
(Includes G and attaching screws)

SCREW KITS

H340 Screw Kit
107329 Machine & Wood

587 Arm Screw Kit
107077 Machine
107145-* Wood

Arm Screw Kit
107045 Machine
107145 Wood

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107046

**specify finish*

MODEL 328/428

(A) Jamb Portion
42801

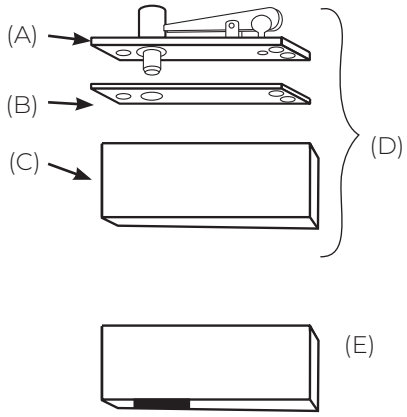
(B) Finish Plate
012202-*PK (BRS)
012204-*PK (SS)

(C) Patch Fitting Cover
7495 - *

(J) Bottom Pivot Insert
74101

(K) Top Pivot Insert
74102

Model 428^



^Model 428 includes patch fittings, top pivot, cement case, closer body and floor plate (D, E, F, G & H)

(D) Top Patch
7494-* PK
(Includes C and K)

(E) Bottom Patch
7495-* PK
(Includes C and J)

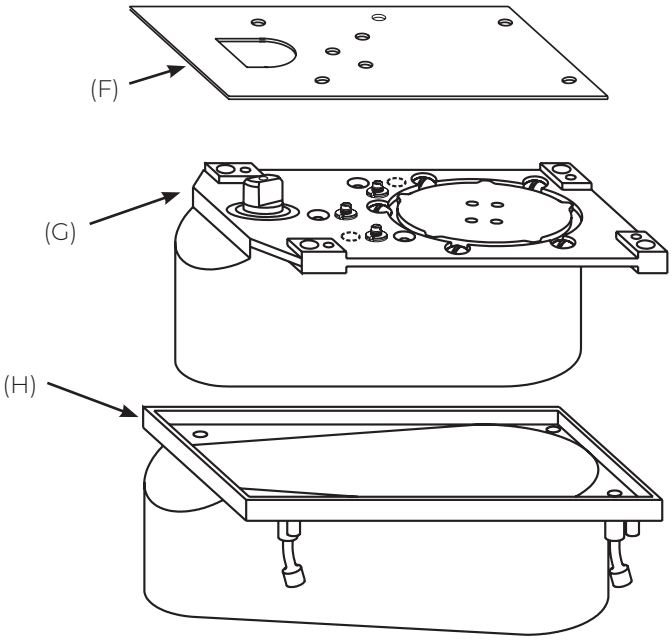
(F) Floor Plate with Screws NHO

NHO
284020R* (RH)
284020L* (LH)

SHO
284720R* (RH)
284720L* (LH)

(G) Closer Body
(Specify Complete Model No. x LAP)

(H) Cement Case with Screws
253000-PKG



specify finish

MODEL 30, 40

(A) Jamb Portion
3065

(B) Finish Plate
012202-*PK(BRS)
012204-*PK(SS)

(C) Door Portion
30243

(E) Arm Plate Shims (.062) 46045-PKG (5)

(E) Arm Plate Shims (.187)
46145-PKG (5)

(F) Arm Plate & Stud Assy
46445

(G) Arm & Arm Set Screw
302026

(H) Arm Set Screw Only (5)
26087-PKG

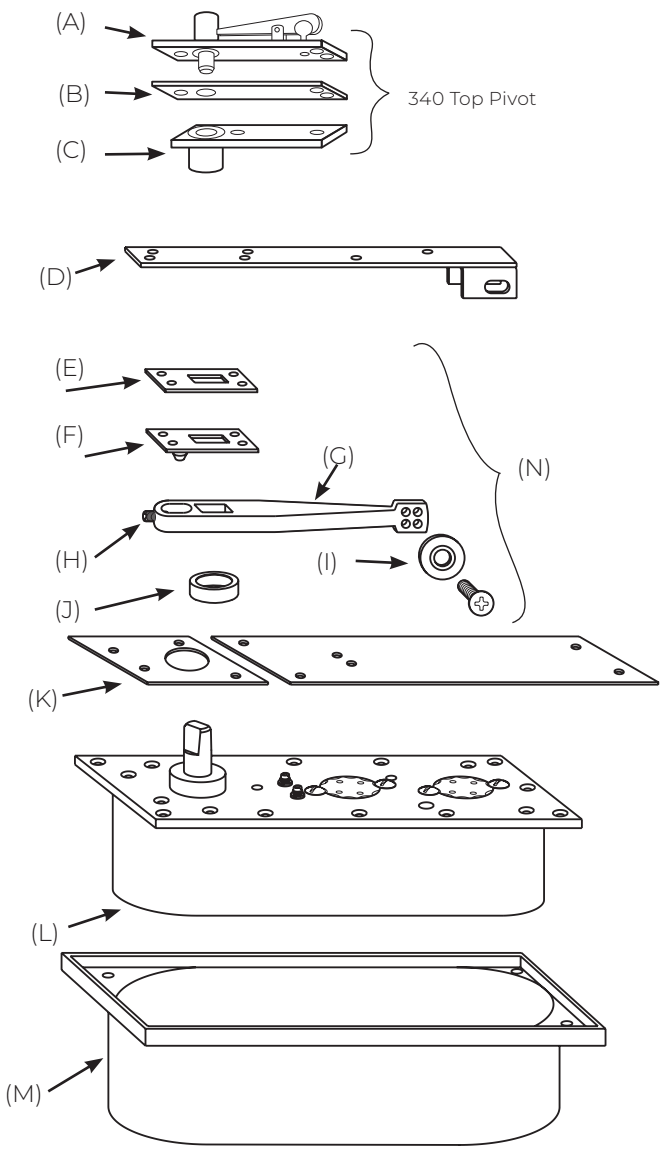
(I) Arm Alignment Screw & Washer (2)
107032-*

(J) Arm Spindle Collar
259000-*

(K) Floor Plate with Screws
(1 large and 1 small)
30 closer - 304020-*
40 closer - 404020-*

(L) Closer Body (Specify Complete Model No. x LAP)

(M) Cement Case with Screws
30 closer - 303000
40 closer - 403000



Wood Door Arm PKG
302126 (Includes D and G)

(D) Wood Door Plate & Shim PKG
107066 (Includes shims and special arm centering screws)

(N) Bottom Arm Package
302026 -*
(Includes E, G, I, J and attaching screws)

SCREW KITS

340 Screw Kit
107329 Machine & Wood

Arm Screw Kit
107048 Machine
107144 Wood

Floor Plate Screw Kit (2 req.)
107004-*

Cement Case Screw Kit
107014

**specify finish*

MODEL H40

(A) Jamb Portion
308548

(B) Finish Plate
012202-*PK (BRS)
012204-*PK (SS)

(C) Door Portion
30141

(D) Standard End Load Arm Package (minimum 2" door thickness)
262022

(E) Arm Spindle Collar
259500-*

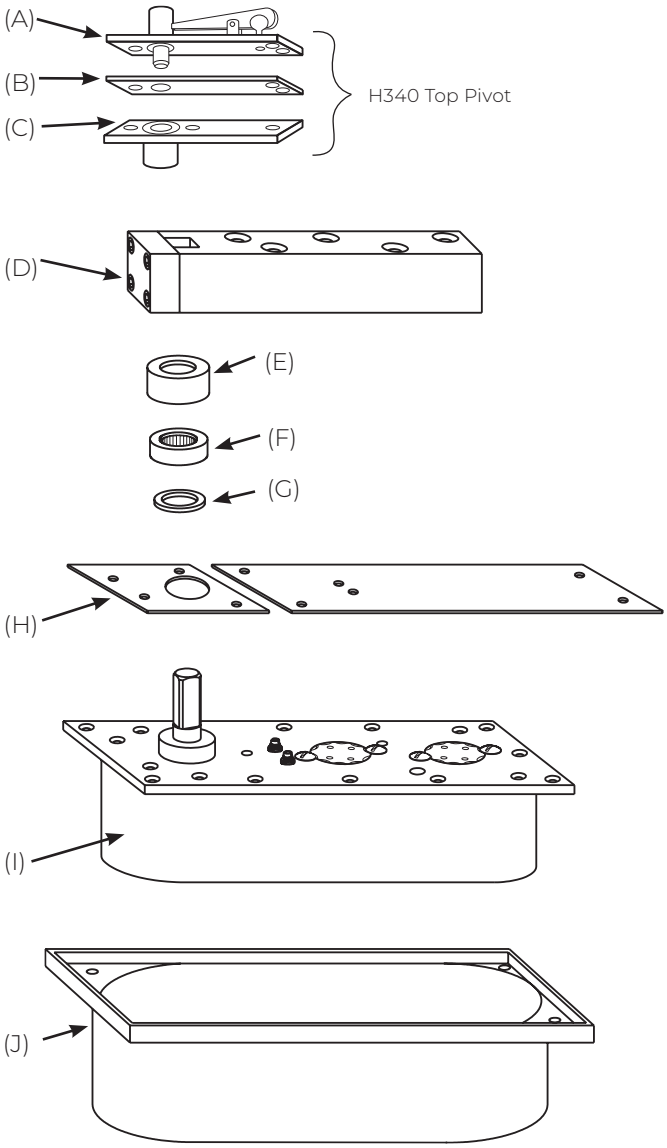
(F) Heavy-Duty Thrust Bearing
41204-PKG

(G) Arm Shim Kit
107060

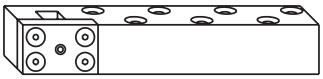
(H) Floor Plate with Screws
1 Large 1 Small
404020 -*

(I) Closer Body (Specify Complete Model No. x LAP) (Includes 41204- PKG)

(J) Cement Case with Screws
403000



587 Side Load Arm Package For 1-3/4" Door



262587
(Includes G and attaching screws)

SCREW KITS

H340 Screw Kit
107329 Machine & Wood

587 Arm Screw Kit
107077 Machine
107145 Wood

Arm Screw Kit
107045 Machine
107145 Wood

Floor Plate Screw Kit (2 req.)
107004-*

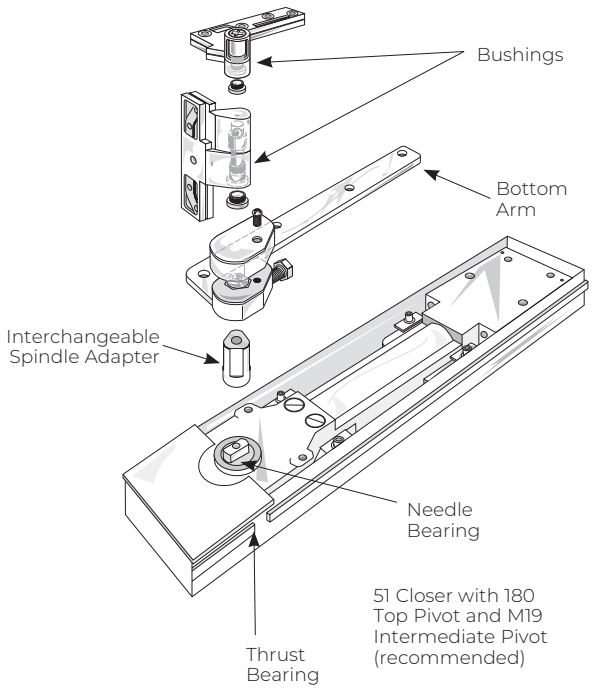
Cement Case Screw Kit
107014

**specify finish*

FEATURES AND BENEFITS

Norton Rixson shallow depth floor closers provide long-lasting performance and reliability. Ideal for low to moderate traffic, interior doors, these closers are typically used in applications where traditional floor closer depth is too great. Shallow depth closers feature interchangeable spindle adapters, fixed spring sizes and separate and independent adjusting valves.

- Weight of the door is supported by the bottom arm and floor
  - Door swings with less resistance
  - Reduces stress on the frame
  - Fasteners are in shear, not tension
  - Eliminates door sag
  - Doors can be adjusted vertically
- Bottom arm attaches directly to the closer spindle
  - A mechanical advantage that increases efficiency insuring that ICC/ANSI A117.1 compliant, lower opening forces will still close the door
  - One to one ratio of door swing to spindle rotation makes control more precise
- Closer is concealed in the floor
  - Aesthetics -the beauty of the opening is the focal point, not the closer
  - Vandal resistance -the mechanism is not exposed
  - Solution for arch top doors (offset models)



LIMITED WARRANTY

Norton Rixson shallow depth floor closers 50 and 51 series are warranted for 10 years against defect. See Price Book for specific details of the limited warranty.

SPECIFICATIONS

Interior door floor closers shall be models 50 (center hung), 51 (offset hung) or F53 (independently hung). These closers shall have separate and independent checking valves to control latch speed, closing speed and adjustable hydraulic backcheck. All closers shall have a minimum of two bearings internal to the closer. One shall be a thrust bearing and the other a needle bearing. Separate bearing surfaces shall be in the top pivot. Closers shall have cases no more that 2" deep. Fire rated model F51 shall have steel top pivots. Male spindle assemblies shall have removable spindle adapters, changeable in the field.

GLOSSARY OF TERMS
FLOOR CLOSERS

Automatic Hold Open – Specify ABC
These closers hold the door open. This feature cannot be changed in the field. Specify 90°, 105° or 180°.

Cover Pan (Terrazzo) – Specify Part Number
Closers should always be accessible. They should never be buried beneath flooring materials. A cover pan sits on top of the closer and has the flooring material set in it. This way the sight line for the floor is consistent. Cover pans may require closers with longer spindles. See cover pan template to determine spindle length needed.

Delayed Action – Specify DA
After full open permits door to remain ajar (at 70 degrees) for up to 40 seconds. Operates by separate valve and can be shut off if not needed. Not available on closers with hold open feature. Closers with DA feature do not have backcheck.

Extended Spindle – Specify Extra Length
Any special coverings or severe door undercuts will require an extended spindle. See product template to determine if an extended spindle is needed. Extended spindles are available in 1/2" increments up to 2" longer than standard.

Fire Rated – Specify F
Closer packages for fire rated doors (up to 3 hours) include a steel top pivot and must have additional steel intermediate pivots. These closers are non-hold open.

Hand – Specify RH or LH
All single acting floor closers are handed. All double acting floor closers (5020) are non-handed.

Less All Parts – Specify LAP
If closer is needed for replacement, the arm, cover, cement case, top pivot and floor plate are omitted.

Less Cement Case – Specify LCC
For existing installations or when cement case has been sent earlier in construction. Closer will be packaged without the cement case.

Less Floor Plate – Specify LFP
When thresholds or cover pans are being used the closer doesn't need the decorative floor plate.

Less Top Pivot – Specify LTP
For unusual head conditions where the top pivot cannot be used, the closer is shipped without the top pivot. For offset installations an additional load bearing intermediate (side jamb) M190 pivot is required. All intermediate pivots for that opening should be M190's, not M19's.

Non Hold Open – Specify NBC
These closers do not hold the door open. This feature cannot be changed in the field.

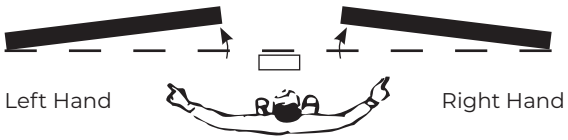
1-1/2" Offset – Specify 1-1/2" OS
Offset is the distance from the face of the door to the pivot point. Extended offsets should not be used unless there is cladding on the face of the door or there is trim to clear on the frame. 1-1/2" offset arms and pivots are for doors with cladding or trim that project 3/4" from the face of the door.

Special Layouts – Specify SPLO#
Unique installations or specially engineered products are called special layouts. These numbers must be assigned by the technical support department and they must be called out specifically by their number when ordered.

Twenty Minute Label – Specify -20
This UL rating is for 20-minute doors. Pivots are brass-based material and include a visible label.

Wood Door – Specify W
When using a center hung product with the centering arm (e.g., 5010 and 5020) a special plate and less obtrusive adjusting screws are needed for wood doors. This plate is reinforcement for the deep mortise required for that arm, protecting the veneer.

How to Determine Hand of Door



Face a door swinging open away from you. If it opens to the right, it is right handed. If it opens to the left, it is left handed.

Experience a safer
and more open world

3/4" OFFSET HUNG
FLOOR CLOSERS

MODEL 51





Application

- Single Acting, Handed
- Interior Doors
- Weight to 250 lbs.*
- Door Width up to 4'0" (1219mm)

Features

- 180 top pivot included. M19 intermediate pivot required (ordered separately)
- Order spring sizes 3 through 5:

Model	Door Width
5103	36" (914mm)
5104	42" (1067mm)
5105	48" (1219mm)

- Allows doors to swing 180°, trim permitting
- Available non-hold open (NBC) or automatic hold open (ABC) specify 90°, 105° or 180°
- Doors will swing 5° beyond hold open point
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac, rustproof cement case
- Vertical door adjustment
- Interchangeable spindle adapters
- Furnished with wood and machine screws
- For arch top doors or when a 180 top pivot can't be used, install at least two M190 load-bearing intermediate pivots mounted together at the top of the vertical edge
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- 2-year limited warranty

Optional Features

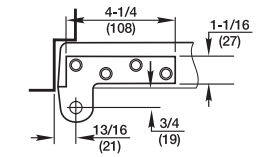
- Delayed action option – specify "DA" (non-hold open only). Closer will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard
- Available 1-1/2" offset, for doors with cladding or frames with applied molding. Maximum door weight 175 lbs.

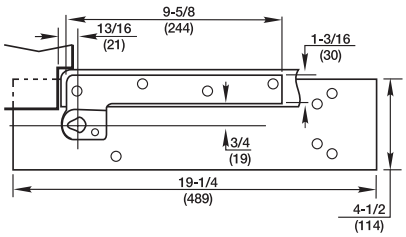
Compliance

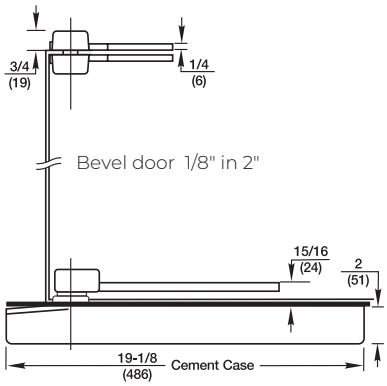
- For fire rated openings (up to 3 hour assemblies) specify "F". This package will be supplied with a steel F180 top pivot and a non-hold open closer. FM19 intermediate pivot is required (order separately).
- For 20-minute label doors specify -20 min (non-hold open closer only)

Technical Information

Frame stop required







**Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

5104-105ABC | **LTP, LFP** | **RH** | **612**

(1) Model/Degrees/Function

5103 5104 5105	NBC	Non-Hold Open
	90ABC	90 Degrees, Automatic Hold Open
	105ABC	105 Degrees, Automatic Hold Open
	180ABC	180 Degrees, Automatic Hold Open

(2) Options (if required)

DA	Delayed Action (NHO only)
1-1/2" OS	1-1/2" Offset
Ext. spdl (see note*)	Extended Spindles
F	Fire Rated
-20 min	20 Minute Label
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

Sample Order String (as shown above)

5104: 51 Floor Closer, size 4 spring (42" wide door)
105: 105 Degree Door Swing
ABC: Automatic Hold Open
LTP: Less Top Pivot
LFP: Less Floor Plate
RH: Right Hand
612: 612 Finish

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2"*

Experience a safer and more open world

3/4" OFFSET HUNG
FLOOR CLOSERS

MODEL Q51/QT51







Application

- Single Acting, Handed
- Interior Doors (1-3/4" only)
- Weight to 250 lbs.*
- Door Width up to 4'0" (1219mm)

Features

- 180 top pivot and one M19 intermediate pivot included. Closer cannot be ordered without the intermediate pivot
- For arch top doors, consult factory
- Order spring sizes 3 through 5

Model	Door Width
Q (QT) 5103	36" (914mm)
Q (QT) 5104	42" (1067mm)
Q (QT) 5105	48" (1219mm)

- Surface attached bottom arm allows closer removal without demounting door
- Mortise arm with thru bolt attachment
- Available non-hold open (NBC) or automatic hold-open (ABC) specify 90° or 105°
- Doors will swing 5° beyond hold open point
- Separate and independent valves for closing speed, latch speed and backcheck
- "Q" closers have a floor plate (shown)
- For threshold applications, prefix "QT" no floor plate will be supplied
- Cycolac, rustproof cement case
- Increased depth of cement case for easy closer removal
- Vertical door adjustment
- Interchangeable spindle adapters
- Furnished with machine and wood screws
- 3/4" offset only
- Doors up to 90" (2286mm) in height should use one intermediate pivot (included). Each additional 30" (762mm) warrants another intermediate pivot
- 2-year limited warranty

Optional Features

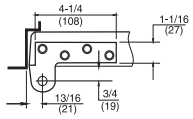
- Delayed-action option – specify "DA" (non-hold open only). Closer will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard

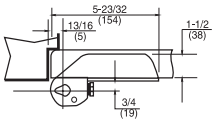
Compliance

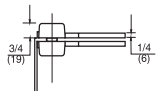
- For fire rated openings (up to 3 hour assemblies), specify "F". This package will be supplied with a steel F180 top pivot, one FM19 intermediate pivot and a non-hold open closer
- For 20-minute label doors specify -20 min. (non-hold open closer only)

Technical Information

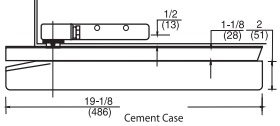
Frame stop required







Bevel door 1/8" in 2"



**Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

Q5105-NBC **-20 min** **RH** **626**

(1) Model/Degrees/Function

Q5103 Q5104 Q5105	NBC	Non-Hold Open
	90ABC	90 Degrees, Automatic Hold Open
	105ABC	105 Degrees, Automatic Hold Open

(2) Options (if required)

DA	Delayed Action (NHO only)
Ext. spdl (see note*)	Extended Spindles
F	Fire Rated
-20 min	20 Minute Label
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Hand

RH	Right Hand
LH	Left Hand

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

Sample Order String (as shown above)

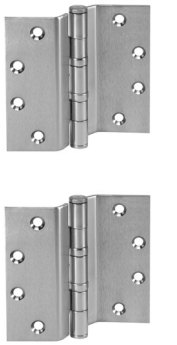
Q5105: Q51 Floor Closer, size 5 spring (48" wide door)
NBC: Non-Hold Open
-20 min: 20 minute label
RH: Right Hand
626: 626 Finish

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2"*

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3/4" OFFSET HUNG
FLOOR CLOSERS

MODEL HM51





Application

- Single Acting, Handed
- Interior, 1-3/4" Hollow Metal Doors & Frames
- Weight to 250 lbs.
- Door Width up to 4'0" (1219mm)

Features

- Designed for stock hollow metal doors and frames with standard weight 4-1/2" hinge preparation
- Three special steel 4-1/2" ball bearing standard weight hinges with 3/4" offset are included. Doors over 90" in height warrant an additional hinge.
- Order spring sizes 3 through 5:

Model	Door Width
HM5103	36" (914mm)
HM5104	42" (1067mm)
HM5105	48" (1219mm)

- Surface mounted bottom arm with thru bolts
- Available non-hold open (NBC) or automatic hold open (ABC) specify 90° or 105°
- Doors will swing 5° beyond hold open point
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac, rustproof cement case
- Interchangeable spindle adapters
- Furnished with 1/2 wood and full machine screws
- 2-year limited warranty

Optional Features

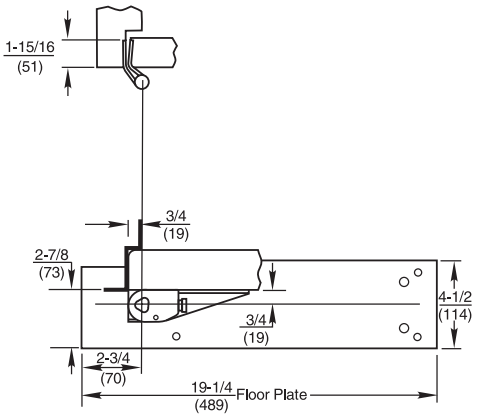
- Delayed action option – specify "DA" (non-hold open closers only). Closer will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard

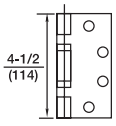
Compliance

- For fire rated openings (up to 3-hour assemblies), specify "F". This package will be supplied with three steel hinges and a non-hold open closer

Technical Information

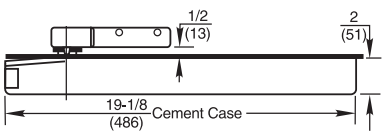
Frame stop required





(3 supplied)

Bevel door 1/8" in 2"



3/4" OFFSET HUNG
FLOOR CLOSERS

How to Order

HM5103-90ABC | **1/2" ext. spdl.** | **LH** | **625**

(1) Model/Degrees/Function

HM5103 HM5104 HM5105	NBC	Non-Hold Open
	90ABC	90 Degrees, Automatic Hold Open
	105ABC	105 Degrees, Automatic Hold Open

(3) Hand

RH	Right Hand
LH	Left Hand

(2) Options (if required)

DA	Delayed Action (NHO only)
Ext. spdl (see note*)	Extended Spindles
F	Fire Rated
LAP	Less All Parts
LFP	Less Floor Plate
LCC	Less Cement Case

(4) Finish

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

Sample Order String (as shown above)

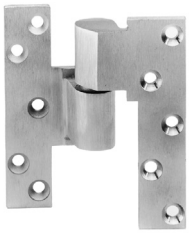
HM5103: HM51 Floor Closer, size 3 spring (36" wide door)
90: 90 Degree Door Swing
ABC: Automatic Hold Open
1/2" ext.: 1/2" Extended Spindle
LH: Left Hand
625: 625 Finish

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2"*

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INTERMEDIATE PIVOTS
FLOOR CLOSERS

MODEL M19



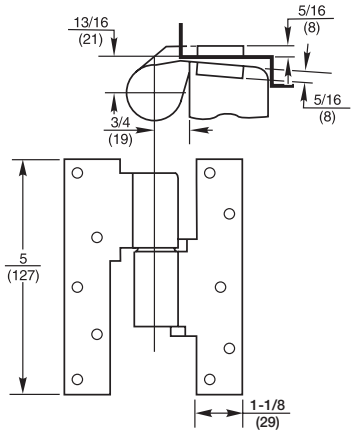
Application
- Full Mortise
- Handed

Features
- Not load bearing (pivot has a bushing)
- Maintains door alignment
- Aids in installing closers and floor closers
- Non ferrous base material
- 3/4" (19mm) offset standard
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- For arch top doors or applications where a 180 top pivot cannot be used, supply at least two each M190 load bearing intermediate pivots, mounted together at the top of the vertical edge
- Furnished with wood and machine screws

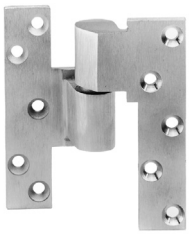
Optional Features
- Available in 1-1/2" (38mm) offset

Compliance
- Available for fire door assemblies (ferrous material) specify FM19
- For 20-minute label specify -20 min.

Technical Information



MODEL M190



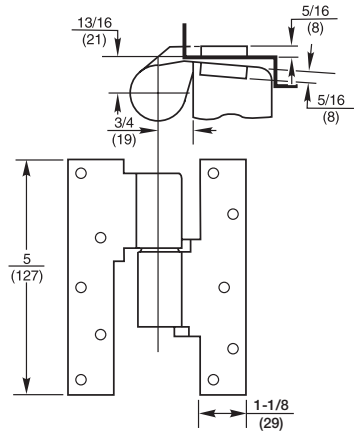
Application
- Full Mortise
- Handed

Features
- Load bearing (pivot has a needle bearing)
- Maintains door alignment
- Aids in installing closers and floor closers
- Non ferrous base material
- 3/4" (19mm) offset standard
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- For arch top doors or applications where a 180 top pivot cannot be used, supply at least two each M190 load bearing intermediate pivots, mounted together at the top of the vertical edge
- Furnished with wood and machine screws

Optional Features
- Available in 1-1/2" (38mm) offset

Compliance
- Available for fire door assemblies (ferrous material) specify FM190
- For 20-minute label specify -20 min.

Technical Information



MODEL F53 AND F5310



Application

- Single Acting, Handed
- Interior Doors
- Weight to 250 lbs.
- Door Width up to 4'0" (1219mm)

Features

- Used to conceal floor closer for independently hung doors (butt hinges, pocket pivots, etc)
- Closer does not support weight of door
- Order spring sizes 3 through 5:

Model	Door Width
F5303	36" (914mm)
F5304	42" (1067mm)
F5305	48" (1219mm)

Note: Hanging means used must be specified when ordering. Check product template. If hanging means is not listed, contact factory for special layout and pricing.

- Auxiliary stop recommended
- Includes closer, mortised rail and arm with slider
- Maximum swing 90°
- Separate and independent valves for closing speed, latch speed and backcheck
- Floor plate standard. For threshold applications a 1/2" extended spindle is required
- Cycolac rustproof cement case
- Interchangeable spindle adapters
- Furnished with wood and machine screws
- 2-year limited warranty

F5310 ONLY:

For use in 90° pocket door installations where closer is located in the pocket. Can only be used with F519 pocket pivots.

- Specially milled spindle allows positive latch speed control

Optional Features

- Not available in “DA” or hold open
- Extended spindles available in 1/2" increments up to 2" longer than standard

Compliance

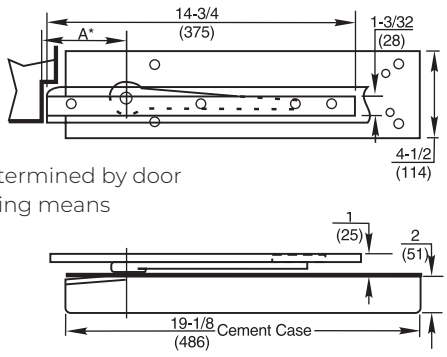
- This closer carries a UL listing for 3-hour fire door assemblies. Fire rated hanging means required.

Technical Information

Frame stop required

Door shown parallel to frame

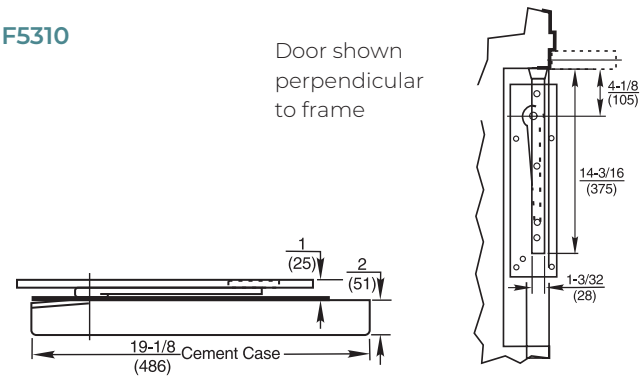
F53



*”A” determined by door hanging means

F5310

Door shown perpendicular to frame



INDEPENDENTLY HUNG
FLOOR CLOSERS

How to Order

F5303NBC **N/A** **RH** **626**

(1) Model/Degrees/Function

F5303 or F5313 F5304 or F5314 F5305 or F5315	NBC	Non-Hold Open

(3) Hand

RH	Right Hand
LH	Left Hand

Sample Order String (as shown above)

F5303: F53 Floor Closer, size 3 spring (36" wide door)
NBC: Non-Hold Open
RH: Right Hand
626: 626 Finish

(2) Options (if required)

Ext. spdl (see note*)	Extended Spindles
LAP	Less All Parts
LFP	Less Floor Plate
LCC	Less Cement Case

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2"*

(4) Finish

ANSI/BHMA (US)	Base Material	Description
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

MODEL 519



Application

- Pocket Door Pivot
- Non-Handed

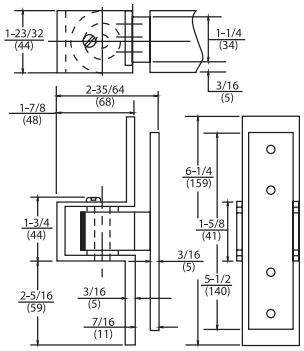
Features

- Full mortise, pivot for pocket door applications
- Heavy-duty steel pivot with ball bearings
- Allows doors to swing 90°
- Minimum three pocket pivots per door
- Doors over 90" (2286mm) in height require four pocket pivots. Each additional 30" (762mm) warrants another pocket pivot
- Furnished with wood and machine screws

Compliance

- UL listed for all labeled pocket fire-door assemblies up to and including 3 hours
- Fire-rated door assemblies must have been tested with pocket pivots

Technical Information



CENTER HUNG, SINGLE ACTING
FLOOR CLOSERS

MODEL 50



Application
- Single Acting, Handed
- Interior Doors
- Weight to 250 lbs.
- Door Width up to 4'0" x 8'0" (1219 x 2438 mm)

Features
- 340 top pivot included
- Order spring sizes 3 through 5:

Model	Door Width
5013	36" (914mm)
5014	42" (1067mm)
5015	48" (1219mm)

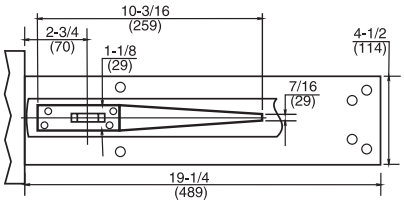
- Centering arm with adjustment screws in faces of door
- Available non-hold open (NBC) or automatic hold open (ABC) specify 90° or 105°
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac, rustproof cement case
- Frame stop required at lock edge. If not supplied by frame manufacturer, recommend use of 60131 (see Door Control Accessories Catalog)
- Interchangeable spindle adapters
- Furnished with wood and machine screws
- 2-year limited warranty

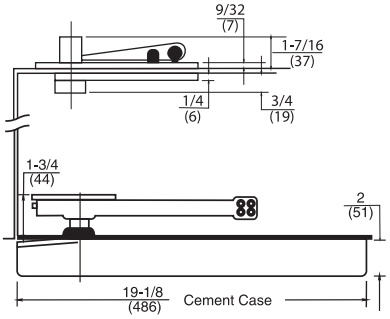
Optional Features
- Delayed action option – specify "DA" (non-hold open only). Closers will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard
- Arm reinforcement bracket for wood doors specify "W"

Note: Center hung closers are not allowed for use on fire rated doors.

Technical Information

Frame stop required at lock edge





Door edges must be radiused

MODEL 50 X 554 ARM





Application

- Single Acting, Handed
- Interior Doors
- Weight to 250 lbs.
- Door Width up to 4'0" x 8'0" (1219 x 2438 mm)

Features

- 340 top pivot included
- Order spring sizes 3 through 5:

Model	Door Width
5013 x 554	36" (914mm)
5014 x 554	42" (1067mm)
5015 x 554	48" (1219mm)

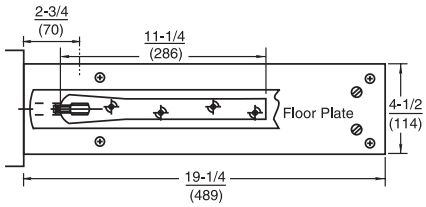
- 554 concealed arm is designed to eliminate visible adjusting screws on face of door visible adjusting screws on face of door
- Arm bolt locks arm to closer spindle – adjustment made through heel of door
- Available non-hold open (NBC) or automatic hold open (ABC) specify 90° or 105°
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac, rustproof cement case
- Frame stop required at lock edge. If not supplied by frame manufacturer, recommend use of 60131 (see Door Control Accessories Catalog)
- Interchangeable spindle adapters
- Furnished with wood and machine screws
- 2-year limited warranty

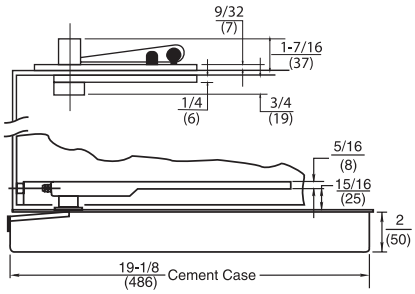
Optional Features

- Delayed action option – specify "DA" (non-hold open only) closer will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard

Technical Information

Frame stop required at lock edge





Door edges must be radiused

Note: Center hung closers are not allowed for use on fire rated doors.

CENTER HUNG, SINGLE ACTING
FLOOR CLOSERS

How to Order

5015NBC **554** **LH** **626**

(1) Model/Degrees/Function

5013 5014 5015	NBC	Non-Hold Open
	90ABC	90 Degrees, Automatic Hold Open
	105ABC	105 Degrees, Automatic Hold Open

(3) Hand

RH	Right Hand
LH	Left Hand

Sample Order String (as shown above)

5015: 50 Single Acting Floor Closer, size 5 spring (48" wide door)
NBC: Non-Hold Open
554: 554 Concealed Arm
LH: Left Hand
626: 626 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
Ext. spdl (see note*)	Extended Spindles
W	Wood Door Reinforcement Bracket
554	Concealed Arm
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(4) Finish

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613 (US10B)	Antique bronze
613E (US10BE)	Dark oxidized satin bronze - equiv.
618 (US14)	Bright nickel plated, clear coated
619 (US15)	Satin nickel plated, clear coated
622 (US19)	Flat black coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
BSP	Black suede powder coat
WSP	White suede powder coat

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2"*

MODEL 5040





Application

- Single Acting, Handed
- Interior, Full Glass Doors
- Weight to 200 lbs.
- Door Width up to 3'6" x 8'0" (1067 x 2438 mm)

Features

- Special top pivot included
- Top and bottom patch fittings for tempered glass doors 3/8" - 1/2" thick
- Order spring sizes 3 and 4:

Model	Door Width
5043	36" (914mm)
5044	42" (1067mm)

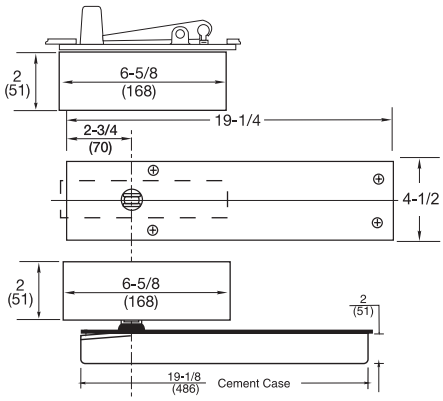
- Available non-hold open (NBC) or automatic hold open (ABC) specify 90° or 105°
- Separate and independent valves for closing speed, latch speed and backcheck
- Floor plate standard. For threshold application, an extended spindle is required (floor plate shown). There is no vertical adjustment
- Cycolac rustproof cement case
- Interchangeable spindle adapters
- 2-year limited warranty

Optional Features

- Delayed action option – specify "DA" (nonhold open only). Closers will not have backcheck. DA is not recommended for full glass doors
- For extended spindles contact factory

Technical Information

Frame stop required at lock edge



How to Order

5044NBC | **N/A** | **629**

(1) Model/Degrees/Function

5043 5044	NBC	Non-Hold Open
	90ABC	90 Degrees, Automatic Hold Open
	105ABC	105 Degrees, Automatic Hold Open

Sample Order String (as shown above)

5044: 50 Floor Closer (for glass door), size 4 spring (42" wide door)
NBC: Non-Hold Open
629: 629 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
Ext. spdl (see note*)	Extended Spindles
W	Wood Door Reinforcement Bracket
554	554 Arm
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

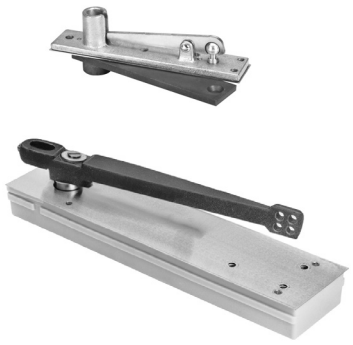
(3) Finish

ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
629 (US32)	Bright stainless steel
630 (US32D)	Satin stainless steel

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2"*

CENTER HUNG, DOUBLE ACTING
FLOOR CLOSERS

MODEL 5020



Application
- Double Acting, Non-Handed
- Interior Doors
- Weight to 250 lbs.
- Door Width up to 4'0" x 8'0" (1219 x 2438 mm)

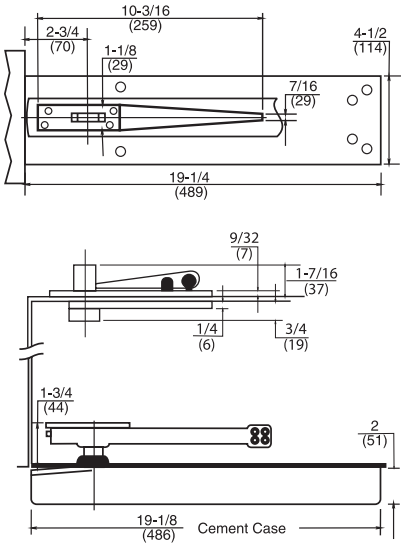
Features
- 340 top pivot included
- Order spring sizes 3 through 5:

Model	Door Width
5023	36" (914mm)
5024	42" (1067mm)
5025	48" (1219mm)

- Centering arm with adjustment screws in faces of door (critical for double acting doors)
- Available non-hold open (NBC) or automatic hold open (ABC) specify 90°, 105°
- Door may only swing 130° in either direction
- Auxiliary stop required
- Separate and independent valves for closing speed, latch speed and backcheck
- Available with floor plate or threshold installation (floor plate shown)
- Cycolac, rustproof cement case
- Interchangeable spindle adapters
- Furnished with wood and machine screws
- 2-year limited warranty

Optional Features
- Delayed action option – specify "DA" (non-hold open only). Closers will not have backcheck
- Extended spindles available in 1/2" increments up to 2" longer than standard
- Arm reinforcement bracket for wood doors – specify "W"

Technical Information



Door edges must be radiused

Note: Center hung closers are not allowed for use on fire rated doors.

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and more open world

CENTER HUNG, DOUBLE ACTING
FLOOR CLOSERS

How to Order

5023-90ABC **LFP** **613**

(1) Model/Degrees/Function

5023 5024 5025	NBC	Non-Hold Open
	90ABC	90 Degrees, Automatic Hold Open
	105ABC	105 Degrees, Automatic Hold Open

Sample Order String (as shown above)

5023: 50 Double Acting Floor Closer, size 3 spring (36" wide door)
90: 90 Degree Door Swing
ABC: Automatic Hold Open
LFP: Less Floor Plate
613: 613 Finish

(2) Options (if required)

DA	Delayed Action (NHO only)
Ext. spdl (see note*)	Extended Spindles
LAP	Less All Parts
LTP	Less Top Pivot
LFP	Less Floor Plate
LCC	Less Cement Case

(3) Finish

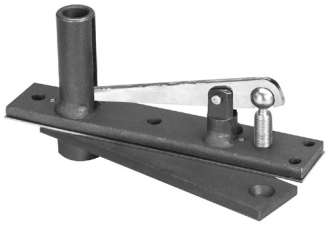
ANSI/BHMA (US)	Description
605 (US3)	Bright brass, clear coated
606 (US4)	Satin brass, clear coated
611 (US9)	Bright bronze, clear coated
612 (US10)	Satin bronze, clear coated
613 (US10B)	Antique bronze
613E (US10BE)	Dark oxidized satin bronze - equiv.
618 (US14)	Bright nickel plated, clear coated
619 (US15)	Satin nickel plated, clear coated
622 (US19)	Flat black coated
625 (US26)	Bright chrome plated over nickel
626 (US26D)	Satin chrome plated over nickel
BSP	Black suede powder coat
WSP	White suede powder coat

*Note * extended spindles are available in 1/2" increments up to 2" longer than standard. Specify 1/2", 1", 1-1/2" or 2".*

OPTIONAL CENTER HUNG TOP PIVOT

FLOOR CLOSERS

MODEL 345



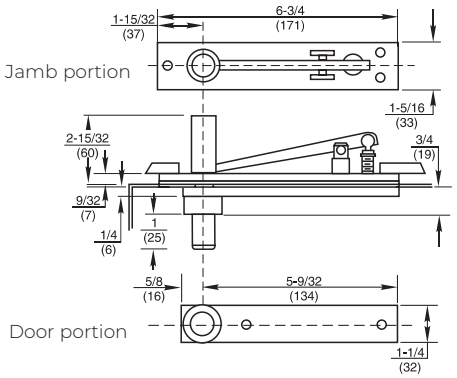
Application

- Fully Concealed
- Non-handed
- Earthquake Tolerant
- Taller Doors (8'0" to 9'0")

Features

- Center Hung
- Non-Handed
- Ideal for locations where there is a fear that dramatic building settling is possible
- Long pivot pin engages in top of door 1-3/4" (44mm).
- Can be used with any center hung floor closer. Order the closer LTP (less top pivot) and the 345 top pivot separately
- Walking beam-type pivot – 1/2" (13mm) diameter pivot pin
- Oil-impregnated sintered bronze bearing
- Completely concealed when door is closed
- Furnished with wood and machine screws

Technical Information



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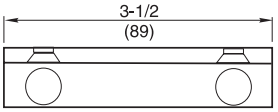
60131 LOCK EDGE APPLIED STOP

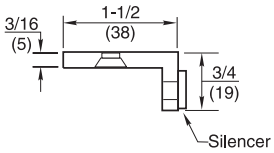
Application

For center hung doors with single acting closers. Mount to underside of frame head at the lock edge to keep doors from resting past center.



Technical Information

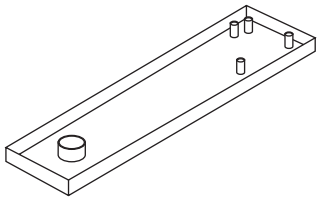




COVER PANS

Application

To ensure the aesthetics of a continuous floor line, a cover pan can be used in lieu of a closer floor plate. A cover pan is filled with flooring material (terrazzo, marble, tile, etc.) and is then placed on top of the floor closer. This allows access to the floor closer for maintenance.



Specify stainless steel or brass, exact closer being used, hand, and depth of pan. (7/8" (22mm) is standard.) Deduct cost of floor plate, add for extended spindles, and add for cover pan.

For pan depths and closer spindle information, refer to “Templates” and "Door Control Accessories". Common cover pan part numbers include:

2637	51 closer, all depths for 1-3/4" doors. Consult factory for doors greater than 1-3/4".
2807D	53 closer, all depths
2807B	50 closer x 554 flat arm, all depths
2807A	50 closer, centering arm, all depths

Any other closer models will be special layouts. Contact factory for correct product numbers and pricing.

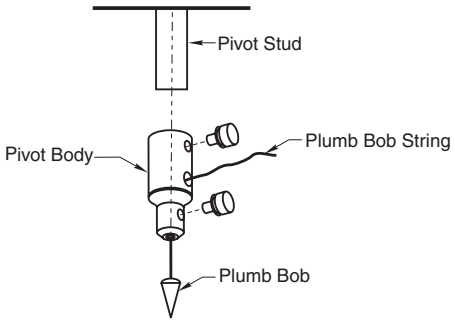
2604/2608 ALIGNMENT TOOLS

Application

- Reuseable tool ensures proper alignment of top and bottom pivot or closer
- May be used for offset or center hung installations
- Plumb line and bob not included
- Can be reused for future/additional installations
- Specify 2604 for use with the 180 offset and 340 center hung top pivots
- Specify 2608 for use with the H340 and H345 heavy-duty, center hung top pivots



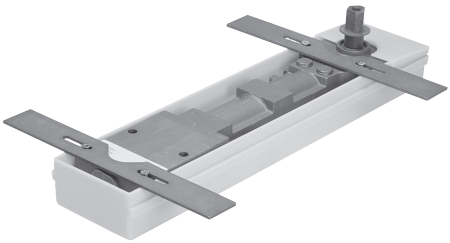
Technical Information



1855051 QUICKSPOTTER

Application

Metal straps are attached to the closer to suspend it during setting. Locator indicates proper placement of spindle. The level ensures a leveled installation.



- Spindle locator plate (for offset and center hung installations)
- Two spotter straps with leveling screws
- Bubble level
- May be used on models 50, 51, and 53
- Can be reused for future/additional installations

PRODUCT COMPARISON CHART

FLOOR CLOSERS

OFFSET HUNG	51	Q/QT51[4]	HM51[3]
Application	Standard	Surface attached bottom arm allows closer removal without demounting door	Stock hollow metal doors with standard weight 4-1/ hinge prep
3/4" offset standard	*	*	*
1-1/2" offset optional[1]	*		
Handed	*	*	*
Non-hold open	*	*	*
Automatic hold open	90°, 105° or 180°	90°, or 105°	90°, or 105°
Spring sizes	3, 4 or 5	3, 4 or 5	3, 4 or 5
Door weight	250 lbs.	250 lbs.	250 lbs.
Maximum door width	48"	48"	48"
Top pivot (included)	180 top pivot	180 top pivot	N/A
Extended spindles[2]	*	*	*
1-3/4" doors only		*	*
Options	DA, F, -20	DA, F, -20	DA, F

1. *Recommended door weight will be approx. half when 1-1/2" offset is specified*
2. *1/2" increments up to 2"*
3. *Shipped with (3) special hinges*
4. *Q: includes floor plate, QT: for threshold applications*
5. *Delayed Action only available with NHO closers*

Optional Features	Designation
Delayed Action[5]	DA
Fire-Rated	F
20 Minute Label	-20

CENTER HUNG	50	50 x 554 Arm	5020	5040
Application	Standard	Standard; concealed arm eliminates visible adjusting screws	Standard	Full glass doors
Single acting	*	*		*
Double acting			*	
Handed	*	*		*
Non-hold open	*			
Automatic hold open	90°, or 105°	90°, or 105°	90°, or 105°	90°, or 105°
Door weight	250 lbs.	250 lbs.	250 lbs.	200 lbs.
Spring sizes	3, 4 or 5	3, 4 or 5	3, 4 or 5	3, or 4
Maximum door width	48"	48"	48"	42"
Top pivot (included)	340 top pivot	340 top pivot	340 top pivot	Special top pivot
Extended spindles[1]	*	*	*	Contact factory
Options	DA	DA, W	DA, W	

** Center hung closers are not allowed on fire rated doors*
• Doors taller than 8'6", use 345 in lieu of 340 top pivot
1. *1/2" increments up to 2"*
2. *Delayed Action only available with NHO closers*

Optional Features	Designation
Delayed Action[2]	DA
Arm reinforcment bkt for Wood Doors	W

MODEL 51

RIGHT HAND SHOWN
3/4" OFFSET

(A) Pivot Stud
181770-ASY

(B) Hex Cap
181778-*

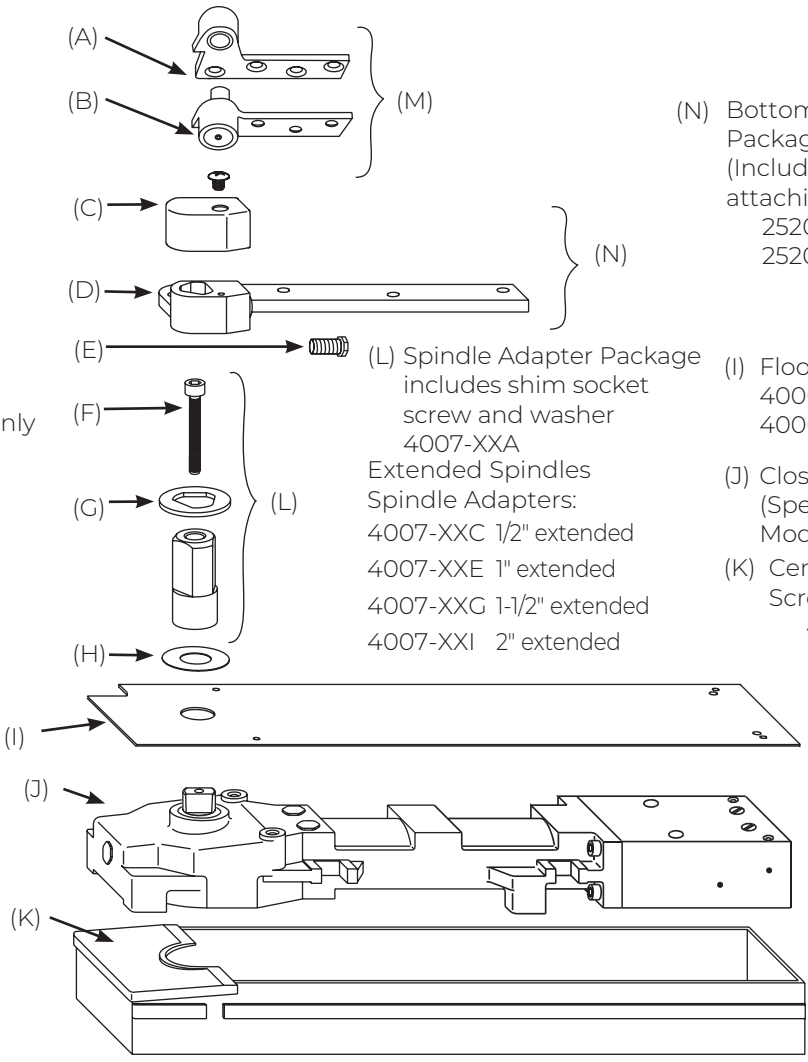
(C) Arm Cap & Screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)

(D) 3/4" Offset Arm x Locking Screw
275177 (RH)
275176 (LH)

(E) Arm Locking Screw Only
PKG (5) 88905

(G) Arm Bearing Washer
275062-PKG (5)

(H) Spindle Washer
519000-*



(M) 3/4" Offset Top Pivot Assembly
180 (standard)
F180 (fire rated up to 3 hours)
180-20 (20 minutes)

(N) Bottom Arm Package
(Includes C, D and attaching screws)
252050R* (RH)
252050L* (LH)

(L) Spindle Adapter Package includes shim socket screw and washer
4007-XXA
Extended Spindles
Spindle Adapters:
4007-XXC 1/2" extended
4007-XXE 1" extended
4007-XXG 1-1/2" extended
4007-XXI 2" extended

(I) Floor Plate with Screws
4000500R*XXE (RH)
4000500L*XXE (LH)

(J) Closer Body
(Specify Complete Model No. x LAP)

(K) Cement Case with Screws
4000301

For 51 x 1-1/2" Offset

180x1-1/2" (standard)

F180x1-1/2"
(fire rated up to 3 hours)

180-20x1-1/2"
(20 minutes)

1-1/2" Offset Arm x Locking Screw
275167-*

1-1/2" Offset Bottom Arm pkg
252060-*

**specify finish*

Screw Kits

180 Screw Kit
107014 Machine (2) Req
107114 Wood (2) Req

Arm Screw Kit
107044 Machine
107144 Wood

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107075

MODEL Q51/QT51

RIGHT HAND SHOWN
3/4" OFFSET

(A) Pivot Stud
181770-ASY

(B) Hex Cap
181778-*

(C) Arm Cap & Screw
73035R*AS (RH, BRS)
73035L*AS (LH, BRS)

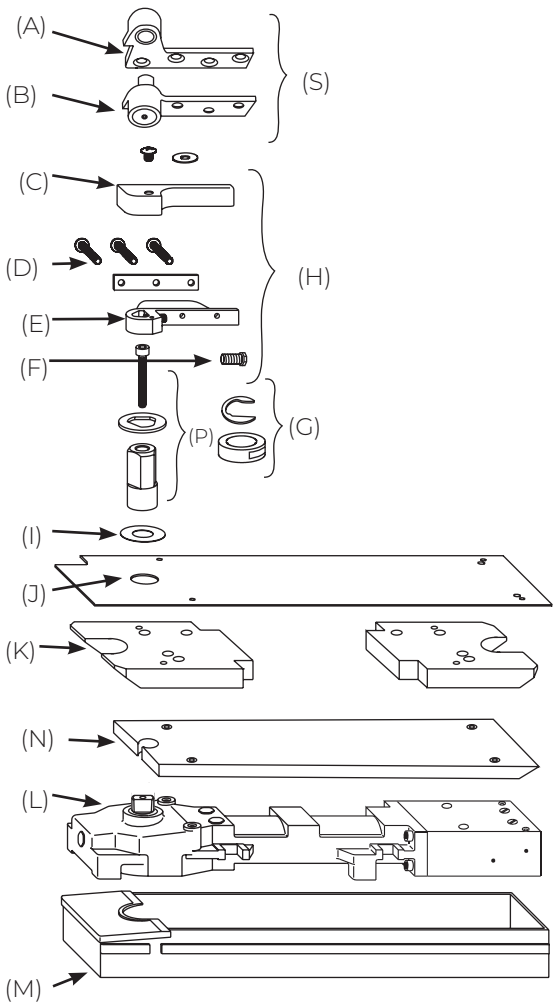
(D) Q/QT51 Arm Mounting Screws & Plate 73014-*

(E) Removable Arm
73001R-ASY (RH)
73001L-ASY (LH)

(F) Arm Locking Screw Only
88905-PKG (5)

(G) Arm Washer & Shim Package
275179
includes shim 275065 & 275178 torque washers

(I) Spindle Washer
519000-*



(S) 3/4" Offset Top Pivot
180
FL180
Fire Rated
180 - 20
20 Minute

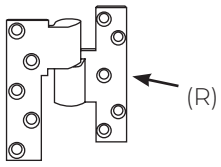
(H) Bottom Arm Package
222050R* (RH)
222050L* (LH)
(Includes C, D, E, F)

(P) Spindle Adapter Package
4007-XXC
(Includes shims, socket screw & washer)

Extended Spindles
Spindle Adapters:

4007-XXE 1/2" extended

4007-XXG 1" extended



M19 Intermediate Pivot

(R) 3/4" Offset Intermediate Pivot (1)
M19
FM19
Fire Rated
M19-20
20 Minute

Screw Kits

180 Screw Kit
107014 Machine (2) Req
107114 Wood (2) Req

Q Floor Plate Screw Kit
107010-*

Cement Case Screw Kit
107075

M19 Intermediate Pivot Screw Kit
107015 Machine (2) Req
107115 Wood (2) Req

(J) Floor Plate w/Screws
4000501R* XXE (RH), ("BC")
4000501L* XXE (LH), ("BC")

(K) Q51 Styrofoam Filler
4000023

(N) QT51 Styrofoam Filler
4000019

(L) Closer Body
(Specify complete model no. x LAP)

(M) Cement Case w/ Screws 4000301

**specify finish*

MODEL HM51

RIGHT HAND SHOWN
3/4" OFFSET

(A) Arm Cap & Screw
73025R*AS (RH)
73025L*AS (LH)

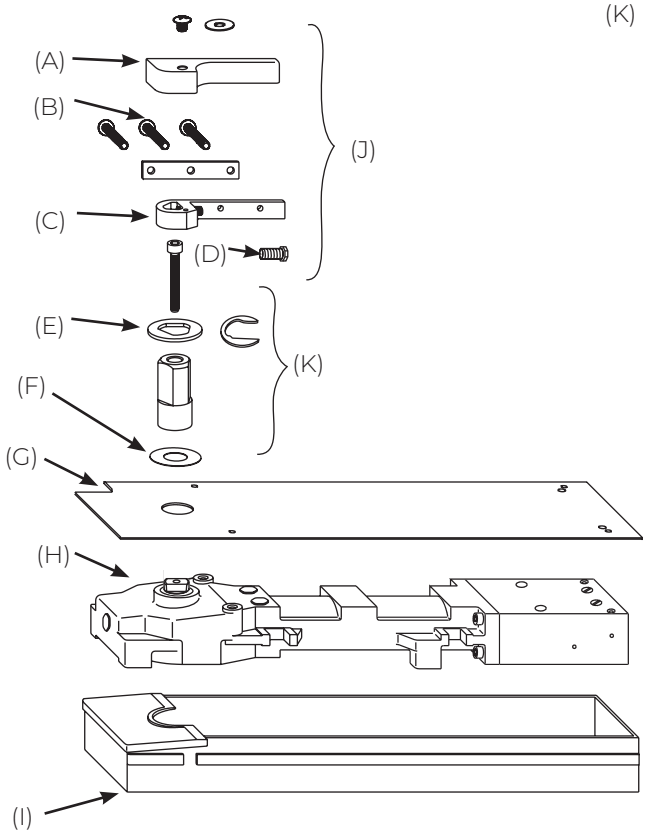
(B) HM51 Arm Mounting Screws & Plate
73014-*

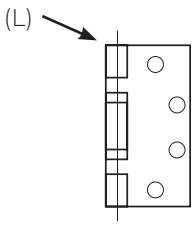
(C) Arm & Screw
73041R*AS (RH)
73041L*AS (LH)

(D) Arm Locking Screw Only
88905 - (5)

(E) Arm Bearing Washer
275062-PKG (5)

(F) Spindle Washer
519000-*





(L) Special Offset Hinges (3)
254545R*PK
254545L*PK

(J) Bottom Arm Package
222050R*HM (RH)
222050L*HM (LH)
(Includes A, B, C)

(K) Spindle Adapter Package
4007-XXA

Extended Spindles
Spindle Adapters:
(Includes shims, arm washer & socket screw)

4007-XXC	1/2" extended
4007-XXE	1" extended
4007-XXG	1-1/2" extended
4007-XXI	2" extended

(G) Floor Plate w/Screws
4000501R* XXE (RH, "BC")
4000501L* XXE (LH, "BC")

(H) Closer Body
(Specify complete model no. x LAP)

(I) Cement Case with Screws
4000301

Screw Kits

Floor Plate Screw Kit
107004-*
Cement Case Screw Kit
107075
Hinge screw kit
107519-*

**specify finish*

MODEL F53 AND F5310

(A) Door Rail
327006

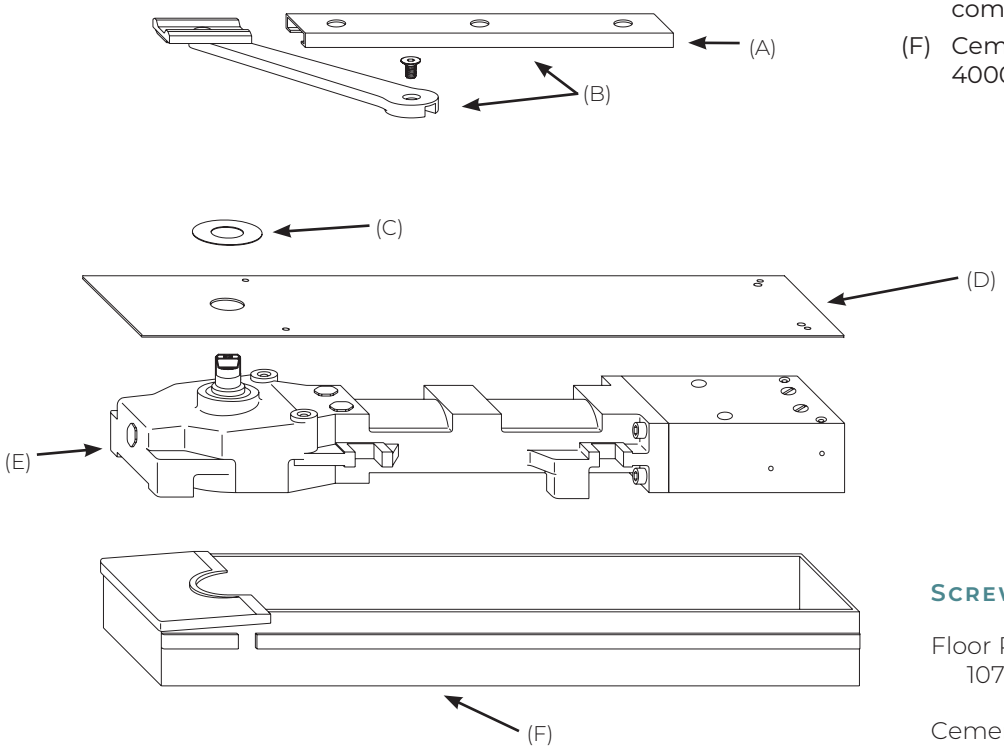
(C) Spindle Washer
519000-*

(B) Bottom arm package
3252010-*

(D) Floor Plate with screws
4000600-*XXA
4000600-*XXE ("BC")

(E) Closer Body (specify complete model no. LAP)

(F) Cement case with screws
4000301



Screw Kits

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107075

Slide Track Screw Kit
107033

Spindle Adapter Package
includes socket screw

Extended Spindle Adapters

4009-*XXC	1/2" extended
4009-*XXE	1" extended
4009-*XXG	1-1/2" extended
4009-*XXI	2" extended

*specify finish

MODEL 50 AND 5020

(A) Jamb Portion
3065

(B) Finish Plate
012202-*PK(BRS)
012204-*PK(SS)

(C) Door Portion
30243

(D) W28 Wood Door Plate/Shim Pkg
107066
(Includes E and F)
Wood door arm pkg.
282126
(Includes D and G)

(E) Arm Plate Shims (.062)
46045-PKG (5)
Arm Plate Shims (.187)
46145-PKG (5)

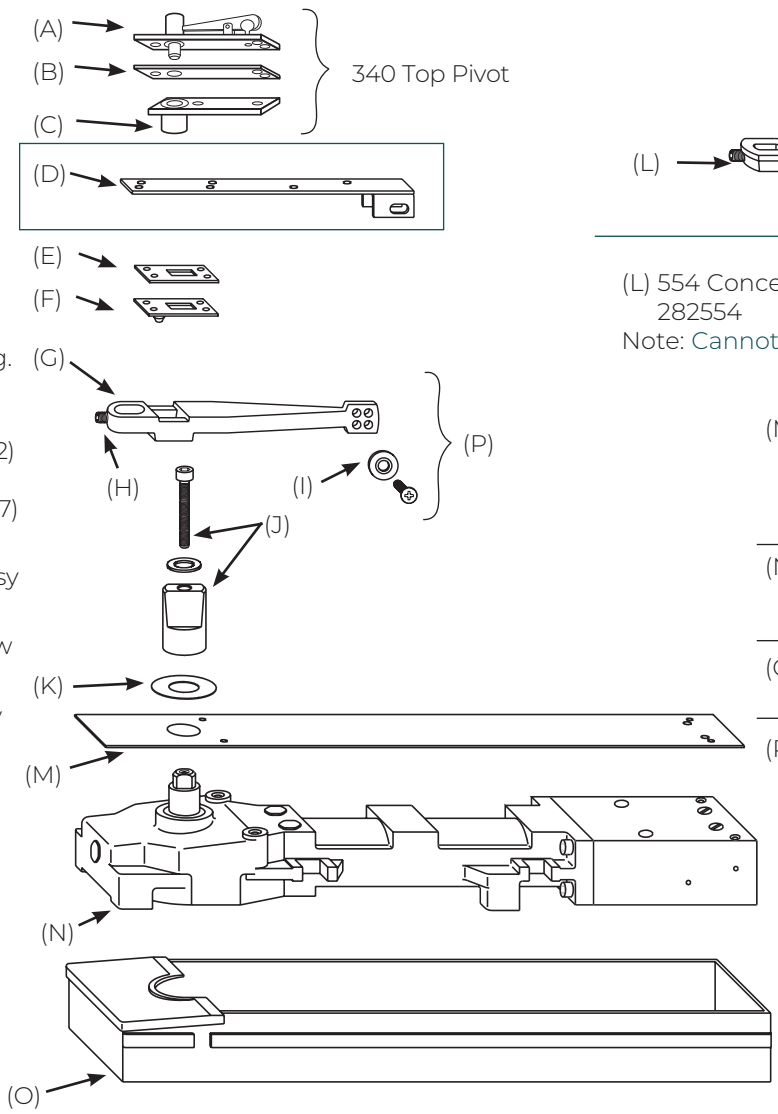
(F) Arm Plate & Stud Assy
46445

(G) Arm & Arm Set Screw
282026

(H) Arm Set Screw Only
26087-PKG (5)

(I) Arm Alignment Screw & Washer
107032-*

(K) Spindle Washer
519000-*





(L) 554 Concealed Arm Package
282554
Note: Cannot be used on model 5020

(M) Floor Plate with Screws
4000600-*XXE
4000600-*XXE (“BC”)
4000600-*XXI (“DA”)

(N) Closer Body
(Specify Complete Model No. x LAP)

(O) Cement Case with Screws
4000301

(P) Bottom Arm Package
282026-*
(Includes H, G and I)

(J) Spindle Adapter Package
4010-XXA
(Includes socket screw & shim)

Extended Spindles
Spindle Adapters

4010-XXC 1/2" extended
4010-XXE 1" extended
4010-XXG 1-1/2" extended
4010-XXI 2" extended

Screw Kits

554 Arm Screw Kit
107064
Floor Plate Screw Kit
107004-*
Cement Case Screw Kit
107075
340 Screw Kit
107329 Machine
& Wood
Arm Screw Kit
107048 Machine
107144 Wood

*specify finish

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MODEL 5040

RIGHT HAND SHOWN
3/4" OFFSET

(A) Jamb Portion
42801

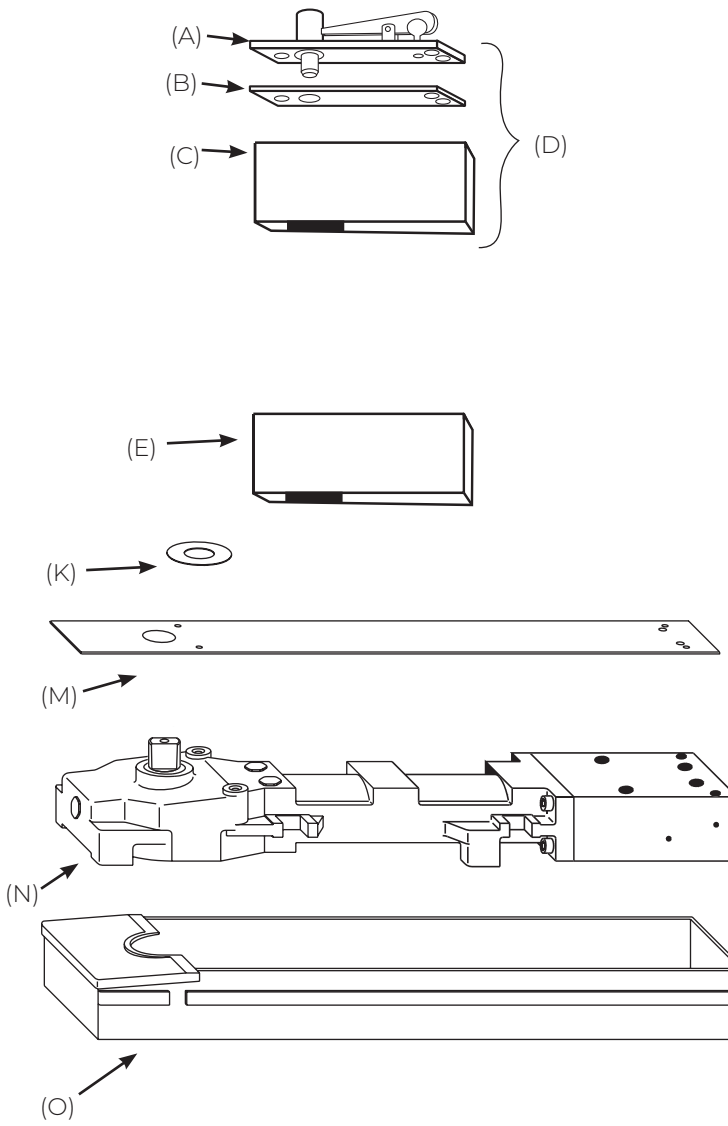
(B) Finish Plate
012202-*PK (BRS)
012204-*PK (SS)

(C) Patch Filling
7495-*

(J) Bottom Pivot Insert
74101

(L) Top Pivot Insert
74102

(K) Spindle Washer
519000-*



(D) Top Patch
7494* PK
(Includes C and L)

(M) Floor Plate with Screws
4000600-*XXE ("BC")

(N) Closer Body
(Specify Complete
Model No. x LAP)

(O) Cement Case with Screws
4000301

(E) Bottom Patch
7495*PK
(Includes C and J)

Screw Kits

Floor Plate Screw Kit
107004-*

Cement Case Screw Kit
107075

340 Screw Kit
Machine & Wood
107329

**specify finish*

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43507-02/26

CATALOG

DOOR CONTROL ACCESSORIES

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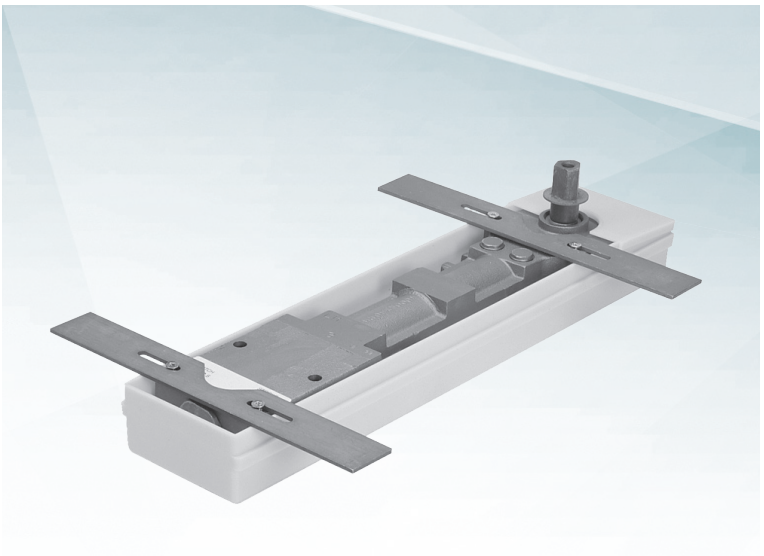
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Special Condition Accessories and Installation Aids to Give the Owner the True Benefit of Using Floor Closers and Pivots







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79501 Cement Case (use with shallow floors) 4
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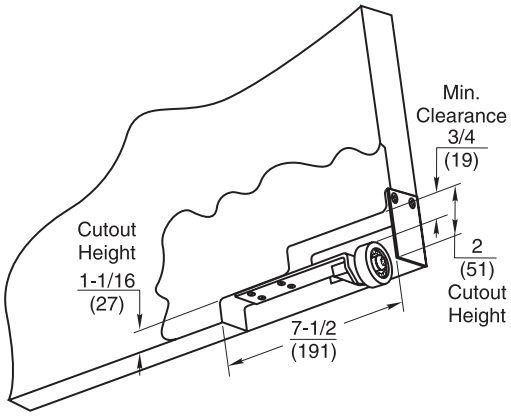
10600, 10602 CASTERS

Application

- Casters are required for all doors over 5' wide that are pivoted near the heel edge of the door
- For doors weighing up to 730 lbs., specify model 10600 (single roller)
- For doors weighing up to 1500 lbs., specify model 10602 (double roller)
- Metal doors minimum1-3/4" thickness
- Wood doors minimum 2-1/4" thickness
- Three 1/16" shim plates included for adjustment after door is installed
- Optional end cap to finish off edge of door 10600-019
- Hollow metal mounting plate available
- For low frequency usage
- For interior door installations
- For pivot doors only
- Patented



Technical Information



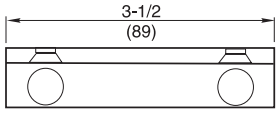
60131 LOCK EDGE APPLIED STOP

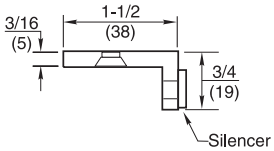
Application

For center hung doors with single acting closers. Mount to underside of frame head at the lock edge to keep doors from resting past center.



Technical Information





SPECIAL CEMENT CASES

DOOR CONTROL ACCESSORIES

For Exterior Expansion Joints or Between Slab Applications

1101 CEMENT CASE

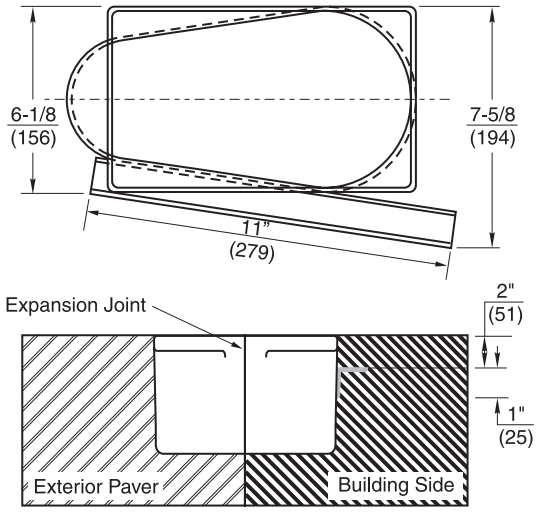
Application

At expansion joints, angle is applied to one side of a cast iron cement case allowing it to anchor to interior slab. Outside edge of slab independent of exterior slab.

To be used with 27 or 28 closers. Not recommended for L or H series - extra heavy duty models. Specify hand or door swing.



Technical Information



For Shallow Depth Floors

79501 HEAVY-DUTY CEMENT CASE

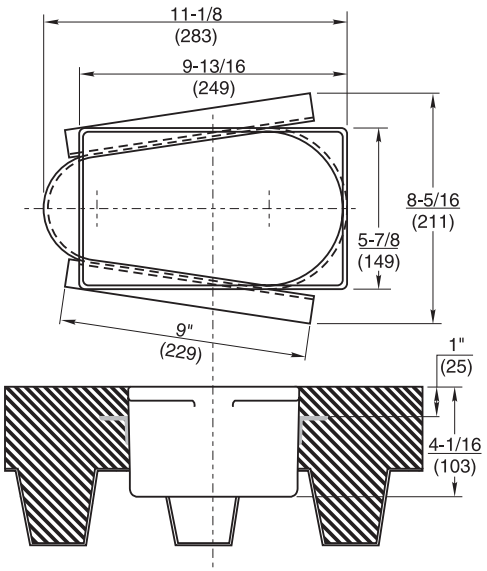
Application

When a shallow concrete floor (less than 4-1/2") presents installation difficulties, there is no need to sacrifice proper door control. Heavy-duty closers (27 and 28) that are normally furnished with cycolac cases may be ordered with metal cases that have steel angles welded to the sides. For 30 or 40 series closers, contact factory.

Not recommended for L or H series - extra heavy duty models. When concrete is poured, the only concern is that the angles be stable.



Technical Information



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25304, 25204 TWIN CEMENT CASES

Application

27 closers cannot be mounted back-to-back where space between doors is less than 2-7/8" (73mm), without modification.

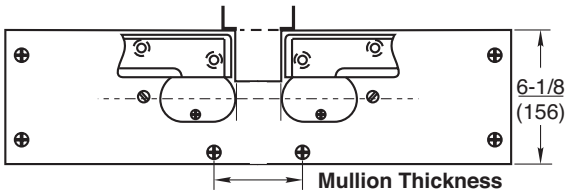
- For applications that have a 2" (51mm) mullion separating the offset closers, specify a 25304 Twin Cement Case
- For applications that have a 1-3/4" (48mm) mullion separating the offset closers, specify a 25204 Twin Cement Case

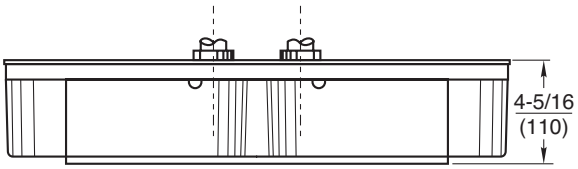
Closers are also modified.

When a twin cement case is ordered, mullion width must be indicated. Both closers and cement cases must be ordered at the same time. Field modification to standard product is not possible.



Technical Information





COVER PANS

Application

To ensure the aesthetics of a continuous floor line, a cover pan can be used in lieu of a closer floor plate. A cover pan is filled with flooring material (terrazzo, marble, tile, etc.) and is then placed on top of the floor closer. This allows access to the floor closer for maintenance.

Specify stainless steel or brass, exact closer being used, hand, and depth of pan. (7/8" (22mm) is standard.) Deduct cost of floor plate, add for extended spindles, and add for cover pan.

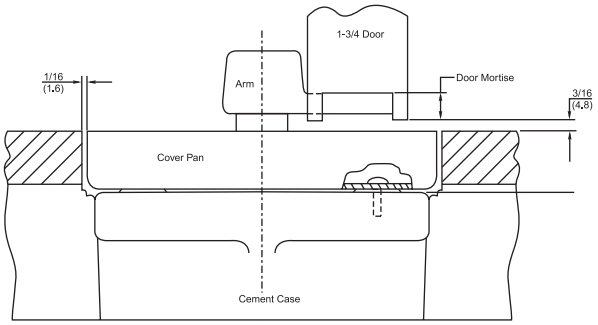
For pan depths and closer spindle information, refer to “Templates” and "Door Control Accessories". Common cover pan part numbers include:

846	27 closer, all depths for 1-3/4" doors. Consult factory for doors greater than 1-3/4".
3910	L27 closer, all depths for 1-3/4 doors. Consult factory for doors greater than 1-3/4.
2237	28 closer x 554 flat arm, all depths
841	28 closer, centering arm, all depths
841B	H28 closer and H28 x 587 arm
2637	51 closer, all depths for 1-3/4" doors. Consult factory for doors greater than 1-3/4".
2807D	53 closer, all depths
2807B	50 closer x 554 flat arm, all depths
2807A	50 closer, centering arm, all depths

Any other closer models will be special layouts. Contact factory for correct product numbers and pricing.



Technical Information



Note: Closers that are "buried" under floor materials, that do not have Norton Rixson cover pans, will not be covered by warranty.

INSTALLATION TOOLS
DOOR CONTROL ACCESSORIES

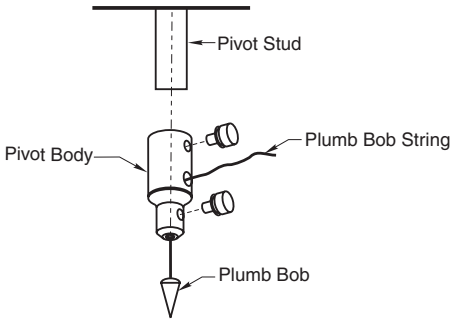
2604/2608 ALIGNMENT TOOLS

Application

- Reuseable tool ensures proper alignment of top and bottom pivot or closer
- May be used for offset or center hung installations
- Plumb line and bob not included
- Can be reused for future/additional installations
- Specify 2604 for use with the 180 offset and 340 center hung top pivots
- Specify 2608 for use with the H340 and H345 heavy-duty, center hung top pivots



Technical Information

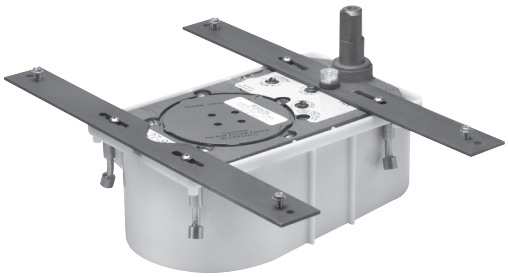


1859001 QUICKSPOTTER

Application

Metal straps are attached to the closer to suspend it during setting. Locator indicates proper placement of spindle. The level ensures a leveled installation.

- Spindle locator plate (for offset and center hung installations)
- Two spotter straps with leveling screws
- Bubble level
- May be used on Models 27, 28, 30, 40
- Can be reused for future/additional installations
- For Q27 specify model 1859501 Quickspotter

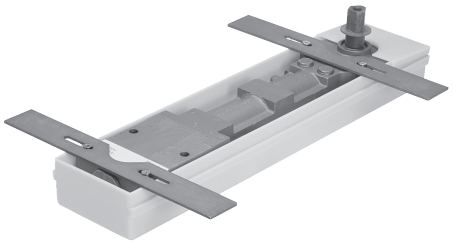


1855051 QUICKSPOTTER

Application

Metal straps are attached to the closer to suspend it during setting. Locator indicates proper placement of spindle. The level ensures a leveled installation.

- Spindle locator plate (for offset and center hung installations)
- Two spotter straps with leveling screws
- Bubble level
- May be used on models 50, 51, and 53
- Can be reused for future/additional installations



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44039-07/25

CATALOG

ELECTRIFIED CLOSERS AND HOLDERS

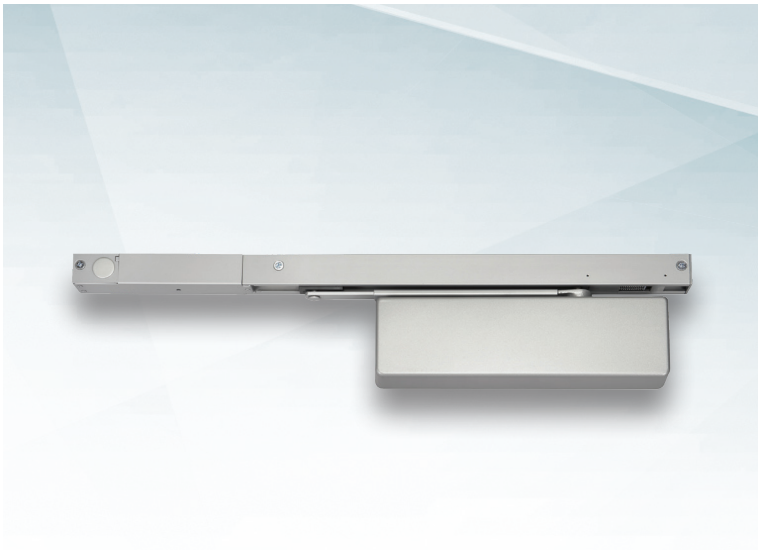
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7100SZ SAFEZONE®

ELECTRIFIED CLOSERS AND HOLDERS

NORTON RIXSON
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INTRODUCTION

The 7100 Series SafeZone® door closer safeguards occupants throughout a variety of facilities with the detection of movement through doorways and intelligent door control functions. A multi-point electromechanical closer with a programmable motion sensor allows the door to open manually and remain open when one or more people travel through the opening.



FEATURES

- Multi-point, electromechanical closer/holder
- Sensor detects movement in both directions
- Selectable hold open time and sensitivity
- Push or pull side mounting
- Handed units
- Spring sizes 3, 4 or 5 (models 7110SZ and 7150SZ); Spring sizes 2, 3, 4 or 5 (models 7120SZ and 7130SZ)
- Fail safe operation
- Optional dual sensor
- Door weight 250 lbs.
- 2-year limited warranty

BENEFITS

- Energy savings realized by power engaging only when motion is detected
- Extends door life and minimizes wear and tear on hardware by limiting unnecessary cycles

CERTIFICATIONS

- CAL FIRE, 3550-0944:0112
- Models 7122SZ, 7132SZ, 7113SZ and 7153SZ meet requirements for Americans with Disabilities Act (ADA) and ANSI A117.1
- Environmental Product Declaration (EPD)
- UL10C positive pressure up to 3 hours
- UL-cUL listed
- Manufactured in an ISO 9001, ISO14001 facility

PATENTS

- assaabloydss.com/patents

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7100SZ SAFEZONE®
ELECTRIFIED CLOSERS AND HOLDERS

SPECIFICATIONS

Manufacturer: Door closers for both interior and exterior openings are to be the product of a single source manufacturer.

Electromechanical closer units to be a multi-point, closer/holder type with selective hold open positioning achieved by electronic solenoid locking of closer arm slide into the track assembly. Closer/holder units to have a maximum opening of 180° (hold open to 175°) and are fail safe to close the door in the event of electrical power interruption.

SafeZone Detection: Closer/holders units to have an integral sensor device monitoring a “zone of safety” at the door opening. SafeZone detection prevents the door from closing in the event of movement within the adjustable sensing field. Movement is detectable in both directions with selectable closer hold open time and sensor sensitivity.

Mechanical closer to be hydraulic type with full rack and pinion construction enclosed in a cast aluminum alloy shell. Internal hydraulic fluid is to be non-gumming and non-freezing. Include two non-critical valves to independently regulate sweep and latching speeds and an adjustable backcheck cushioning valve. All valves are adjustable by hex key. Provide spring power adjustment permitting a 50% increase in closing power over the minimum closing force for any closer size.

Mounting: Closer units can be surface mounted to the frame face for application on the pull (hinge side) side of door, or soffit mounted on the push side of the door frame with projection of no more than 2-5/8" (67mm) from the frame face. Frame face must be a minimum 2" and ceiling clearance a minimum of 4". Door must be hung on either butt hinges or 3/4" offset pivot hinges, minimum 1-3/4" to 2-1/4" thickness.

Installation: Provide optional handheld remote device for programming SafeZone sensor settings. Auxiliary door stops are recommended at closer/holder openings and required at doors opening beyond 110°. Interior installation only.

Power: Closer units operate on (120VAC , 60Hz) or (24VDC) with an amperage draw not exceeding (.086 Amps for 24VDC) (.051 Amps for 120VAC). Supplier to coordinate electrical requirements with electrical and alarm system engineers. Field wiring (and conduit) by others.

Electromechanical SafeZone Closer/Holder to be Norton Rixson 7100SZ Series.

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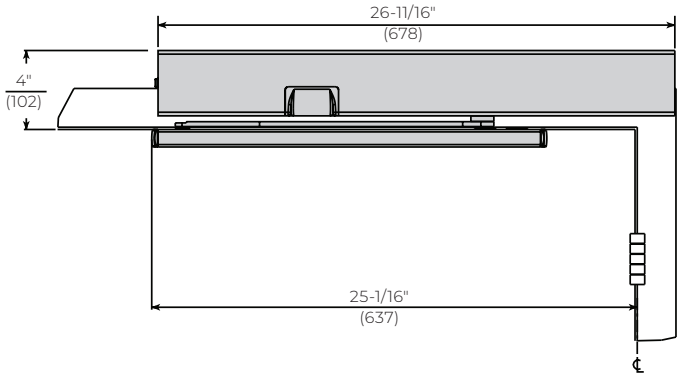
PULL SIDE

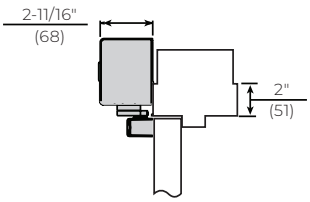
- Surface mounted to the pull (hinge) side frame face
- Slide track mounts directly to door
- Minimum 4" ceiling clearance required
- 1/8" (3mm) – maximum frame reveal
- Handed
- Standard units accommodate doors opening 180°; maximum 175° hold open (110° maximum for 7150SZ series).
- Buffer block assembly in the track will accommodate doors opening to 125°
- Auxiliary door stop is required for doors opening beyond 125°
- Fail Safe – solenoid will de-energize in the event of power failure
- Accommodates either concealed or surface wiring
- Selective hold open
  - Standard on all units (can be disengaged)
  - Activates the viewing sensor only when the door opens beyond a specific angle
  - Once the door is manually opened past the set point, SafeZone holds the door until movement is no longer detected
  - If the door is not opened to the predetermined opening angle, SafeZone operates like a regular door closer and simply closes the door
- NorGlide® closer fluid



7110SZ Shown

TECHNICAL DETAILS





Minimum door width = 28" (71cm)

Deep reveals

- Special slide arm is available for reveals in excess of 1/8" (3mm) up to 3" (76mm) 7150SZ Series
- 110° maximum door swing

DOOR SIZE

Maximum Door Size (cm)	Model Number	Model Number – Deep Reveal
40" (102)	7113SZ	7153SZ
44" (112)	7114SZ	7154SZ
48" (122)	7115SZ	7155SZ

ELECTRICAL DATA

Series Number	Operating Voltage (Input)	No. Power Input Lines* (Pairs)	Amperage Draw
			Solenoid Coil
7110SZ 7150SZ	24VDC	1	.070 @ 24VDC
	120VAC		.035 @ 120VAC

* Max/min operating voltage parameters +10% / -15%.

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7100SZ SAFEZONE®

ELECTRIFIED CLOSERS AND HOLDERS

PUSH SIDE

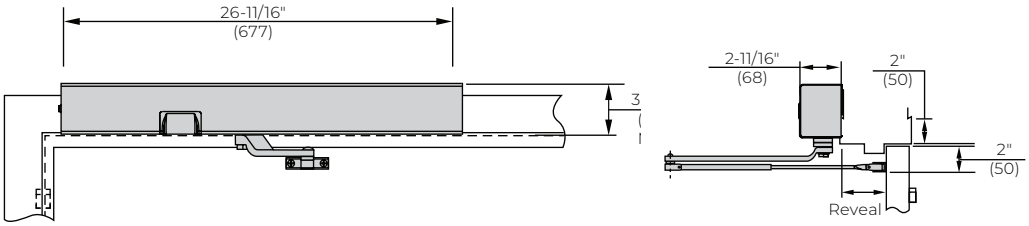
- Surface mounted to the push (stop) frame face
- Double lever arm mounts directly to the door
- Minimum 4" (102mm) ceiling clearance required
- Handed
- Standard units accommodate doors opening 180°; maximum 175° hold open
- Fail safe – solenoid will de-energize in the event of power failure
- Accommodates either concealed or surface wiring
- Selective hold open
  - Standard on all units (can be disengaged)
  - Activates the viewing sensor only when the door opens beyond a specific angle
  - Once the door is manually opened past the set point, SafeZone holds the door until movement is no longer detected
  - If the door is not opened to the predetermined opening angle, SafeZone operates like a regular door closer and simply closes the door
- NorGlide® closer fluid



7120SZ Shown

TECHNICAL DETAILS

Note: for applications with narrow top rails or limited ceiling clearance, a special drop angle bracket is required. See page 7.



DOOR SIZE

Maximum Door Size (cm)	Model Number	Maximum Degree of Opening	Reveal Range (Inches/mm)
ADA	7122SZ	180°	2-3/4" - 4" (70-102)
		165°	4"-7" (102-178)
	7132SZ	180°	
40" (102)	7123SZ	180°	2-3/4" - 4" (70-102)
		165°	4"-7" (102-178)
	7133SZ	180°	
44" (112)	7124SZ	180°	2-3/4" - 4" (70-102)
		165°	4"-7" (102-178)
	7134SZ	180°	
48" (122)	7125SZ	180°	2-3/4" - 4" (70-102)
		165°	4"-7" (102-178)
	7135SZ	180°	

ELECTRICAL DATA

Series Number	Operating Voltage (Input)	No. Power Input Lines* (Pairs)	Amperage Draw
			Solenoid Coil
7110SZ 7150SZ	24VDC	1	.070 @ 24VDC
	120VAC		.035 @ 120VAC

* Max/min operating voltage parameters +10% / -15%.

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CLOSER BODIES

Description	Mounting	Hand	Part Number
Closer bodies	Push or pull	Left	720XLAP24L
		Right	720XLAP24R

ARM & TRACK ASSEMBLIES

Description	For Series	Part Number
Slide track	7110SZ, 7150SZ	7100-1T
Slide arm	7110SZ	7110-1A
Double lever arm	7120SZ	7701-1A
Double lever arm	7130SZ	7701-1B
Double egress arm - left hand	7150SZ	7150-1L
Double egress arm - right hand		7150-1R

TRACK & ARM PARTS

Description	Part Number
Slider assembly	2800SLD
Cushion block	7100CB

COVERS

Description	Part Number
Left hand (for LH pull OR RH push units)	7100CL
Right hand (for RH pull OR LH push units)	7100CR

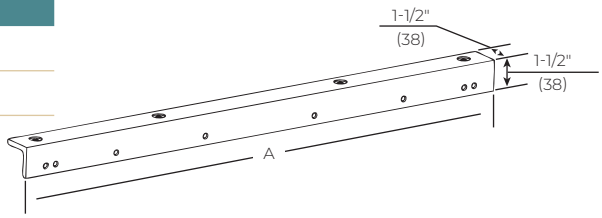
MISCELLANEOUS PARTS

Description	Part Number
Power supply (120V only)	7100PS
Remote	7100REM
Selective hold open switch assembly 24V	SHOK
Sensor kit	7100SK



7100SK

Description	Part Number	A (Length)
Drop angle bracket	7100DAB	26-9/16" (675)
	7100DAB-180	24-7/16" (621)



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7100SZ SAFEZONE®
ELECTRIFIED CLOSERS AND HOLDERS

HOW TO ORDER

Note: All transmitters (door switches or key fob) must be ordered separately.

71 | **1** | **4** | **SZ** | **X** | **HAND** | **X** | **VOLTAGE** | **X** | **FINISH**

71 – 7100 Series

1 – Specifies side of door unit is mounted on and the type of arm

4 – Closer Size

SZ –
- **SZ** – Standard unit
- **SZ x DZ** – Unit with secondary sensor

HAND –
- **RH** – Right hand
- **LH** – Left hand

VOLTAGE –
- **120VAC**
- **24VDC**

FINISH – See finishes table below

Closer Size	
Slide Arm & Track	**Maximum Door Size**
"3"	ADA
"4"	44"
"5"	48"
Double Lever Arm	**Maximum Door Size**
"2"	ADA
"3"	40"
"4"	44"
"5"	48"

Specifies side of door unit is mounted on and the type of arm

Pull Side
- **"1"** – Rigid slide arm & track; maximum reveal 1/8" (3mm)
- **"5"** – Double egress slide arm & track; reveals 1/8"-3" (3-76mm) to 110°

Push Side
- **"2"** – Double lever arm; reveals 2-3/4"-4" (70-120mm) to 180°, reveals 4"-7" (102-179mm) to 165°
- **"3"** – Double lever arm; reveals 4"-7" (102-179mm) to 180°

FINISHES

Product will be sprayed with a combination of waterborne acrylic and polyester powder coat.

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

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7200 SERIES

ELECTRIFIED CLOSERS AND HOLDERS

INTRODUCTION



The 7200 Series Electromechanical Closer/Holders combine the functions of an electromechanical door holder with the 7700 series door closer.

The 7200MPSO (support units) consists of an on-board power supply (for 120VAC input option) or a terminal strip (for 24VDC input option) and a door closer assembly with internal electrohydraulic holder capability. This unit (120VAC or 24VDC) is intended to control a single door or a pair of doors where the building's alarm system monitors the power to the Support Unit (24VDC input.).

Executive™ units (RFS suffix) consists of an on-board power supply (for 120VAC input option) or a terminal strip (for 24VDC input option), a 433MHz radio frequency receiver and a door closer assembly with internal electro-hydraulic holder capability. Unit is intended to provide remote wireless release of a door that has been manually placed into the electrified hold open position. Not intended for use in life safety applications.

FEATURES

- Multi-point hold open
- Fixed spring sizes 3, 4, or 5
- Push or pull side mounting (frame mounted)
- Adjustable sweep and latch speed valves
- Handed
- Adjustable backcheck cushioning and position valve
- Selective hold open (SHO) allows door to hold open at any degree of opening beyond a pre-set hold open point, up to 175°
- Metal covers
- Fail safe: solenoid will de-energize in the event of power failure
- Concealed or surface wiring
- Minimum 4" ceiling required
- Auxiliary door stop is required for doors opening beyond 125° (pull side mounting)
- NorGlide® closer fluid
- Door Weight:
  - Models 7210, 7250, 7220, 7230, 7240 - 250 lbs.
  - Model 7290 - 200 lbs.
- 2-year limited warranty

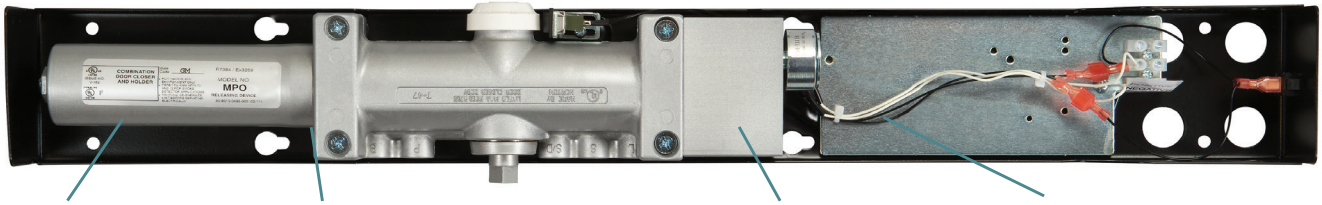
BENEFITS

- Adjustable hold open position allows application flexibility
- Connected free swing arm option allows door to be held open at any degree
- Doors automatically close if activated by fire alarm

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7200 SERIES
ELECTRIFIED CLOSERS AND HOLDERS

OVERVIEW



CERTIFICATIONS

- UL10C positive pressure up to 3 hours
- UL-cUL listed
- Manufactured in an ISO 9001, ISO 14001 facility
- Environmental Product Declaration (EPD)

SPECIFICATIONS

Closer for _____ doors shall be electromechanical and completely enclosed in a metal cover. Units shall be surface mounted to the frame face [on the pull (hinge side) or the push (opposite hinge side)] of the door [and shall project no more than 2-11/16" (68mm) from the surface of the frame]. (Closer shall be installed in the header of the frame, and the slide track mortised into the door's top rail). Closer unit shall be hydraulic, full rack and pinion type with a cast aluminum alloy shell. Hydraulic fluid shall be non-gumming and non-freezing. Closer unit shall have two noncritical valves to independently regulate closing and latch speed. It shall also have an adjustable backcheck with a hex-key. Closer unit shall have spring power adjustment to permit a 50% increase in closing power over the minimum closing force for any size. Electromechanical Closer shall have (Infinite) (Selective) Hold Open (Free Swing Operation) and shall be able to attain a maximum opening of 180° (with hold open to 175°). Unit to be fail safe and must close the door during any electrical power interruption to the unit. (Closer/Holder to be Executive Door Holder/Release with release actuated by battery operated hand-held controller). Unit(s) to operate on (120VAC, 60Hz) (24VDC) and will accept (surface) (concealed) wiring. Amperage draw shall not exceed (.105 Amps for 24VDC) (0.46 Amps for 115VAC) units. Supplier to coordinate electrical requirements with electrical and alarm system engineers. Wiring (and conduit) by others.

Electromechanical Units to be Norton Rixson Series 7200 (Closer/Holder), (Free Swing Releasing Device), (Executive Door Holder/Release).

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7200 SERIES
ELECTRIFIED CLOSERS AND HOLDERS

EXPLANATION OF FEATURES

Aluminum Alloy Housing
Closer bodies are constructed of a special aluminum alloy, carefully selected to accommodate interactive steel components and operating conditions.

Rack & Pinion Operation
Provides a smooth constant control of the door through its full opening and closing cycle.

Spring Sizes
Specify closer size 3, 4 or 5. Size 6 available with 7290 overhead concealed units.

Sweep Speed Control Valve
Allows adjustment of door speed from the door's full open position down to approximately 10° from the closed position.

Latch Speed Control Valve
Allows adjustment of door speed from approximately 10° down to the door's fully closed position.

Adjustable Backcheck Cushioning
Provides control of the door in the opening cycle, beginning at approximately 75° of door opening. It slows/cushions the door opening, when the door is forcibly opened beyond its pre-adjusted limits.

Closer Fluid
NorGlide® closer fluid is a specially formulated multi-viscosity hydraulic fluid that contains lubricity and anti-oxidation agents that provide optimum performance and efficiency. This fluid complements the interaction of the door closer's aluminum housing with its steel and brass components, while maintaining stable viscosity to allow the door closer to perform in temperatures ranging from extremely high to as low as -40° F.

Adjustable Backcheck Position Valve
Allows the door opening position, where backcheck cushioning begins, to be adjusted to a greater door angle, up to a maximum of 20° farther (approximately 95°).

Handed
Specify right or left hand when ordering.

Selective Hold Open (standard)
The door will hold open at any degree of opening beyond a pre-set hold open point, up to 175°, with a maximum allowable door opening of 180° (exception series 7250 at 110°).

Infinite Hold Open
The door will hold open at any degree of opening up to 175°, with a maximum allowable door opening of 180° (exception series 7250 at 110°). Can be set in the field by turning cam.

Fail Safe
In the event of a power failure, the solenoid will de-energize and the closer/holder will then operate as a normal door closer.

Wiring Option
All 7200 series electromechanical closer/holders will accommodate either concealed or surface wiring.

Selective Hold Open Switch and Cam:
The selective hold open starting point is determined by a switch and adjustment cam assembly. The cam is attached to the upper pinion shaft by means of a machine screw. As the door is opened, the pinion shaft will rotate the cam and operate the switch to the "on" position to initiate hold open. When the door is closed, the pinion cam will operate the switch to the "off" position. The cam is factory set to operate at 80° of door opening. The cam can be easily field adjusted to operate at virtually any degree of door opening.

Warranty
2-year limited warranty

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7200 SERIES
ELECTRIFIED CLOSERS AND HOLDERS

SUPPORT UNITS

7210/7250

- Surface mounted to the pull (hinge) side frame face
- Slide track mounts directly to door
- Minimum 4" ceiling clearance required
- 1/8" (3mm) – standard frame. For deeper reveals, a special slide arm is required (see chart below)
- Handed
- Standard units accommodate doors opening 180°; maximum 175° hold open
- Buffer block assembly in the track will accommodate doors opening to 125°
- Auxiliary door stop is required for doors opening beyond 125°
- Units shipped selective hold open; infinite hold open can be set in the field
- Fail safe – solenoid will de-energize in the event of power failure
- Accommodates either concealed or surface wiring

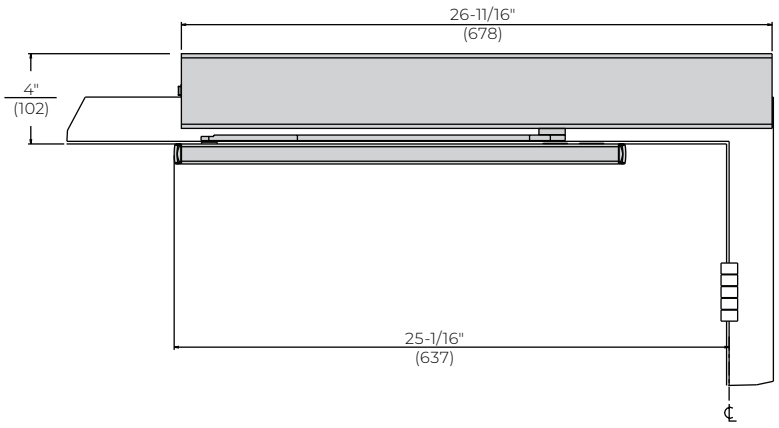


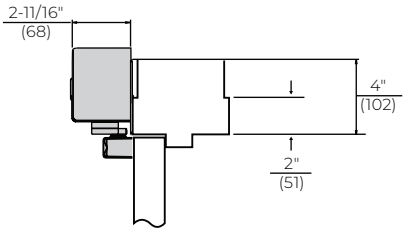
7210MPSO Shown

Single Door:

- **Executive™ Door Holder/Release:** both series 7210RFS or 7250RFS are self-contained and can be installed to control a single door

TECHNICAL DETAILS





Note: **Deep reveals**

- Special slide arm is available for reveals in excess of 1/8" (3mm) up to 3" (76mm) 7250MPSO series
- 110° maximum door swing

DOOR SIZE

Maximum Door Size (cm)	Model Number		
	Standard Reveal (to 1/8" (3mm) reveal)		Deep Reveal (see note)
40" (102)	7213MPSO	7213RFS	7253MPSO
44" (112)	7214MPSO	7214RFS	7254MPSO
48" (122)	7215MPSO	7215RFS	7255MPSO

*Max/min operating voltage parameters +10% / -15%

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7200 SERIES
ELECTRIFIED CLOSERS AND HOLDERS

SUPPORT UNITS

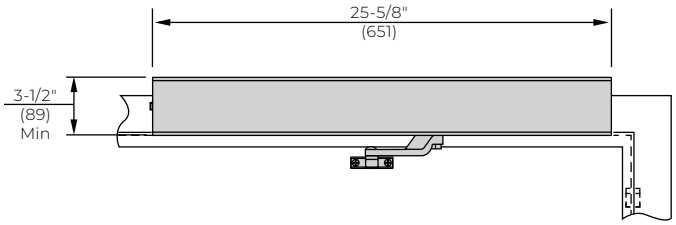
7220/7230

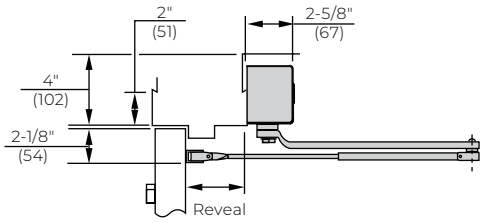
- Surface mounted to the push (stop) frame face
- Double lever arm mounts directly to the door
- Minimum 4" (102mm) ceiling clearance required
- Handed
- Standard units accommodate doors opening 180°; maximum 175° hold open
- Units shipped selective hold open; infinite hold open can be set in the field
- Fail safe – solenoid will de-energize in the event of power failure
- Accommodates either concealed or surface wiring



7220MPSO shown

TECHNICAL DETAILS





Note: for applications with narrow top rails or limited ceiling clearance, a special drop angle bracket is required. See page 16.

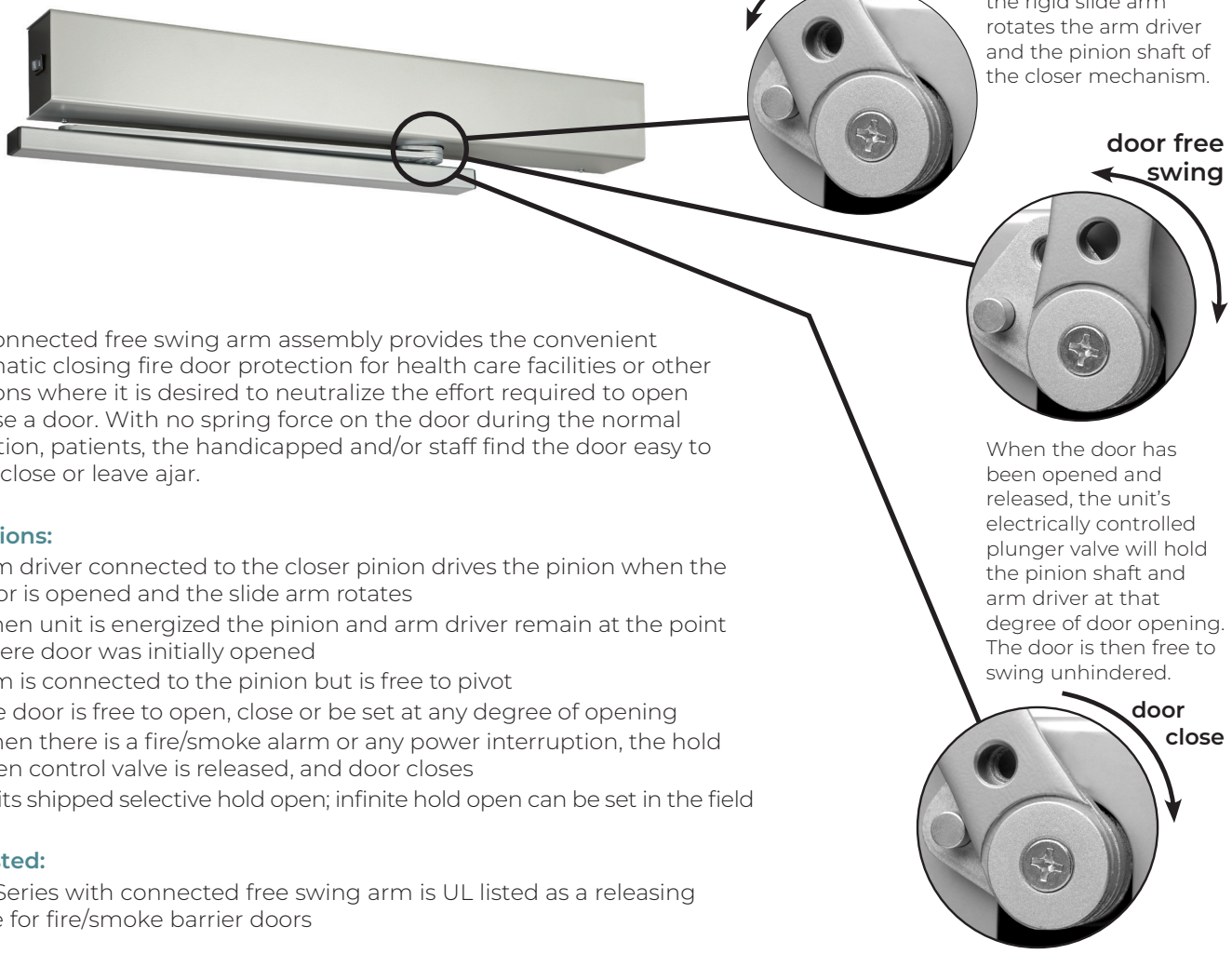
DOOR SIZE

Maximum Door Size	Model Number		Maximum Degree of Opening	Reveal Range (Inches/ mm)
42" (107)	7223MPSO	7223RFS	180°	2-3/4" - 4" (70 - 102)
			165°	4" - 7" (102 - 178)
	7233MPSO	7233RFS	180°	
48" (122)	7224MPSO	7224RFS	180°	2-3/4" - 4" (70 - 102)
			165°	4" - 7" (102-178)
	7234MPSO	7234RFS	180°	

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7200 SERIES
ELECTRIFIED CLOSERS AND HOLDERS

7240 CONNECTED FREE SWING ARM



As the door is opened, the rigid slide arm rotates the arm driver and the pinion shaft of the closer mechanism.

When the door has been opened and released, the unit's electrically controlled plunger valve will hold the pinion shaft and arm driver at that degree of door opening. The door is then free to swing unhindered.

After fire/storm detection alarm or any power interruption to the control, the pinion shaft and arm driver are released to close the door.

The connected free swing arm assembly provides the convenient automatic closing fire door protection for health care facilities or other locations where it is desired to neutralize the effort required to open or close a door. With no spring force on the door during the normal operation, patients, the handicapped and/or staff find the door easy to open, close or leave ajar.

Functions:

- Arm driver connected to the closer pinion drives the pinion when the door is opened and the slide arm rotates
- When unit is energized the pinion and arm driver remain at the point where door was initially opened
- Arm is connected to the pinion but is free to pivot
- The door is free to open, close or be set at any degree of opening
- When there is a fire/smoke alarm or any power interruption, the hold open control valve is released, and door closes
- Units shipped selective hold open; infinite hold open can be set in the field

UL Listed:

7200 Series with connected free swing arm is UL listed as a releasing device for fire/smoke barrier doors

Maximum Door Size (cm)	Model Numbers	
	Support	Executive™ Door Release
	Selective Hold Open	
40" (102)	7243MPSO	7243RFS
44" (112)	7244MPSO	7244RFS
48" (122)	7245MPSO	7245RFS

Specify voltage and hand of door when ordering

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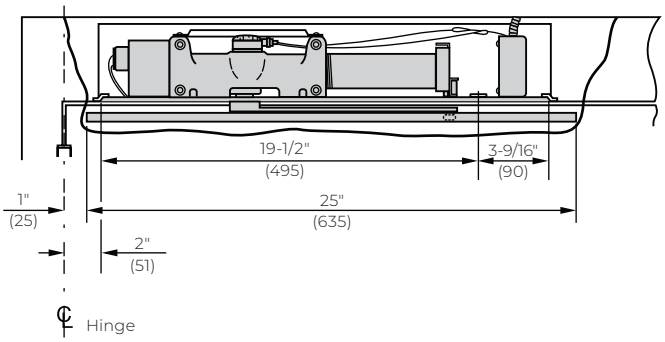
7290 OVERHEAD CONCEALED SUPPORT UNIT

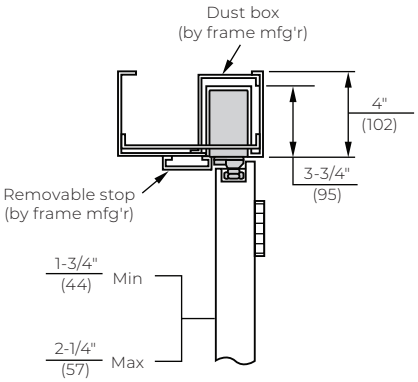


Controlled Remotely by Area/Ceiling Detectors

- Handed
- Unit concealed in the header of the frame
- Installation requires a 4" (102mm) high frame header
- A 2" x 4" (51 x 102mm) dust/grout box and a removable frame stop (provided by the door and frame supplier) are required
- Slide track is mortised in the door's top rail
- Standard units accommodate doors opening 180°; maximum 175° hold open
- Buffer block assembly in the track will accommodate doors opening to 125°
- Auxiliary door stop is required for doors opening beyond 125°
- Units shipped selective hold open; infinite hold open can be set in the field
- Intended for use with compatible ul listed ceiling alarm detection equipment
- Fail safe – solenoid will de-energize in the event of power failure

TECHNICAL DETAILS





DOOR SIZE

Maximum Door Size (cm)	Selective Hold Open
32" (81)	7294MPS
38" (97)	7295MPS
48" (122)	7296MPS

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7200 SERIES
ELECTRIFIED CLOSERS AND HOLDERS

CLOSER BODIES

Description	Mounting	Voltage	Hand	Part Number
Closer/holder assembly	Push or pull	24VDC	Left	720XLAPS24L
			Right	720XLAPS24R

ARM & TRACK ASSEMBLIES

Description	For Series	Part Number
Slide track	7210, 7240, 7250	7100-IT
Slide arm	7210	7110-1A
Connected free swing arm	7240	7140-1A
Double egress arm – right hand	7250	7150-1R
Double egress arm – left hand		7150-1L
Double lever arm	7220	7701-1A
Double lever arm	7230	7701-1B
Arm assembly NHO – right hand	7290	7950-1R
Arm assembly NHO – left hand		7950-1L
Track assembly NHO		7950ST

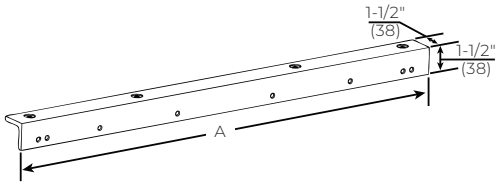
TRACK & ARM PARTS

Description	Part Number
Cushion block (part of slide track assembly)	7100CB
Screw pack for CFS arm	7240SP
Slider assembly	2800SLD

MISCELLANEOUS PARTS

Description	Part Number
Cover (support unit)	MPSOCOV
Selective hold open switch assembly 24V	SHOK
Switch 24V	SHO

Description	Part Number	A (Length)
Drop angle bracket	7100DAB	29-9/16" (675)
	7100DAB-180	24-9/16" (621)



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7200 SERIES
ELECTRIFIED CLOSERS AND HOLDERS

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HOW TO ORDER

72 | 1 | 4 | MPSO | X | HAND | X | VOLTAGE | X | FINISH

72 – 7200 Series closer/holder

Suffix:

Selective Hold Open
MPSO – Support (24VDC only when used with primary unit)

Executive™ Door Release
RFS – Selective hold open
Note: refer to page 16 if special drop angle bracket is needed - 7220, 7230 only

HAND
RH – Right hand
LH – Left hand

VOLTAGE
120VAC
24VDC

Closer Size	
Slide Arm & Track and Connected Free Swing Arm	Maximum Door Size
"3"	40"
"4"	44"
"5"	48"
Overhead Concealed	
"4"	32"
"5"	38"
"6"	48"
Double Lever Arm	
"3"	42"
"4"	48"

Specifies side of door unit is mounted on and the type of arm

Pull side
"1" – Rigid slide arm & track; maximum reveal 1/8" (3mm)
"4" – Connected free swing slide arm & track; maximum reveal 1/8" (3mm)
"5" – Double egress slide arm & track; reveals 1/8"-3" (3-76mm) to 110°
"9" – Overhead concealed door closer with rigid slide arm & track

Push side
"2" – Double lever arm; reveals 2-3/4"-4" (70-120mm) to 180°; reveals 4"-7" (102-179mm) to 165°
"3" – Double lever arm; reveals 4"-7" (102-179mm) to 180°

FINISHES

Product will be sprayed with a combination of waterborne acrylic and polyester powder coat.

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

2800PT

ELECTRIFIED CAM ACTION CLOSER/HOLDER

INTRODUCTION

The Norton Rixson 2800PT Electromechanical Closer/Holder is a versatile, high-performance solution that seamlessly combines the functions of a single-point electromechanical door holder with the precision of a cam-action door closer. This closer/holder delivers exceptional opening efficiency while maintaining reliable closing force — making it ideal for environments where ease of use and life safety are critical. Designed for flexibility, this closer/holder can be installed on single or double door applications and integrates easily with UL-listed detection equipment such as ceiling-mounted smoke detectors, pull stations, and remote alarm panels.



FEATURES

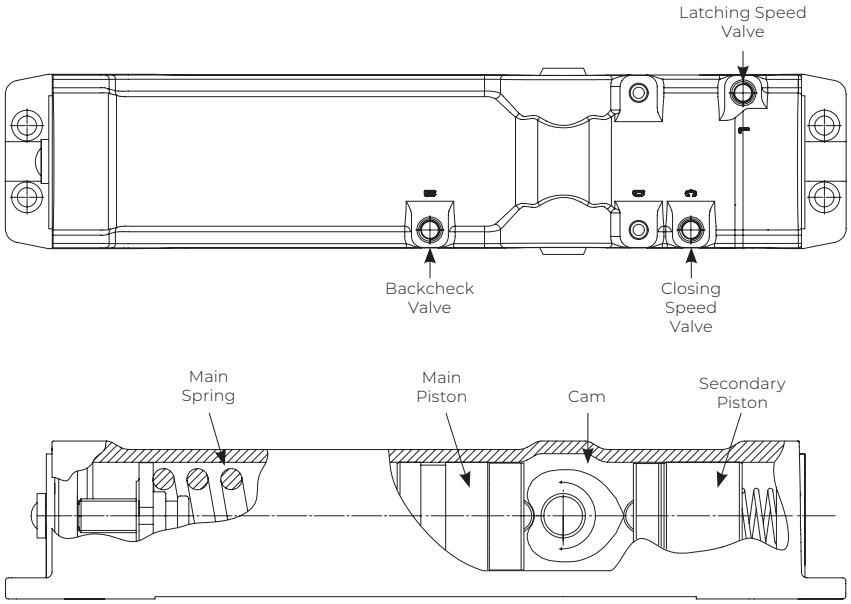
- Selective single-point hold open
- Cast aluminum body
- Adjustable door closer spring size 1 through 6
- Door weight up to 250 lbs.
- Push and pull side mounting (closer mounted on door)
- Standard separate and independent latch, sweep and backcheck intensity valves
- Additional floor or wall stop is recommended
- Voltage: 24VDC
- Concealed or surface wiring
- Non-handed
- Adjustable hold open range:
  - Pull side: 70° - 120°
  - Push side: 70° - 115°
- 2-year limited warranty

BENEFITS

- One model – two mounting options
- Easy open
- Reliable closing
- Forward facing valves
- High efficiency
- Ideal for low ceiling clearance applications
- Installation based on the door angle needed

2800PT

ELECTRIFIED CAM ACTION CLOSER/HOLDER



CERTIFICATIONS

- ANSI/BHMA A156.15
- Trade Agreement Act (TAA)
- UL10C positive pressure up to 3 hours
- cULus listed

ELECTRICAL INFORMATION

Operating Voltage – 24VDC

Amperage Draw – 60mA

EXPLANATION OF FEATURES

Selective Single-Point Hold Open

The 2800PT has one template position. The single-point hold open position is selected by moving the hold open solenoid assembly in the track. Hold open ranges from 70°-120° for pull side mounting and 70°-115° for push side mounting.

Non-Handed

Units can be mounted on left or right hand doors and on the push or pull side of the door. (Note: push side requires the use of a bracket for the track assembly - bracket included with all units.)

Voltage

Must be 24VDC

Fail Safe

In the even of a power outage, the solenoid will be de-energized and the closer/holder will then operate as a normal door closer.

Wiring Options

Both pull and push side applications will accommodate either concealed or surface wiring. The hook-up box will accommodate ½" (13mm) conduit. The hook-up box sides / base and hook-up box cover are prepared for surface and concealed wiring.

2800PT

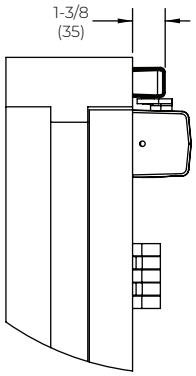
ELECTRIFIED CAM ACTION CLOSER/HOLDER

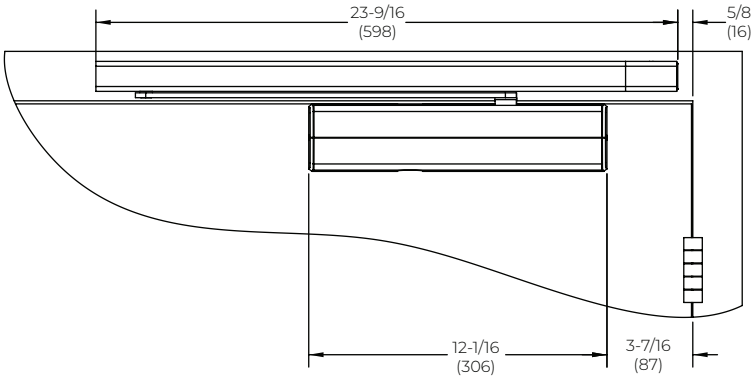
STANDARD APPLICATIONS



Pull Side

- 70° - 120° hold open range

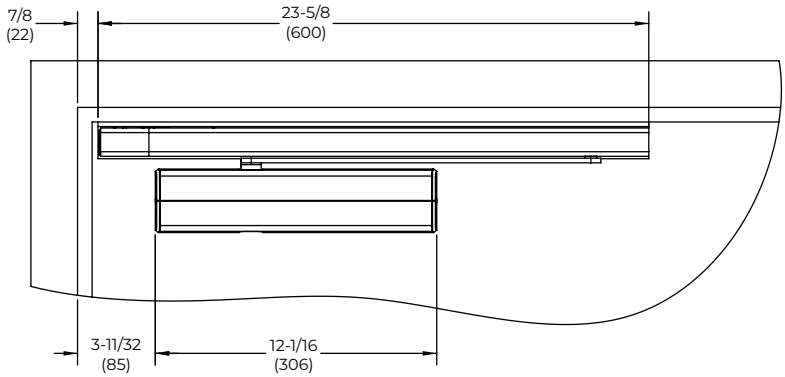


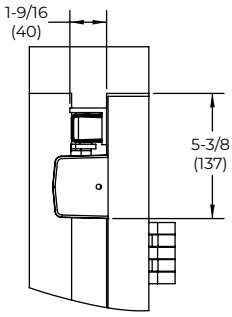




Push Side

- 70° - 115° hold open range
- 2800PTPB track angle bracket required (included)
- Minimum frame reveal is 1-1/2 (13)
- 4-3/4 (121) minimum door top rail





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2800PT

ELECTRIFIED CAM ACTION CLOSER/HOLDER

SPECIFICATION

Shall be electromechanical closer/holder. Hold open to be achieved by electric solenoid locking on closer arm slide in it track. Track, slide, and solenoid to be contained in a single aluminum extrusion 1-1/2" (38mm) high x 1-5/16" (33mm) deep.

Closer shall be door mounted. Track and hold open mechanism shall be surface mounted to the frame face for application on the pull side of the door and frame soffit mounted (with bracket) for application on the push side of the door. Single point hold open shall be selective through a range of 70° to 120° for pull side and 70° to 115° for push side. Hold open point to be achieved by adjusting location of hold-open mechanism in the track.

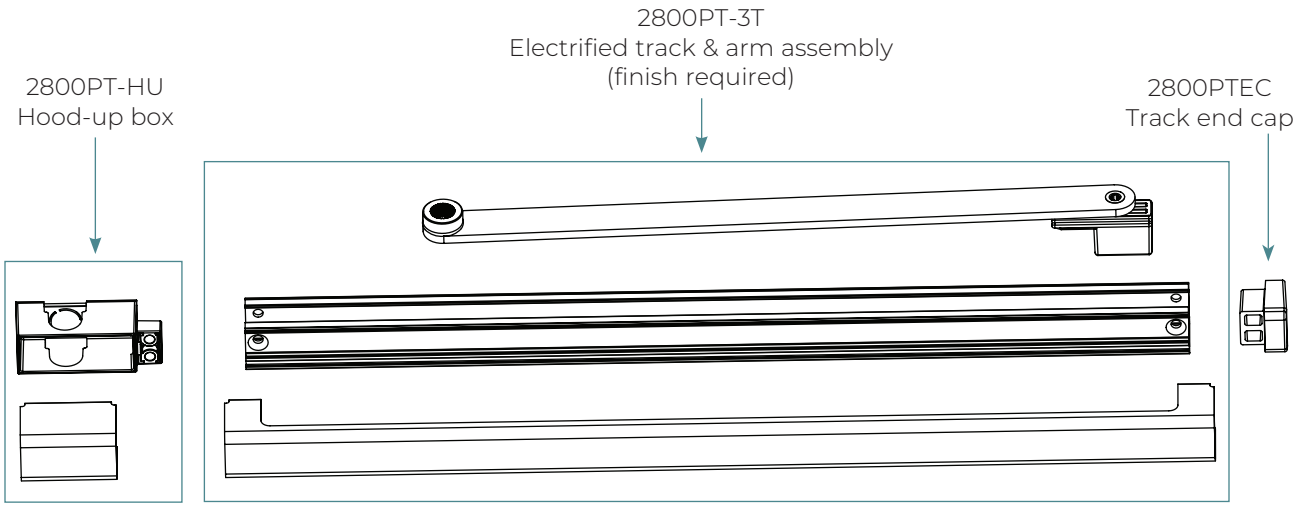
Door closer has be a surface mounted, cam action, high-efficiency door closer with complete spring power adjustment sized 1 through 6. Closer to be the cam and roller design, one piece cast aluminum silicon alloy body with adjustable back check and independently controlled valves for closing sweep and latch speed. Non-hold open door closer body to be UL Listed for self-closing doors. Unit meets cULus.

Units to be fail safe and close the door during an interruption to the electrical power. The hold open solenoid coil shall have a maximum amperage draw of .060 Amps at 24VDC.

All wiring connections shall be made without the need of wire nuts or soldering. Units shall require 24VDC power input. Input power to connect to header attached to the end of the solenoid leads and located inside the hook-up box. Wiring, conduit, and conduit connectors by others.

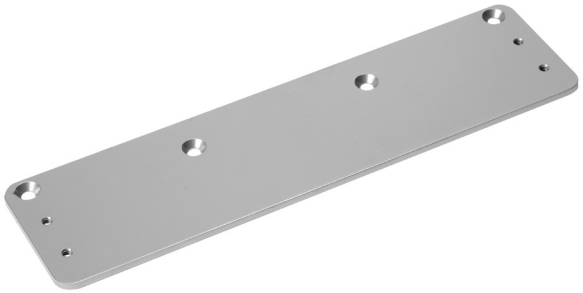
PARTS LIST

Part #	Description
2800PTLAP	Closer body only
2800P	Plastic cover
SP2800B	Closer screw pack
SP2800S	Spline screw pack
SP28PT	Track screw pack
SN-134	Sex nut package: 1-3/4" door thickness
SN-214	Sex nut package: 2-1/4" door thickness
2800PTEC	Track end cap
SP2800PT	Screw pack for bracket assembly



ACCESSORIES

2888 Drop/Back Plate: For use where the narrow top rail of the door prevents the closer from being mounted directly to the door surface. This drop plate must be used for closer mounted on a top rail between 1-7/8" and 3-3/8" (48 and 86mm) in height.



HOW TO ORDER

2800PT
Closer

X

689
Finish

FINISHES

Product will be sprayed with a combination of waterborne acrylic and polyester powder coat.

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
BSP	Black suede powder coat
WSP	White suede powder coat

NORTON RIXSON
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7700 POWER TRACK®

ELECTRIFIED CLOSERS AND HOLDERS

INTRODUCTION

The Norton Rixson Power Track® Closer-Holders combine the functions of a single point electromechanical door holder with the proven reliability of a 7700 Series door closer. The track assembly contains an arm slide and solenoid operated hold open mechanism.

Units can be installed on a single door or a pair of doors when controlled by compatible UL listed detection equipment such as area ceiling detectors, pull stations, and remote alarm panels.



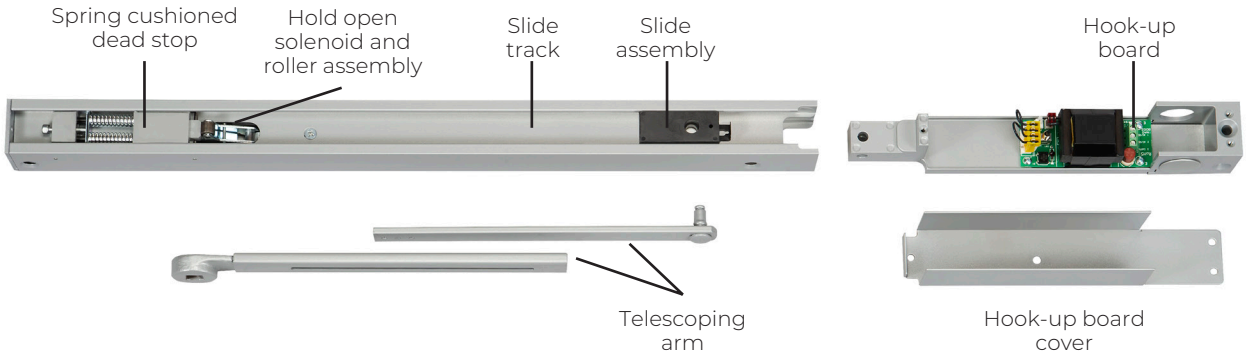
FEATURES

- Selective single-point hold open
- Fixed spring size 5
- Push or pull side mounting (closer mounted on door)
- Standard separate and independent latch, sweep, and backcheck intensity valves
- Spring loaded buffer block at the point of hold open prevents over travel of the arm slide and provides a cushioned dead stop
- Additional floor or wall stop is recommended
- Voltage: 24VDC or 120VAC
- NorGlide® closer fluid
- Non-handed
- Fail safe: solenoid will de-energize in the event of power failure
- Concealed or surface wiring
- Door weight 250 lbs.
- 2-year limited warranty

BENEFITS

- Ideal for low ceiling clearance applications
- Installation based on the door angle needed
- Doors automatically close if activated by fire alarm

OVERVIEW



CERTIFICATIONS

- ANSI/BHMA A156.15 BHMA CERTIFIED
- CAL FIRE, 3550-0944:0106
- Environmental Product Declaration (EPD)
- UL10C positive pressure up to 3 hours UL
- UL-cUL listed
- Manufactured in an ISO 9001 , ISO 14001 facility

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EXPLANATION OF FEATURES

Selective Single-Point Hold Open:

The Power Track® has one template position. The single-point hold open position is selected by adjusting the telescoping arm with a hex drive set screw. Hold open range is 85° thru 110° in approximately 3° increments.

Non-Handed:

Units are non-handed except when ordered with "DE" double egress arms. Choice of push or pull side installation: no prefix indicates pull side application. Prefix “P” for push side installation.

Choice of Supply Voltage:

Available in 24VAC/DC or 120VAC, 60Hz. voltages. Power to these devices must be within a range of (+) 10% (-) 15% of the stated voltage.

Fail Safe:

In the event of a power outage, the Power Track solenoid will be de-energized and the closer/holder will then operate as a normal door closer.

Wiring Option:

Both pull and push side applications will accommodate either concealed or surface wiring. The hook-up box will accept 3/4" (19mm) conduit. Each Power Track is supplied with a thin-walled conduit nut to attach the conduit clamp. The hook-up box base is prepared for surface wiring. State and local building codes will dictate the type of wiring.

Spring Cushioned Dead Stop:

A spring-loaded buffer block at the point of hold open prevents over travel of the arm slide and provides a cushioned dead stop. Use of an additional wall or floor stop is always recommended.

ORDERING VOLTAGES

Model	# of Power Input Lines	Choices of Voltage Input	Can be used with
PTO-24	1	24 VAC/DC	Area smoke detection system
PTO-120		120 VAC, 60Hz	

Operating voltage for the control of fire/smoke doors are specified by the architect, electrical engineer and alarm system engineer and/or contractor. Consulting with these sources will verify which operating voltage should be ordered.

“PTO” Support Units

- Hold open solenoid requires electrical power.
- Solenoid controlled by smoke detection equipment (ceiling detectors) or remote alarm panels.
- Available for operation on 24VAC/DC or 120VAC, 60Hz.
- Hold open solenoid operates on direct current.
- Contains built-in rectifier that converts alternating current to direct current.

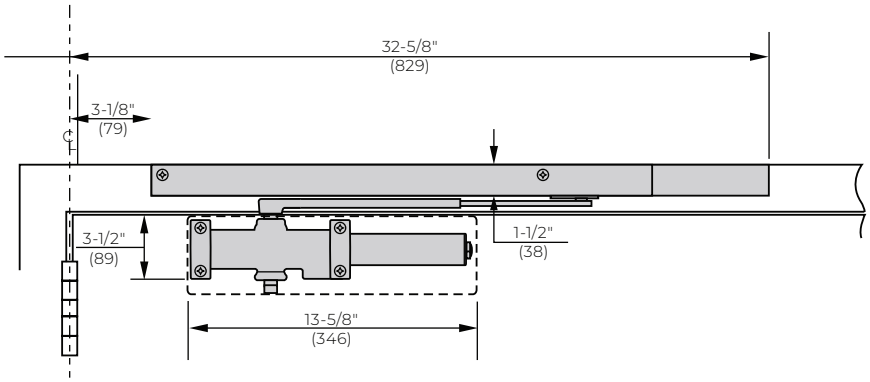
NORTON RIXSON
ASSA ABLOY

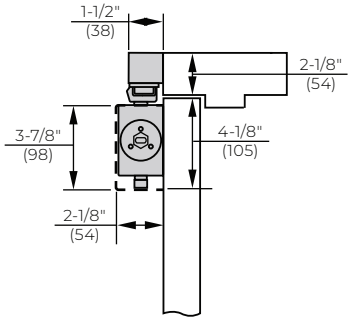
7700 POWER TRACK®
ELECTRIFIED CLOSERS AND HOLDERS

7705 POWER TRACK®
Pull (Hinge) Side Mounting



Technical Details





Door Size

	Door(s) Opening Inches (cm)		Model Number & Type
	Max.*	Min.**	
Single Door	48" (122)	32" (81)	(1) 7705PTO Support Unit
Pairs of Doors	96" (244)	64" (163)	(2) 7705PTO Support Units (controlled by remote detection equipment)

Minimum Top Rail	
Without Drop Plate	With 7786 Drop Plate
3-1/2" (89mm)	1-7/8" (48mm)

2-1/8" (54mm) minimum ceiling clearance required for Power Track.

* Maximum door size for door closer power.

** Minimum door opening for standard installation. Consult factory for door openings narrower than those shown.

Double egress doors: With reveals greater than 1/8" (3mm); a special handed arm for the pull (hinge) side Power Track is available. Accommodates reveals to 3" (76mm). Suffix "DE" to model number; specify hand.

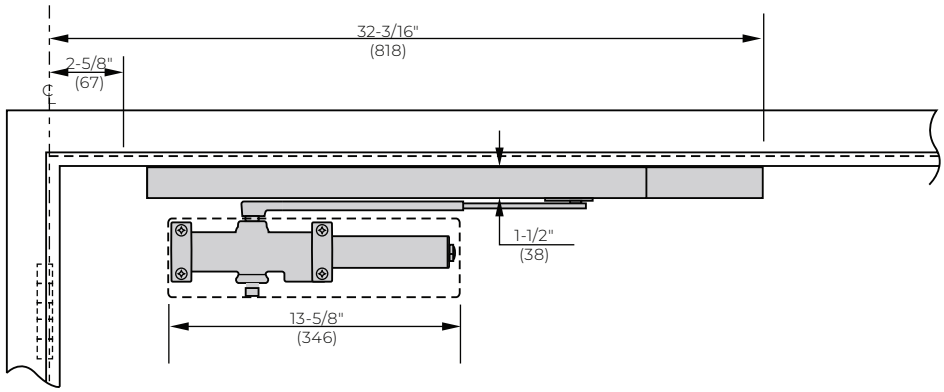
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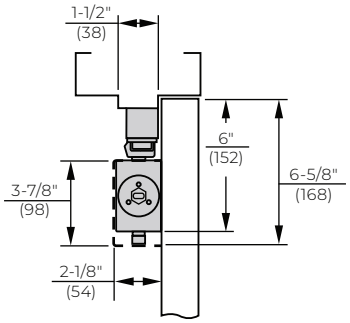
P7705 POWER TRACK®

Push (Stop) Side Mounting



Technical Details





Door Size

	Door(s) Opening Inches (cm)		Model Number & Type
	Max.*	Min.**	
Single Door	48" (122)	33" (84)	(1) P7705PTO Support Unit
Pairs of Doors	96" (244)	64" (163)	(2) P7705PTO Support Units

Minimum Top Rail	
Without Drop Plate	With 7788 Drop Plate
6" (152mm)	2-3/4" (70mm)

1-1/2" (38mm) minimum frame soffit required for Power Track.

* Maximum door size for door closer power.
** Minimum door opening for standard installation.
Consult factory for door openings narrower than those shown.

NOTE: Interference with other hardware such as vertical rod exit devices, magnetic locks, and door coordinators, etc., must be considered when selecting this product.

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7700 POWER TRACK®
ELECTRIFIED CLOSERS AND HOLDERS

ELECTRICAL INFORMATION

Model Number	No. Power Input Lines* (Pairs)	Operating Voltage	Amperage Draw
			Solenoid Coil
7705PTO P7705PTO	1	24VAC/DC	.090 @ 24VDC
		120VAC, 60Hz	.018 @ 120VAC

*Number of input lines (pairs) required to supply operating voltage.
This does not include signal or control lines (pairs) to alarm panels.

SUGGESTED SPECIFICATIONS

Closers for _____ doors shall be electromechanical closer-holder. Hold open to be achieved by electric solenoid locking of closer arm slide in its track. Track, arm, slide (and) solenoid (and integral smoke detector) to be contained in a single aluminum extrusion 1-1/2" (38mm) high, 1-1/2" (38mm) deep.

Closer shall be door mounted. Track and hold open mechanism shall be surface mounted to the frame face for application on the pull side of the door and frame soffit mounted for application on the push side of the door. Single point hold open shall be selective through a range of 85° to 110°. Hold open point to be achieved by adjustment of a telescoping closer arm.

Closer shall be hydraulic with full rack and pinion enclosed in a cast aluminum alloy shell. Hydraulic fluid shall be non-gumming and non-freezing. Closer shall have two non-critical valves to independently regulate sweep speed and latch speed. It shall have an adjustable backcheck cushioning valve and an adjustable backcheck positioning valve. All valves shall be adjustable with a hex-key. (Closer shall have spring power adjustment to permit 50% increase in closing power.) Closer to be enclosed in a molded full cover.

(Support units to be controlled by U.L. Listed Smoke Detection Equipment.) Units to be fail safe and close the door during an interruption to the electrical power. The hold open solenoid coil shall have a maximum amperage draw of (.090 Amps at 24 volts) (.018 Amps at 120 volts). Unit shall have a switch to permit testing of the releasing device function without alarming the system.

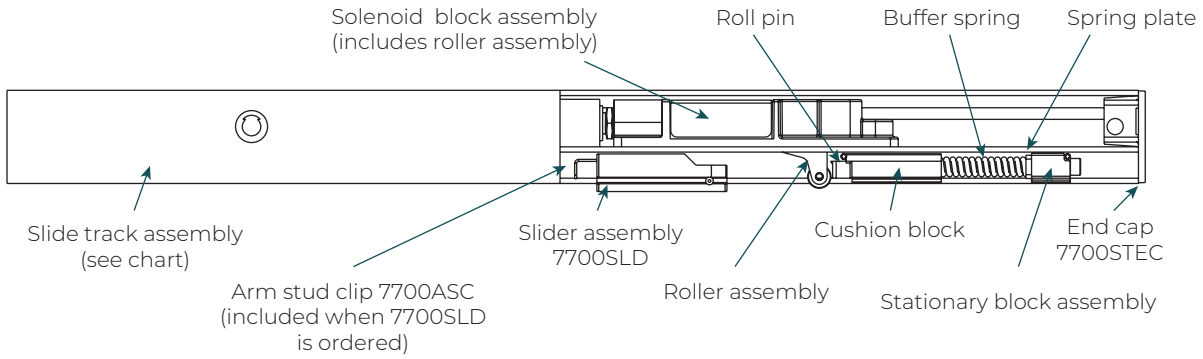
All wiring connections shall be made without the need of wire nuts or soldering. Support unit(s) shall require a (24VAC/DC) (120, 60Hz) power input. Supplier to coordinate electrical requirements with electrical and alarm system engineers. Wiring (and conduit) by others. Electromechanical Closer-Holder to be Norton Rixson Power Track® [(P)7700(PTO)].

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TRACK ASSEMBLIES

Voltage	Part Number^	
	Hinge Side	Stop Side
24V	PTO24	PPTO24

Support unit track assemblies include track, slider assembly and solenoid block assembly. Hook-up box not included.



Description	Part Number
Hook-up box cover kit	PTOHBCOV

Description	Voltage	Part Number
Hook-up boards	24V	PTOPCB24
	120V	PTOPCB120

PARTS

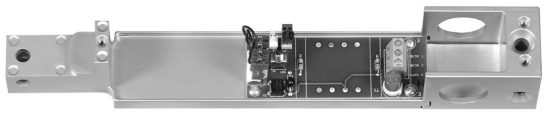
Hook-Up Box (shown less cover**)

** For identification purposes only – box is only supplied with cover

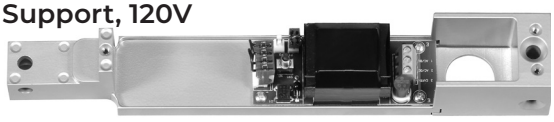
Description	Voltage	Hook-Up Boxes^	
		Hinge Side	Stop Side
Support	24V	PTOHB24	PPTOHB24
	120V	PTOHB120	PPTOHB120

Miscellaneous Parts	
Description	Part Number
Fuse	PTO125V
Solenoid block assembly (24V)	PT24SOL
Push side hook-up box plug button	P7700PB

Support, 24V



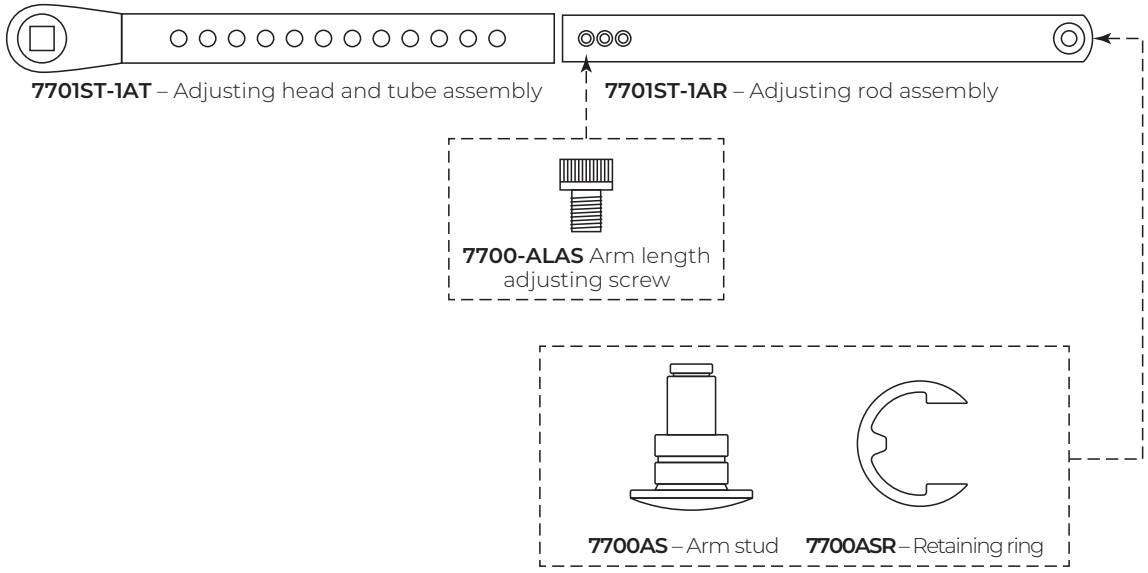
Support, 120V



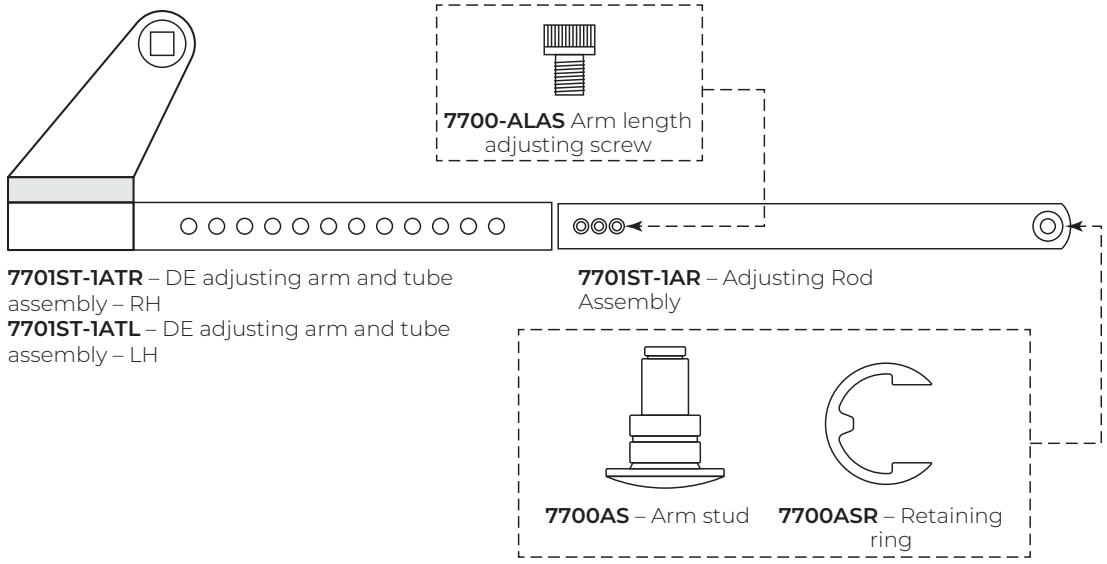
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7700 POWER TRACK®
ELECTRIFIED CLOSERS AND HOLDERS

STANDARD ARM ASSEMBLY
7701ST-1A[1, 2]



DOUBLE EGRESS ARM ASSEMBLY
7701PT-DE-1R[1, 2] – (right hand)
7701PT-DE-1L[1, 2] – (left hand)



Notes:

1 Includes arm length adjusting screw 7700-ALAS
2 Includes arm tube & adjusting rod assembly
Mounting hardware included with all parts orders

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HOW TO ORDER

P PREFIX | **7705 MODEL** | **PTO SUFFIXES** | X | **VOLTAGE** | X | **FINISH**

None – Unit mounted on pull (hinge) side of door; maximum reveal 1/8" (3mm) For greater reveals up to 3" (76mm) suffix "DE" to model number

P – Unit mounted on push (stop) side of door

PTO – Support unit (used with area/ceiling detectors)

DE – Deep reveal arm for double egress frames **(specify hand)** Reveals 1/8" – 3" (3-76mm) Hinge (pull) side units only

120VAC
24VAC/DC

FINISHES

Product will be sprayed with a combination of waterborne acrylic and polyester powder coat.

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
694	Medium bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

NORTON RIXSON
ASSA ABLOY

SMOK-CHEK® V

ELECTRIFIED CLOSERS AND HOLDERS

INTRODUCTION

Designed for a variety of applications, fire/life-safety closers and holders protect people and property.

The single-point electromechanical Smok-Chek V can be mounted on the push or pull side of the door and is best suited for cross corridor doors. Checkmate 99, an electrified holder, is used with independent closers and can be mounted on the push or pull side of the door.



GENERAL INFORMATION

SMOK-CHEK® V

Electromechanical action

- Single point hold open
- More durable than electrohydraulic units
- To hold open at 90°, door must open to 93°
- Best suited for cross corridor doors

CHECKMATE® 99

Electromechanical action – no closer supplied

- For doors with floor closers or surface mounted door closers
- Single point hold open
- To hold open at 90°, door must open to 93°
- Best suited for cross corridor doors

Note: these products are not designed to be manually pulled out of hold open. If continual cycling is necessary, a separate switch to release should be used.

SPECIFICATIONS

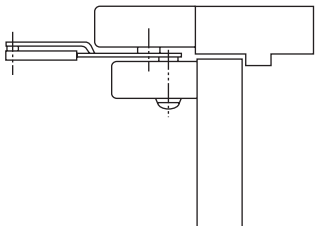
Closer/Holders shall be Smok-Chek® V series. They should be electromechanical type. All holders shall open and hold up to 180°. Units shall have holder on the frame and closer on the door. Product with fall-off will not be acceptable.

Whenever floor closers are specified and an electromechanical hold open is needed, the product should be **Checkmate® 99**. This separate holder will allow the doors to swing to 110°, depending on the type of closer being used.

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0600 PULL SIDE MOUNTING





Application
- Cross corridor doors - swinging in the same direction

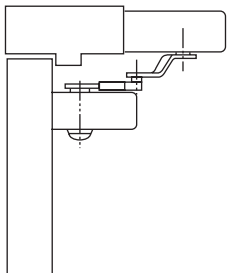
Features
- Single-point hold open
- Pull side mounting
- Non-handed
- Hold open range 85°-145°
- Mounts on a 2" header
- Doors up to 4'0"
- Door weight: 250 lbs.
- Concealed switch disconnects hold open
- Adjustable spring surface closer
- Maximum reveal: 1/8"
- NorGlide® closer fluid
- 2-year limited warranty

Certifications
- UL-cUL fire-rated up to 3 hours
- CAL FIRE, 3550-0047:0015

Electrical Data
- 24VAC/DC 80ma
- 120VAC 17ma

0601 PUSH SIDE MOUNTING





Application
- Cross corridor doors – double egress – doors swinging in opposite directions

Features
- Single-point hold open
- Push side mounting
- Non-handed
- Hold open range 85°-105°
- Mounts on a 2" header
- Doors up to 4'0"
- Door weight 250 lbs.
- Concealed switch disconnects hold open
- Adjustable spring surface closer
- Maximum reveal: 3-1/2"
- For double egress doors with reveals from 3-1/2" up to 5-1/2" or on applications where doors need to swing 150°, use 550789 arm.
- NorGlide® closer fluid
- 2-year limited warranty

Certifications
- UL-cUL fire-rated up to 3 hours
- CAL FIRE, 3550-0047:0015

Electrical Data
- 24VAC/DC 80ma
- 120VAC 17ma

Arm	Reveal	Hold Open Range
Standard	3-1/2"	85-105°
Deep Reveal	3-1/2"	85-150°
	5-1/2"	85-135°

NORTON RIXSON
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SMOK-CHEK® V
ELECTRIFIED CLOSERS AND HOLDERS

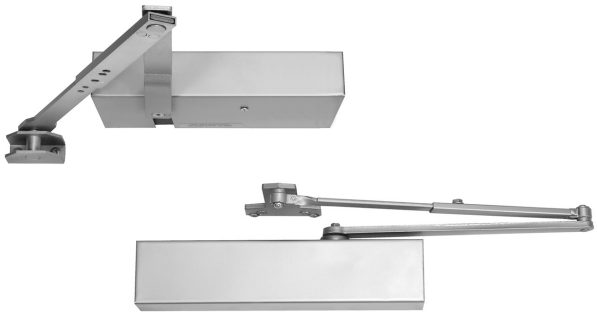
0602 HOLDER

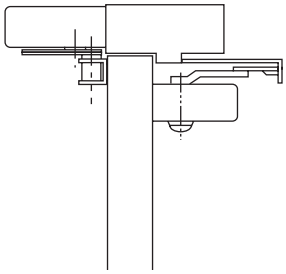
Application
- Cross corridor doors – swinging in the same direction

Features
- Single-point hold open
- Pull side mount for holder; push side mount for closer
- Non-handed
- Hold open range 85°-180°
- Mounts on a 2" header
- Doors up to 4'0"
- Door weight 250 lbs.
- Concealed switch disconnects hold open
- Adjustable spring surface closer
- Maximum reveal (pull side): 1/8"
- NorGlide® closer fluid
- 2-year limited warranty

Certifications
- UL-cUL fire-rated up to 3 hours
- CAL FIRE, 3550-0047:0015

Electrical Data
- 24VAC/DC 80ma
- 120VAC 17ma





0100 HOLDER

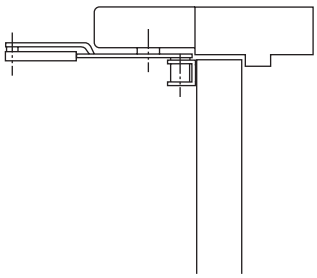
Application
- Cross corridor doors – can be used with floor closers

Features
- Single-point hold open
- Pull side mount for holder
- No closer supplied
- Non-handed
- Hold open range 85°-180°
- Mounts on a 2" header
- Doors up to 4'0"
- Maximum door weight 250lbs.
- Maximum reveal: 1/8"
- 2-year limited warranty

Certifications
- UL-cUL fire-rated up to 3 hours
- CAL FIRE, 3550-0047:0015

Electrical Data
- 24VAC/DC 80ma
- 120VAC 17ma





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0101 HOLDER

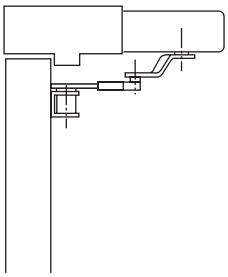
Application
- Cross corridor doors – double egress – doors swinging in opposite directions

Features
- Single-point hold open
- Push side mount for holder
- No closer supplied
- Non-handed
- Hold open range 85°-105°
- Mounts on a 2" header
- Doors up to 4'0"
- Door weight 250 lbs.
- Maximum reveal: 3-1/2".
- For double egress doors with reveals from 3-1/2" up to 5-1/2" or on applications where doors need to swing 150°, use 550789 arm.
- 2-year limited warranty

Certifications
- UL-cUL fire-rated up to 3 hours
- CAL FIRE, 3550-0047:0015

Electrical Data
- 24VAC/DC 80ma
- 120VAC 17ma





Arm	Reveal	Hold Open Range
Standard	3-1/2"	85-105°
Deep Reveal	3-1/2"	85-150°
	5-1/2"	85-135°

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SMOK-CHEK® V
ELECTRIFIED CLOSERS AND HOLDERS

HOW TO ORDER

0601 MODEL X **120VAC VOLTAGE** X **550789 OPTIONS** X **689 FINISH**

120VAC
24VAC/DC

550789 Arm
(0601, 0101 models only)

0600 Pull side mounting
0601 Push side mounting
0602 Holder on pull side/closer on push side
0100 Pull side mounting holder only
0101 Push side mounting holder only

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold, painted
BSP	Black suede powder coat
WSP	White suede powder coat

PRODUCT COMPARISON CHART

	0600	0601	0602	0100	0101
Application	Cross corridor doors (swinging in the same direction)	Cross corridor doors (swinging in the opposite direction)	Cross corridor doors (swinging in the same direction)	Cross corridor doors - can be used with floor closers	Cross corridor, double egress doors - (doors swing in opposite directions)
Closer included	•	•	•		
Pull side mounting	•		Holder	Holder	
Push side mounting		•	Closer		Holder
Hold open range	85-145°	85-105°	85-180°	85-180°	85-105°
Maximum reveal[1]	1/8"	3-1/2"	1/8"	1/8"	3-1/2"

1 When ordered with special arm 550789, additional reveals from 3-1/2" up to 5-1/2" may be accommodated (0601, 0101 only).

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PARTS DRAWING

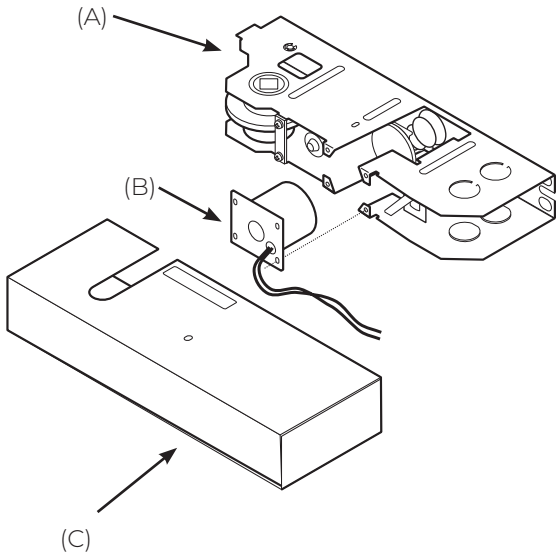
(A) Holder assembly
550100 120VAC
550101 24VAC/DC

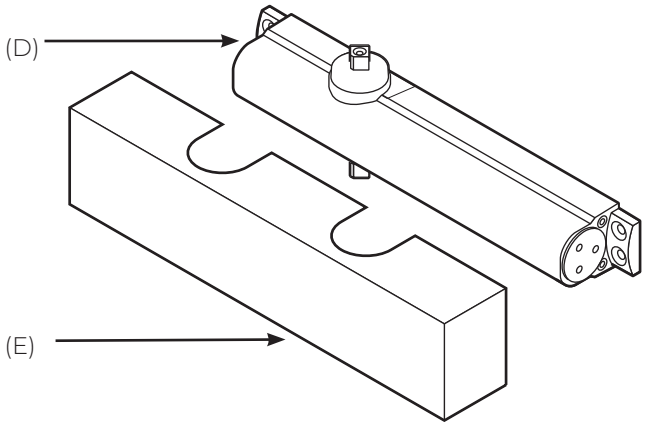
(B) Magnet
930105 120VAC
930106 24VAC/DC

(C) Holder cover
550106-*

(D) Closer body
85010163-*

(E) Closer cover
233069K*





Screw Packs

550221-*
for models with closers

550131-*
for models without closers

NORTON RIXSON
ASSA ABLOY

SMOK-CHEK® V
ELECTRIFIED CLOSERS AND HOLDERS

PARTS DRAWING

(A) Deep reveal push side arm
550789-*

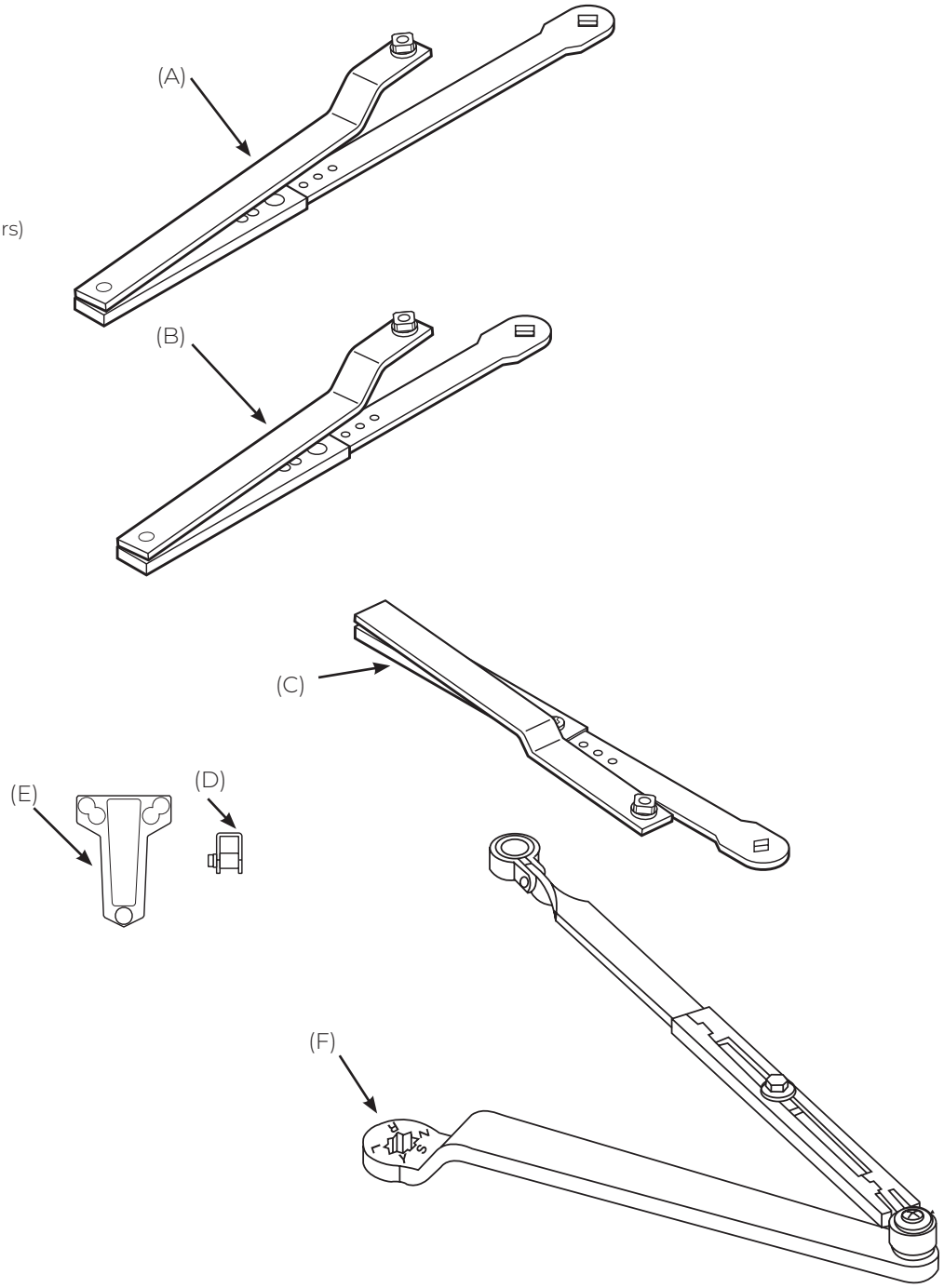
(B) Push side arm
550136K*

(C) Pull side arm
550120K-*

(D) Door pivot bracket
(used with 0602 closers)
565118T689

(E) PA bracket
(used with 0602 closers)
40-1600-0450-078

(F) Arm (used with 0602 closers)
20-7700-0192-*



*specify finish

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CHECKMATE® 99

ELECTRIFIED CLOSERS AND HOLDERS

99-726 PUSH SIDE MOUNT

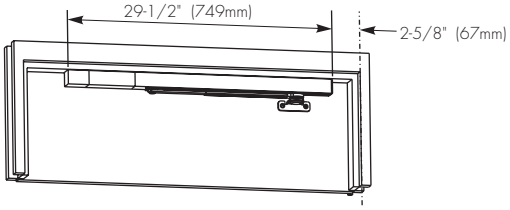
Application
- Used with independent closers

Features
- Single-point hold open
- Push side mounting
- Surface mounted
- Non-handed
- Single acting
- Surface or concealed wiring
- Holding force: 25-35lbs.
- Hold open: 85° - 110°
- Door width: 2'8" to 4'0"
- 2-year limited warranty

Certifications
- UL-cUL fire-rated up to 3 hours

Electrical Data
- 120VAC / 24VAC/DC 90mA





99-926 PULL SIDE MOUNT

Application
- Used with independent closers

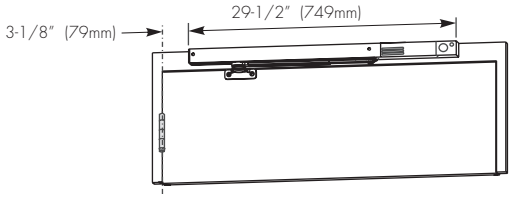
Features
- Single-point hold open
- Pull side mounting
- Surface mounted
- Non-handed
- Single acting
- Surface or concealed wiring
- Holding force: 25-35lbs.
- Hold open: 85° - 110°
- Door width: 2'8" to 4'0"
- 2-year limited warranty

Certifications
- UL-cUL fire-rated up to 3 hours

Electrical Data
- 120VAC/24VAC/DC 90mA



99-926 shown



NORTON RIXSON
ASSA ABLOY

CHECKMATE® 99
ELECTRIFIED CLOSERS AND HOLDERS

HOW TO ORDER

99-726 MODEL

99-726 Push side mounting
99-926 Pull side mounting

120VAC VOLTAGE

120VAC
24VAC/DC

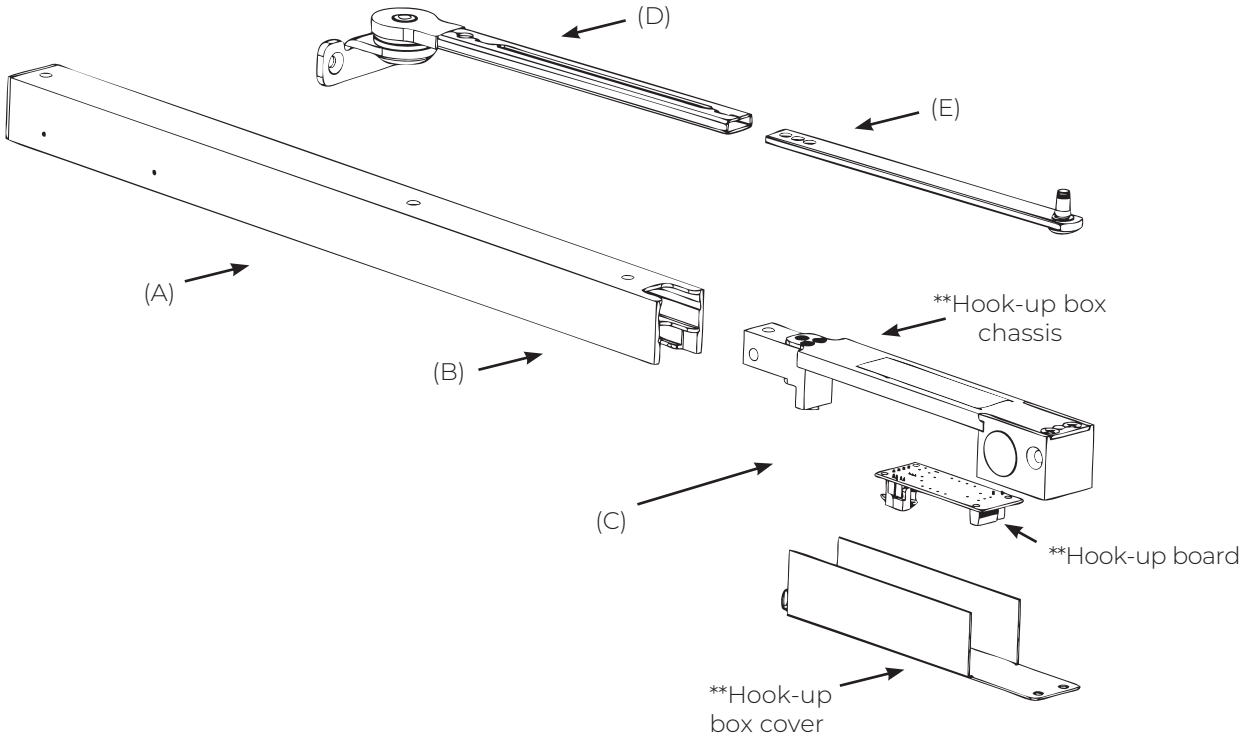
X

689 FINISH

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold, painted
BSP	Black suede powder coat
WSP	White suede powder coat

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PARTS DRAWINGS



(A) Slider assembly (not visible)
20-0099-0337-500

(B) Channel (for 99-726)
20-0099-0608-* (24V)

(B) Channel (for 99-926)
20-0099-0609-* (24V)

(C) Hook-up box assembly (for 99-726)
20-0099-0604-* (24V)
20-0099-0605-* (120V)

(C) Hook-up box assembly (for 99-926)
20-0099-0600-* (24V)
20-0099-0601-* (120V)

(D) Arm bracket & tube
20-0099-0516-*

(E) Adjusting rod
20-0099-0343-*

Screw Kit
20-0040-0534-*

*specify finish
** Not sold separately. Part of hook-up box assembly

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ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, mechanical and smart locks, access control and service.

Since 1880, Norton Rixson door controls have been an integral part of schools, hospitals and businesses around the globe. When you need products and people that perform at the highest level, rely on Norton Rixson – From Open to Close.

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43509-10/25

CATALOG

CHECKMATE® STOPS & HOLDERS

Absolute Door Control and Entire Opening Protection

NORTON RIXSON

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INTRODUCTION

CHECKMATE® STOPS AND HOLDERS



Checkmate® overhead stops and holders are used to extend the life of the door, frame and any door closing devices. They are ideal for installations prone to strong winds, high traffic or abuse, and when used with a floor closer, they provide absolute control at the top and bottom of the door.

Offered in a variety of architectural finishes for surface and concealed mounting, models are available to fit many different door widths.

Model	Concealed	Surface	Low Profile	Adjustable
1 Heavy-Duty Concealed	•			
1ADJ Heavy-Duty Concealed Adjustable	•			•
2 Standard-Duty Concealed Adjustable	•			•
5 Standard-Duty Concealed	•			
6 Heavy-Duty, Low Profile Concealed	•		•	
6ADJ Heavy-Duty, Low Profile Concealed Adjustable	•		•	•
7 Surface Cantilever Holder		•		
8HD Extra Heavy-Duty Double Lever		•		
9 Heavy-Duty Surface		•		
9ADJ Heavy-Duty Surface Adjustable		•		•
10 Standard-Duty Surface Adjustable		•		•
55 Standard-Duty Surface		•		

TABLE OF CONTENTS (How to Order note located on individual pages.)

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ANSI A156.8 Certification . . . 5
1 Heavy-Duty Concealed . . . 6
1ADJ Heavy-Duty Concealed Adjustable . . . 7
2 Standard-Duty Concealed Adjustable . . . 8
5 Standard-Duty Concealed . . . 9
6 Heavy-Duty, Low Profile Concealed . . . 10
6ADJ Heavy-Duty, Low Profile Concealed Adjustable . . . 11
7 Surface Cantilever Holder . . . 12
8HD Extra Heavy-Duty Double Lever . . . 13
9 Heavy-Duty Surface . . . 14
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⚠ WARNING

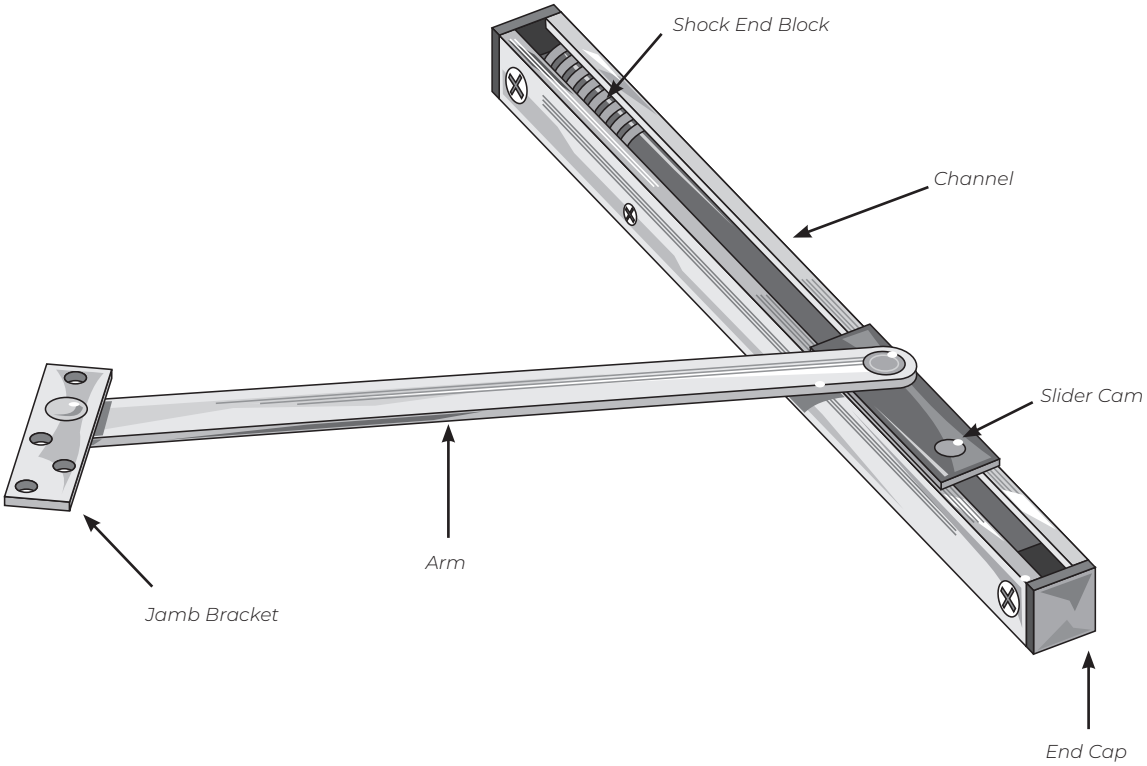
This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

GENERAL INFORMATION

CHECKMATE® STOPS AND HOLDERS

Checkmate® overhead stops and holders are used to extend the life of the door, frame and any door closing devices. They may be necessary if there are strong winds, high traffic or abuse.

- When used in conjunction with a floor closer, you have absolute door control, top and bottom
- Provides positive deadstop at selected degree
- There are three functions, four ways to order:
  - Friction Stay – used on doors without closers to keep doors open
  - Hold Open – door remains held open near deadstop location
  - Stops – door deadstops at a particular degree of opening
  - Multi Function – adaptable as hold open and/or stops
- Available for surface or concealed mounting
- Standard mount on push side of door (see model descriptions for pull side installations)
- Thru bolts are furnished with all surface models and must be used for installation



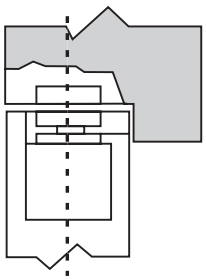
SPECIFICATIONS

- All overhead stops and holders shall be from a single manufacturer.
- Standard-duty models used for interior or low to moderate traffic doors.
- Heavy-duty models used for exterior or high traffic doors or doors subject to abuse.
- For extremely abusive areas or high winds use double lever arm type.
- Coordinate deadstop and/or hold open location with concealed floor closers.
- Checkmate products provide hold open and/or deadstop.

HOW TO SELECT PRODUCT

CHECKMATE® STOPS AND HOLDERS

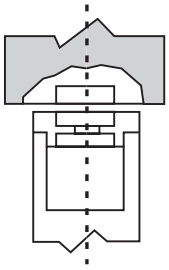
CONCEALED MOUNTING



Method A – Standard Installation, Single Acting Nos. 1, 1ADJ, 2, 5, 6, 6ADJ Series

For single acting doors, the jamb bracket is mortised into the frame and the channel mortised into the top of the door. Both the bracket and channel are secured with wood or machine screws.

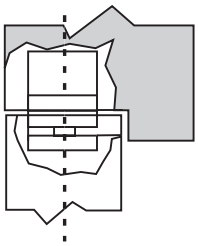
A cutout for the arm is required on the stop side of the door only. A hole must be drilled for the control knob of the No. 1 Series holder only.



Method B – Standard Installation, Double Acting Nos. 1, 1ADJ, 2, 5, 6, 6ADJ Series

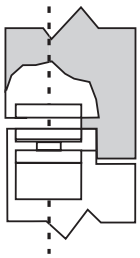
For double acting center hung floor closer or pivot applications.

Mounting is similar to Method A, with the exception that the cutout for the arm is required on both sides of the door.



Method C - Inverted Installation, Single Acting Nos. 2, 5 Series

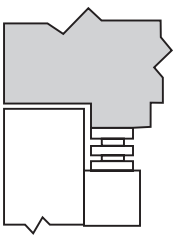
Recommended for doors with minimum top rail depth. The arm and jamb bracket are mortised into the door, and the channel is installed in the header with wood or machine screws. The cutout for the arm is required on the stop side of the door only.



Method D - Rabbeted Door Installation, Single Acting Nos. 2, 5 Series

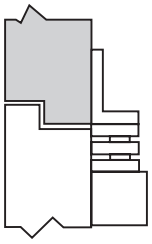
This method is designed for 1-3/4" doors with 1/2" maximum rabbet. The jamb bracket is mortised into the header and the arm and channel are mortised into the door. Wood or machine screws are used for fastening. The cutout for the arm is required on the stop side of the door only.

SURFACE MOUNTING



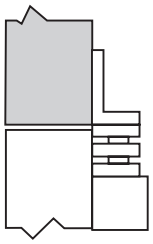
Method No. 1 – Standard Installation (Push side of door) Nos. 8HD, 9, 9ADJ, 10, 55 Series

The jamb bracket mounts on the soffit with wood or machine screws. The channel mounts to the door with sex bolts.



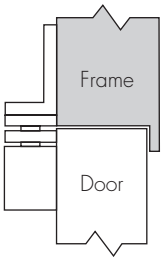
Method No. 2 – Rabbeted Door Installation (Push side of door) Nos. 8HD, 9, 9ADJ, 10, 55 Series

A special angle jamb bracket adapter mounts on the header with wood or machine screws. The jamb bracket attaches to the adapter with machine screws. The channel fastens to the door with sex bolts. **(Same bracket as used with Method 3 and 5. See catalog for bracket number for each model.)**



Method No. 3 - Flush Door Installation (Push side of door) Nos. 8HD, 9, 9ADJ, 10, 55 Series

This method of installation is identical to Method No. 2 for Rabbeted Doors.
(Same bracket as used with Method 2 and 5. See catalog for bracket number for each model.)



Method No. 5 - Reverse Installation (Pull side of door) Nos. 9, 9ADJ, 10 and 55 Series

The jamb bracket adapter is secured to the header with wood or machine screws. The jamb bracket fastens to the adapter with machine screws and the channel mounts on the door with sex bolts. **(Same bracket as used with Method 2 and 3. See catalog for bracket number.)**

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ANSI CERTIFICATION

CHECKMATE® STOPS AND HOLDERS

ANSI/BHMA A156.8, Grade 1 Certification

ANSI Number	Function	Series	Model
C01541	Stop Only	1	1-136
			1-236
			1-336
			1-436
			1-536
C01511	Hold Open		1-126
			1-226
			1-326
			1-426
			1-526
C01541	Stop Only	1ADJ	1ADJ-136
			1ADJ-236
			1ADJ-336
			1ADJ-436
			1ADJ-536
C01511	Hold Open		1ADJ-126
			1ADJ-226
			1ADJ-326
			1ADJ-426
			1ADJ-526
C01541	Stop Only	2	2-136
			2-236
			2-336
			2-436
			2-536
C01541	Stop Only	5	5-136
			5-236
			5-336
			5-436
			5-536
C01541	Stop Only	6	6-136
			6-236
			6-336
			6-436
			6-536
C01541	Stop Only	6ADJ	6ADJ-136
			6ADJ-236
			6ADJ-336
			6ADJ-436
			6ADJ-536

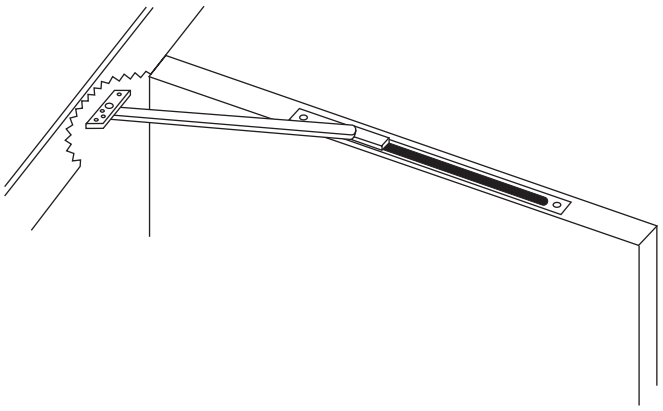
ANSI Number	Function	Series	Model
C02541	Stop Only	9	9-126
			9-136
			9-226
			9-236
			9-326
			9-336
			9-426
			9-436
			9-526
			9-536
C02541	Stop Only	9ADJ	9ADJ-136
			9ADJ-236
			9ADJ-336
			9ADJ-436
			9ADJ-536
C02511	Hold Open		9ADJ-126
			9ADJ-226
			9ADJ-326
			9ADJ-426
			9ADJ-526
C02541	Stop Only	10	10-136
			10-236
			10-336
			10-436
			10-536
C02541	Stop Only	55	55-136
			55-236
			55-336
			55-436
			55-536

1 SERIES

Application
- Interior or exterior doors
- Single or double acting
- Non-handed
- Recommended for high traffic, heavy abuse installations

Features
- Heavy-duty
- Slide track design
- Stop, friction stay or hold open functions
- 1-3/4" minimum door thickness. For thicker doors, specify when ordering
- 110° maximum opening
- Heavy shock absorber spring provides 5-7° compression before dead stop
- LS option omits spring for special applications
- Durable slider cam and shock block
- Surface on/off knob on hold open models
- 1-3/16" square channel
- Complete screw packet for installation in wood and machine screws for door and frame.
- For security areas, Torx® screws available for exposed fasteners
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory

Compliance
- ANSI/BHMA A156.8, Grade 1 Certified (Hold Open, Stop Models)
- Stop function UL listed for fire door assemblies





Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number		
		Friction	H.O.	Stop
*24 - 28	—	1-116	1-126	1-136
28-1/16 - 33	30 - 36	1-216	1-226	1-236
33-1/16 - 38	36-1/16 - 41	1-316	1-326	1-336
38-1/16 - 43	41-1/16 - 46	1-416	1-426	1-436
43-1/16 - 48	46-1/16 - 50	1-516	1-526	1-536

**Butt hung only on this size door. No swing clear hinges.*

Finishes

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
629 (US32)	Bright stainless steel
630 (US32D)	Satin stainless steel
631 (US19)	Flat black
632 (US3)	Bright brass plated, clear coated
633 (US4)	Satin brass plated, clear coated
637 (US9)	Bright bronze plated, clear coated
639 (US10)	Satin bronze plated, clear coated
645 (US14)	Bright nickel plated, clear coated
646 (US15)	Satin nickel plated, clear coated
652 (US26D)	Satin chromium plated
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

How to Order:

Specify model x finish

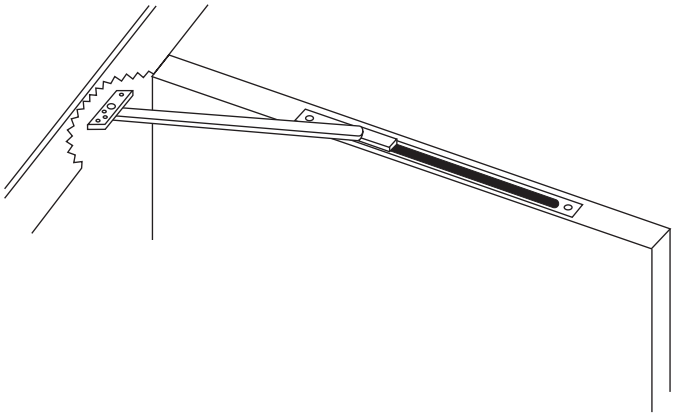
CONCEALED MOUNT
CHECKMATE® STOPS AND HOLDERS

1ADJ SERIES

Application
- Interior or exterior doors
- Single or double acting
- Non-handed
- Recommended for high traffic, heavy abuse situations

Features
- Heavy-duty, adjustable
- Slide track design
- Order specifically as a stop or hold open
- 1-3/4" minimum door thickness, for thicker doors consult factory
- 110° maximum opening (except 1ADJ for center hung 30-36" door which is 105°)
- Degree of opening is fully adjustable and can be adapted to changing needs
- Heavy shock absorber spring provides 5-7° compression before dead stop
- 1-3/16" square channel
- Complete screw packet kit for installation in wood or metal door and frame
- For security areas, Torx® screws available for exposed fasteners
- Durable slider cam and shock block
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.

Compliance
- ANSI/BHMA A156.8, Grade 1 Certified
- Stop function UL listed for fire door assemblies





Finishes

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
629 (US32)	Bright stainless steel
630 (US32D)	Satin stainless steel
631 (US19)	Flat black
632 (US3)	Bright brass plated, clear coated
633 (US4)	Satin brass plated, clear coated
637 (US9)	Bright bronze plated, clear coated
639 (US10)	Satin bronze plated, clear coated
645 (US14)	Bright nickel plated, clear coated
646 (US15)	Satin nickel plated, clear coated
652 (US26D)	Satin chromium plated
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number	
		H.O.	Stop
*24 - 28	—	1ADJ-126	1ADJ-136
28-1/16 - 33	30 - 36	1ADJ-226	1ADJ-236
33-1/16 - 38	36-1/16 - 41	1ADJ-326	1ADJ-336
38-1/16 - 43	41-1/16 - 46	1ADJ-426	1ADJ-436
43-1/16 - 48	46-1/16 - 50	1ADJ-526	1ADJ-536

**Butt hung only on this size door. No swing clear hinges.*

How to Order:
Specify model x finish

2 SERIES

Application
- Interior doors
- Doors may be single or double acting
- Non-handed
- Recommended for moderate traffic, medium weight doors

Features
- Standard duty, adjustable
- Slide track design
- Degree of opening is fully adjustable and can be adapted to changing needs
- Heavy shock absorber spring provides 5-7° compression before dead stop
- Can be ordered specifically as a stop, friction stay, or hold open
- Multi-function unit is shipped as a stop. Can be converted to a hold open or friction in the field. 5012-PKG (Adapter kit) included
- Complete screw packet kit for installation in wood or metal door and frame
- For security areas, Torx® screws available for exposed fasteners, but heavy-duty units should be considered for high security applications
- Durable slider cam and shock block
- 110° maximum opening
- 3/4" square channel
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.

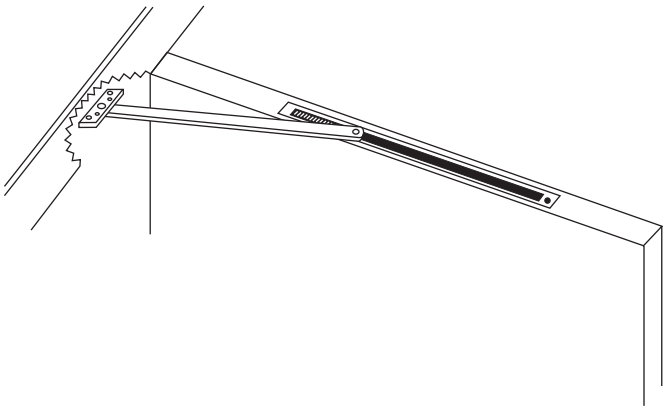
Compliance
- ANSI/BHMA A156.8, Grade 1 Certified (Stop Models)
- Stop function UL listed for fire door assemblies

Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number			
		Friction	H.O.	Stop	Multi
*18 - 24	—	2-116	2-126	2-136	2-146
24-1/16 - 30	27 - 32	2-216	2-226	2-236	2-246
30-1/16 - 36	32-1/16 - 38-1/2	2-316	2-326	2-336	2-346
36-1/16 - 42	38-9/16 - 45	2-416	2-426	2-436	2-446
42-1/16 - 48	45-1/16 - 48	2-516	2-526	2-536	2-546

**Butt hung only on this size door. No swing clear hinges.*

How to Order:
Specify model x finish





Finishes

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
629 (US32)	Bright stainless steel
630 (US32D)	Satin stainless steel
631 (US19)	Flat black
632 (US3)	Bright brass plated, clear coated
633 (US4)	Satin brass plated, clear coated
637 (US9)	Bright bronze plated, clear coated
639 (US10)	Satin bronze plated, clear coated
645 (US14)	Bright nickel plated, clear coated
646 (US15)	Satin nickel plated, clear coated
652 (US26D)	Satin chromium plated
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

CONCEALED MOUNT

CHECKMATE® STOPS AND HOLDERS

5 SERIES

Application

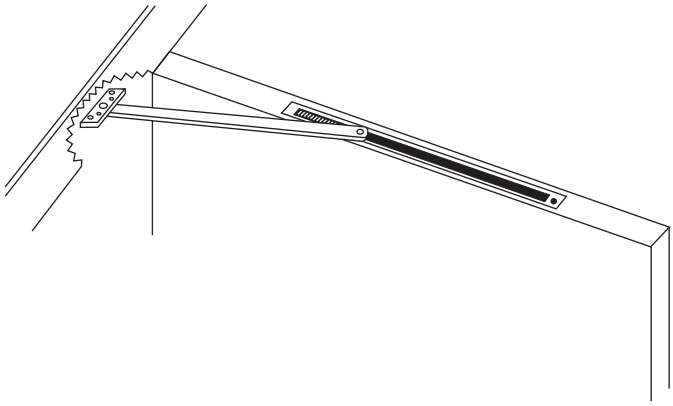
- Interior doors
- Doors may be single or double acting
- Non-handed
- Recommended for moderate traffic, medium weight interior doors

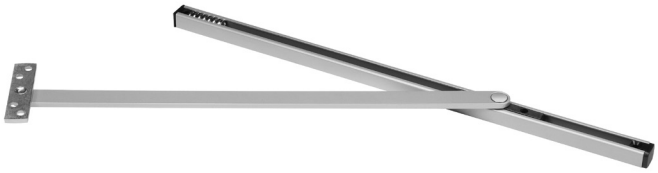
Features

- Standard duty
- Slide track design
- Degree of opening determined by templating – not field adjustable.
- Heavy shock absorber spring provides 5-7° compression before dead stop
- Complete screw packet allows for installation in wood or metal door and frame
- For security areas, Torx® screws available for exposed fasteners, but heavy-duty units should be considered for high security applications
- Durable slider cam and shock block
- 110° maximum opening
- 3/4" square channel
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.

Compliance

- ANSI/BHMA A156.8, Grade 1 Certified (Stop Models)
- Stop function UL listed for fire door assemblies





Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number	
		H.O.	Stop
*18 - 24	—	5-126	5-136
24-1/16 - 30	27-32	5-226	5-236
30-1/16 - 36	32-1/16 - 38-1/2	5-326	5-336
36-1/16 - 42	38-9/16 - 45	5-426	5-436
42-1/16 - 48	45-1/16 - 48	5-526	5-536

**Butt hung only on this size door. No swing clear hinges.*

Finishes

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
652 (US26D)	Satin chromium plated
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

How to Order:

Specify model x finish

CONCEALED MOUNT

CHECKMATE® STOPS AND HOLDERS

6 SERIES

Application

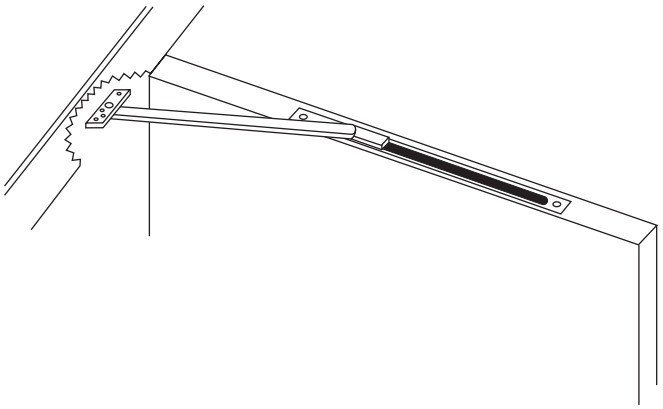
- Interior or exterior doors
- Doors may be single or double acting
- Non-handed
- Recommended for high traffic, heavy abuse installations

Features

- Low profile
- Low profile concealed channel designed for installation in aluminum storefront doors
- Heavy shock absorber spring provides 5-7° compression before dead stop
- Complete screw kit allows for installation in wood or metal door and frame
- For security areas, Torx® screws optional
- Durable slider cam
- 110° maximum opening
- 1-3/4" minimum door thickness
- Channel is 1-1/4" wide by 1/2" deep
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory
- Available in stop function only

Compliance

- ANSI/BHMA A156.8, Grade 1 Certified
- UL listed for fire door assemblies





Finishes

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
629 (US32)	Bright stainless steel
630 (US32D)	Satin stainless steel
631 (US19)	Flat black
632 (US3)	Bright brass plated, clear coated
633 (US4)	Satin brass plated, clear coated
637 (US9)	Bright bronze plated, clear coated
639 (US10)	Satin bronze plated, clear coated
645 (US14)	Bright nickel plated, clear coated
646 (US15)	Satin nickel plated, clear coated
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number
Door Opening		Stop
*24 - 28	—	6-136
28-1/16 - 33	30 - 36	6-236
33-1/16 - 38	36-1/16 - 41	6-336
38-1/16 - 43	41-1/16 - 46	6-436
43-1/16 - 48	46-1/16 - 50	6-536

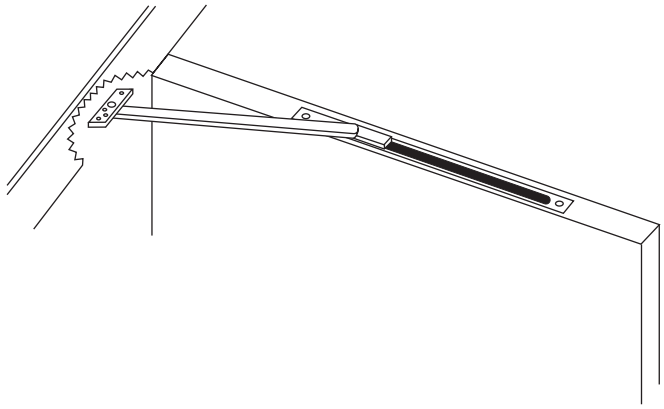
**Butt hung only on this size door. No swing clear hinges.*

How to Order:

Specify model x finish

CONCEALED MOUNT
CHECKMATE® STOPS AND HOLDERS

6ADJ SERIES





Application
- Interior or exterior doors
- Doors may be single or double acting
- Non-handed
- Recommended for high traffic, heavy abuse installations

Features
- Low profile, adjustable
- Low profile concealed channel design for installation in aluminum doors
- Heavy shock absorber spring provides 5-7°compression before dead stop
- Degree of opening is fully adjustable and can be adapted to changing needs
- Complete screw packet for installation in wood ormetal door and frame
- For security areas, Torx® screws available for exposed fasteners
- Durable slider cam and shock block
- 110° maximum opening (except 6ADJ for center hung 30-36" door which is 105°)
- 1-3/4" minimum door thickness, for thicker doors consult factory
- Channel is 1-1/4" wide x 1/2" deep
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.
- Available in stop function only

Compliance
- ANSI/BHMA A156.8, Grade 1 Certified
- UL listed for fire door assemblies

Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number
		Stop
*24 - 28	—	6ADJ-136
28-1/16 - 33	30 - 36	6ADJ-236
33-1/16 - 38	36-1/16 - 41	6ADJ-336
38-1/16 - 43	41-1/16 - 46	6ADJ-436
43-1/16 - 48	46-1/16 - 50	6ADJ-536

**Butt hung only on this size door. No swing clear hinges.*

How to Order:
Specify model x finish

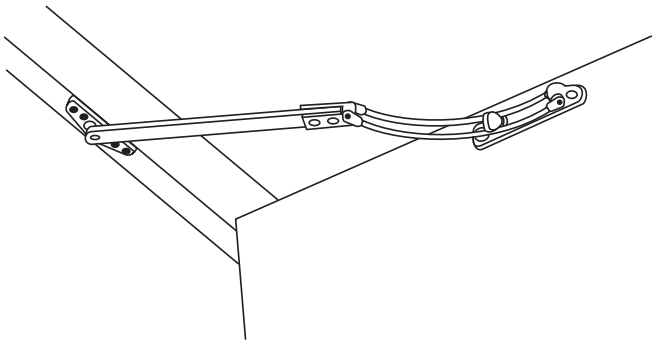
Finishes

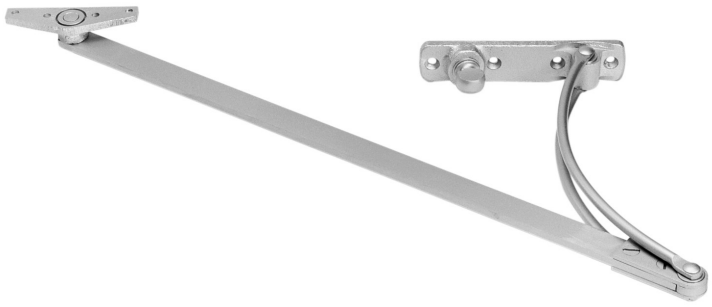
ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
629 (US32)	Bright stainless steel
630 (US32D)	Satin stainless steel
631 (US19)	Flat black
632 (US3)	Bright brass plated, clear coated
633 (US4)	Satin brass plated, clear coated
637 (US9)	Bright bronze plated, clear coated
639 (US10)	Satin bronze plated, clear coated
645 (US14)	Bright nickel plated, clear coated
646 (US15)	Satin nickel plated, clear coated
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

7 SERIES

Application
- Interior or exterior doors
- Single acting
- Non-handed

Features
- Industrial duty
- Cantilever design
- Hold open only
- Double spring arm absorbs shock
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- For security areas, Torx® screws available for exposed fasteners
- Self-lubricating bronze bearings
- 110° maximum opening
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.





Door Opening Chart (in inches)

Butts Offset Pivots	Model Number
	Hold Open
24 - 30	7-126
30-1/16 - 34	7-226
34-1/16 - 39	7-326
39-1/16 - 48	7-426

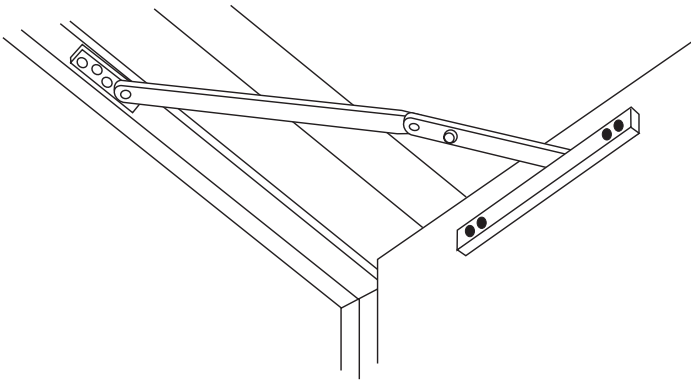
Finishes

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

How to Order:
Specify model x finish

SURFACE MOUNT
CHECKMATE® STOPS AND HOLDERS

8HD SERIES





Application
- Interior or exterior doors
- Single acting doors, push side mounting only
- Non-handed
- Recommended for high traffic, heavy abuse installations

Features
- Extra heavy-duty
- Double lever design
- Recommended for high traffic, heavy abuse installations
- Extra heavy shock absorber spring provides 6° compression before deadstop
- Available with stop function or thumbturn hold open
- Complete screw packet with thru-bolts for door, wood and machine screws for frame.
- Torx® screws optional for security applications
- 110° maximum opening
- 1-3/4" minimum door thickness
- For flush mounting on the push side of the door use angle jamb bracket adapter 5458-LH or 5459-RH
- Cannot be mounted on pull side of door
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.
- Stainless steel base metal only

Compliance
- Stop function UL listed for fire door assemblies

Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number	
		H.O.	Stop
27-1/16 - 32-1/2	27-9/16 - 35	8-226	8-236
32-9/16 - 38-3/4	35-1/16 - 42-1/2	8-326	8-336
38-13/16 - 42-1/2	41-9/16 - 45	8-426	8-436
42-9/16 - 48	45-1/16 - 48	8-526	8-536

How to Order:
Specify model x finish

Finishes

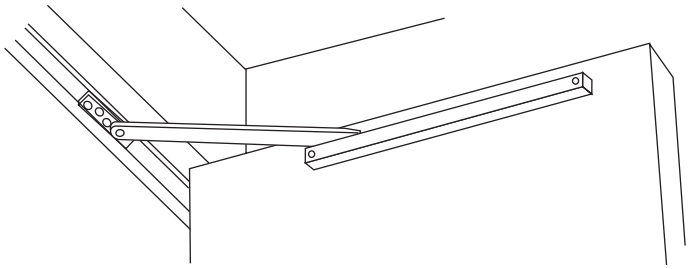
ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
629 (US32)	Bright stainless steel
630 (US32D)	Satin stainless steel
631 (US19)	Flat black
632 (US3)	Bright brass plated, clear coated
633 (US4)	Satin brass plated, clear coated
639 (US10)	Satin bronze plated, clear coated
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

9 SERIES

Application
- Interior or exterior doors
- Doors are single acting
- Non-handed
- Recommended for high traffic, heavy abuse installations

Features
- Heavy-duty
- Slide track design
- Heavy shock absorber spring provides 5-7° compression before deadstop
- LS option omits spring for special application
- On/off knob on hold open models
- Stop, friction stay or hold open function
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- Torx® screws optional for security applications
- Durable slider cam and shock block
- 110° maximum opening
- 1-3/4" minimum door thickness
- 1-3/16" square channel
- For pull side mounting or flush mounting on push side or for rabbeted push side use angle jamb bracket adapter 5458-LH or 5459-RH
- Hanging means other than standard butts or offset pivots require special templating

Compliance
- ANSI/BHMA A156.8, Grade 1 Certified (Hold Open, Stop Models)
- Stop function UL listed for fire door assemblies





Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number		
		Friction	H.O.	Stop
*24 - 28	25-1/2 - 30	9-116	9-126	9-136
28-1/16 - 33	30-1/16 - 36	9-216	9-226	9-236
33-1/16 - 38	36-1/16 - 41	9-316	9-326	9-336
38-1/16 - 43	41-1/16 - 46	9-416	9-426	9-436
43-1/16 - 48	46-1/16 - 50	9-516	9-526	9-536

**Butt hung only on this size door. No swing clear hinges.*

Finishes

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
629 (US32)	Bright stainless steel
630 (US32D)	Satin stainless steel
631 (US19)	Flat black
632 (US3)	Bright brass plated, clear coated
633 (US4)	Satin brass plated, clear coated
637 (US9)	Bright bronze plated, clear coated
639 (US10)	Satin bronze plated, clear coated
645 (US14)	Bright nickel plated, clear coated
646 (US15)	Satin nickel plated, clear coated
652 (US26D)	Satin chromium plated
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

How to Order:

Specify model x finish

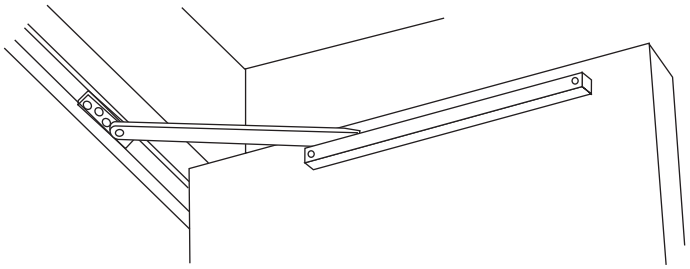
SURFACE MOUNT
CHECKMATE® STOPS AND HOLDERS

9ADJ SERIES

Application
- Interior or exterior doors
- Doors are single acting
- Non-handed
- Recommended for high traffic, heavy abuse installations

Features
- Heavy-duty, adjustable
- Slide track design
- Heavy shock absorber spring provides 5-7° compression before dead stop
- Degree of opening is fully adjustable and can be adapted to changing needs
- Complete screw packet with thru-bolts for door, wood and machine screws for the frame
- For security areas, Torx® screws available for exposed fasteners
- Durable slider cam and shock block
- 110° maximum opening (except 9ADJ for center hung 30-36" door which is 105°)
- 1-3/4" minimum door thickness, for thicker doors consult factory
- 1-3/16 square channel
- For pull side mounting or flush and rabbeted mounting on push side use angle jamb bracket adapter 5458-LH or 5459-RH
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.

Compliance
- ANSI/BHMA A156.8, Grade 1 Certified
- Stop function UL listed for fire doors





Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number	
		H.O.	Stop
*24 - 28	25-1/2 - 30	9ADJ-126	9ADJ-136
28-1/16 - 33	30-1/16 - 36	9ADJ-226	9ADJ-236
33-1/16 - 38	36-1/16 - 41	9ADJ-326	9ADJ-336
38-1/16 - 43	41-1/16 - 46	9ADJ-426	9ADJ-436
43-1/16 - 48	46-1/16 - 50	9ADJ-526	9ADJ-536

**Butt hung only on this size door. No swing clear hinges.*

How to Order:
Specify model x finish

Finishes

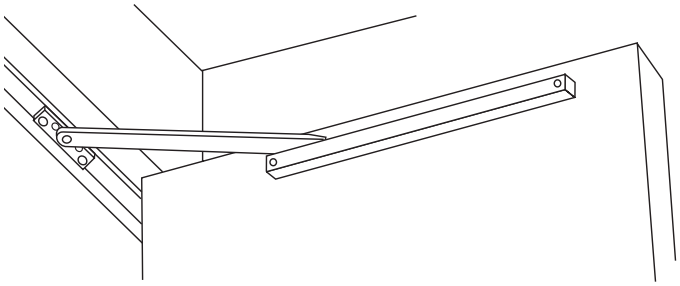
ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
629 (US32)	Bright stainless steel
630 (US32D)	Satin stainless steel
631 (US19)	Flat black
632 (US3)	Bright brass plated, clear coated
633 (US4)	Satin brass plated, clear coated
637 (US9)	Bright bronze plated, clear coated
639 (US10)	Satin bronze plated, clear coated
645 (US14)	Bright nickel plated, clear coated
646 (US15)	Satin nickel plated, clear coated
652 (US26D)	Satin chromium plated
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

10 SERIES

Application
- Interior doors
- Doors are single acting
- Non-handed
- Recommended for moderate, medium weight doors

Features
- Standard duty, adjustable
- Slide track design
- Degree of opening fully adjustable and can be adapted to changing needs
- Heavy shock absorber spring provides compression before deadstop
- Can be ordered specifically as a stop, friction stay, or hold open.
- Multi-function unit is shipped as a stop. Can be converted to a hold open or friction in field. 5012- PKG (Adapter kit) included
- Complete screw packet with thru-bolts for door, wood and machine screws for frame
- Torx® screws optional for security applications, but heavy-duty units should be considered for high-security applications
- Durable slider cam and shock block
- 110° maximum opening
- 3/4" square channel
- For pull side mounting or flush and rabbeted mounting on push side use angle jamb bracket adapter 5258
- Hanging means other than standard butts or offset pivots require special templating and pricing. Consult factory.

Compliance
- ANSI/BHMA A156.8, Grade 1 Certified (Stop Models)
- Stop function UL listed for fire door assemblies





Door Opening Chart (in inches)

Butts Offset Pivots	Center Hung Pivots	Model Number			
		Friction	H.O.	Stop	Multi
*18 - 24	21 - 26-1/2	10-116	10-126	10-136	10-146
24-1/16 - 30	26-9/16 - 32	10-216	10-226	10-236	10-246
30-1/16 - 36	32-1/16 - 38	10-316	10-326	10-336	10-346
36-1/16 - 42	38-1/16 - 45	10-416	10-426	10-436	10-446
42-1/16 - 48	45-1/16 - 48	10-516	10-526	10-536	10-546

**Butt hung only on this size door. No swing clear hinges.*

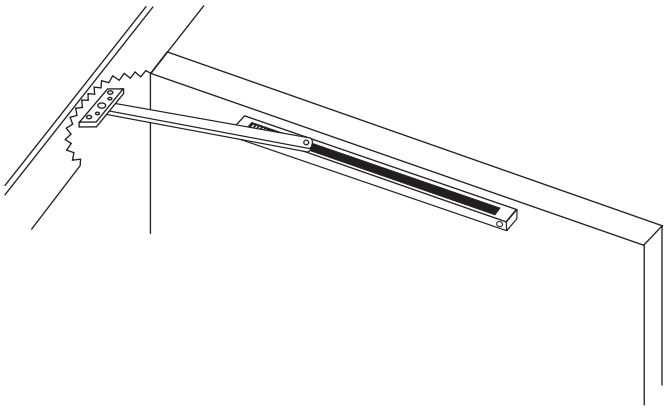
Finishes

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
629 (US32)	Bright stainless steel
630 (US32D)	Satin stainless steel
631 (US19)	Flat black
632 (US3)	Bright brass plated, clear coated
633 (US4)	Satin brass plated, clear coated
637 (US9)	Bright bronze plated, clear coated
639 (US10)	Satin bronze plated, clear coated
645 (US14)	Bright nickel plated, clear coated
646 (US15)	Satin nickel plated, clear coated
652 (US26D)	Satin chromium plated
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

How to Order:
Specify model x finish

SURFACE MOUNT
CHECKMATE® STOPS AND HOLDERS

55 SERIES





Application
- Interior doors
- Doors are single acting
- Non-handed
- Recommended for moderate traffic, medium weight doors

Features
- Standard duty
- Slide track design
- Degree of opening determined by template. Not field adjustable
- Heavy shock absorber spring provides 5-7° compression before deadstop
- Stop and hold open functions
- Complete screw packet with thru-bolts for door, wood and machine screws for the frame
- Torx® screws optional for security applications, but heavy-duty units should be considered for high-security applications
- Durable slide block and shock block
- 110° maximum opening
- 3/4" square channel
- For pull side mounting or flush and rabbeted mounting on push side use angle jamb bracket adapter 5258
- Hanging means other than standard butts or offset pivots require templating and pricing. Consult factory.

Compliance
- ANSI/BHMA A156.8, Grade 1 Certified (Stop Models)
- Stop function UL listed for fire door assemblies

Door Opening Chart (in inches)

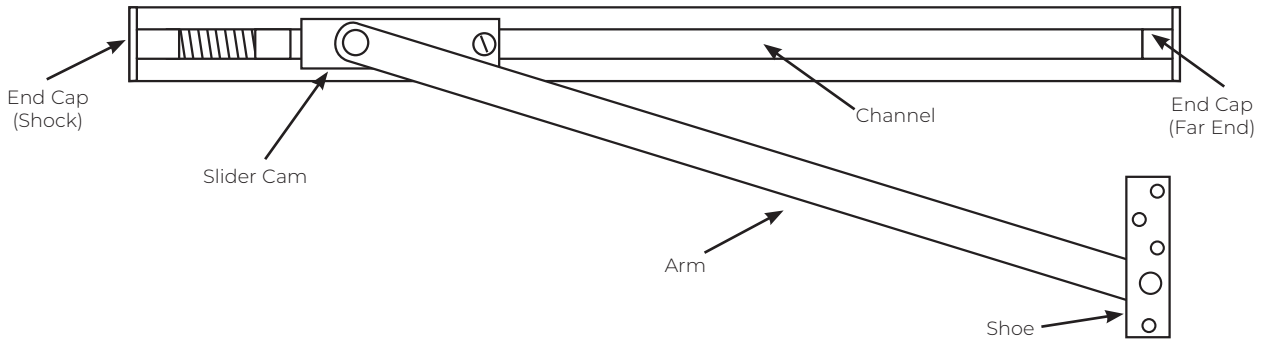
Butts Offset Pivots	Center Hung Pivots	Model Number	
		H.O.	Stop
*18 - 24	—	55-126	55-136
24-1/16 - 30	27 - 32	55-226	55-236
30-1/16 - 36	32-1/16 - 38-1/2	55-326	55-336
36-1/16 - 42	38-9/16 - 45	55-426	55-436
42-1/16 - 48	45-1/16 - 48	55-526	55-536

**Butt hung only on this size door. No swing clear hinges.*

Finishes

ANSI/BHMA (US)	Description
613E (US10BE)	Dark oxidized satin bronze - equiv.
652 (US26D)	Satin chromium plated
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
696 (US4)	Gold , painted
BSP	Black suede powder coat
WSP	White suede powder coat

How to Order:
Specify model x finish



End Caps #1, 2, 9 & 10 only		
1 & 9	Shock End Block	6003
	Far End Block	6004
2 & 5	Far End Block	5059 (2 req.)
10	Far End Block	5011 (2 req.)
Screw Kits		
1	Stop	6487-*
	Hold Open	6998N*
1ADJ	Stop and Holder	6487-*
2	Friction or Stop	5999-*
6	Stop	6487-*
7	Friction or Stop	3880-*XXXA
8	Friction or Stop	5897-*
9	Friction or Stop	6468-*
	Hold Open	6997N*
9ADJ	Stop and Holder	6468-*
10 & 55	Friction or Stop	5998-*

**specify finish*

Arm Assemblies (includes arm, shoe and slider cam)

Examples for ordering arm assemblies

Series	Dash	Size	Function	Letter for Arm Assembly	Finish		Part Number
1ADJ	–	3	36	R	630	=	1ADJ-236R 630
2	–	1	16	R	613E	=	2-116R 613E
6	–	4	36	R	630	=	6-436R 630
7	–	4	26	R	689	=	7-426R 689

Components for arm assemblies may not be ordered separately.

Adapter Kits

2	Hold Open, Friction Adapter	5012-PKG
10	Hold Open, Friction Adapter	5012-PKG

PARTS/SHIPPING WEIGHTS

CHECKMATE® STOPS AND HOLDERS

Less Spring – Suffix LS

Heavy-duty slide track type stops have a spring in the end of the channel that keeps the slider from deadstopping. If these units are being used with electromechanical closer, where the door, must deadstop, the LS option is needed. Available only with models 1 and 9



5258

Angle Jamb Bracket Adapter

Standard-duty models suffix 5258 (non-handed)

Heavy-duty models suffix 5458 (LH) or 5459 (RH)

When surface mounted units are mounted on a rabbeted door on the push side, flush door and transom on the push side, or in a reverse installation on the pull side of the door, a special bracket is needed. Note: not all models can be mounted on the pull side of the door (see specific model numbers in catalog.)



5458/5459

Security Screws – Suffix Torx®

Security screws can be supplied for exposed fasteners

Shipping Weights

Models	Shipping Weights
1, 1ADJ, 6, 6ADJ, 8HD, 9, 9ADJ	4.5 lbs.
2, 5, 10, 55	3.5 lbs.
7	7 lbs.

COMPARISON CHART

CHECKMATE® STOPS AND HOLDERS

PRODUCT COMPARISON CHART

	1 Series	1ADJ Series	2 Series	5 Series	6 Series	6ADJ Series	7 Series	8HD Series	9 Series	9ADJ Series	10 Series	55 Series
Application	High Traffic, Heavy Abuse Installations	High Traffic, Heavy Abuse Installations	Moderate Traffic, Medium Weight Doors	Moderate Traffic, Medium Weight Doors	High Traffic, Heavy Abuse Installations	High Traffic, Heavy Abuse Installations	Industrial Applications	High Traffic, Heavy Abuse Installations	High Traffic, Heavy Abuse Installations	High Traffic, Heavy Abuse Installations	Moderate Traffic, Medium Weight Doors	Moderate Traffic, Medium Weight Doors
Heavy-Duty	•	•			•	•		•	•	•		
Standard Duty			•	•							•	•
Concealed	•	•	•	•	•	•						
Low Profile					•	•						
Surface							•	•	•	•	•	•
Type of arm	Slide track	Slide track	Slide track	Slide track	Slide track	Slide track	Double spring	Double lever	Slide track	Slide track	Slide track	Slide track
Adjustable		•	•			•				•	•	
Exterior Door	•	•			•	•	•	•	•	•		
Interior Door	•	•	•	•	·	•	•	•	•	•	•	•
Single or Double Acting Doors	Single or Double	Single or Double	Single or Double	Single or Double	Single or Double	Single or Double	Single only	Single only (push side mount)	Single only	Single only	Single only	Single only
Maximum opening[1]	110°	110°	110°	110°	110°	110°	110°	110°	110°	110°	110°	110°
Standard Door Thickness[2]	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"
Friction	•		•						•		•	
Hold Open	•	•	•	•			•	•	•	•	•	•
Stop	•	•	•	•	•	•		•	•	•	•	•
Multi-Function			•								•	
LS option[3]	•								•			
Grade 1 Certified[4]	•	•	•	•	•	•			•	•	•	•
Stop function UL listed for fire door assemblies	•	•	•	•	•	•		•	•	•	•	•

1 Maximum opening for ADJ series center hung 30-36" is 105°
2 For thicker doors, consult factory
3 LS = Less spring
4 Refer to product pages for specify models that meet certification.

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44042-07/25

CATALOG

NORTON RIXSON

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OPERATORS

CONTROL FOR ANY APPLICATION







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⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

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INTRODUCTION

The Norton Rixson portfolio of low energy door operators offers a broad range of functions for all ranges of low- to high-use openings, to serve the specific needs of virtually any swing door application. These functions, combined with robust construction and testing, and additional user safety features ensure facilities comply with strict codes while reaping the benefits of a long-term life of reliable operation.

To deliver the highest quality of product, Norton Rixson designs, assembles, tests and ships out all door operators from its state-of-the-art manufacturing facility in Monroe, North Carolina.

Electrohydraulic

- Electrohydraulic low energy operators incorporate a door closer for smooth reliable door control
- These units are used in applications where doors are typically operated manually, but can also be activated via wall switches, motion sensors, etc. for automatic operation

Electromechanical

- Electromechanical low energy operators feature a motor and gearbox for consistent automatic operation
- These units are used in applications where automatic mode (activated by wall switches, motion sensors, etc.) is the primary function

NROS™ (Norton Rixson Operating System) is an integrated wireless hot spot, providing a seamless and secure wireless connection. Designed for simplicity and security, NROS ensures effortless operation with an easy setup, simple adjustments, and straightforward configuration. Whether you're setting up or making changes, the system is intuitive to use. Available on the 6000, 6300, 6200, 5200 and 4500 Series operators.

Benefits

- Seamless, secure wireless connection
- Easy to install- only 1-person needed
- Easy to adjust- connect to the Operator WiFi signal
- Setup & future adjustments can be done via phone or laptop

Safety/Security

- Password protected – secure connection to Operator when installing/adjusting
- No app, building WiFi, local internet or cell phone service needed
- Connection drops both by inactive time and distance from operator

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6000 SERIES
LOW ENERGY POWER OPERATORS

INTRODUCTION

The 6000 Series low energy operator is a heavy-duty unit designed for rigorous, high-use applications. Built-in intelligence enables the operator to safeguard users while providing better door control. Simple installation, setup, and adjustment, allows for seamless integration with a multitude of facilities and systems.



FEATURES

- Push or pull side mounting
- Non-handed
- Modular design for one person install
- LCD screen
- Full cover option on double/pair of doors
- 1.3A onboard power supply
- Activated by wall switch, hands-free, and RF devices
- Door width: 36"-48"
- Maximum door weight: 250 lbs
- Operates as a mechanical surface closer when power is off
- On board electronics collect usage and cycle count data to facilitate preventative maintenance/diagnostics
- NROS™ integrated wireless hot spot
- NorGlide® fluid
- 2 year limited warranty



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6000 SERIES
LOW ENERGY POWER OPERATORS

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FUNCTIONS

Adjustable Hold Open
- – Amount of time a door will stay in the full open position after an activation

Blow open for smoke ventilation
- – Door opens when signal is received from alarm system allowing air or smoke to flow through opening.
- – Door will stay open until signal from alarm system is stopped

Infinite Hold Open
- – Door will hold open at set position until power is turned off

Obstruction Detection
- – Open: door closes if it hits an obstruction while opening
- – Close: door reopens (once) if it hits an obstruction while closing. If it hits the obstruction again, the door will rest against the obstruction until it is removed

Open Delay
- – Delays operator opening for locking hardware

Overload Safety Shut-Off
- – After 3 minutes of receiving a door activation signal, inverter times out and door closes
- – Prevents motor/inverter damage

Presence Detector Input
- – Input for external sensor to detect presence at door open or close position only

Push & Go
- – As the door is manually opened, the operator "senses" movement and opens door to the full-open position

Selector mode switch
- – Off - Disables signal inputs unless Blow Open is activated
- – On - Activates signal inputs
- – Hold Open - Activates the unit (unless blow closed is activated on 6300) to the hold open position

Two Selectable Output relay
- – Multi-function relay outputs

Vestibule Delay
- – When the wall switch is pressed, first door in vestibule will open. Second door will open once vestibule door delay has expired. Delay is adjustable.

ELECTRICAL DATA

- Power input 120 VAC, 60 Hz (+10%, -15%)
- Current draw 0.9A (single), 1.8A (double)
- Auxiliary output 24 VDC @ 1.3A
- SPDT relay output for controlling electric strikes or electric locks not to exceed 1 amp @ 30 VDC

CERTIFICATIONS

- ANSI/BHMA A156.19 certified BHMA CERTIFIED
- ETL tested to UL-cUL standards for automatic doors used on fire and smoke barrier doors and CSA C22.2 No. 247 for operators and systems of doors
- UL10C positive pressure push (3-hour), pull (90 min)
- Comply with requirements for the Americans with Disabilities Act (A.D.A)
- California State Fire Marshall Listing 3266-0944:0110
- Manufactured in an ISO 9001 and ISO 14001 facility
- Verified by Green Circle to offer the following energy savings as compared to similar products:
  - – 19% efficiency
- Health product declaration and UL certified environmental product declaration

PATENTS

- www.assaabloydss.com/patents

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6000 SERIES
LOW ENERGY POWER OPERATORS

ARCHITECTURAL SPECIFICATIONS

General Specifications

- Door Controls (interior)(exterior) swinging door(s) shall be of rack and pinion design contained within a precision cast aluminum housing.
- Door closing force shall be adjustable to ensure adequate closing control.
- Door closing speed shall be controlled by independent hydraulic adjustment valves in the sweep and latch range of the closing cycle.
- Door Operator shall provide conventional door closer opening and closing forces unless the power operator motor is activated.
- Door Operator opening force and speed shall be adjustable in the inverter/interface module's LCD screen to ensure adequate opening control per accessibility codes.
- Door Operator shall have an adjustable hydraulic back-check valve to cushion the door speed if opened violently.
- Door Operator shall utilize the inverter/interface module's LCD screen and joystick to establish door closed and open positions. [(Door Operator shall be AUTOMATICALLY ACTIVATED by either a slight push or pull in the direction of opening swing – Push & Go.) (Door Operator shall be SELECTIVELY ACTIVATED by external initiating device, i.e. wall switch, etc.) (Door Operator shall be both AUTOMATICALLY ACTIVATED and SELECTIVELY ACTIVATED.)]
- Unit shall include “E-saver” feature to automatically recognize abled body traffic and immediately trigger door to close after sensing no forces on door.
- Unit shall have delay for motor activation, electric lock interfacing, and hold open time. Units shall have SPDT relay for interfacing latch retraction exit devices or similar products and have 24VDC @ 1.3A output for connection of electric strike, lock, radio frequency receiver, etc.
- Units shall have Vestibule sequencing input for operation of two or more units.
- Unit shall have smoke ventilation inputs to power open doors when activated by fire or smoke alarm.
- Unit shall have a three-position Selector Mode Switch that will permit the unit to be switched “ON” to monitor for function inputs, switched to “H/O” for indefinite hold open function or switched “OFF” which will disable function inputs allowing unit to be used as a manual door closer.
- Unit shall be ETL tested to UL standards for automatic closing door.
- The Unit shall be adjustable to provide compliance with the requirements of the Americans With Disabilities Act (ADA). Unit shall be certified by BHMA to meet ANSI A117.1 and A156.19 requirements.
- Unit shall meet UL10C, UL-cUL and UL10B standards.

ADDITIONAL SPECIFICATIONS FOR FUNCTIONS

For Power Operator Function:

- When activated, the unit shall, by means of a motor, chain and closer, power open the door at both a speed and force that are adjustable to accessibility codes.
- The door shall be powered from a door closed position to a full door open position and remain in momentary hold open for 5 seconds minimum (adjustable 0 to 30 seconds in 1 second increments).
- [(Unit shall power open door to full open position up to 110°.) (Unit shall be capable of opening door manually from 110° – 180°.)]
- Once unit reaches full hold open position, if reinitiated, unit’s momentary hold open time shall restart from the maximum set time. If unit is initiated during the closing cycle, unit shall revert to opening cycle beginning at that door position.
- Unit shall have a toggled hold open input that upon first initiation will power door to a maintained hold open position; a second initiation will allow door to close.
- Unit shall have obstruction detection on closing, which will reverse the closing door to the full open position then re-attempt to close door after momentary hold open time has elapsed.
- Obstruction detection on opening shall shut motor off, allowing door to close under spring force. These obstruction detection features shall be integral to unit. During closing cycle, the unit shall close door under full spring power not to exceed a closing force of 15 lbf.

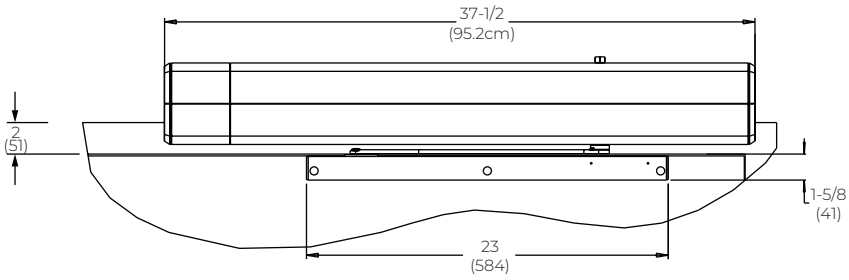
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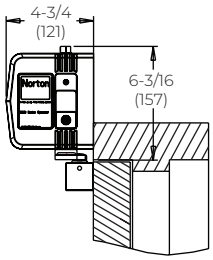
6000 SERIES
LOW ENERGY POWER OPERATORS

APPLICATIONS



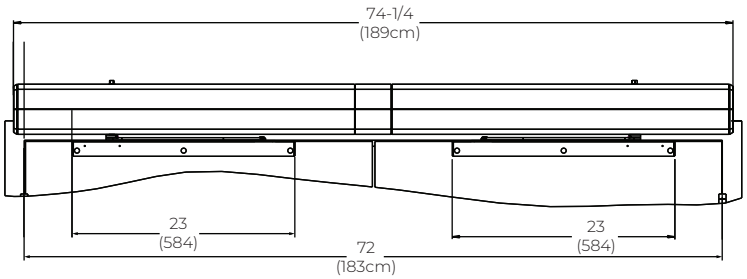
6011
HINGE (PULL) SIDE OF DOOR
RIGID ARM AND SLIDE TRACK

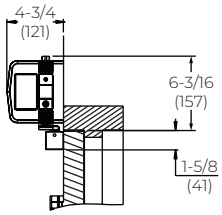






D6011-36
HINGE (PULL) SIDE OF DOOR
PAIR OF DOORS





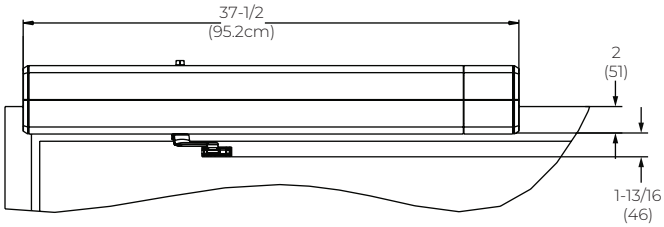
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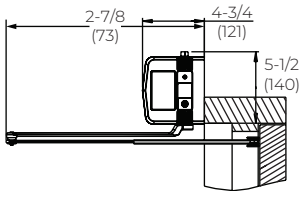
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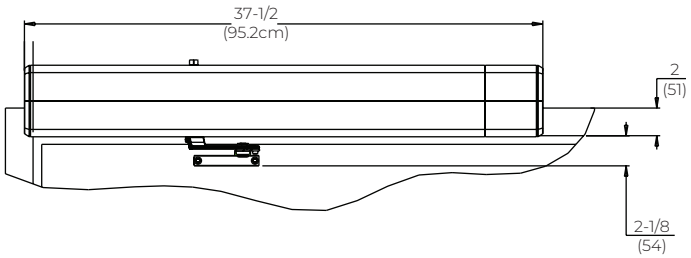
6031
STOP (PUSH) SIDE OF DOOR
STANDARD-DUTY DOUBLE LEVER ARM

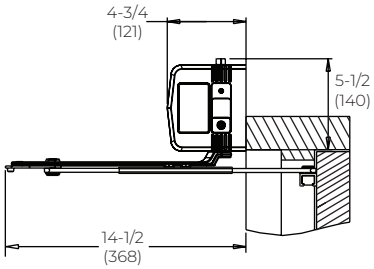






6061
STOP (PUSH) SIDE OF DOOR
HEAVY-DUTY UNITROL® ARM

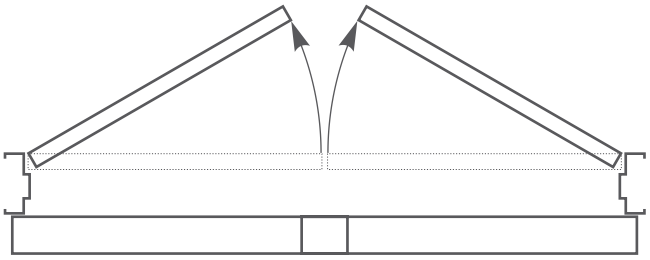




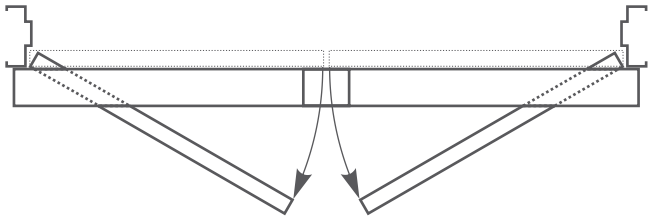
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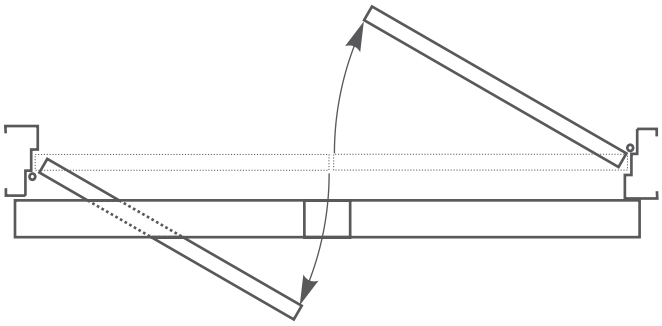
DOOR OPENING EXAMPLES



D6021/D6031/D6061/D6071 Series
Operator mounted on push side
left hand/right hand outswing doors



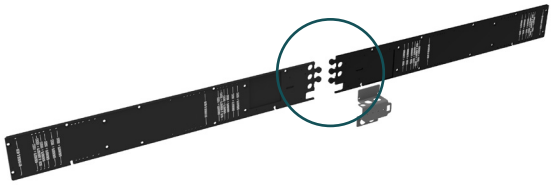
D6011/D6051 Series
Operator mounted on pull side
left hand/right hand inswing doors



D6001DER (Right Hand)
D6001DEL (Left Hand)
Right or left hand double egress doors
(right hand doors illustrated)

OPERATOR DETAILS

Heavy Duty Back Plates (Double Door Shown)





Back plates interlock and attach with a conduit assembly to provide strength and durability

Cover Union - Double and Single Doors









The 3-position switch (ON/OFF/HOLD OPEN) is easily accessible via a “door” on the cover union. The door is located in the middle for double doors and on the end for single doors.

End Cap





If needed, spring adjustment is accessible through the door on the end cap. Door can be “locked” with a screw for security.

6000 SERIES
LOW ENERGY POWER OPERATORS

TECHNICAL INFORMATION

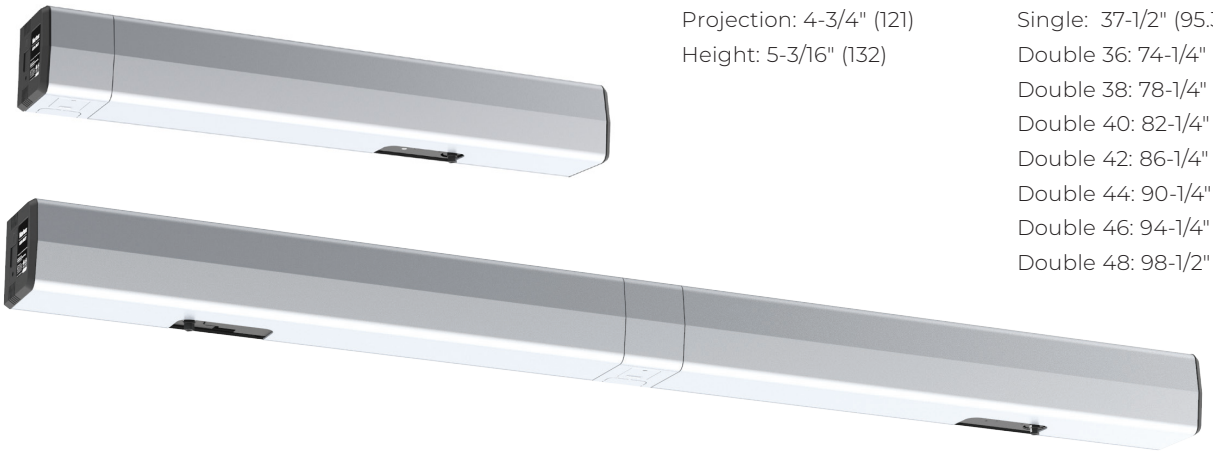
SINGLE AND DOUBLE DOORS					
Models	Minimum Frame Height	Minimum Top Rail (Door)	Minimum Door Width	Door Opening	Frame Reveal
6011, D6011	2" (51)	1-3/4" (44)	36" (91cm)	85° to 110° (5° increments)	1/8" (3)
6051, D6051		2-3/8" (60)			1/8" to 3" (3 - 76)
6021, D6021	1-1/2" (38)	1-7/8" (48)		Up to 110°	2-3/4" to 6-7/8" (70 - 175)
6031, D6031				From 110° to 180°	
6061, D6061		2-3/16" (56)		85° to 110° (5° increments)	2-1/4" to 4-3/4" * (57 - 121)
6071, D6071					4-13/16" to 7-3/8" (122 to 187)

DOUBLE EGRESS APPLICATIONS					
Models	Minimum Frame Height	Minimum Top Rail (Door)	Minimum Door Width	Door Opening	Frame Reveal
D6001DE	2" (51)	2-3/8" (60)	36" (91cm)	Up to 110°	2-1/4" to 3" (57-76)
D6001DE1					3-1/16" to 4-3/4" (78-121)
D6001DE2					4-13/16" to 7" (122-178)

NOTES:
- Auxiliary stops are recommended for the models 6011, 6051, D6011, D6051 and D6001DE pull side and required for models 6021, 6031, D6021 and D6031.
- Models 6061, 6071, D6061, D6071 and D6001DE push side have a spring buffered stop in the arm shoe assembly. Models 6011, 6051, D6011, D6051 and D6001DE pull side have a buffered stop assembly in the slide track.
- Drop applications are needed if the required ceiling clearance is less than 5" (127). Available for models 6021, 6031, 6061, 6071, D6021, D6031, D6061 and D6071. Suffix D to model number when ordering.

*Reveals less than 2-1/4" (57) may be achieved by field cutting the adjusting rod.

COVER DIMENSIONS



Single & Double Covers:
Projection: 4-3/4" (121)
Height: 5-3/16" (132)

Overall Lengths:
Single: 37-1/2" (95.3cm)
Double 36: 74-1/4" (188.6cm)
Double 38: 78-1/4" (198.8cm)
Double 40: 82-1/4" (209.8cm)
Double 42: 86-1/4" (219.1cm)
Double 44: 90-1/4" (229.2cm)
Double 46: 94-1/4" (239.4cm)
Double 48: 98-1/2" (249.6cm)

Dimensions are inches/mm (unless noted)

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6000 SERIES
LOW ENERGY POWER OPERATORS

PARTS LIST

Arm and Track Assemblies



6610-1 Arm and Track Assembly
7210-1A Arm Assembly
7200-1T Track Assembly



6020-1 Arm Assembly
6020-1W Main Arm & Rod
6620-12 Adjusting Tube & Shoe



6030-1 Arm Assembly
6030-1W Main Arm & Rod
6620-12 Adjusting Tube & Shoe



Left hand shown

6050-1L Arm and Track Assembly (LH)
6050-1R Arm and Track Assembly (RH)
6051-1L Arm and Track Assembly - Deep Reveal (LH)
6051-1R Arm and Track Assembly - Deep Reveal (RH)
6051-11L Arm Assembly - Deep Reveal (LH)
6051-11R Arm Assembly - Deep Reveal (RH)
7250-1L Arm Assembly (LH)
7250-1R Arm Assembly (RH)
7200-1T Track Assembly



6660-1 Arm Assembly
6660-11 Rod & Snubber Assembly



6670-1 Arm Assembly
6670-11 Rod & Snubber Assembly

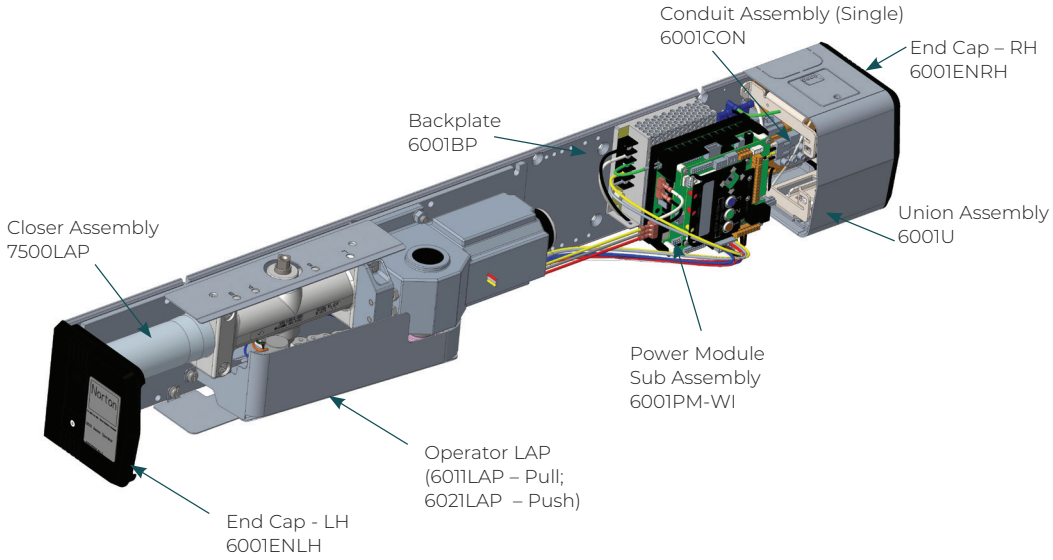


6061-1 Unitrol® Arm Assembly
6660-11 Rod & Snubber Assembly
6071-1 Unitrol Arm Assembly - Deep Reveal
6670-11 Rod & Snubber Assembly

MODEL	USES
6011	6610-1 Arm & Track Assembly
6021	6020-1 Arm Assembly
6031	6030-1 Arm Assembly
6051	6050-1L/R Arm & Track Assembly
6061	6660-1 Arm Assembly
6071	6670-1 Arm Assembly
D6001DE	6061-1 Unitrol Arm Assembly and 6050-1L/R Arm & Track Assembly
D6001DE1	6061-1 Unitrol Arm Assembly and 6051-1L/R Arm & Track Assembly - Deep Reveal
D6001DE2	6071-1 Unitrol Arm Assembly - Deep Reveal and 6051-1L/R Arm and Track Assembly - Deep Reveal

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PARTS LIST - SINGLE UNIT SHOWN



COVERS, BACK PLATES

PART NUMBER	DESCRIPTION
6001COV	Cover - Single
D6001COV-36	Cover - Double 36"
D6001COV-38	Cover - Double 38"
D6001COV-40	Cover - Double 40"
D6001COV-42	Cover - Double 42"
D6001COV-44	Cover - Double 44"
D6001COV-46	Cover - Double 46"
D6001COV-48	Cover - Double 48"
6001BP	Back Plate - Single
D6001BP-36-LH	Back Plate - Double 36" - Left Hand
D6001BP-36-RH	Back Plate - Double 36" - Right Hand
D6001BP-38-LH	Back Plate - Double 38" - Left Hand
D6001BP-38-RH	Back Plate - Double 38" - Right Hand
D6001BP-40-LH	Back Plate - Double 40" - Left Hand
D6001BP-40-RH	Back Plate - Double 40" - Right Hand
D6001BP-42-LH	Back Plate - Double 42" - Left Hand
D6001BP-42-RH	Back Plate - Double 42" - Right Hand
D6001BP-44-LH	Back Plate - Double 44" - Left Hand
D6001BP-44-RH	Back Plate - Double 44" - Right Hand
D6001BP-46-LH	Back Plate - Double 46" - Left Hand
D6001BP-46-RH	Back Plate - Double 46" - Right Hand
D6001BP-48-LH	Back Plate - Double 48" - Left Hand
D6001BP-48-RH	Back Plate - Double 48" - Right Hand

UNIT SUB-ASSEMBLY

PART NUMBER	DESCRIPTION
6011LAP*	6011, 6051 Unit Sub-Assembly
6021LAP*	6021, 6031, 6061, 6071 Unit Sub-Assembly

*Part Numbers may differ based on legacy models. Contact Norton Rixson Technical Product Support to verify for accuracy based on unit on hand.
Note: back plates are only available in black finish.

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6000 SERIES
LOW ENERGY POWER OPERATORS

DROP ANGLE, TRANSOM BRACKETS*

PART NUMBER	DESCRIPTION
6001DAB	Drop Angle Bracket - Single 36"
6001DAB2	Drop Angle Bracket - Single 38" and up
D6001DAB-36	Push Drop Angle Bracket - Double 36"
D6001DAB-38	Push Drop Angle Bracket - Double 38"
D6001DAB-40	Push Drop Angle Bracket - Double 40"
D6001DAB-42	Push Drop Angle Bracket - Double 42"
D6001DAB-44	Push Drop Angle Bracket - Double 44"
D6001DAB-46	Push Drop Angle Bracket - Double 46"
D6001DAB-48	Push Drop Angle Bracket - Double 48"
6011TAB-1	Pull Transom Single 36"
6011TAB-2	Pull Transom Single 38" and up
D6011TAB-36	Pull Transom Double 36"
D6011TAB-38	Pull Transom Double 38"
D6011TAB-40	Pull Transom Double 40"
D6011TAB-42	Pull Transom Double 42"
D6011TAB-44	Pull Transom Double 44"
D6011TAB-46	Pull Transom Double 46"
D6011TAB-48	Pull Transom Double 48"
6021TAB-1	Push Transom Single 36"
6021TAB-2	Push Transom Single 38" and up
D6021TAB-36	Push Transom Double 36"
D6021TAB-38	Push Transom Double 38"
D6021TAB-40	Push Transom Double 40"
D6021TAB-42	Push Transom Double 42"
D6021TAB-44	Push Transom Double 44"
D6021TAB-46	Push Transom Double 46"
D6021TAB-48	Push Transom Double 48"

MISCELLANEOUS PARTS

PART NUMBER	DESCRIPTION
6001PM-WI	Power Module Sub Assembly
6001U	Union Assembly - Single
D6001U	Union Assembly - Double
6001US	Union Spacer
6001SK	Shim Kit^
5700SW	On/Off Switch
6000CB	Circuit Breaker
6001MS	Motor Support
6001SC-1	Screw Pack - Back Plate
6001SC-2	Screw Pack - Standard
D6001SYNC	Sync Cable
D6001CON	Conduit Assembly (Double)
6000IN-WI	Inverter

^ Shim kit supplied standard. Kit includes (6) 1/16", (6) 1/8", and (12) 1/4" shims.
* Drop angle and transom brackets are shipped as 1 ea. When ordering these for double door applications, specify quantity as 2.
Note: drop angle brackets and transom brackets are only available in black finish.

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HOW TO ORDER

Specify Model and Finish. If ordering, unit for double doors, specify Door Width.

D6031 — **48"** — **If applicable, specify Options shown below** — **690**

MODEL
See chart below

DOOR WIDTH
Double Doors Only - Specify 36", 38", 40", 42" 44", 46" OR 48"

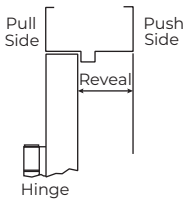
FINISHES

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
BSP	Black suede powder coat
WSP	White suede powder coat

Note: back plates, drop angle brackets and transom brackets are only available in black finish.

OPTIONS

RF - Radio Frequency Controls (Field wired, requires 531, 532 wall switch or 500 switch post (433MHz). Max codes 100)
D - Drop Application (Double Doors ONLY)
D1 - Drop Application (36" Single Door only)
D2 - Drop Application (Single Doors over 36")
DMY - Dummy unit. Double unit includes (1) operator and (1) door closer; single unit includes (1) door closer



	Model	Mounting			Arms					Reveals	Max Door Swing
		Pull Side	Push Side	Double Egress	Rigid Arm & Slide Track	Double Egress & Slide Track	Standard-Duty Double Lever	Heavy-Duty Unitrol® Arm	Heavy-Duty Double Lever		
Single	6011	•			•					Max 1/8" (3)	110°
	6051	•		•		•				1/8" - 3" (3-76)	
	6021		•				•			2-3/4" - 6-7/8" (70-175)	180°
	6031 (see note 1 below)		•				•				
	6061 (see note 2 below)		•					•		2-1/4" - 4-3/4" (57-121)	110°
	6071		•					•		4-13/16" - 7-3/8" (122-187)	
Double	D6011	•			•					Max 1/8" (3)	110°
	D6051	•				•				1/8" - 3" (3-76)	
	D6021		•				•			2-3/4" - 6-7/8" (70-175)	180°
	D6031 (see note 1 below)		•				•				
	D6061 (see note 2 below)		•					•		2-1/4" - 4-3/4" (57-121)	110°
	D6071		•					•		4-13/16" - 7-3/8" (122-187)	
	D6001DE (Handed)			•		•			•	2-1/4" - 3" (57-76)	110°
	D6001DE1 (Handed)			•		•			•	3-1/16" - 4-3/4" (78-121)	
	D6001DE2 (Handed)			•		•			•	4-13/16" - 7" (122-178)	

Notes:
1. 6031, D6031 - models will be power operatored to 110° but can be manually opened to 180°
2. 6061, D6061 - reveals less than 2-1/4" may be achieveed by field cutting the adjusting rod
* Consult Technical Support Department when door is hung on offset pivots or special reveals are required.
Dimensions are in inches/mm, unless noted.

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5700 SERIES
LOW ENERGY POWER OPERATORS

INTRODUCTION

A reliable ADA solution comprising Norton Rixson's heavy-duty 1601 door closer. The use of a hydraulic closer ensures quiet and consistently smooth operation, ideal in applications where doors are typically operated manually but can also be activated via wall switches for automatic operation. The 5700 offers basic automated door functions and is designed for quick set-up, making it easy to specify and install.



FEATURES

- Non-handed
- Push or pull side mounting
- Comprises heavy-duty Norton Rixson 1601 door closer
- Door widths: 28"-48"
- Maximum door weight: 250 lbs
- Optional kit includes wall switches and plug-in power cord
- Operates as mechanical surface close during close cycles, when door is opened manually or if power is off
- Spring force provides the feel of a manual door closer
- Door can be opened manually if desired
- Adjustable spring power
- Backcheck valve
- Sweep valve & latch valve
- Unit activation options:
  – Wall switches
  – Radio frequency device
- End-user on/off switch
- Adjustable door sensitivity
- Onboard power supply for accessories: 24VDC (1.1A)
- NorGlide® fluid
- 2-year limited warranty

BENEFITS

- Basic features simplify product choice
- Designed for quick installation, setup and adjustments
- Hydraulic closer offers quiet and smooth operation

PATENTS

- assaabloydss.com/patents

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5700 SERIES
LOW ENERGY POWER OPERATORS

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FUNCTIONS

- Adjustable Hold Open
  – Amount of time a door will stay in the full open position after an activation
- Obstruction Detection
  – Motor stops if door is obstructed during opening; door closes
- On/Off Switch
  – Disables operator activation
- Open Delay
  – Delays operator opening for locking hardware
- Overload Safety Shut-Off
  – After 2 minutes of receiving a door activation signal, inverter times out and door closes
  – Prevents motor/inverter damage

ELECTRICAL DATA

- Power input; 120 VAC, 60Hz
- Relay output: SPDT
  – Normally open/normally closed (jumper)
  – For electric strike function

CERTIFICATIONS

- ANSI/BHMA A156.19 certified
- Meets ANSI/BHMA A156.4 requirements
- UL / cUL listed
- UL10C positive pressure up to 3 hours
- Manufactured in an ISO 9001 and ISO 14001 certified facility
- Complies with requirements for the Americans with Disabilities Act (A.D.A)

SPECIFICATIONS

- Door Controls____ (interior) (exterior) swinging door(s) shall be of rack and pinion design contained within a precision cast aluminum housing.
- Door closing force shall be adjustable to ensure adequate closing control.
- Door closing speed shall be controlled by independent hydraulic adjustment valves in the sweep and latch range of the closing cycle.
- Door Operator shall provide conventional door closer opening forces unless the power operator motor is activated.
- Door Operator shall provide conventional door closing forces at all times except in the event of power outage during powered door open cycle.
- Door Operator opening force and speed shall be adjustable by independent electronic adjustment to ensure adequate opening control per accessibility codes.
- Door Operator shall have an adjustable hydraulic backcheck valve to cushion the door speed if door is opened violently.
- Door Operator shall have a manual adjustment to locate both full open and full closed door positions. Maximum door open shall be adjustable and capable to a maximum 180° conditions permitting. [(Door Operator shall be AUTOMATICALLY ACTIVATED, i.e., motion sensor.) (Door Operator shall be SELECTIVELY ACTIVATED by external initiating device, i.e., wall switch, etc.) (Door Operator shall be both AUTOMATICALLY ACTIVATED and SELECTIVELY ACTIVATED.)]
- Door operator shall have adjustable hold open time capability in range from 5 to 30 seconds.
- Door operator shall have input line rating of 120VAC, .6A or 240VAC, .3A. Units shall have relay contact for interfacing products having a contact rating of 30VDC at 1A or 125VAC at .5A.
- Unit shall have an external On/Off Switch to defeat powered opening when desired. Unit shall have an internal circuit breaker switch to interrupt input power for servicing.
- Unit shall be U.L. Listed for automatic closing door.
- Unit shall be in compliance with the requirements of the Americans With Disabilities Act (ADA), ANSI standards A117.1 and A156.19.
- Unit shall meet UL-cUL requirements.

ADDITIONAL DETAILED SPECIFICATIONS:

- When activated, the unit shall, by means of an integral motor and chain drive, power open the door at both a speed and force that are adjustable to meet accessibility codes.
- The door shall be powered from a door closed position to a full door open position and remain in momentary hold open for ___seconds (adjustable 0 to 30 seconds) [(Unit shall power open door to full open position up to 180° (5710); 170° (5730), conditions permitting.) (Unit shall be capable of allowing the door to be opened manually from 0 to 180°, conditions permitting.)]
- Once unit reaches full hold open position, if reinitiated, unit's momentary hold open time shall restart from the initially set hold open time. If unit is initiated during the closing cycle, unit shall revert to opening cycle beginning at that door position.
- Obstruction detection on open shall neutralize and reverse motor action reverting motor to closed position thus allowing door to close under closer spring force only. This obstruction detection feature shall be integral to unit.
- During closing cycle, the unit shall close door under spring power not to exceed a closing force of 15 lbf.

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5700 SERIES
LOW ENERGY POWER OPERATORS

APPLICATIONS

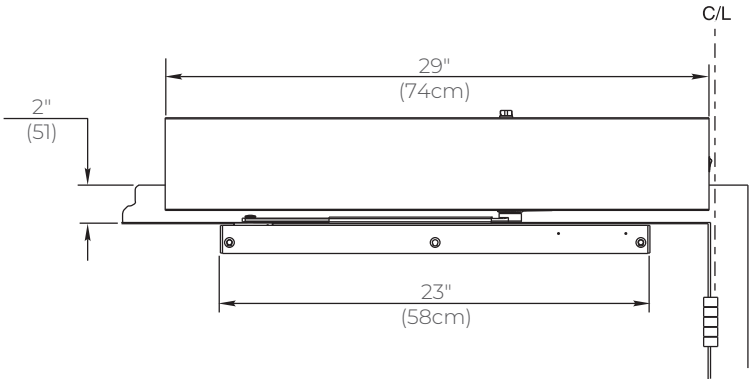


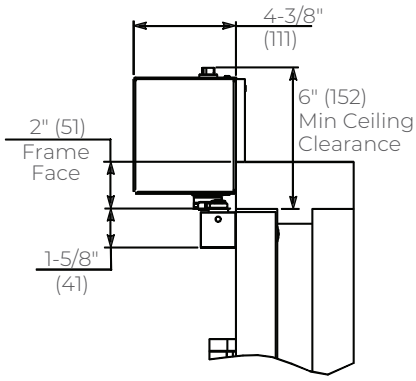
5710
HINGE (PULL)
SIDE OF DOOR

- Adjustable Stop
- 110° swing (trim permitting)

Minimum Door width
Single Door – 29" (74cm)
Pair of Doors – 30" (76cm)

An auxiliary stop is suggested where severe conditions exist.

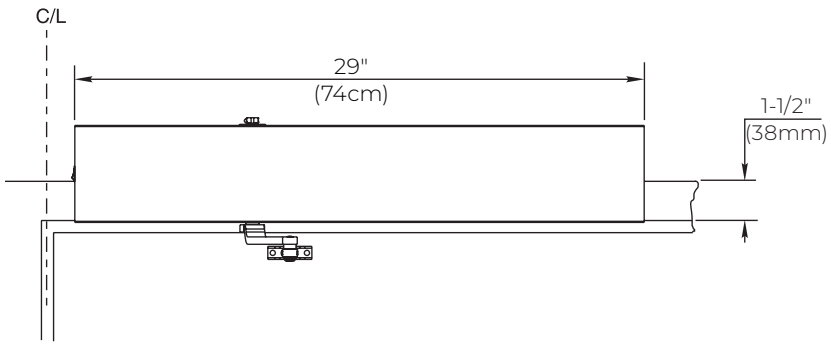


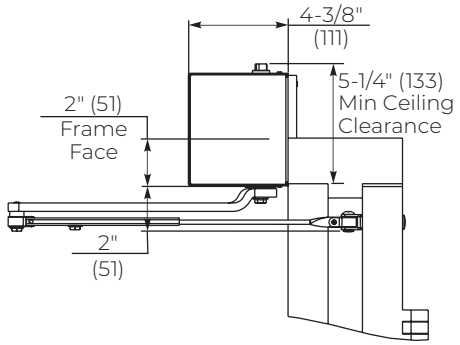




5730
STOP (PUSH) SIDE OF DOOR
Standard-Duty Double Lever Arm

- Frame reveals 2-5/8" to 6-3/4" (67-171mm)
- An auxiliary door stop is required for these applications.
- 170° swing (trim permitting)





Dimensions are in inches/mm, unless noted.

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5700 SERIES
LOW ENERGY POWER OPERATORS

APPLICATIONS

UNIVERSAL MOUNTING



5740
Kit Includes:
- Operator
- Cover
- Push and Pull Arms

HANDS-FREE KIT



5740K2
Kit Includes:
- Operator
- Cover
- Push and Pull Arms
- (2) 700 Wave-to-Open Switches
- 5700PC Power Cord

ADA KIT

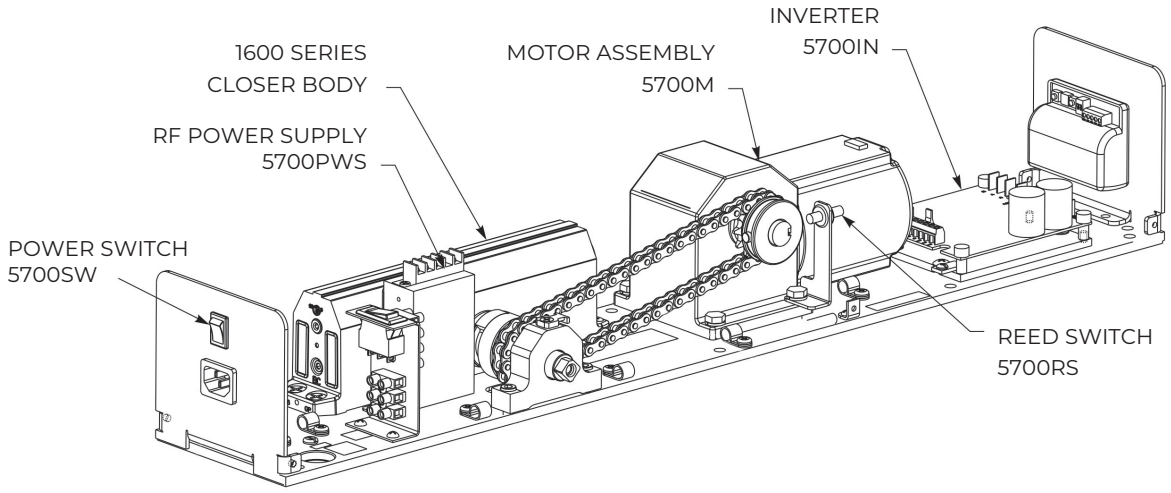


5740K3
Kit Includes:
- Operator
- Cover
- Push and Pull Arms
- (2) ADA1019-1 Wall Switches
- (2) 548 Transmitters
- 539 Receiver
- 5700PC Power Cord

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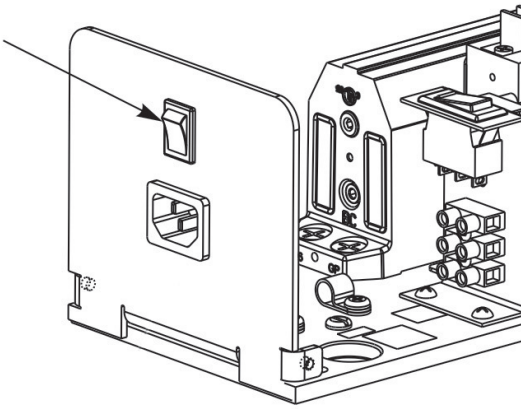
5700 SERIES
LOW ENERGY POWER OPERATORS

PARTS LIST

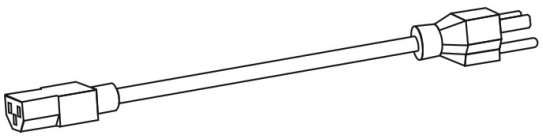


PART #	DESCRIPTION
5700COV	Cover

POWER SWITCH
5700SW



POWER CORD
5700PC



(125V / 10A RATED 18AWG 18 INCHES MAX., NEMA 5-15P AND IEC320-C13 CONNECTORS CORD MUST BE UL LISTED.)

POWER CORD INPUT
Factory prepped and installed receptacle

NOTE: Consult local authority having jurisdiction to confirm use of power cord is acceptable. Operator must be furnished with the power cord from the factory. Power cords cannot be added to operators in the field. Maximum distance from operator to receptacle is 15" (381).

Dimensions are in inches/mm, unless noted.

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5700 SERIES
LOW ENERGY POWER OPERATORS

ARM AND TRACK ASSEMBLIES



5710-1	Arm and Track Assembly
7701ST-1A	Arm Assembly
7200-1T	Track Assembly



7701-1A	Arm Assembly
7701-1W	Main Arm & Rod
7701-11A	Adjusting Tube & Shoe

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5700 SERIES
LOW ENERGY POWER OPERATORS

HOW TO ORDER

Specify Model or Kit and Finish.

5710 + **If applicable, specify Options shown below** + **BSP**

MODEL or KIT

See chart below

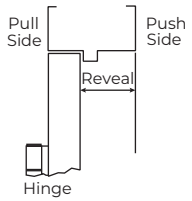
OPTIONS

RF - Radio Frequency^
PC - Power Cord
PCRF - Power Cord, Radio Frequency

FINISHES

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
BSP	Black suede powder coat
WSP	White suede powder coat

Model	Mounting		Arms		Reveals
	Pull Side	Push Side	Rigid Arm & Slide Track	Double Lever Arm	
5710	•		•		Max 1/8" (3)
5730		•		•	Min 2-5/8" (67) Max 6-3/4" (171)
5740	•	•	•	•	See 5710 or 5730



Kits	Includes
5740K2	Operator Cover Push & pull arms 5700PC power cord (2) 700 Wave-to-open switches
5740K3	Operator Cover Push & pull arms 5700PC power cord (2) ADA1019-1 wall switches (2) 548 transmitters 539 receiver

^Actuators not supplied with RF. See page 19 for Kits

Dimensions are in inches/mm, unless noted.

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5500 SERIES

LOW ENERGY POWER OPERATORS

INTRODUCTION

A reliable ADA solution comprising Norton Rixson's heavy-duty 1601 door closer. The use of a hydraulic closer ensures quiet and consistently smooth operation, ideal in applications where doors are typically operated manually but can also be activated via wall switches for automatic operation. The 5500 offers basic automated door functions and is designed for quick set-up, making it easy to specify and install.



FEATURES

- Non-handed
- Push or pull side mounting
- Maximum door weight: 250 lbs
- Obstruction detection
- Backcheck standard
- Use with wall switch actuation devices
- Integration with access control systems
- NorGlide® fluid
- 2 year limited warranty

CERTIFICATIONS

- ANSI/BHMA A156.19 certified
- Meets ANSI/BHMA A156.4 requirements
- UL / cUL listed
- UL10C positive pressure up to 3 hours
- Manufactured in an ISO 9001 and ISO 14001 certified facility
- Complies with requirements for the Americans with Disabilities Act (A.D.A)

BENEFITS

- Cost effective automatic door operator
- Compliant solution for stringent ADA requirements
- New smaller footprint for minimal aesthetics and tighter spaces
- Comprises hydraulic closer to ensure quiet function and smooth operation when opened manually
- One of the only fire rated, hydraulic operators available
- Easy, one-person installation with parts packaged pre-installed on backplate

PATENTS

- assaabloydss.com/patents

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5500 SERIES
LOW ENERGY POWER OPERATOR

APPLICATIONS

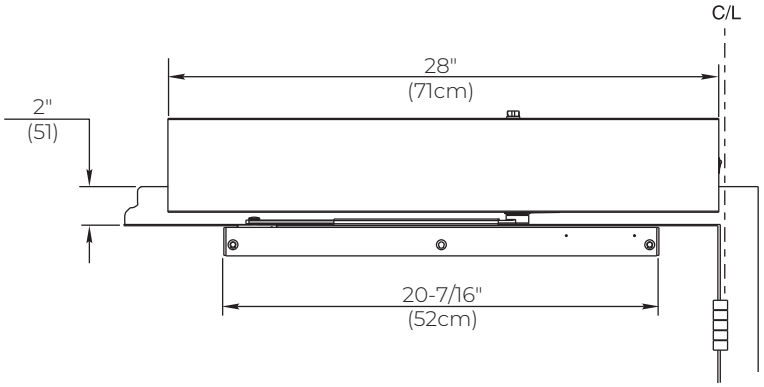


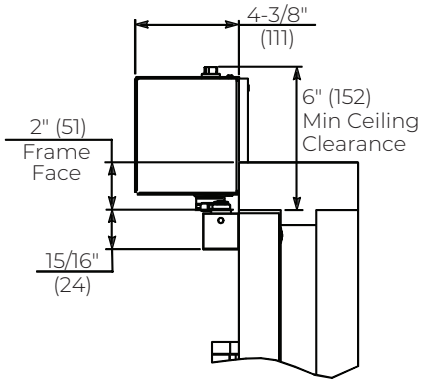
5511
HINGE (PULL)
SIDE OF DOOR

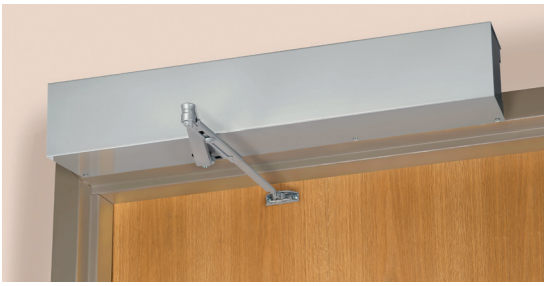
- Adjustable Stop
- 110° swing (trim permitting)

Minimum Door width
Single Door – 29" (74cm)
Pair of Doors – 30" (76cm)

An auxiliary stop is suggested where severe conditions exist.

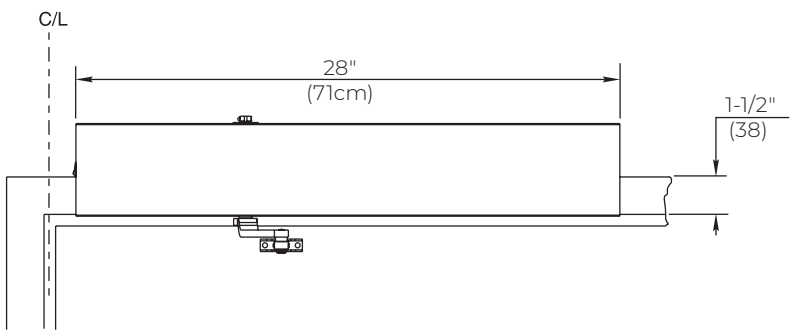


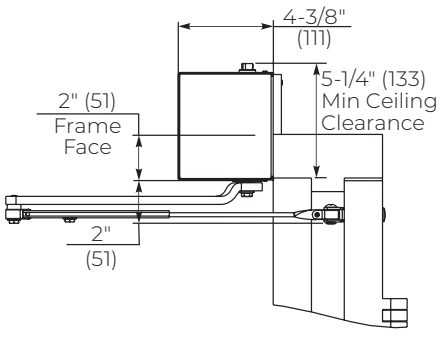




5531
STOP (PUSH) SIDE OF DOOR
Standard-Duty Double Lever Arm

- Frame reveals 2-5/8" to 6-3/4" (67-171)
- An auxiliary door stop is required for these applications
- 170° swing (trim permitting)

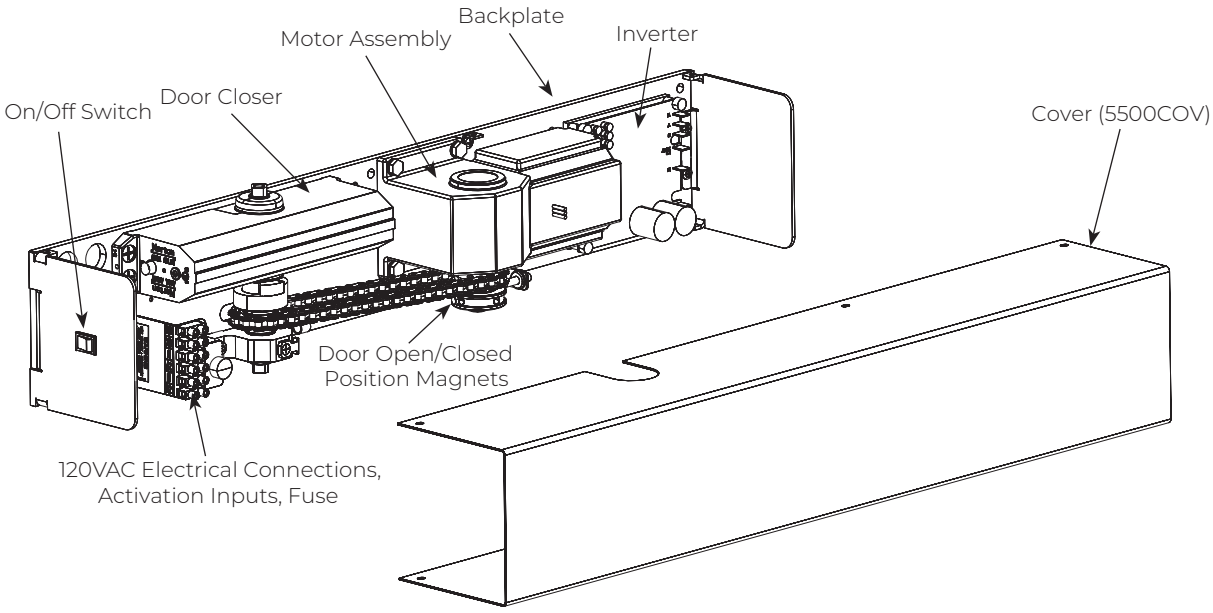




Dimensions are in inches/mm, unless noted.

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PARTS LIST



OPTIONAL

MODEL	DESCRIPTION
5500PWR	Power Supply

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ARM AND TRACK ASSEMBLIES



7110-1A	Arm Assembly
7100-1T	Track Assembly



7701-1A	Arm Assembly
7701-1W	Main Arm & Rod
7701-11A	Adjusting Tube & Shoe

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5500 SERIES
LOW ENERGY POWER OPERATORS

HOW TO ORDER

Specify Model, and Finish.

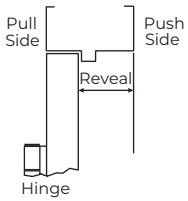
5531 **689**

MODEL

See chart below

FINISH

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted



Model	Mounting		Arms		Reveals
	Pull Side	Push Side	Rigid Arm & Slide Track	Double Lever Arm	
5511	•		•		Max 1/8" (3)
5531		•		•	Min 2-5/8" (67) Max 6-3/4" (171)

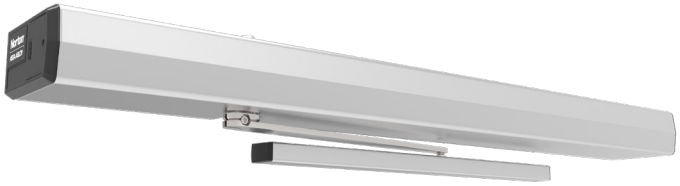
Dimensions are in inches/mm, unless noted.

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6300 SERIES
LOW ENERGY POWER OPERATORS

INTRODUCTION

The Norton Rixson 6300 Series Low Energy Operator offers a broad set of intelligent functions, such as power close, latch assist and obstruction detection to safely secure a variety of moderate to high traffic openings.
A unique design with one of the slimmest profiles available allows the 6300 to blend more seamlessly with the frame while fitting challenging applications with minimal header space. A modular design, simple controls, and NROS™ integrated wireless hot spot via a mobile device make for easy installation and setup.



FEATURES

- Push and pull side mounting
- Non-handed
- Activated by wall switch, hands-free and RF devices
- Door size: min width 36", max width 48", max weight 250 lbs.
- Aesthetically pleasing, slim profile
- Modular design
- Adjustable opening force
- Adjustable closing power
- LCD screen
- NROS™ integrated wireless hot spot
- 2 year limited warranty



SUPERIOR USER EXPERIENCE

- Operator is a secure, password protected WiFi hot spot - no connection to building's IT required
- Simple setup; no app required
- View status and make adjustments without removing cover
- Built-in logic to support single use restroom applications - no external relay boards, logic modules, position switches required

SHARED PLATFORM

- Mix and match 6300, 6200 and 5200 Series throughout facility to maximize value to customer
- Shared aesthetics with 6300 and 6200 Series
- Modular installation - one-person install
- Easy set up and adjustments header space

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6300 SERIES
LOW ENERGY POWER OPERATORS

FUNCTIONS

- Adjustable Hold Open
  - Amount of time a door will stay in the full open position after an activation
- Blow Open for Smoke Ventilation
  - Door opens when signal is received from alarm system allowing air or smoke to flow through opening
  - Door will stay open until signal from alarm system is stopped
- Emergency Interface Relay (fire panel input)
  - Door closes and ignores any activation input until signal is discontinued
- Infinite Hold Open
  - Door will hold open at set position until power is turned off
- Latch Assist
  - At closed position, after an activation, the door is pulled in
  - After the door has closed, the door is pulled in to assist with latch release engagement
- Obstruction Detection
  - Open: door closes if it hits an obstruction while opening
  - Close: door will reverse to open position if it hits an obstruction while closing
  - Close (Selectable - stop on stall): door will stop once it hits an obstruction and will rest against the obstruction until removed
- Open Delay
  - Delays operator opening for locking hardware
- Outside Wall Switch Disable
  - When contact is closed, outside wall switch is disabled
- Power Assist
  - Senses the door is being opened manually and applies small amount of power to assist user in opening the door with force less than 5 lbs.
  - Door opens only as far as it is moved manually, then closes once released
- Power Close
  - Additional force to assist door closing between 7° and 2°
- Presence Detector Input
  - Input for external sensor to detect presence at door open or close position only
- Push & Go
  - As the door is manually opened, the operator “senses” movement and opens door to the full-open – position
- Selector Mode Switch
  - Off - Disables signal inputs unless Blow Open is activated
  - On - Activates signal inputs
  - Hold Open - Activates the unit (unless blow closed is activated on 6300) to the hold open position
- Vestibule Delay
  - When the wall switch is pressed, first door in vestibule will open. Second door will open once vestibule door delay has expired. Delay is adjustable.

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6300 SERIES
LOW ENERGY POWER OPERATORS

ELECTRICAL DATA

- Power input 120 VAC, 3A, 60Hz
- Current draw 1.5A
- Power output 24VDC @ 1.3A max draw (less accessories)

PATENTS

- assaabloydss.com/patents

CERTIFICATIONS

- ANSI/BHMA A156.19 certified
- UL325/991 certified
- UL10C positive pressure up to 3 hours
- Complies with requirements for the Americans with Disabilities Act (A.D.A)
- Manufactured in an ISO 9001 and ISO 14001 certified facility

SPECIFICATIONS

- Door Control (interior) (exterior) closing force shall be adjustable to ensure adequate closing control.
- Door Operator shall simulate conventional door closer opening and closing forces unless the power operator motor is activated.
- Door Operator shall have electronic backcheck to cushion the door speed if door is opened violently. [(Door Operator shall be AUTOMATICALLY ACTIVATED by either a slight push or pull in the direction of opening swing - Push & Go.) (Door Operator shall be SELECTIVELY ACTIVATED by external initiating device, i.e. wall switch, etc.) (Door Operator shall be both AUTOMATICALLY ACTIVATED and SELECTIVELY ACTIVATED.)]
- Operator shall have selectable latch boost to provide additional closing force to overcome conditions that may prevent door from latching.
- Unit shall have delay switches for motor activation, electric lock interfacing, and hold open time.
- Units shall interface with latch retraction exit devices or similar products and have 24VDC @ 1.3A maximum (less accessories) output for connection of electric strike, lock, radio frequency receiver, etc.
- Unit shall have a three-position Selector Mode Switch that will permit the unit to be switched “ON” to monitor for function inputs, switch to “H/O” for infinite hold open function or switched “OFF” which will disable function inputs allowing unit to be used as a manual door closer.
- Unit shall be U.L. Listed for automatic closing door.
- The Unit shall be adjustable to provide compliance with the requirements of the Americans with Disabilities Act (ADA). Unit shall be certified by BHMA to meet A156.19 requirements.
- Unit shall meet UL325/991, UL10C standards.

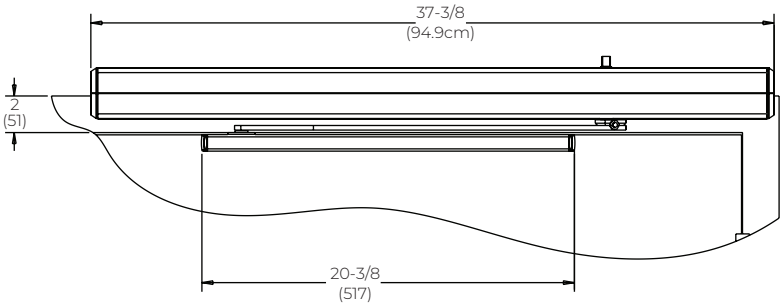
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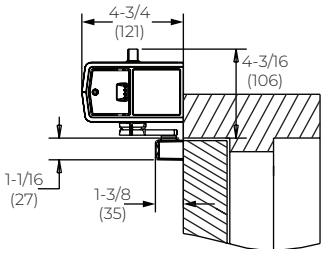
6300 SERIES
LOW ENERGY POWER OPERATORS

APPLICATIONS



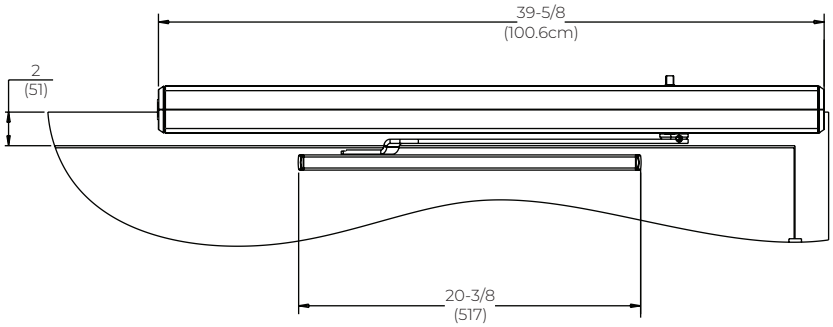
6311
HINGE (PULL) SIDE OF DOOR
RIGID ARM AND SLIDE TRACK

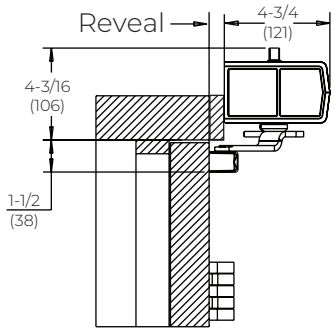






6352
DOUBLE EGRESS ARM (PULL)
SIDE OF DOOR





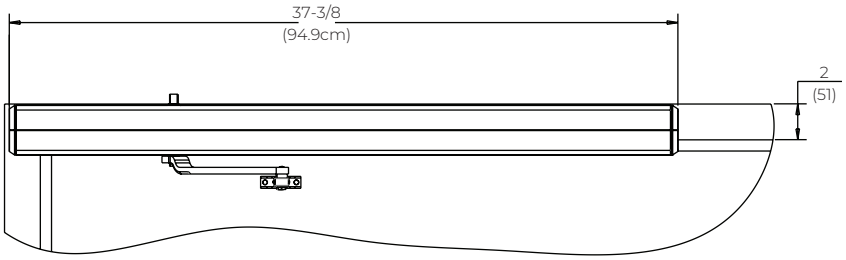
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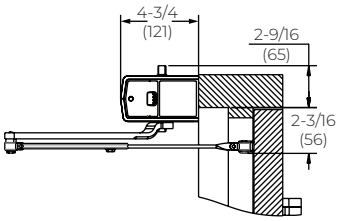
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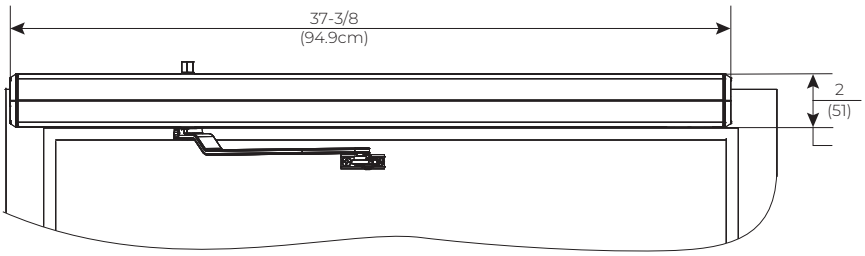
6331
LOW CEILING
STOP (PUSH) SIDE OF DOOR
STANDARD-DUTY DOUBLE LEVER ARM

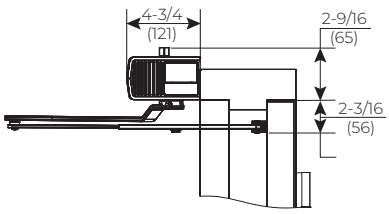






6361
FLUSH MOUNT
STOP (PUSH) SIDE OF DOOR
STANDARD DUTY DOUBLE LEVER ARM





Dimensions are in inches/mm, unless noted.

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6300 SERIES
LOW ENERGY POWER OPERATORS

6341, 6342 - UNIVERSAL UNITS
INCLUDE:

- Operator
- Cover
- Push and pull arms



operator

+



low ceiling, push arm ***(6330-1)***

+



pull arm ***(6310-1)***

6371, 6372 - UNIVERSAL UNITS
INCLUDE:

- Operator
- Cover
- Push and pull arms



operator

+



flush mount, push arm ***(6361-1)***

+



pull arm ***(6310-1)***

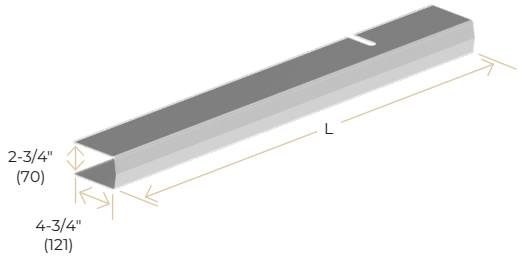
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6300 SERIES
LOW ENERGY POWER OPERATORS

PRODUCT COMPARISON

Model	Mounting		Low Ceiling	Flush Mount	Overall Length (L)	Cover spans full frame (36" door only)	Can be used on a pair of 36" doors
	Pull Side	Push Side					
6311	•				37-3/8" (94.9cm)	No	Yes
6331		•	•				
6361		•		•			
6351	•						
6312	•				39-5/8" (100.6cm)	Yes	No
6332		•	•				
6362		•		•			
6352	•						

Note: all models compatible with 585 Presence Detector.



TECHNICAL INFORMATION

Model	Door Opening	Reveal Range	Minimum Top Rail	Minimum Ceiling Clearance*	Frame Width	Door Width	Door Weight
6311 6312	Up to 180°	1/8" (3)	1-1/8" (29)	2-1/4" (57) standard; 1-1/2" (38) with field modification^	Minimum 2" (51)	Minimum 36" (91.4cm) Maximum 48" (121.9cm)	250 lbs
6331 6332	110° to 135° (depending on reveal)	1/8" to 6-3/4" (3-171)	2-1/4" (57)	5/8" (16) standard; 0" with field modification^			
6361 6362				1-1/2' (38) standard			
6351 6352	Up to 130°	1/8" to 2-3/4" (3-70)	1-1/2" (38)	2-1/4" (57) standard; 1-1/2" (38) with field modification^			

*Based on units mounted on 2" (51) frame
^Consult factory

NOTES:
- For additional information, the 6300 Series Instruction Manual is available online.

Dimensions are in inches/mm, unless noted.

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KITS

Hands-Free Kits



6341K2 (37-3/8")
6342K2 (39-5/8")
Kit includes:
- Operator
- Cover
- Push and Pull Arms
- (2) 700 Wave-to-Open Switches

ADA Kits



6341K3 (37-3/8")
6342K3 (39-5/8")
Kit includes:
- Operator
- Cover
- Push and Pull Arms
- (2) ADA1019-2 Switches
- (2) 548 Transmitters
- 539 Receiver

Restroom Kit

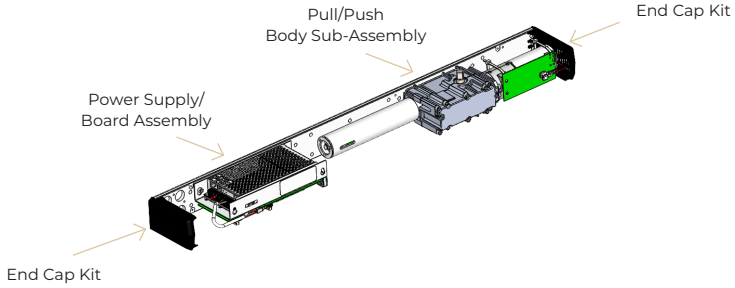


6341R2 (37-3/8")
6342R2 (39-5/8")
Kit includes:
- Operator
- Cover
- Push and Pull Arms
- 776 Double Gang Switches

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6300 SERIES
LOW ENERGY POWER OPERATORS

PARTS LIST

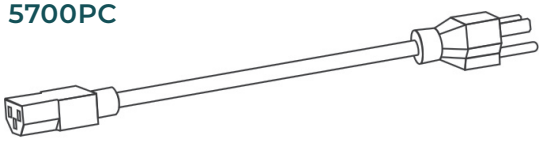


Parts

Part Number	Description	For Models
6300LAP	Pull/Push Body Sub-Assembly	All
6300CM	Power Supply / Board Assembly	All
6300CAB2	Cable Kit	All
6300COV	39-5/8" Cover	ending with "2"
6300COV-CB	39-5/8" Cover with Conduit Knockouts	
6300DPL	39-5/8" Cover Plate	
6300COV2	37-3/8" Cover	ending with "1"
6300COV2-CB	37-3/8" Cover with Conduit Knockouts	
6300DPS	37-3/8" Cover Plate	

Part Number	Description
6300END	End Cap Kit (included both end caps)
6300SP	Screw Pack
6300CB	Conduit Bracket/ Power Input Package
6300CBPC	Power Cord Conduit Assembly Package

POWER CORD 5700PC



(125V / 10A RATED 18AWG 18 INCHES MAX., NEMA 5-15P AND IEC320-C13 CONNECTORS CORD MUST BE UL LISTED.)

ARM AND TRACK ASSEMBLIES



6310-1 Arm and Track Assembly
6310-1W Arm Assembly
7100-1T Track Assembly



6330-1 Low Ceiling, Push Arm Assembly
6330-1W Main Arm & Rod
6620-12 Adjusting Tube & Shoe



6361-1 Flush Mount, Push Arm Assembly
6361-1W Main Arm and Rod



6350-1L Arm and Track Assembly (LH)
6350-1R Arm and Track Assembly (RH)
6350-1LW Arm Assembly (LH)
6350-1RW Arm Assembly (RH)
7100-1T Track Assembly

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6300 SERIES
LOW ENERGY POWER OPERATORS

HOW TO ORDER
Specify Model or Kit and Finish.

6311 → MODEL or KIT
See chart below

If applicable, specify Options shown below → OPTIONS
CB - Conduit Bracket
PC - Power Cord

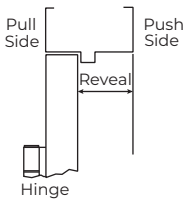
690 → FINISHES

Note: For Radio Frequency Control, order 539 RF receiver separately.

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
BSP	Black suede powder coat
WSP	White suede powder coat

Model	Mounting		Arms			Reveals	Low Ceiling	Flush Mount	Overall Length
	Pull Side	Push Side	Rigid Arm & Slide Track	Double Lever Arm	Double Egress				
6311*	•		•			Max 1/8" (3)			37-3/8" (94.9cm)
6331		•		•		1/8" - 6-3/4" (3-171)	•		
6361		•		•				•	
6351	•				•	1/8" - 2-3/4" (3-69)			
6341	•	•	•	•		See above	•		
6371	•	•	•	•				•	
6312*	•		•			Max 1/8" (3)			39-5/8" (100.6cm)
6332		•		•		1/8" - 6-3/4" (3-171)	•		
6362		•		•				•	
6352	•				•	1/8" - 2-3/4" (3-69)			
6342	•	•	•	•		See above	•		
6372	•	•	•	•				•	

Kit	Overall Length	Includes
6341K2	37-3/8"	Operator Cover Push & pull arms (2) 700 wave-to-open switches
6342K2	39-5/8"	
6341K3	37-3/8"	Operator Cover Push & pull arms (2) ADA1019-2 switches (2) 548 transmitters 539 receiver
6342K3	39-5/8"	
6341R2	37-3/8"	Operator Cover Push & pull arms 776 Double Gang Switches
6342R2	39-5/8"	



* Consult Technical Support department when door is hung on offset pivots.

Dimensions are in inches/mm, unless noted.

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6200 SERIES
LOW ENERGY POWER OPERATORS

INTRODUCTION

The Norton Rixson 6200 Series is a cost effective electromechanical low energy operator offering intelligent functions, such as power close, latch assist and obstruction detection. Specifically designed for high traffic applications requiring a narrow profile to blend more seamlessly with the frame while fitting challenging applications with minimal overhead space. Complete with electric lock interface, touchless activation support, and mobile device NROS™ integrated wireless hot spot programming for easy installation and setup.



FEATURES

- Push and pull side mounting
- Non-handed
- Activated by wall switch, hands-free and RF devices
- Maximum door size: 200 lbs. at 48" wide
- Aesthetically pleasing, slim profile
- Modmodular design
- Adjustable opening force
- Adjustable closing power
- NROS™ integrated wireless hot spot
- 2 year limited warranty



SUPERIOR USER EXPERIENCE

- Operator is a secure, password protected WiFi hot spot - no connection to building's IT required
- Simple setup; no app required
- View status and make adjustments without removing cover
- Built-in logic to support single use restroom applications - no external relay boards, logic modules, position switches required

SHARED PLATFORM

- Mix and match 6300, 6200 and 5200 Series throughout facility to maximize value to customer
- Shared aesthetics with 6300 and 6200 Series
- Modular installation - one-person install
- Easy set up and adjustments

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6200 SERIES
LOW ENERGY POWER OPERATORS

FUNCTIONS

- Adjustable Hold Open
  - Amount of time a door will stay in the full open position after an activation
- Emergency Interface Relay (fire panel input)
  - Door closes and ignores any activation input until signal is discontinued
- Infinite Hold Open
  - Door will hold open at set position until power is turned off
- Latch Assist
  - At closed position, after an activation, the door is pulled in
  - After the door has closed, the door is pulled in to assist with latch release/engagement
- Obstruction Detection
  - Open: door closes if it hits an obstruction while opening
  - Close: door will reverse to open position if it hits an obstruction while closing
  - Close (Selectable - stop on stall): door will stop once it hits an obstruction and will rest against the obstruction until removed
- Open Delay
  - Delays operator opening for locking hardware
- Outside Wall Switch Disable
  - When contact is closed, outside wall switch is disabled

Power Assist
- Senses the door is being opened manually and applies small amount of power to assist user in opening the door with force less than 5 lbs.
- Door opens only as far as it is moved manually, then closes once released

- Power Close
  - Additional force to assist door closing between 7° and 2°
- Presence Detector Input
  - Input for external sensor to detect presence at door open or close position only
- Push & Go
  - As the door is manually opened, the operator "senses" movement and opens door to the full-open position
- Selector Mode Switch
  - Off - Disables signal inputs unless Blow Open is activated
  - On - Activates signal inputs
  - Hold Open - Activates the unit (unless blow closed is activated on 6300) to the hold open position

Single Use Restroom
- Occupancy Input
  - Disables inside and outside restroom switches
- Restroom Outside Switch
  - In unlocked state, activates operator
  - Disabled by occupancy input; resets to unlocked state when door is opened
- Restroom Inside Switch
  - Activates operator
  - Disabled by occupancy input, while occupancy input switch is closed

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6200 SERIES
LOW ENERGY POWER OPERATORS

ELECTRICAL DATA

- Power input 120 VAC, 3A, 60Hz
- Current draw 1.5A
- Power output 24VDC @ 0.4 A max draw (less accessories)

PATENTS

- assaabloydss.com/patents

CERTIFICATIONS

- ANSI/BHMA A156.19 certified
- UL325/991 certified
- UL10C positive pressure up to 3 hours
- Complies with requirements for the Americans with Disabilities Act (A.D.A)
- Manufactured in an ISO 9001 and ISO 14001 certified facility

SPECIFICATIONS

- Door Control (interior) (exterior) closing force shall be adjustable to ensure adequate closing control.
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- Operator shall have selectable latch boost to provide additional closing force to overcome conditions that may prevent door from latching.
- Unit shall have delay switches for motor activation, electric lock interfacing, and hold open time.
- Units shall interface with latch retraction exit devices or similar products and have 24VDC @ 1.3A maximum (less accessories) output for connection of electric strike, lock, radio frequency receiver, etc.
- Unit shall have a three-position Selector Mode Switch that will permit the unit to be switched “ON” to monitor for function inputs, switch to “H/O” for infinite hold open function or switched “OFF” which will disable function inputs allowing unit to be used as a manual door closer.
- Unit shall be U.L. Listed for automatic closing door.
- The Unit shall be adjustable to provide compliance with the requirements of the Americans with Disabilities Act (ADA). Unit shall be certified by BHMA to meet A156.19 requirements.
- Unit shall meet UL325/991, UL10C standards.

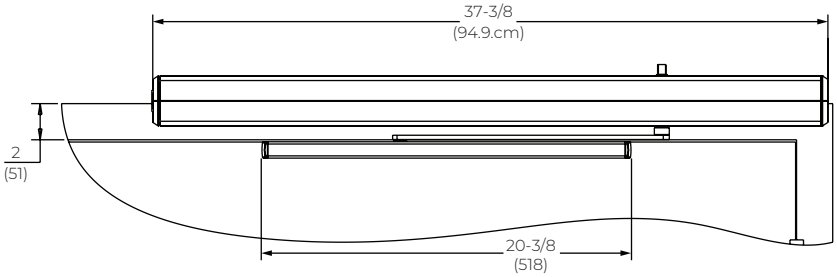
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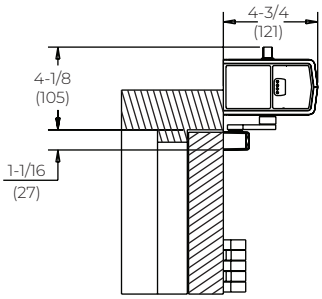
6200 SERIES
LOW ENERGY POWER OPERATORS

APPLICATIONS



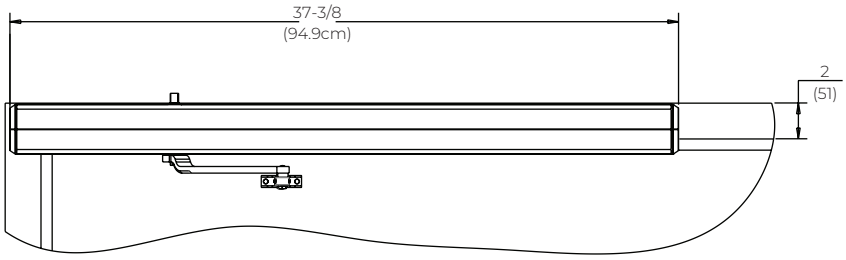
6211
HINGE (PULL) SIDE OF DOOR
RIGID ARM AND SLIDE TRACK

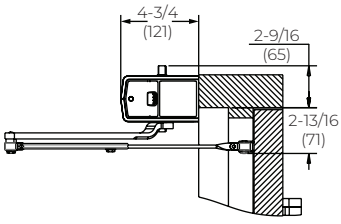






6231
LOW CEILING
STOP (PUSH) SIDE OF DOOR
STANDARD-DUTY DOUBLE LEVER ARM





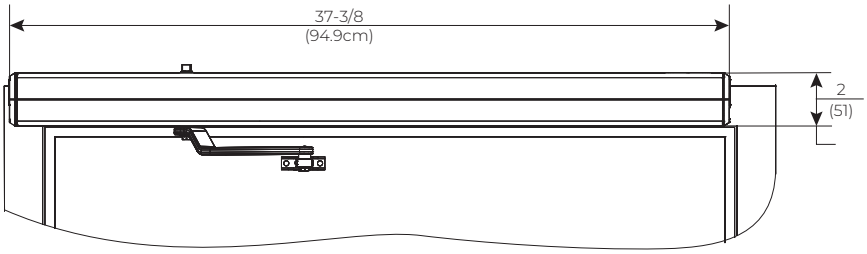
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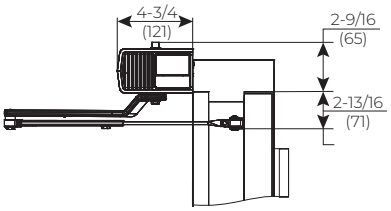
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6200 SERIES
LOW ENERGY POWER OPERATORS



6261
FLUSH MOUNT
STOP (PUSH) SIDE OF DOOR
STANDARD-DUTY DOUBLE LEVER ARM





6241 - UNIVERSAL UNIT
INCLUDES:
- Operator
- Cover
- Push and pull arms



operator

+



low ceiling, push arm ***(7701-1)***

+



pull arm ***(6210-1)***

6271 - UNIVERSAL UNIT
INCLUDES:
- Operator
- Cover
- Push and pull arms



operator

+



flush mount, push arm
(5261-1)

+



pull arm ***(6210-1)***

Dimensions are in inches/mm, unless noted.

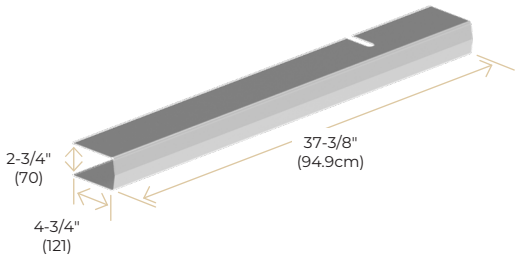
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6200 SERIES
LOW ENERGY POWER OPERATORS

TECHNICAL INFORMATION

Model	Door Opening	Reveal Range	Minimum Ceiling Clearance*	Frame Width	Door Width	Door Weight
6211	Up to 120°	1/8" (3)	2-1/4" (57) standard	Minimum 2" (51)	Minimum 36" (91.4cm) Maximum 48" (121.9cm)	200 lbs.
6231	Up to 130°	Max 3-1/4" (83)	5/8" (16) standard; 0" with field modification)			
6261			1-1/2" (38) standard			

*Based on units mounted on 2" (51) frame

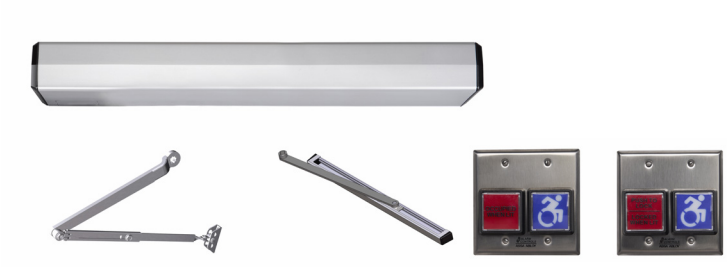


NOTES:
- For additional information, 6200 instruction sheets are available online.

KITS



6241R1
Kit includes:
- Operator
- Cover
- Push and Pull Arms
- 775 Single Gang Switches



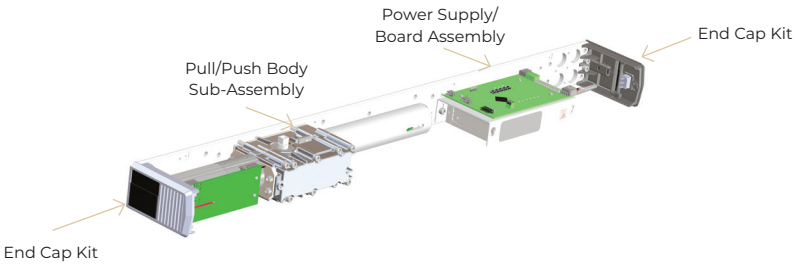
6241R2
Kit includes:
- Operator
- Cover
- Push and Pull Arms
- 776 Double Gang Switches

Dimensions are in inches/mm, unless noted.

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6200 SERIES
LOW ENERGY POWER OPERATORS

PARTS LIST



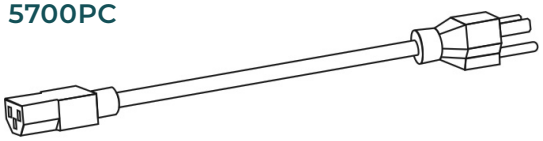
Parts

Part Number	Description
6200LAP	Pull/Push Body Sub-Assembly
6200CM	Power Supply / Board Assembly
6300CAB2	Cable Kit
6300COV2	Cover
6300COV2-CB	Cover with Conduit Bracket
6300DPS	Cover Plate

Miscellaneous Parts

Part Number	Description
6300END	End Cap Kit (included both end caps)
6300SP	Screw Pack
6300CB	Conduit Bracket/Power Input Package
6300CBPC	Power Cord Conduit Assembly Package

POWER CORD
5700PC



(125V / 10A RATED 18AWG 18 INCHES MAX., NEMA 5-15P AND IEC320-C13 CONNECTORS CORD MUST BE UL LISTED.)

ARM AND TRACK ASSEMBLIES



6210-1 Arm and Track Assembly
6210-1W Arm Assembly
7100-1T Track Assembly



7701-1 Low Ceiling, Push Arm Assembly
7701-1M Main Arm Assembly
7701-111 Secondary Arm Assembly



5261-1 Flush Mount, Push Arm Assembly

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6200 SERIES
LOW ENERGY POWER OPERATORS

HOW TO ORDER
Specify Model and Finish.

6231

If applicable, specify Options shown below

BSP

Note: For Radio Frequency Control, order 539 RF receiver separately.

MODEL OR KIT
See chart below

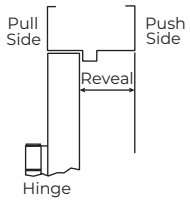
OPTIONS
CB - Conduit Bracket
PC - Power Cord

FINISHES

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
BSP	Black suede powder coat
WSP	White suede powder coat

Model	Mounting		Arms		Reveals	Low Ceiling	Flush Mount
	Pull Side	Push Side	Rigid Arm & Slide Track	Double Lever Arm			
6211*	•		•		Max 1/8" (3)		
6231		•		•	Max 3-1/4" (83)	•	
6261		•		•			•
6241	•	•	•	•	See above	•	
6271	•	•	•	•			•

* Contact Technical Support department when door is hung on offset pivots.



Kit	Includes
6241R1	Operator Cover Push & pull arms 775 single gang switches
6241R2	Operator Cover Push & pull arms 776 double gang switches

Dimensions are in inches/mm, unless noted.

NORTON RIXSON
ASSA ABLOY

5200 SERIES
LOW ENERGY POWER OPERATORS

INTRODUCTION

The Norton Rixson 5200 Series is an electromechanical low energy operator offering functionality and control at an affordable price. The 5200 Series converts interior, non-fire rated doors easily and affordably while providing a simple way to achieve touchless environments. Available for push or pull mounting, this unit can be operated manually or activated by wall switches, or radio frequency devices. Complete with NROS™ integrated wireless hot spot programming for easy installation and setup.



FEATURES

- Push and pull side mounting
- Non-handed
- Activated by push button, hands-free and RF devices
- Maximum door size: 200 lbs. at 48" wide
- Aesthetically pleasing, slim profile
- Modular design
- Adjustable opening force
- Adjustable closing power
- NROS™ integrated wireless hot spot
- 2 year limited warranty
- Power cord option



SUPERIOR USER EXPERIENCE

- Operator is a secure, password protected WiFi hot spot - no connection to building's IT required
- Simple setup; no app required
- View status and make adjustments without removing cover
- Built-in logic to support single use restroom applications - no external relay boards, logic modules, position switches required

SHARED PLATFORM

- Mix and match 6300, 6200 and 5200 Series throughout facility to maximize value to customer
- Shared aesthetics with 6300 and 6200 Series
- Modular installation - one-person install
- Easy set up and adjustments

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FUNCTIONS

- Adjustable Hold Open
  - Amount of time a door will stay in the full open position after an activation
- Infinite Hold Open
  - Door will hold open at set position until power is turned off
- Latch Assist
  - At closed position, after an activation, the door is pulled in
  - After the door has closed, the door is pulled in to assist with latch release/engagement
- Obstruction Detection
  - Open: door closes if it hits an obstruction while opening
  - Close: door will reverse to open position if it hits an obstruction while closing
  - Close (Selectable - stop on stall): door will stop once it hits an obstruction and will rest against the obstruction until removed
- Open Delay
  - Delays operator opening for locking hardware
- Outside Push Button Disable
  - When contact is closed, outside push button is disabled
- Power Close
  - Additional force to assist door closing between 7° and 2°
- Selector Mode Switch
  - Off - Disables signal inputs
  - On - Activates signal inputs
  - Hold Open - Activates the unit to the hold open position
- Executive
  - Units with Executive function (suffix EX) are pre-wired with 707 accessory kit
  - Includes integrated receiver and pre-programmed transmitters
  - With the door closed: pressing the center button on either remote will open the door to the preset "open" position and hold it there indefinitely
  - With the door open: pressing the center button on either remote will close the door to the preset "close" position

Single Use Restroom

- Occupancy Input
  - Disables inside and outside restroom switches
- Restroom Outside Switch
  - In unlocked state, activates operator
  - Disabled by occupancy input; resets to unlocked state when door is opened
- Restroom Inside Switch
  - Activates operator
  - Disabled by occupancy input, while occupancy input switch is closed

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5200 SERIES
LOW ENERGY POWER OPERATORS

ELECTRICAL DATA

- Power input 120 VAC, 3A, 60Hz
- Max current draw 1.5A
- Power output 24VDC @ 0.4A max draw

PATENTS

- assaabloydss.com/patents

CERTIFICATIONS

- ANSI/BHMA A156.19 certified BHMA CERTIFIED
- UL325/991 certified
- Complies with requirements for the Americans with Disabilities Act (A.D.A)
- Manufactured in an ISO 9001 and ISO 14001 certified facility

SPECIFICATIONS

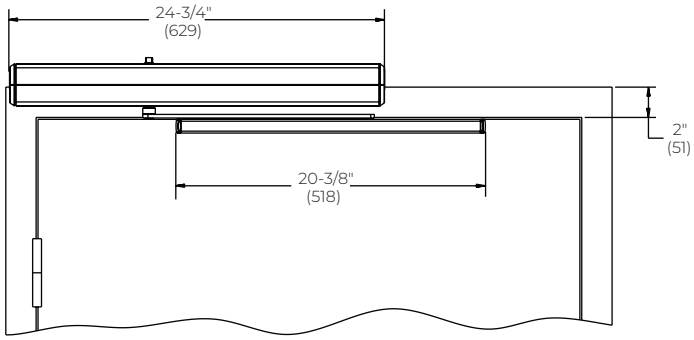
- Door Control (interior) (exterior) closing force shall be adjustable to ensure adequate closing control.
- Door Operator shall simulate conventional door closer opening and closing forces unless the power operator motor is activated.
- Door Operator shall have electronic backcheck to cushion the door speed if door is opened violently. (Door Operator shall be SELECTIVELY ACTIVATED by external initiating device, i.e. wall switch, etc.) (Door Operator shall be both AUTOMATICALLY ACTIVATED and SELECTIVELY ACTIVATED.)]
- Operator shall have selectable power close to provide additional closing force to overcome conditions that may prevent door from latching.
- Unit shall have delay switches for motor activation, electric lock interfacing, and hold open time. Units shall have 24VDC @ 0.4A maximum output for connection of electric strike, lock, radio frequency receiver, etc.
- Unit shall have a three-position Selector Mode Switch that will permit the unit to be switched “ON” to monitor for function inputs, switch to “H/O” for infinite hold open function or switched “OFF” which will disable function inputs allowing unit to be used as a manual door closer.
- Unit shall be U.L. Listed for automatic closing door.
- The Unit shall be adjustable to provide compliance with the requirements of the Americans with Disabilities Act (ADA).
- Unit shall be certified by BHMA to meet A156.19 requirements.
- Unit shall meet UL325/991 standards.

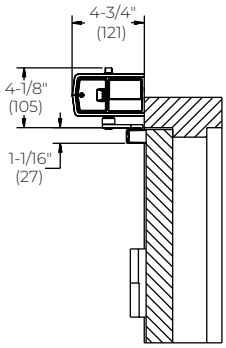
5200 SERIES
LOW ENERGY POWER OPERATORS

APPLICATIONS



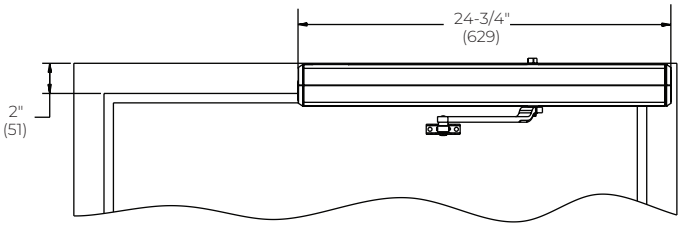
5211
HINGE (PULL) SIDE OF DOOR
RIGID ARM AND SLIDE TRACK

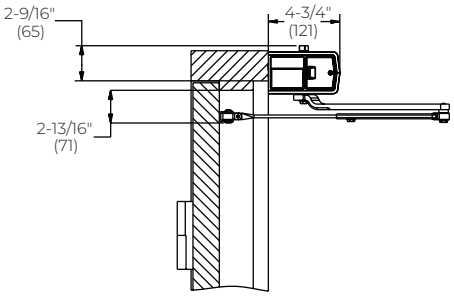






5231
LOW CEILING
STOP (PUSH) SIDE OF DOOR
STANDARD-DUTY DOUBLE LEVER ARM





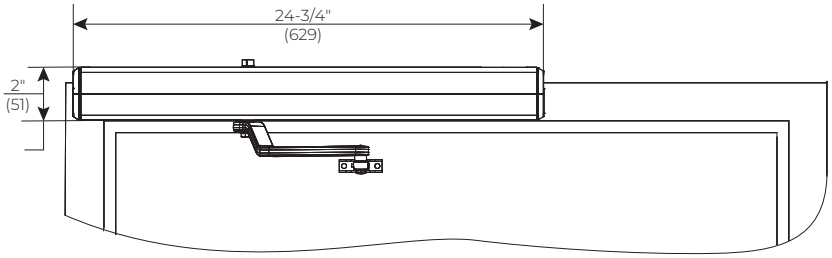
Dimensions are in inches/mm, unless noted.

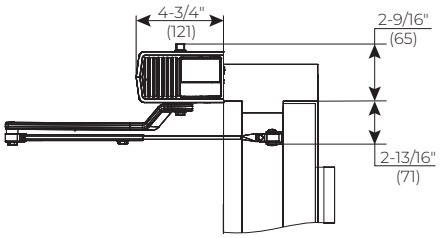
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5200 SERIES
LOW ENERGY POWER OPERATORS



5261
FLUSH MOUNT
STOP (PUSH) SIDE OF DOOR
STANDARD-DUTY DOUBLE LEVER ARM





5241 - UNIVERSAL UNIT
INCLUDES:
- Operator
- Cover
- Push and pull arms



operator

+



low ceiling, push arm ***(7701-1)***

+



pull arm ***(6210-1)***

5271 - UNIVERSAL UNIT
INCLUDES:
- Operator
- Cover
- Push and pull arms



operator

+



flush mount, push arm
(5261-1)

+



pull arm ***(6210-1)***

Dimensions are in inches/mm, unless noted.

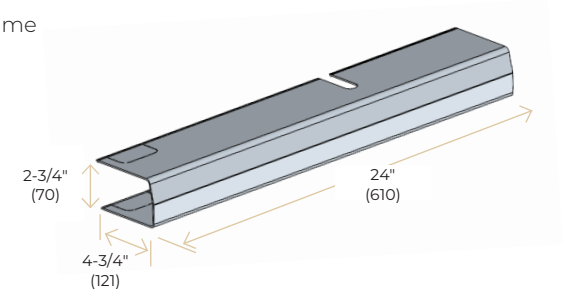
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5200 SERIES
LOW ENERGY POWER OPERATORS

TECHNICAL INFORMATION

Model	Door Opening	Reveal Range	Minimum Ceiling Clearance*	Frame Width	Door Width	Door Weight
5211	Up to 120°	1/8" (3)	2-1/4" (57) standard	Minimum 2" (51)	Minimum 36" (91.4cm) Maximum 48" (121.9cm)	200 lbs.
5231	Up to 130°	Max 3-1/4" (83)	5/8" (16) standard; 0" with field modification)			
5261			1-1/2" (38) standard			

*Based on units mounted on 2" (51) frame



NOTES:
- For additional information, 5200 instruction sheets are available online.

Dimensions are in inches/mm, unless noted.

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5200 SERIES
LOW ENERGY POWER OPERATORS

Restroom Kits



5241R1
Includes:
- Operator
- Cover
- Push and Pull Arms
- 775 Single Gang Switches

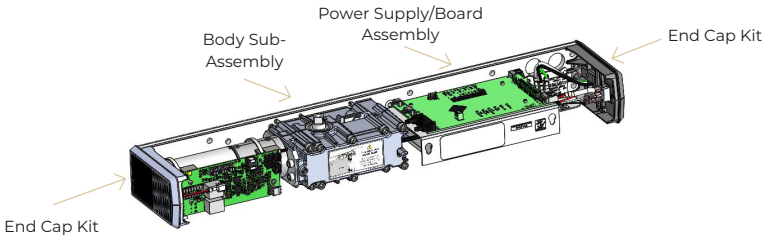


5241R2
Includes:
- Operator
- Cover
- Push and Pull Arms
- 776 Double Gang Switches

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5200 SERIES
LOW ENERGY POWER OPERATORS

PARTS LIST

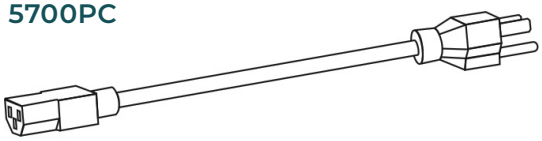


Parts

Part Number	Description
5200LAP	Push/Pull Body Sub-Assembly
6200CM	Power Supply/Board Assembly
5200CAB	Cable Kit
5200COV	Cover with Conduit Knockout
5200BP	Back Plate Package

Part Number	Description
5200END	End Cap Kit (includes both end caps)
6300CBPC	Power Cord Conduit Assembly
6300CB	Conduit Bracket/Power Input Package
6300SP	Screw Pack

POWER CORD 5700PC



(125V / 10A RATED 18AWG 18 INCHES MAX., NEMA 5-15P AND IEC320-C13 CONNECTORS CORD MUST BE UL LISTED.)

ARM AND TRACK ASSEMBLIES



6210-1 Arm and Track Assembly
6210-1W Arm Assembly
7100-1T Track Assembly



7701-1 Low Ceiling, Push Arm Assembly
7701-1M Main Arm Assembly
7701-111 Secondary Arm Assembly



5261-1 Flush Mount, Push Arm Assembly

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5200 SERIES
LOW ENERGY POWER OPERATORS

HOW TO ORDER

Specify Model or Kit and Finish.
Note: All transmitters (wall switches or key fob) must be ordered separately.

5261 → MODEL or KIT
See chart below

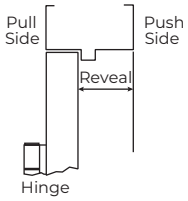
If applicable, specify Options shown below → OPTIONS
CB - Conduit Bracket
PC - Power Cord
EX - Executive

690 → FINISHES

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
BSP	Black suede powder coat
WSP	White suede powder coat

Model	Mounting		Arms		Reveals	Low Ceiling	Flush Mount
	Pull Side	Push Side	Rigid Arm & Slide Track	Double Lever Arm			
5211*	•		•		Max 1/8" (3)		
5231		•		•	Max 3-1/4" (83)	•	
5261		•		•			•
5241	•	•	•	•	See above	•	
5271	•	•	•	•			•

Kit	Includes
5241R1	Operator Cover Push & pull arms 775 single gang switches
5241R2	Operator Cover Push & pull arms 776 double gang switches



* Consult Technical Support Department when door is hung on offset pivots

Dimensions are in inches/mm, unless noted.

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5800 SERIES

LOW ENERGY POWER OPERATORS

INTRODUCTION

As one of the world's only regenerative power door operators, Norton Rixson's 5800 Series is certified by GreenCircle® to reduce energy consumption by as much as 100 percent versus other comparable operators. Available in wireless and plug-in versions and able to fit in the tightest of spaces, the 5800 is simple to install and use.



FEATURES

- Regenerative drive or continuous duty operation
- Non-handed
- 95° door opening
- Maximum door weight: 250 lbs
- Push and pull side mounting
- Radio frequency stainless steel wall switches
- Integral RF receiver
- Shock absorbing arm
- 24VDC input port
- ADA1015P hardware kit
- Auxiliary activation input port
- Patented auto-tune feature
- 2 year limited warranty

HOW IT WORKS

How does the 5800 Series Pro work without electrical power?

The 5800 Series Pro is an extreme duty, low energy operator designed for moderate to high traffic manual opening applications that occasionally requires powered operation. A regenerative drive system charges an onboard battery pack eliminating the need for electrical power.

The 80/25 guidelines should be applied when ordering this operator. It is recommended that the 5800 Series Pro be used on a door that gets approximately 80 manual cycles or more per day and is used 25% or less automatically. When applied using the 80/25 guideline this operator will self-generate all the power it needs to keep its field replaceable, onboard, battery pack charged for up to 12 years and in some cases longer.

A fully charged battery has the capability to open a door up to 2000 times in a row, generously allowing for periodic fluctuations from 80/25 guidelines with little impact on the product's overall usability. Example: 30% automatic use for one day is not a problem, as long as that level of automatic use is not sustained.

The 5800 Series Pro can be used outside of the 80/25 parameters. Simply plug the unit into a common 110 VAC electrical outlet using our ADA1015P hardware kit option. The hardware kit is a low voltage plug in transformer and can be added to existing installed field units.

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5800 SERIES
LOW ENERGY POWER OPERATORS

FUNCTIONS

- Adjustable Hold Open
  - Amount of time a door will stay in the full open position after an activation
- Dynamic Braking
  - Braking or slowing of the door if excessive door speed occurs resulting from a wind load or an abusive open condition
- Emergency Interface Relay*
  - Door closes and ignores any activation input until signal is discontinued
- Executive Mode Feature
  - When door receives activation signal it opens and remains open until either a second signal is received or door is manually moved in closing direction
- Latch Assist
  - At closed position, after an activation, the door is pulled in
  - After the door has closed, the door is pulled in to assist with latch release/ engagement
- Obstruction Detection
  - Open - door closes if it hits an obstruction while opening
  - Close (Stop on Stall) - door will stop once it hits an obstruction and will rest against the obstruction until obstruction is removed
- On/Off Switch
  - Disables operator activation
- Open Delay*
  - Delays operator opening for locking hardware
- Outside Wall Switch Disable*
  - When contact is closed, outside wall switch is disabled
- Power Close
  - Additional force to assist door closing between 90° and 70° and 10° and 0°
- Push & Go
  - As the door is manually opened, the operator "senses" movement and opens door to the full-open position
- Single Relay Output*
  - Closes to indicate a valid activation

**Only available with Wireless Interface Module (WIM) ordered separately.*

CERTIFICATIONS

- ANSI/BHMA A156.19 certified
- ETL tested to UL/cUL 325 standard for automatic operators
- Complies with requirements for Americans with Disabilities Act (ADA)
- UL10C positive pressure 90 minute
- Manufactured in an ISO 9001 and ISO 14001 certified facility
- Verified by GreenCircle to offer these energy savings as compared to similar products:
  – 5800 Series (plug-in) – 91% efficiency
  – 5800 Series (wireless) – 100% efficiency

PATENTS

- assaabloydss.com/patents

5800 SERIES
LOW ENERGY POWER OPERATORS

SPECIFICATIONS

- Provide low energy automatic door operator complying with requirements of ANSI A156.19
- Provide an operator with adjustable opening and closing forces that meet the provisions of ANSI A117.1 and the Americans with Disabilities Act
- Provide an operator with a regenerative drive system which charges the on-board battery pack when unit is operated manually and which requires no external electrical power
- Provide an operator that can connect to ANY 24VDC power supply to keep an on-board battery pack fully charged eliminating the need for manual traffic charging. When used with 24VDC input the operator shall supply up to 2000 automatic operations upon loss of building power
- Provide an operator which has been verified by GreenCircle to offer these energy savings as compared to similar products:
  - 5800 Series (plug-in) – 91% efficiency
  - 5800 Series (wireless) – 100% efficiency
- Provide an operator which, upon installation, will determine door size and weight and automatically tune controller to operate within ANSI A156.19 and A117.1 standards. Operator shall also have the following adjustable functions:
  - Opening/closing speed
  - Hold-open time
  - Close check
  - Opening/closing force
- Provide operator with on-board diagnostics which will continually maintain control of door speed in wind or abusive environment conditions
- Provide operator that will continue closing door within ANSI A156.19 and 117.1 requirements without any external power supplied. Upon meeting an obstruction during the opening cycle the door shall remain under power for one second and then close under spring force; if the door meets an obstruction during closing, the door will maintain a closing force of 8 lbs or less
- Provide unit capable of operating doors up to 48" wide, weighing up to 250 lbs
- Provide unit that will operate in climates with temperatures above -40° F and has a two year warranty
- Provide operator with two stainless steel, jamb mounted, wall switch transmitters in choice of 1-3/4" x 4-3/4" narrow, 4-1/2" x 4-1/2" square styles, or 5-1/4" x 511/4" wave-to-open switch style, with required signage. Locate wall switches as directed by architect and within ANSI A156.19 and 117.1 guidelines
- Provide operator which utilizes a triangular hardened steel output shaft to connect arm with a two piece tapered coupling for superior slip resistance
- Provide operator and wall switch transmitter with circuit boards that have been specially coated to resist moisture and humidity making the electronics weather resistant
- Provide operator with integral heavy duty cast aluminum shock absorbing arm, which when fully extended is in full tension eliminating the need for an auxiliary door stop
- Provide operator with two architecturally finished covers and black powder coated frame, arms and mounting brackets
- Black (BHMA 693T)
- Aluminum (BHMA 689)
- Provide an operator incorporating “Push & Go” feature to allow door movement to activate door open cycle or recycle door (PRO PLUS only)
- Provide an operator incorporating “Power Close” feature to utilize the motor to close a door help open by wind, stack pressure or latchbolt (Models 5833, 5813 only)
- Provide an operator incorporating “Latch Assist” feature to apply pulsed power in the closing direction to assist in latching and unlatching of the door

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5800 SERIES
LOW ENERGY POWER OPERATORS

PRODUCT DESCRIPTIONS

PRO: MODELS 5831 (PUSH), 5811 (PULL)

- No electrical power required
- Moderate to high traffic, manual opening applications that occasionally require automatic operation
- Regenerative drive system charges an onboard battery pack
- Models 5831 and 5811 excel in applications where the traffic pattern allows for 80 door cycles per day, 25% of which are automatic and 75% of which are manual. These models require no electrical connection, no permit, no inspection, no wiring, and no low voltage license. The 5800 Series installs like a manual door closer in less than 1 hour.

PRO PLUS: MODELS 5833 (PUSH), 5813 (PULL)

- 24VDC powered - continuous automatic use
- Connects to ANY 24VDC power supply
- Commercial applications requiring Push & Go, Power Close, and Electric Lock Interface.
- Ideal for openings requiring continuous automatic use or automatic use more than 25% of the time

PRO COMPLETE: MODEL 5845 (PUSH AND PULL)

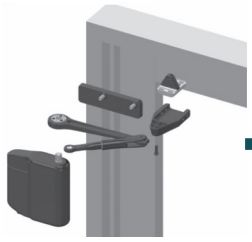
- Bundles all the configurations of the PRO and PRO PLUS models into one easy to stock package
- Right or left hand doors
- Push and pull side mounting hardware
- Black and aluminum finish covers
- Mounting hardware for virtually any door and frame
- 24VDC plug-in transformer kit for continuous automatic use applications

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5800 SERIES
LOW ENERGY POWER OPERATORS

KITS

Models 5831 x NPB (Push), 5811 x NPB (Pull)



Operator
Non-handed, push side mounting, parallel arm

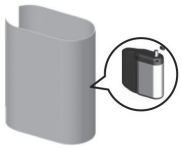


OR



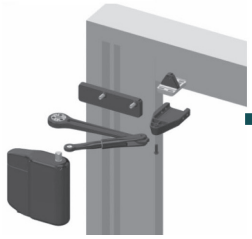
Wall switches with wireless (RF) transmitters
Narrow Style
or Square

OPTION:



Aluminum dress cover
Replaces standard black cover; operator frame and arm are always black finish

Models 5833 x SQPB (Push), 5813 x SQPB (Pull)





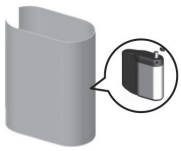
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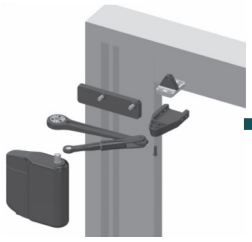


1015P hardware kit: 24VDC
Transformer

OPTION:

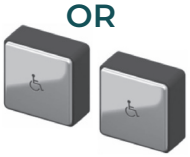


Models 5845 x NPB (Push & Pull), 5845 x SQPB (Push & Pull), 5845 x WTO (Push & Pull)





OR

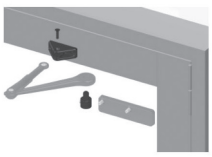


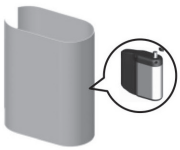
OR



Wave-to-Open switch







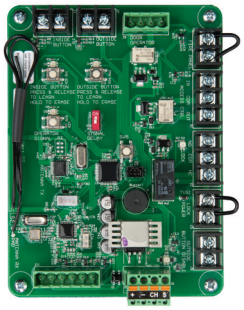
Pull side mounting hardware, regular arm

NORTON RIXSON
ASSA ABLOY

WIRELESS INTERFACE MODULE (ADA1028W)

System Description:

The Wireless Interface Module (WIM) allows the 5800 door operator to interface to 5800 wired or wireless wall switches, wireless remote, an electric lock, fire panel, access control, and an outside wall switch disable contact. The WIM can be used with any 5800 model.



Mounting:

The WIM (4.25" W x 5.75" H) is designed to fit inside a power supply cabinet, using a supplied plastic mounting plate with double sided tape and fasteners.

Inputs:

- Power input: 24VDC
- Hardwire wall switches input: separate INSIDE and an OUTSIDE activation input
- Wireless wall switch input: separate INSIDE and an OUTSIDE RF activation input
- Handheld transmitter input: part # ADA1031 interface
- Operator connection cable: plug-in swing door cable connector interface
- Lock power: dry contact SPDT to power an electric lock
- Outside wall switch disable: privacy feature

Outputs:

- Wireless output: RF signal to activate operator
- Output contacts: SPDT dry contact output for AUX signal
- Lock contacts: SPDT dry contact output for LOCK
- Access control contacts: indicates valid unlock signal
- Signal delay timer: 1.5 second lock release delay
- Emergency interface relay (EIR): disables signal inputs

Codes/Listings:

- UL 325 standard for automatic operators
- FCC 47CFR 15C and RSS 210

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5800 SERIES
LOW ENERGY POWER OPERATORS

TECHNICAL INFORMATION

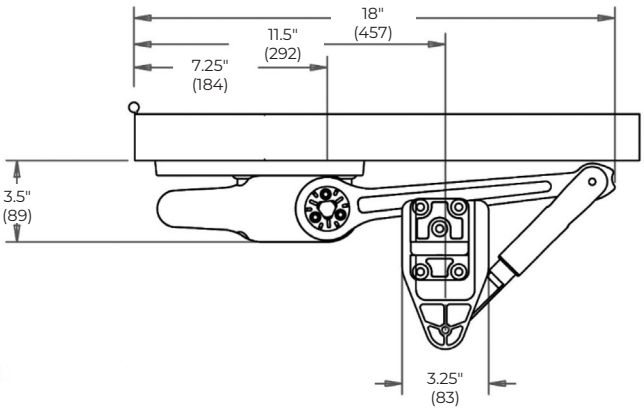
Push Side

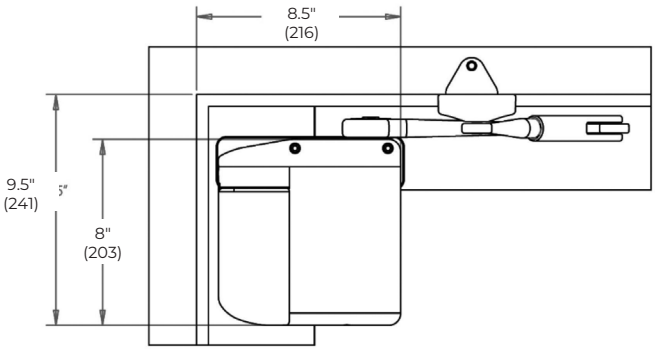


Push side mounting without electrical power



Push side mounting with ADA1015P hardware kit





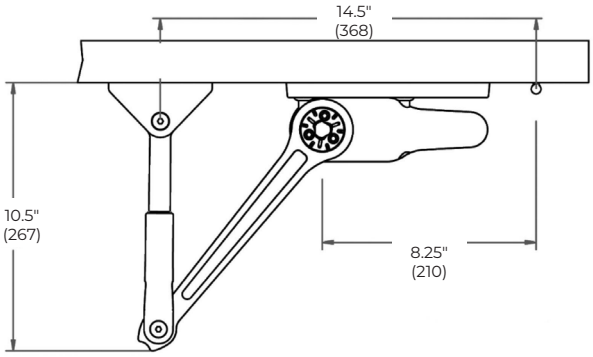
Pull Side

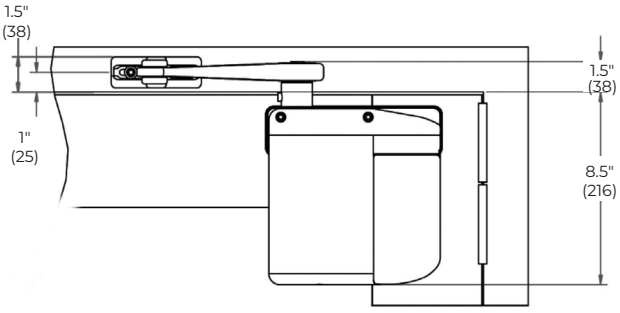


Pull side mounting without electrical power



Pull side mounting with ADA1015P hardware kit





All dimensions are approximate

NOTES:
- Maximum door width - 48" (122cm)
- Maximum door weight - 250 lbs.
- Dimensions are listed in inches/mm unless noted

Dimensions are in inches/mm, unless noted.

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5800 SERIES
LOW ENERGY POWER OPERATORS

TRASH ROOM DOORS



Models 5839 and 5819 were designed to meet a New York City building code that required trash room doors be equipped with automated doors to make them more accessible to disabled persons. These models include an occupancy sensor to keep the door open while the room is in use and a power close feature to ensure the door closes and re-latches.

FEATURES

- Continuous duty operation
- Non-handed
- 95° door opening
- Push or pull side mounting
- Occupancy sensor
- Electric lock interface module
- Shock absorbing arm
- Black cover (standard); aluminum cover (optional)
- 24 VDC input port
- Built-in on/off switch
- Auxiliary activation input port

APPLICATIONS

- Trash rooms in high rise buildings

How to Order	Mounting
5839-NYW	Push
5819-NYW	Pull

INCLUDED IN PACKAGE*

- Operator
- Mounting hardware
- 24VDC 1 amp power supply
- Occupancy sensor
- Armored door cord
- (2) 1-3/4" surface mounted, stainless, hardwired wall switches
- 20 feet of operator power and signal wire

* Electric lock not included

BENEFITS

Easy to Install

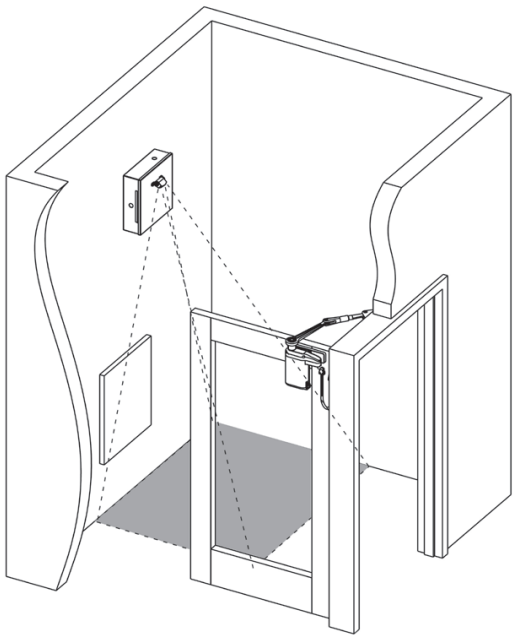
- Occupancy sensor keeps door open while room is in use
- Optional power close ensures consistent door latching

Flexible

- Controls doors up to 48” wide and 250 lbs in weight
- Acts like a manual door closer

Dependable

- Grade 1 - heavy-duty, commercial design
- Brushless DC motor/gearbox tested in excess of 10 million cycles
- Optional dynamic and back check braking for abusive environments

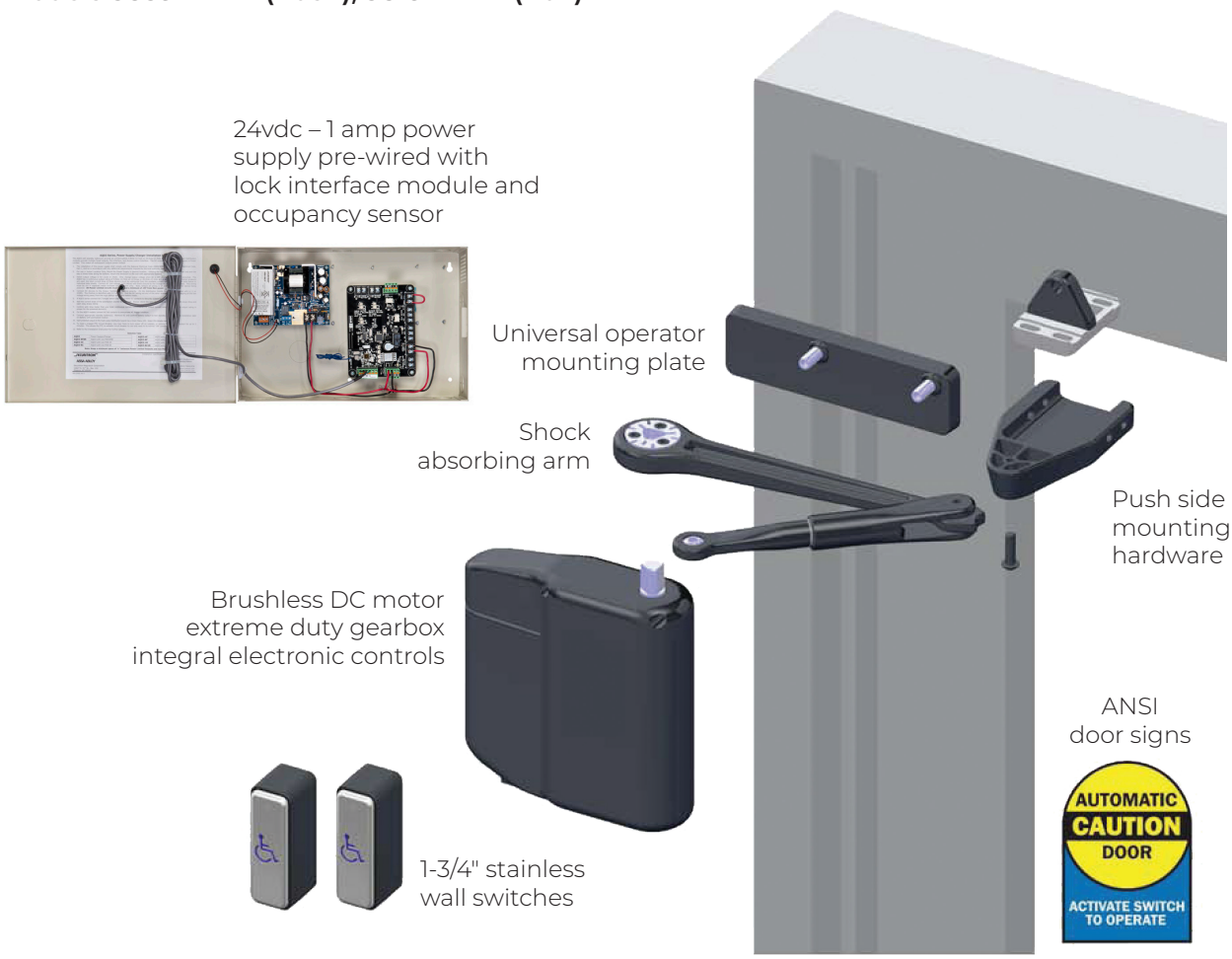


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5800 SERIES
LOW ENERGY POWER OPERATORS

KIT

Models 5839-NYW (Push), 5819-NYW (Pull)



AVAILABLE OPTIONS


Aluminum cover


Pull side mounting hardware

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5800 SERIES
LOW ENERGY POWER OPERATORS

PARTS



ADA1015P
Kit: transformer, armored door cord, end links 50' of low voltage cable, power port cnt.



ADA1007P
Battery assembly



ADA1001
Door arm assembly



ADA1002
Operator cover – black

ADA1004
Operator cover – aluminum



ADA1010P*
Operator body - ADAEZ PRO

ADA1010NY*
Operator body - NYC TRD

ADA1010E*
Operator body - Europe

** battery not included*



ADA1028W
Wireless Interface Module



ADA1005WP
Electronic control kit for Pro setup and PC board (white board)

ADA1005WN
Electronic controlkit for NYCTRD setup and PC board (white board)



ADA1022
Kit to convert SPDT switch to DPDT switch

Part #	Descritpion
ADA1009	Mounting hardware (includes rivetnut installation toolkit)
ADA1006	Operator mounting bracket with covers
ADA1023	External battery charger kit
ADA1025	Multi-purpose timer
ADA1026	Bottom cover with screws
ADA1031	Hand held remote control
ADA1031E	Hand held remote control (Europe)
ADA1021	Kit to convert to pull side
ADA1024	Kit to convert to push side
ADA1008	Wireless wall switch transmitter (circuit board only)
ADA1015C	Door cord WIM
ADA102SP	24VDC power supply, WIM, and mounted sensor

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5800 SERIES
LOW ENERGY POWER OPERATORS

HOW TO ORDER

Specify Kit and Finish.

5845 x WTO — **693T**

KIT

See chart below

FINISHES

ANSI/BHMA (US)	Description
693T	Black Textured
689	Aluminum

Kits		Mounting		Description					
		Push	Pull	Narrow Wall Switches	Square Wall Switches	Wave-to-Open Switch	1015 Hardwire Kit	Aluminum Dress Cover	Wireless Interface Module
PRO	5831 x NPB	•		•				Δ	Δ
	5811 x NPB		•	•				Δ	Δ
	5831 x SQPB	•			•			Δ	Δ
	5811 x SQPB		•		•			Δ	Δ
Pro Plus	5833 x NPB	•		•			•	Δ	Δ
	5813 x NPB		•	•			•	Δ	Δ
	5833 x SQPB	•			•		•	Δ	Δ
	5813 x SQPB		•		•		•	Δ	Δ
PRO Complete	5845 x NPB	•	•	•			•	•	Δ
	5845 x SQPB	•	•		•		•	•	Δ
	5845 x WTO	•	•			•	•	•	Δ
	5845 x WIM	•	•				•	•	•
Custom NYC-TRD	5839-NYW	•		•				Δ	•
	5819-NYW		•	•				Δ	•

Δ Optional
• Standard

Reference:
NPB - Narrow wall switches
SQPB - Square wall switches
LPB - Wall switch not included*
WTO - Wave-to-Open switches**
WIM - Wireless interface module**
(wall switches not included)

* Not available with NYC-TRD
** Only available for model 5845

Dimensions are in inches/mm, unless noted.

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4500 SERIES
LOW ENERGY POWER OPERATORS

INTRODUCTION

The 4500 Series is a compact, door mounted, electromechanical low energy operator. An integrated RF receiver, universal push/pull arm, and NROS™ integrated wireless hot spot user interface make this operator ideal for retrofit applications.



FEATURES

- Push and pull side mounting
- Non-handed
- Integrated RF receiver (900MHz)
- Maximum door size: 200 lbs. at 48" wide
- 90° Max opening
- NROS™ integrated wireless hot spot
- Powered by 120VAC plug in transformer
- 2 year limited warranty

SIMPLE UPGRADE

- Suits most existing door/frame conditions
- Activation switches included
- Ideal for challenging applications such as deep reveal, narrow doors, overhead obstructions

EASY TO INSTALL

- Installs like a door closer
- Minimal/no wiring required



*No connection to building's WiFi is required

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FUNCTIONS

- Hold Open
  - Amount of time a door will stay in the full open position after activation
- Manual Close Delay
  - Amount of time a door will pause before closing
- Infinite Hold Open
  - Pressing/holding WiFi button puts door into hold open. Hold open releases by pressing WiFi button again
- Latch Assist
  - At closed position, after an activation, the door is pulled in
  - After the door has closed, the door is pulled in to assist with latch release/engagement
- Latch Force
  - For doors that do not have a latch, a selectable force is applied to the door to hold it against the frame.
- Obstruction Detection
  - Open: door closes if it hits an obstruction while opening
  - Close: door will reverse to open position if it hits an obstruction while closing
  - After 3 obstructed closes in a row, door will lightly rest against the obstruction until removed
- Open Delay
  - Delays operator opening for locking hardware
- Outside Push Button Disable
  - When contact is closed, outside push button is disabled
- Power Close
  - Additional force to assist door closing

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4500 SERIES

LOW ENERGY POWER OPERATORS

ELECTRICAL DATA

- Power input 120 VAC, 60Hz
- Max current draw 1.3A
- Power output 24VDC @ 0.2A

PATENTS

- assaabloydss.com/patents

CERTIFICATIONS

- ANSI/BHMA A156.19 certified
- UL325/991 certified
- Complies with requirements for the Americans with Disabilities Act (A.D.A)
- Manufactured in an ISO 9001 and ISO 14001 certified facility

SPECIFICATIONS

- Door Control (interior) closing force shall be adjustable to ensure adequate closing control.
- Door Operator opening force and speed shall be adjustable to ensure adequate opening control per accessibility codes.
- Door Operator shall simulate conventional door closer opening and closing forces unless the power operator motor is activated.
- Door Operator shall have electronic backcheck to cushion the door speed if door is opened violently. (Door Operator shall be SELECTIVELY ACTIVATED by external initiating device, i.e. wall switch, etc.)
- Door operator shall have adjustable hold open time capability in the range from 5 to 30 seconds for automatic cycles and an adjustable hold open time in the range of 0.5 to 5 seconds for a manual cycle
- Operator shall have selectable power close to provide additional closing force to overcome conditions that may prevent door from latching.
- Unit shall have delay switches for motor activation, electric lock interfacing, and hold open time. Units shall have 24VDC @ 0.2A maximum output for connection of electric strike, lock, radio frequency receiver, etc.
- Unit shall be powered from included 110VAC wall plug
- Unit shall a button that will activate/deactivate WiFi hotspot on a single press and send a Hold Open activation on a 5 second press
- Unit shall be U.L. Listed for automatic closing door.
- The Unit shall be adjustable to provide compliance with the requirements of the Americans with Disabilities Act (ADA).
- Unit shall be certified by BHMA to meet A156.19 requirements.
- Unit shall meet UL325/991 standards.

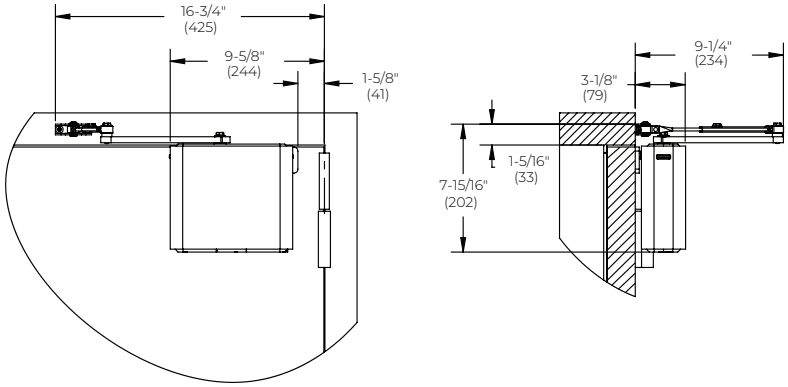
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4500 SERIES
LOW ENERGY POWER OPERATORS

APPLICATIONS

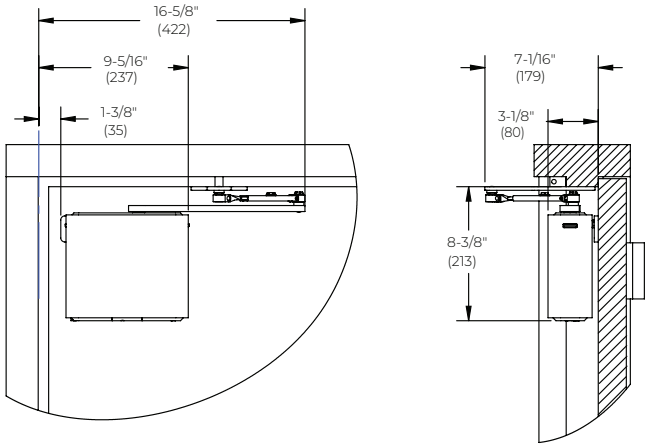


4540
HINGE (PULL) SIDE OF DOOR





4540
STOP (PUSH) SIDE OF DOOR



Dimensions are in inches/mm, unless noted.

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4500 SERIES
LOW ENERGY POWER OPERATORS

KITS

4540xWTO Includes:
Operator plus (2) 546 transmitters, (2) 767 switches and (2) 685 mounting boxes

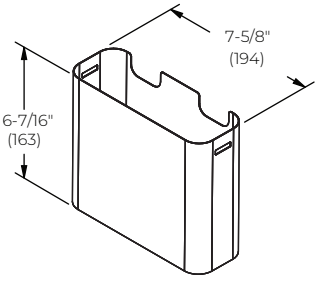


4540xSQPB Includes:
Operator plus (2) 546 transmitters, (2) 672 switches and (2) 686 mounting boxes



TECHNICAL INFORMATION

Mounting	Door Opening	Reveal Range	Frame Width	Door Width	Door Weight
Push Side	Up to 90°	Min 7/8" (22)	Minimum 1-3/8" (35)	Minimum 36" (91.4cm)	200 lbs.
Pull Side		1/16" (2)		Maximum 48" (121.9cm)	

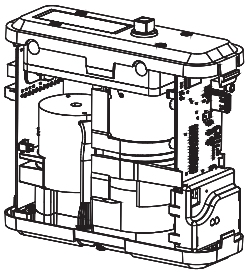


NOTES:
- For additional information, 4500 instruction sheets are available online.

Dimensions are in inches/mm, unless noted.

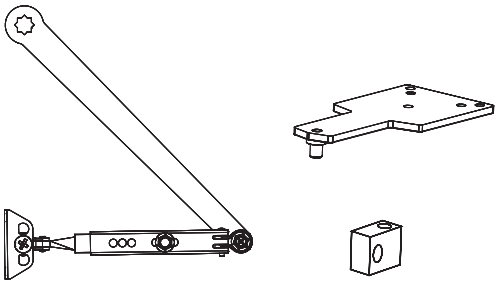
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PARTS LIST



Part Number	Description
4500LAP	Push or pull side sub-assembly
4501COV	Cover
4501MP	Mounting plate
4501PS	Power supply & end link
4501PCK	Door cord clip & cover locking bracket
4501SP	Screw pack
2019S	Spacer block

ARM ASSEMBLY



4501-1 (includes soffit plate and spacer block)

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4500 SERIES
LOW ENERGY POWER OPERATORS

HOW TO ORDER

Specify Kit and Finish.

4540 x WTO — **BSP**

MODEL or KIT

See chart below

Model	Includes
4540	Operator Cover Arm (push or pull mounting)

Kits	Include
4540xWTO	Operator Cover Arm (push or pull mounting) (2) 546 transmitters (2) 767 Wave-to-Open switches (2) 685 mounting boxes
4540xSQPB	Operator Cover Arm (push or pull mounting) (2) 546 transmitters (2) 672 Push to Open switches (2) 686 mounting boxes

Reference:
SQPB - Square Push Button
WTO - Wave-to-Open

FINISHES

ANSI/BHMA (US)	Description
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
BSP	Black suede powder coat
WSP	White suede powder coat

Dimensions are in inches/mm, unless noted.

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ACCESSORIES
LOW ENERGY POWER OPERATORS

ACTIVATING WALL SWITCHES

Available with	501, 502, 505, 506, 507, 531, 532, 533, 534, 535, 671, 672
6300 Series	✓
6200 Series	✓
6000 Series	✓
5700 Series	✓
5500 Series	✓
5200 Series	✓

Standard with	672*
4540xWTO	✓

**Two are shipped with operator*



501 **502**



671

671 and 672 switches meet new state accessibility logo requirements in NY, CA, and CT

- 4-1/2" W x 4-1/2" H
- 15 amp @ 125 VAC
- Flush mounted
- Fits single or 2 gang electrical box

Model	Description	Hard wired	RF (433MHz)
501	Press to Operate Door	✓	
502	Press to Open x logo	✓	
542	4-1/2" surface mount box		
671	Press to Open x alternative logo	✓	
672	Press to Open x alternative logo		✓



505 **532**

- 6" W. x 6" H.
- 9 volt battery
- 15 amp @ 125 VAC
- Flush mounted
- Stainless steel with blue letters



506 **534**

505, 506, 507 and 534 switches may also be installed with single or double gang electrical box using fasteners included

Model	Description	Hard wired	RF (433MHz)
505	Square button: Push to Open x Logo	✓	
506	Round button: Push to Open x Logo	✓	
507	Square button: Push to Open	✓	
531	Square button: Push to Open x Logo		✓
532	Square button: Push to Open		✓
533	Round button: Push to Open x Logo		✓
534	Round button: Push to Open	✓	
535	Round button: Push to Open		✓
555	6" square surface mount box		
557	6" round surface mount box		

NOTES:
- Metal enclosures can reduce signal strength and cause an intermittent or reduced signal reception when using a radio frequency transmitter. To ensure proper function, do not use metal conduit housing.
- All hard wired switches are Momentary Contact SPDT, UL Listed.

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ACCESSORIES
LOW ENERGY POWER OPERATORS

VESTIBULE SWITCHES, TRANSMITTERS, RADIO FREQUENCY RECEIVER, EXECUTIVE PACKAGE

Available With	503, 504, 536, 537, 538, 539, 540, 546, 548, 578, 586, 707*
6300 Series	✓
6200 Series	✓
6000 Series	✓
5700 Series	✓
5500 Series	✓
5200 Series	✓

Standard with	546*
4540xSQPB	✓

**Two are shipped with operator*



503

VESTIBULE SWITCHES

- 1-1/2" x 4-3/4" face plate
- SPDT UL listed switch-mom
- 15 amp @ 125 VAC
- Fits 1-3/4" frame
- Stainless steel with blue letters
- 559 optional surface mount box



504

- 5" W x 4-3/4" H
- 2 – SPDT UL listed switches-mom
- 15 amp @ 125 VAC
- Fits 2-gang electrical box
- Stainless steel with blue letters
- 542 optional surface mounted box



536, 540



538, 578

HANDHELD TRANSMITTERS

- 536: one button, 538: two button (433 MHz)
- 540: one button, 578: two button (900 MHz)
- 539 or 537 receivers required. Sold separately.



537

RADIO FREQUENCY RECEIVERS

- 539: 433 MHz
- 537: 900 MHz



539



548



546



586

HARDWIRED TRANSMITTERS

- Convert existing hardwired push plates to work with appropriate RF receivers
- 548: 433 MHz, 546: 900 MHz (battery included)
- 586 transmitter converts existing wired push plates to work with touchless devices
- 539 or 537 receivers required. Sold separately.



707

Includes pre-wired receiver and two remote transmitters

NOTES:
- Metal enclosures can reduce signal strength and cause an intermittent or reduced signal reception when using a radio frequency transmitter. To ensure proper function, do not use metal conduit housing.
- All hard wired switches are Momentary Contact SPDT, UL Listed.

* 5200 with EX suffix includes a preinstalled 707 package.

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ACCESSORIES
LOW ENERGY POWER OPERATORS

WALL SWITCH KITS, OPERATIONAL SIGNAGE

Available With	564, 565, 679, 767K1, 767K2
6300 Series	✓
6200 Series	✓
6000 Series	✓
5700 Series	✓
5500 Series	✓
5200 Series	✓

WALL SWITCH KITS



564

INCLUDES
- ADA1019-2 wall switch
- 548 transmitter (with 9 volt battery)
- 539 receiver



565

INCLUDES
- (2) ADA1019-2 wall switches
- (2) 548 transmitters (with 9 volt batteries)
- 539 receiver



767K1

INCLUDES
- (1) 767 wall switch
- (1) 546 transmitter
- (1) 537 receiver



767K2

INCLUDES
- (2) 767 wall switches
- (2) 546 transmitters
- (1) 537 receiver

679 SIGNAGE KIT (SUPPLIED STANDARD)



(1 per switch)



(1 per switch)



(2 per operator)

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ACCESSORIES
LOW ENERGY POWER OPERATORS

RESTROOM KIT

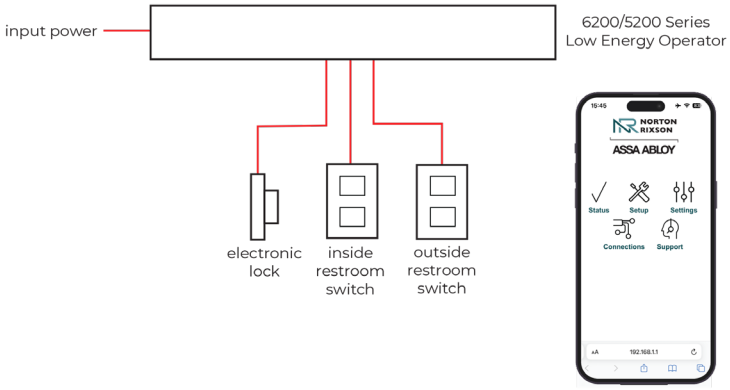
Available With	775*, 776*
6200 Series	✓
5200 Series	✓



775



776



* 5200 with R1 suffix includes the 775 Kit; R2 suffix includes the 776 Kit.

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ACCESSORIES
LOW ENERGY POWER OPERATORS

WAVE-TO-OPEN SWITCHES

Available With	673, 674, 700, 704, 767, 768
6300 Series	✓
6200 Series	✓
6000 Series	✓
5800 Series	✓
5700 Series	✓
5500 Series	✓
5200 Series	✓

Standard with	767*
4540xSQPB	✓

**Two are shipped with operator*

WAVE-TO-OPEN WALL SWITCHES



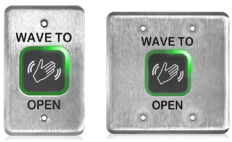
700

- Infrared technology
- Single and double gang faceplates packaged together
- Sensor requires movement for activation
- Variable relay – hold time from 0 – 35 seconds
- Range 0" to 4"
- Dimensions:
  3" W x 4-3/4" H (single);
  4-1/2" W x 4-1/2" H (double)



704

- Infrared technology
- Narrow gang
- Sensor requires movement for activation
- Variable relay - hold time from 0-35 seconds
- Range 0" to 4"
- Durable stainless steel body holds up in moist environments



673 **674**

- Microwave technology
- Stainless steel
- Adjustable sensing zone from 4"-24"
- Adjustable hold time (1/2 to 30 seconds)
- 673: Single gang
- 674: Double gang
- Surface mounting boxes:
  – 685: Single
  – 686: Double



685 **686**



767 **768**

- Battery operated
- Infrared sensors
- 767: Single gang
- 768: Double gang
- Stainless steel with vandal resistant face plate
- Sensor detection range up to 4"
- Field-configurable bi-color (red/green) LED status indicators
- Selectable time delay 1 to 10 seconds

NOTES:
- Metal enclosures can reduce signal strength and cause an intermittent or reduced signal reception when using a radio frequency transmitter. To ensure proper function, do not use metal conduit housing.
- Bright light like direct sunlight can interfere with the wave-to-open signal.

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ACCESSORIES
LOW ENERGY POWER OPERATORS

PUSH PLATE, SWITCH POST, MOTION SENSOR

Available With	500, 530, 638, 639, 663
6300 Series	✓
6200 Series	✓
6000 Series	✓
5700 Series	✓
5500 Series	✓

SWITCH POST



500

- 4" x 6" x 40" x 3/16" wall thickness
- 9 volt battery
- RF temperature range: -4° F to 122° F
- 689 (aluminum) or 690 (dark bronze) finishes
- Standard formed plastic cap
- Surface mounted (above ground)
- 530 - radio frequency transmitter
- 500 - hard wired switch
- 530POST - post only; switch not included

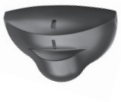
LOW PROFILE PUSH PLATE



638

- 36" x 6" activation zone
- 1" low profile depth
- Stainless steel face plate
- Adapts to either wireless or hard wired installations
- 638 - Wireless
- 639 - Hard wired

MOTION SENSOR



663*

- 4-3/4" x 3-3/16" x 2" projection
- Unidirectional
- Black cover
- SPDT relay
- Adjustable angle pattern
- 24 VDC input
- Must not be placed where motion of door can be sensed

PRESENCE DETECTOR, SENSORS

Available With	523	585	596
6300 Series	✓	✓	✓
6200 Series	✓		✓
6000 Series	✓	✓	✓

SAFETY SENSOR



523

- Door mounted
- Covers the entire face of a single door
- 5-1/2" W x 3-1/3" H x 1" D

PRESENCE DETECTOR



585

- Diffused active infrared technology
- 11.8" l x 1.9" H x 1.9" W
- Black anodized aluminum
- 9'x0" maximum mounting height
- Supply voltage: 24VAC/DC

SENSOR



596

- Active infrared safety sensor
- Detection range 0-8'
- 36", 42" or 48" width (specify when ordering)
- 8' x 0" maximum mounting height

*Use of motion sensor must be approved by local authority having jurisdiction.

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ACCESSORIES

LOW ENERGY POWER OPERATORS

ACTIVATING WALL SWITCHES, DECALS

Available with	ADA1019-1, ADA1019-3, ADA1012-1	ADA1019-2, ADA1019-4, ADA1012-2, ADA1014
6300 Series	✓	
6200 Series	✓	
6000 Series	✓	
5800 Series	✓	✓
5700 Series	✓	
5500 Series	✓	
5200 Series	✓	
4500 Series	✓	



ADA1019-1:
4-1/2" square wall switch assembly

ADA1019-2
4-1/2" square wall switch assembly with RF transmitter

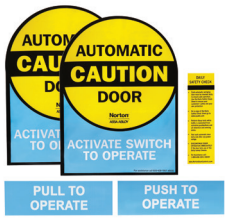
ADA1019-3
4-1/2" square wall switch assembly with DPDT switch

ADA1019-4
4-1/2" square wall switch assembly with DPDT switch with RF transmitter



ADA1012-1
1-3/4" wall switch assembly

ADA1012-2
1-3/4" wall switch assembly with RF transmitter



ADA1014
Decal pack

NORTON RIXSON
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PRODUCT COMPARISON

LOW ENERGY POWER OPERATORS

FEATURES	FRAME-MOUNTED ELECTROHYDRAULIC			FRAME-MOUNTED ELECTROMECHANICAL			DOOR-MOUNTED ELECTROMECHANICAL	
	6000	5700	5500	6300	6200	5200	5800	4500
Use on exterior doors	✓	✓	✓	✓	✓		✓	
Integrated power supply for accessories	✓	✓		✓			✓	
Mobile setup	✓			✓	✓	✓		✓
NROS WiFi interface setup	✓			✓	✓	✓		✓
Warranty	2 yrs							
Power supply included	✓	✓		✓	✓	✓	✓	✓
Optional power cord		✓		✓	✓	✓	Standard[1]	Standard
Price	$$$	$$	$	$$$	$$	$	$$$	$
FUNCTIONS								
Blow open for smoke ventilation	✓			✓				
Dynamic braking				✓	✓	✓	✓	✓
Emergency interface relay (fire panel input)				✓	✓		✓ (with WIM)	
Executive mode	✓			✓	✓	✓	✓	✓
Infinite hold open	✓			✓	✓	✓	✓[2]	✓
Latch assist				✓	✓	✓	✓	✓
Obstruction detection	Open/Close	Open	Open	Open/Close	Open/Close	Open/Close	Open	Open/Close
Open delay	✓	✓	✓	✓	✓	✓	✓ (with WIM)	✓
Outside wall switch disable				✓	✓	✓	✓ (with WIM)	✓
Overload safety shut-off	✓	✓	✓	✓	✓	✓		✓
Power assist				✓	✓	NA		NA
Power close				✓	✓	✓	✓[1]	✓
Power switch		✓	✓				✓	
Presence detector input	✓			✓	✓			
Push & Go	✓			✓	✓	NA	✓[1]	NA
Vestibule delay	✓			✓				
SPECIFICATIONS								
Maximum door weight	250 lbs	250 lbs	250 lbs	250 lbs	200 lbs	200 lbs	250 lbs	200 lbs
Maximum power draw	120VAC 0.9A	120VAC 0.6A	120VAC 0.6A	120VAC 3.0A	120VAC 2.5A	120VAC 2.5A	120VAC 0.6A	120VAC 1.3A
Accessories power	24VDC 1.3A	24VDC 1.1A	N/A	24VDC 1.3A	24VDC 0.4A	24VDC 0.4A	N/A	24VDC 0.4A
REGULATORY								
ADA	✓	✓	✓	✓	✓	✓	✓	✓
BHMA certified to A156.19	✓	✓	✓	✓	✓	✓	✓	✓
UL10C positive pressure requirements	✓[4]	✓	✓	✓	✓		✓[5]	
Conforms to ANSI/UL 325	✓ (ETL)	✓ (UL)	✓ (UL)	✓ (UL)	✓ (UL)	✓ (UL)	✓ (ETL)	✓ (ETL)

[1] PRO Plus only
[2] Auxiliary switch required
[3] Sold separately
[4] Push (3-hour), pull (90 min)
[5] 90 minute
[6] Sold separately

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NOTES

LOW ENERGY POWER OPERATORS

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ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, mechanical and smart locks, access control and service.

Since 1880, Norton Rixson door controls have been an integral part of schools, hospitals and businesses around the globe. When you need products and people that perform at the highest level, rely on Norton Rixson – From Open to Close.

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43492-09/25

CATALOG

NORTON RIXSON

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TURBOSHIP



GENERAL INFORMATION

Product Guidelines

- Only products listed in this catalog are available on Turbo. Products not listed in this catalog will automatically be entered at standard factory production lead times.
- Please refer to the Norton Rixson Price Book for product pricing information

24-Hour

- Orders received prior to 1pm EST will ship within 24 hours
- Standard Buying Program discounts less 10% are automatically applied
- Quotes cannot be used for 24-Hour Turbo
- Maximum quantity per order: 5 (per customer, per day)
- Orders cannot be changed or cancelled

Shipments

- All shipments are made F.O.B. factory. Shipments may be subject to small parcel handling charges and fuel surcharges as part of the freight.
- Shipping charges are prepaid and will be added to your invoice
- UPS Ground is the standard freight carrier

Returns

- Refer to the Norton Rixson Price Book for the policy on returned goods

HOW TO ORDER

1. Use separate order form for Turbo Program.
2. This catalog contains one order form. Copy order forms from this catalog as needed. Note: The order form is your purchase order – Do not send a cover sheet. If your order is duplicated, it cannot be returned.
3. Email to orders.nortonrixson@assaabloy.com.
4. If you use your own purchase order form instead of the Norton Rixson form, order **MUST** include **24-Hour Turbo**, and Turbo part number.

Ordering Example

Quantity	Turbo Part #
2	015530

⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

LOW ENERGY OPERATORS

Low energy operators offer a broad range of functions for all ranges of low- to high-use openings, to serve the specific needs of virtually any swing door application.



6300 Series



6200 Series



5200 Series

Program	Turbo Part #	Description
24-Hour	015530	6311 x 689 (pull)
	015531	6331 x 689 (push)
	015532	6211 x 689 (pull)
	015533	6231 x 689 (push)
	015534	5211 x 689 (pull)
	015535	5231 x 689 (push)

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Order Form – 24-Hour TurboShip

This form is the purchase order. Do not send a cover P.O. Duplicated orders cannot be returned.

Email: orders.nortonrixson@assaabloy.com

Customer P.O. # _____ Date _____

Customer Name _____

Customer Acct. # _____

Address _____

City _____ State _____ Zip _____

Buyer _____ Title _____

Ship To _____

Address _____

Attn _____

City _____ State _____ Zip _____

Ship Via _____ Std. Carrier_____ (Other) _____

Quantity	Turbo Part #

Since 1880, Norton Rixson door controls have been an integral part of schools, hospitals and businesses around the globe. When you need products and people that perform at the highest level, rely on Norton Rixson – From Open to Close.

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43551-06/25

CATALOG

PIVOTS AND PIVOT SETS

ARCHITECTURAL SOLUTIONS FOR DURABLE AND EFFICIENT HANGING OF DOORS

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PRODUCT DESCRIPTIONS

(How to Order located on individual pages.)

Offset Pivot Sets

173 Light Duty/Weight Pivot Set 7
117-1/4 Light-Duty/Light Weight Jamb Attached Pivot Set 8
117 Light-Duty/Light Weight Pivot Set 9
165 Pivot Set Without Bottom Pivot 10
195 Jamb Attached Pivot Set 11
547 Pivot Set for Arch Top or Overhead Concealed Closers 12
147 Standard-Duty Pivot Set 13
117-1/2 Heavy Weight Pivot Set 14
L147 Heavy Weight Pivot Set 15
L117 Heavy Weight/High Traffic/Lead Lined Door Pivot Set 16

Offset Top Pivots

180 Standard Top Pivot 17
H180 Heavy-Duty Top Pivot 17
180 x 102 Top Pivot for Deep Reveal 18
FA180 Behavioral Health Top Pivot 19
L180 Heavy Weight/High Traffic/Lead Lined Door Top Pivot 20
280 Offset Hung Top Pivot 21
380 Offset Hung Top Pivot 22
480 Offset Hung Top Pivot 23
680 Offset Hung Top Pivot 24

Intermediate Pivots

119 Light-Duty Pivot 25
219 Half Surface Pivot 26
319 Half Mortise Pivot 27
L319 Half Mortise Heavy Weight/High Traffic Pivot 27
419 Full Surface Pivot 28
FA19 Behavior Health Pivot 29
M19 Standard-Duty Pivot 30
M190 Load-Bearing Pivot 31
ML19 Heavy Weight/High Traffic Pivot 32

⚠ WARNING

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Electrified Center Hung Top Pivots

E-H340 Power Transfer Pivot ... 54
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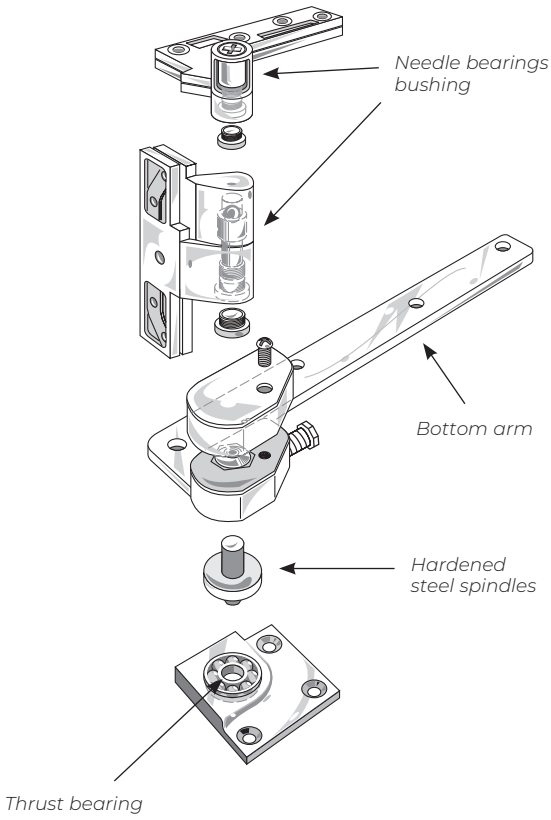
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GENERAL INFORMATION, HOW TO SELECT PRODUCT

PIVOTS AND PIVOT SETS

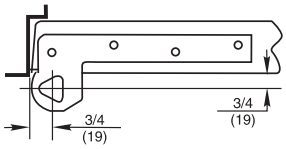
Pivot sets provide the best possible means of hanging a door. They are designed to work with the laws of physics to provide long-lasting performance and reliability.

- The weight of the door is supported at the bottom by the floor
  - Uses principles of gravity to its advantage
  - Door swings with less resistance
  - Heavier doors can be accommodated
- Reduced stress on frame
  - Fasteners are in shear, not tension
  - Eliminates door sag
  - Vertically adjustable
- Heavy-duty hardened steel spindles
  - Thrust bearing supports vertical load
  - Needle bearings and bushings for lateral force
  - Extra heavy-duty models also have an additional surface applied thrust bearing to handle heavier or high-traffic doors
- Offset pivots provide better weight distribution and can accommodate taller doors
- Intermediate pivots are used for alignment and to ensure proper installation of bottom pivot or floor closer
- Center hung pivots are used for aesthetics or if the pivot point is going to be moved nearer the lock edge of the door
- **PIVOTS DO NOT RETURN DOORS TO CENTER.** Pivots in this section are for door hanging means only. For door control see door closer catalog sections.



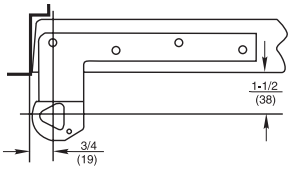
147 Pivot set and M19 Intermediate pivot shown (recommended)

1. OFFSET VS. CENTER HUNG APPLICATION



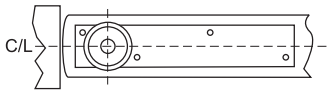
3/4" Offset

Pivot point located 3/4" from the heel edge of the door and 3/4" from face of door.



1-1/2" Offset

Pivot point located 3/4" from the heel edge of the door and 1-1/2" from face of door. Extended offsets should be used when there is cladding on the face of door or trim on the frame.



Center Hung

Pivot point centered in thickness of door.

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2. SIZE OF DOOR (WIDTH, HEIGHT, THICKNESS)

Estimated door weights pounds per square foot (PSF)

	Door Thickness		
Door Material	1-3/4"	2-1/4"	3"
Hollow Metal	6.5	7	—
Solid Core Wood	7	9	11.5
Aluminum/Glass Storefront	3.5	4	—
Bullet Resistent	20	21	—
MDF	7	9	11.5
Tempered Glass	Glass Thickness		
	3/8"	1/2"	3/4"
	5	7	9.75
Lead Lining (add to door weight)	Lead Thickness		
	1/16"	1/8"	1/4"
	5	8	9.75
3/4" Cladding (add to door weight)	Cladding Material		
	Wood	Stone	Bronze
	3	10.5	28

Example: 3'6" x 8' x 1/2" tempered glass door door: 28sq ft x 7lb./sq ft = 196lbs.

Example: 3' x 7' x 1-3/4" WD x 1/4" lead lining Door: 21sq ft x 7lb./sq ft = 147lbs. Lead lining: 9.75 = 204.75lbs. Total door weight: 351.75lbs.

For doors of other sizes, consult factory.

3. CYCLES

Application	Daily Cycles	Yearly Cycles	Usage
Large department store entrance	5,000	1,500,000	High
Large office building entrance	4,000	1,200,000	
Theater entrance	1,000	365,000	
School entrance	1,250	225,000	
School restroom door	1,250	225,000	
Store or bank entrance	500	150,000	
Office building restroom door	400	118,000	
School corridor door	80	15,000	Average
Office building corridor door	75	22,000	
Store restroom door	60	18,000	
Residential entrance door	40	15,000	
Residential restroom door	25	9,000	Low
Residential hallway door	10	3,600	
Residential closet door	6	2,200	

OPTIONS, CERTIFICATIONS, WARRANTY, SPECIFICATIONS

PIVOTS AND PIVOT SETS

Door Thickness – Suffix 1-3/4", 2", 2-1/4", 2-1/2" or 3"
When ordering L series pivot for lead-lined doors, the thickness of the door must be given. The purpose of the L product is to have screws spaced so they straddle the lead in the center of the door. Also used when lead lining is under the skins of the door. Recommended for use on extra heavy or high traffic doors.

ElectroLynx® Connectors – Suffix QC – Number of Wires
The plug-in connectors, with easy color coded wire system, eliminate matching wires. Must be used with ASSA ABLOY doors, frames and hardware. Available 4, 6, 8 or 12 wires for most products.

Extended Spindle – Suffix extra length needed
Any special coverings or severe door undercuts will affect the spindle height. In these applications, an extended spindle may be required. Most standard spindle heights accommodate door undercuts up to 1/2". Extended spindles available in 1/2" increments up to 2" longer than standard. See template.

Fire Rated – Prefix F
Pivots for fire rated doors (up to 3 hours) include a steel top pivot and must have additional steel intermediate pivots. For F519 pocket pivot, door assemblies must have been tested with pocket pivots.

Handing
All offset pivots and pivot sets are handed. Suffix RH or LH.

Less Top Pivot – Suffix LTP
For conditions requiring special top pivots or for arch top doors, the pivot set should be ordered less top pivot – LTP. For offset installations, an additional load bearing intermediate (side jamb) M190 pivot is required. All intermediate pivots for that opening should be M190's, not M19's.

1-1/2" Offset – Suffix 1-1/2
Offset is the distance from the face of the door to the pivot point. Extended offsets should not be used unless there is cladding on the face of the door or there is trim to clear on the frame. 1-1/2" offset arms and pivots are for doors with cladding or trim that project 3/4" from the face of the door. The greater the offset the less weight can be carried by the pivot.

Special Layouts – Suffix SPLO#
Unique installations or specially engineered products are called special layouts. These numbers must be assigned by the technical support department and they must be called out specifically by their number when ordering.

Twenty-minute label – Suffix -20 min
This UL rating is for 20-minute assemblies. Product with this rating has an authorized label.

Certifications
See individual sections for compliance with ANSI/BHMA A156.4 standards.

Limited Warranty
Pivot sets are warranted for 2 years for defect. See Norton Rixson Price Book for specific details of the limited warranty.

Specifications
All pivots and pivot sets shall be of one manufacturer. All heavy-duty pivots shall have a minimum of 2 bearings internal to the bottom pivot. One shall be a thrust bearing and the other a needle bearing. Separate bearing surfaces shall be in the top pivot. Lead-lined door units and high traffic pivots shall have additional thrust bearing. Fire rated pivot sets shall have steel top pivots. Fire rated doors require steel intermediate pivots.

MODEL 173

Description & Features

- Interior doors
- Weight 150 lbs.
- Door sizes up to 3'0" x 8'0" x 1-3/4" (914x2438x44mm)
- Handed
- 180 top pivot included
- 119 intermediate pivot recommended for all doors over 6'8" (2032mm) (sold separately)
- 3/4" (19mm) offset only (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mounts directly to concrete floor
- 3/8" (10mm) vertical adjustment
- No spindle extensions available
- Door will swing 180°, trim permitting
- Uses same arm and cap as 117 pivot set
- Non-ferrous base metal
- Furnished with wood and metal screws
- Available in plated finishes

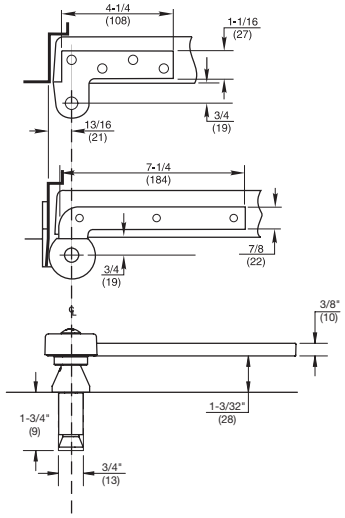


Optional Features

- Available for 1-1/2" (38mm) offset (door weight 100 lbs.) for doors with cladding or frame molding

Technical Information

(Frame stop required)



How to Order

Specify Model, Hand and Finish.

173 x 1-1/2"

Model	Description
173	3/4" offset (standard)
173 x 1-1/2"	1-1/2" offset

RH

HAND
LH - Left Hand
RH - Right Hand

622

FINISH
See page 70

MODEL 117-1/4

Description & Features

- Interior doors
- Weight to 250 lbs.*
- Door width up to 3'6" (1067mm)
- Handed
- 180 top pivot included
- 119 intermediate pivot recommended (sold separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mortised into side jamb
- Weight of door borne by floor
- Not available for fire-rated doors
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws
- Available in plated finishes

Optional Features

- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

** Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

How to Order

Specify Model, Hand and Finish.

117-1/4

MODEL

If applicable, specify ext spdl x in. (lengths below)

EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

LH

HAND
LH - Left Hand
RH - Right Hand

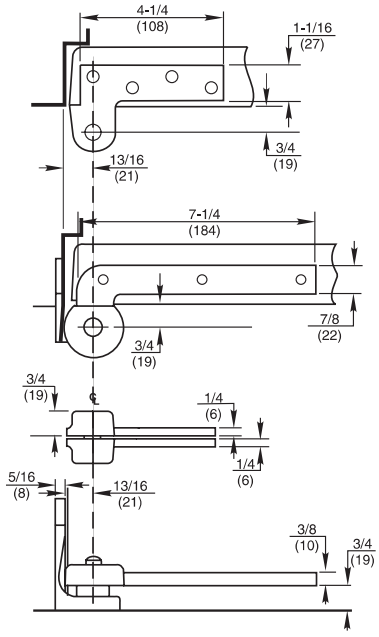
606

FINISH
See page 70



Technical Information

(Frame stop required)



OFFSET HUNG
PIVOTS AND PIVOT SETS

MODEL 117

Description & Features
- Interior doors
- Weight to 300 lbs.*
- Door width up to 3'6" (1067mm)
- Handed
- 180 top pivot included
- 119 intermediate pivot recommended (sold separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2
- Bottom pivot mortised into floor
- Non-ferrous base material
- Doors will swing 180°, trim permitting
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws
- Available finishes: plated (117, 117-20); plated or sprayed (F117)



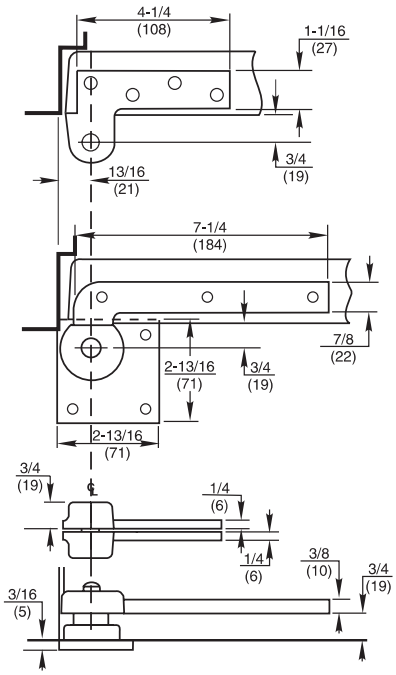
Optional Features
- Available for 1-1/2" (38mm) offset (door weight 150 lbs.) for doors with cladding or frame molding
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance
- Available for fire door assemblies up to three hours – specify F117. Intermediate pivot required by UL. Specify FM19 (sold separately).
- For 20-minute label suffix "–20" to the part number
- ANSI/BHMA A156.4, Grade 2
- ANSI C07162

** Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

Technical Information

(Frame stop required)



How to Order
Specify Model, Hand and Finish.

F117

Model	Description
117	3/4" offset (standard)
117 x 1-1/2"	1-1/2" offset
117-20	20 min. fire label, 3/4" offset
F117	fire rated, 3/4" offset
F117 x 1-1/2"	fire rated, 1-1/2" offset

If applicable, specify ext spdl x in. (lengths below)

EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

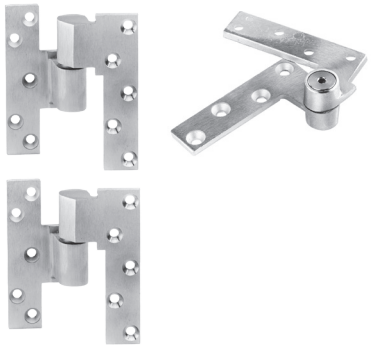
LH

HAND
LH - Left Hand
RH - Right Hand

689

FINISH
See page 70

MODEL 165



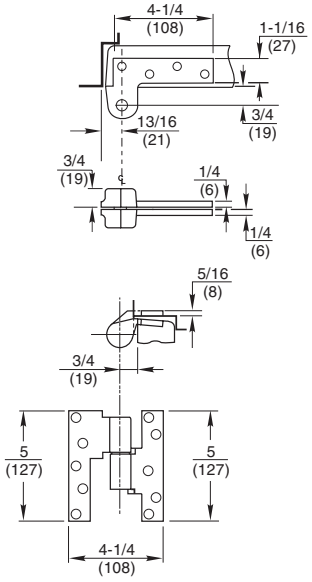
Description & Features

- Exterior or interior doors
- For doors without bottom pivots
- Weight to 300 lbs.*
- Door width up to 3'6" (1067mm)
- Handed
- Set consists of one H180 top pivot and two each M190 intermediate pivots
- Not available for fire door assemblies
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Doors will swing 180°, trim permitting
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height have two intermediate pivots. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws
- Available in plated finishes

** Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

Technical Information

(Frame stop required)



How to Order

Specify Model, Hand and Finish.

165	LH	626
MODEL	HAND LH - Left Hand RH - Right Hand	FINISH See page 70

MODEL 195



Description & Features

- Exterior or interior doors
- Weight to 450 lbs.*
- Door width up to 4'0" (1219mm)
- Handed
- 180 top pivot included
- 119 or M19 intermediate pivots are recommended (sold separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mortised into side jamb
- Pivot set can be vertically adjusted up to 3/16" (5mm) after installation without the use of shims
- Weight of door is borne by floor portion
- Doors will swing 180°, trim permitting
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws
- Available in plated or painted finishes

Optional Features

- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

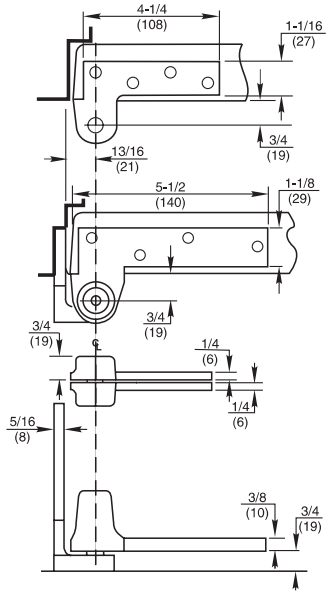
Compliance

- Available for fire door assemblies up to three hours. Specify F195. Intermediate pivot required by UL. Specify FM19 (sold separately)
- ANSI/BHMA A156.4, Grade 2
- ANSI C07172

** Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

Technical Information

(Frame stop required)



How to Order

Specify Model, Hand and Finish.

F195

Model	Description
195	3/4" offset
F195	fire rated

If applicable, specify ext spdl x in. (lengths below)

EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

LH

HAND
LH - Left Hand
RH - Right Hand

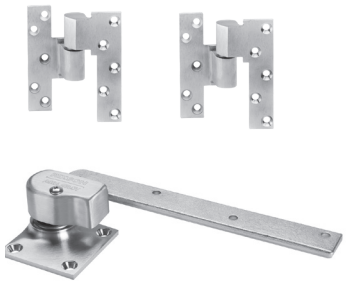
633

FINISH
See page 70

MODEL 547

Description & Features

- Exterior or interior doors
- For arch top doors or overhead concealed closers
- Weight to 500 lbs.
- Door width up to 3'6" (1067mm)
- Handed
- Set consists of two each M190 intermediate pivots and bottom pivot
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mounts directly to floor
- Doors will swing 180°, trim permitting
- Non-ferrous base material
- Doors 60" (1524) to 90" (2286mm) in height have two intermediate pivots. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws
- Available finishes: plated (547), plated or sprayed (F547)



Optional Features

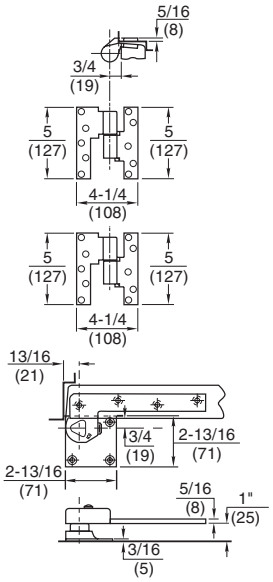
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance

- Available for fire door assemblies up to three hours. Specify F547. Intermediate pivots (FM190) included
- For 20-minute label suffix "–20" to the part number

Technical Information

(Frame stop required)



How to Order

Specify Model, Hand and Finish.

547 → **If applicable, specify ext spdl x in. (lengths below)** → **RH** → **626**

Model	Description
547	3/4" offset
547-20	20 min. fire label
F547	fire rated

EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

HAND
LH - Left Hand
RH - Right Hand

FINISH
See page 70

OFFSET HUNG
PIVOTS AND PIVOT SETS

MODEL 147

Description & Features
- Exterior or interior doors
- Weight to 600 lbs.*
- Door width up to 4'0" (1219mm)
- Handed
- 180 top pivot included
- M19 intermediate pivot required (sold separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mounts directly to floor
- Doors will swing 180°, trim permitting
- Uses same arm and cap as 27 floor closer
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws
- Available finishes: plated (147, 147-20); plated or sprayed (F147)



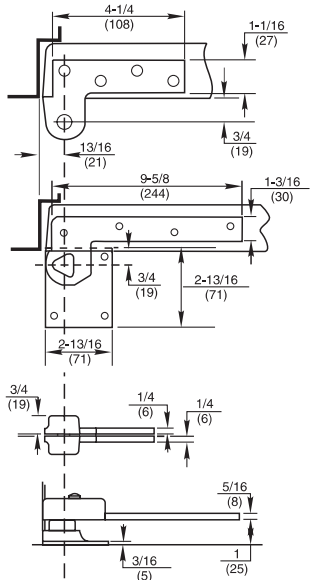


Optional Features
- Available for 1-1/2" (38mm) offset (door weight 350 lbs.) for doors with cladding or frame molding
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance
- Available for fire door assemblies up to three hours (ferrous material) – specify F147. Intermediate pivot required by UL. Specify FM19 (sold separately)
- For 20-minute label suffix "–20" to the part number
- ANSI/BHMA A156.4, Grade 2
- ANSI C07162/C07202
- Cal Fire 3725-0047:0108 (-20 min)

Technical Information

(Frame stop required)



** Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

How to Order
Specify Model, Hand and Finish.

147

Model	Description
147	3/4" offset (standard)
147 x 1-1/2"	1-1/2" offset
147-20	20 min. fire label, 3/4" offset
147-20 x 1-1/2"	20 min. fire label, 1-1/2" offset
F147	fire rated, 3/4" offset
F147 x 1-1/2"	fire rated, 1-1/2" offset

If applicable, specify ext spdl x in. (lengths below)

EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

RH

HAND
LH - Left Hand
RH - Right Hand

626

FINISH
See page 70

MODEL 117-1/2

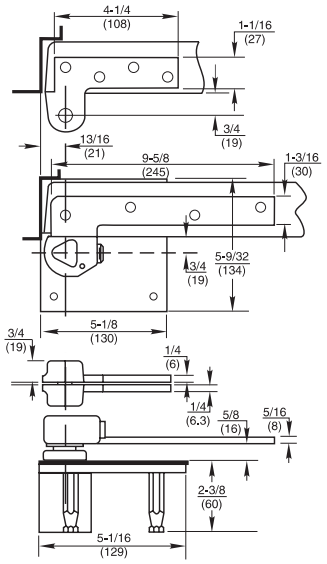
Description & Features

- Exterior or interior doors
- Weight to 650 lbs.*
- Door width up to 4'0" (1219mm)
- Handed
- 180 top pivot included
- M19 intermediate pivot required (sold separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mortised into floor
- Doors will swing 180°, trim permitting
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws
- Available finishes: plated (117-1/2, 117-1/2-20); plated or sprayed (F117-1/2)



Technical Information

(Frame stop required)



Optional Features

- Available for 1-1/2" (38mm) offset (door weight 350 lbs.) for doors with cladding or frame molding
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance

- Available for fire door assemblies up to three hours (ferrous material) – specify F117-1/2
- Intermediate pivot required by UL. Specify FM19 (sold separately)
- For 20-minute label suffix "–20" to the part number
- ANSI/BHMA A156.4, Grade 1
- ANSI C07121/C07161/C07201

** Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

How to Order

Specify Model, Hand and Finish.

117-1/2

Model	Description
117-1/2	3/4" offset (standard)
117-1/2 x 1-1/2"	1-1/2" offset
117-1/2-20 min	20 minute label, 3/4" offset
F117-1/2	fire rated, 3/4" offset
F117-20 x 1-1/2	fire rated, 1-1/2" offset

If applicable, specify ext spdl x in. (lengths below)

EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

RH

HAND
LH - Left Hand
RH - Right Hand

626

FINISH
See page 70

OFFSET HUNG
PIVOTS AND PIVOT SETS

MODEL L147





Description & Features
- Exterior or interior doors
- Lead-lined, heavy, high traffic doors
- Weight to 800 lbs.
- Door width up to 4'0" (1219mm)
- Handed
- L180 top pivot included
- ML19 intermediate pivot required (sold separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled 1/8" in 2"
- Bottom pivot mounts directly to floor
- Doors with lead lining under the skin should also use this product.
- Screw holes in top pivot and bottom arm spaced to straddle lead lining in the middle of the door
- Doors will swing 180°, trim permitting
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Available to accommodate lead in door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify when ordering
- Furnished with wood and machine screws
- Available finishes: plated (L147, L147-20); plated or sprayed (FL147)

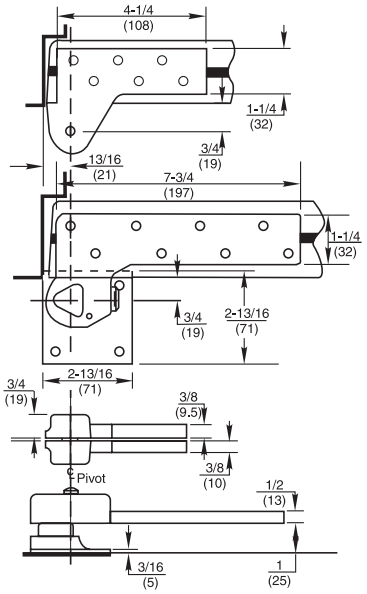
Optional Features
- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance
- Available for fire door assemblies up to three hours for 1-3/4" (44mm) doors only (ferrous material) – specify FL147. Intermediate pivot required by UL. Specify FML19 (sold separately)
- For 20-minute label suffix "–20" to the part number
- Cal Fire 3725-0047:0108 (-20 min)

How to Order
Specify Model, Door Thickness, Hand and Finish.

Technical Information

(Frame stop required)



1-3/4" door shown

L147

Model	Description
L147	3/4" offset
L147-20 (see note below)	20 minute label
FL147 (see note below)	fire rated

Note: 20 min and fire rated ONLY available with 1-3/4" doors

If applicable, specify ext spdl x in. (lengths below)

EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

Door thickness MUST be specified

DOOR THICKNESS
1-3/4"
2"
2-1/4"
2-1/2"
3"

RH

HAND
LH - Left Hand
RH - Right Hand

626

FINISH
See page 70

MODEL L117



Description & Features

- Exterior or interior doors
- Lead-lined, heavy, high traffic doors
- Weight to 1,750 lbs.*
- Door width up to 4'0" (1219mm)
- Handed
- L180 top pivot included
- ML19 intermediate pivot required (sold separately)
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled in 1/8" in 2"
- Bottom pivot mortised into floor
- Available to accommodate lead in door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify when ordering
- Additional thrust bearing for greater load capacity
- Doors will swing 180°, trim permitting
- Non-ferrous base material for top pivot
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws
- Available finishes: plated (L117, L117-20); plated or sprayed (FL117)

Optional Features

- Extended spindles available in 1/2" (13mm) increments up to 2" (51mm) longer than standard

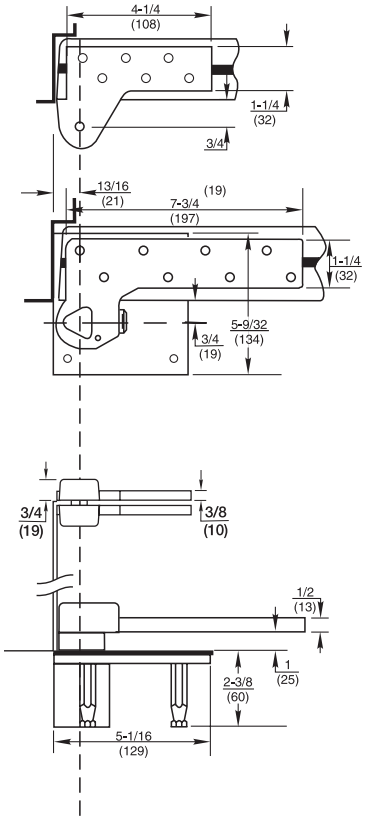
Compliance

- Available for fire door assemblies up to three hours (ferrous material). Specify FL117. Intermediate pivot required by UL. Specify FML19 (sold separately).
  Note: UL listing for 1-3/4" thick doors only
- For 20-minute label suffix "–20" to the part number
- ANSI/BHMA A156.4, Grade 1
- ANSI C07111

** Door size & weight guidelines are determined using the appropriate number of intermediate pivots*

Technical Information

(Frame stop required)



Pivot for 1-3/4" door shown

How to Order

Specify Model, Door Thickness, Hand and Finish.

L117

Model	Description
L117	3/4" offset
L117-20 (see note below)	20 minute label
FL117 (see note 1 below)	fire rated

Note: 20 min and fire rated ONLY available with 1-3/4" doors

If applicable, specify ext spdl x in. (lengths below)

EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

Door thickness MUST be specified

DOOR THICKNESS
1-3/4"
2"
2-1/4"
2-1/2"
3"

RH

HAND
LH - Left Hand
RH - Right Hand

626

FINISH
See page 70

Experience a safer and more open world

OFFSET HUNG TOP PIVOTS

PIVOTS AND PIVOT SETS

MODEL 180



Description & Features

- Full mortise
- Non-handed
- Standard top pivot for most offset pivot sets and floor closers
- Oil-impregnated sintered bronze bushing
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Non-ferrous base material
- Furnished with wood and machine screws
- Available finishes: plated (180, H180, 180-20, H180-20); plated or sprayed (F180, FH180)

Optional Features

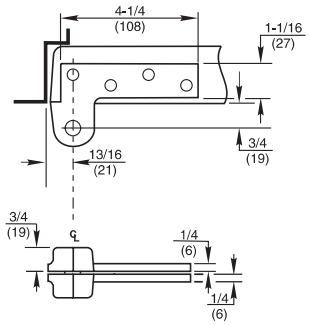
- Available for 1-1/2" (38mm) offset
- For extra wide or high traffic prefix "H" – H pivots have heavy-duty needle bearings; available in 1-1/2" (38mm) offset
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Compliance

- Available for fire door assemblies (ferrous material) – specify F180 or FH180
- For 20-minute label suffix "–20" to the part number
- Cal Fire 3725-0047:0108 (-20 min)

Technical Information

(Frame stop required)



How to Order

Specify Model, and Finish.

180

Model	Description
180	3/4" offset (standard)
180 x 1-1/2"	1-1/2" offset
180-20	20 minute label, 3/4" offset
180-20 x 1-1/2"	20 minute label, 1-1/2" offset
F180	fire rated, 3/4" offset
F180 x 1-1/2"	fire rated, 1-1/2" offset
H180	heavy-duty needle bearing, 3/4" offset
H180-20	20 minute label, heavy-duty needle bearing, 3/4" offset
H180 x 1-1/2"	heavy-duty needle bearing, 1-1/2" offset
FH180	fire rated, heavy-duty needle bearin, 3/4" offfset

If applicable, specify longer pivot pin (lengths below)

LONGER PIVOT PIN
1/4"
1/2"
3/4"

622

FINISH
See page 70

MODEL 180 X 102



Description & Features

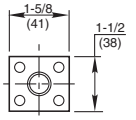
- Full mortise
- Handed
- Special top pivot for doors in deep reveals or unusual door details where one leaf is too long for the normal door or frame portion
- Oil-impregnated sintered bronze bushings
- Non-ferrous base metal
- May be inverted
- Furnished with wood and machine screws
- Available in plated finishes

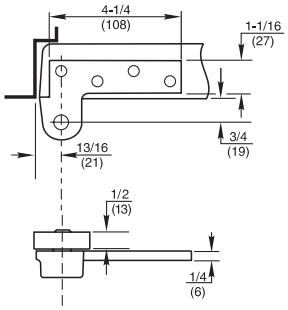
Optional Features

- Available for 1-1/2" (38mm) offset
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Technical Information

(Frame stop required)





How to Order

Specify Model, Hand and Finish.

Model	Description
180x102	3/4" offset (standard)
180x102 x 1-1/2 ofset	1-1/2" offset

180x102

If applicable, specify longer pivot pin (lengths below)

LONGER PIVOT PIN
1/4"
1/2"
3/4"

RH

HAND
LH - Left Hand
RH - Right Hand

625

FINISH
See page 70

OFFSET HUNG TOP PIVOTS

PIVOTS AND PIVOT SETS

MODEL FA180



Description & Features

- Behavioral health design
- Full mortise
- Handed
- Standard top pivot for SEC27-180 floor closer packages
- Optional top pivot for institutional use or installations where flat surfaces are objectionable
- Ferrous base material
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Furnished with wood and machine Torx® screws
- Available in plated or sprayed finishes

Optional Features

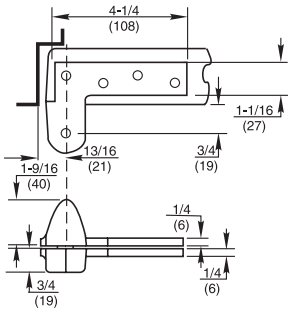
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Compliance

- For fire door assemblies

Technical Information

(Frame stop required)



How to Order

Specify Model, Hand and Finish.

FA180
MODEL

If applicable, specify longer pivot pin (lengths below)
LONGER PIVOT PIN
1/4"
1/2"
3/4"

RH
HAND
LH - Left Hand
RH - Right Hand

BSP
FINISH
See page 70

MODEL L180



Description & Features

- Lead-lined, heavy, high traffic doors
- Full mortise
- Non-handed
- Standard top pivot for L147, L117 pivots and L27 floor closers
- Doors with lead lining under the skin should also use this product
- Screw holes spaced to straddle lead in the middle of the door
- Available to accommodate lead lined door thicknesses: 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify when ordering
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Non-ferrous base material
- Furnished with wood and machine screws
- Available finishes: plated (L180, L180-20); plated or sprayed (FL180)

Optional Features

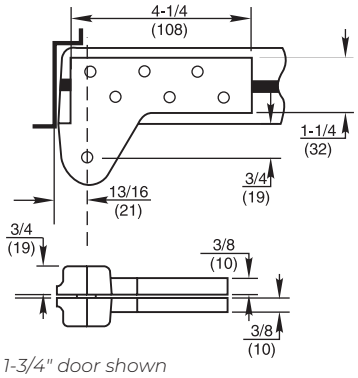
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Compliance

- Available for fire door assemblies for 1-3/4" (19mm) doors only (ferrous material). Specify FL180
- For 20-minute label suffix "–20" to the part number
- Cal Fire 3725-0047:0108 (-20 min)

Technical Information

(Frame stop required)



1-3/4" door shown

How to Order

Specify Model, Door Thickness, and Finish.

L180

Model	Description
L180	3/4" offset
L180-20 (see note below)	20 min label
FL180 (see note below)	fire rated

Note: 20 min and fire rated ONLY available with 1-3/4" doors

If applicable, specify longer pivot pin (lengths below)

LONGER PIVOT PIN
1/4"
1/2"
3/4"

Door thickness MUST be specified

DOOR THICKNESS
1-3/4"
2"
2-1/4"
2-1/2"
3"

622

FINISH
See page 70

OFFSET HUNG TOP PIVOTS

PIVOTS AND PIVOT SETS

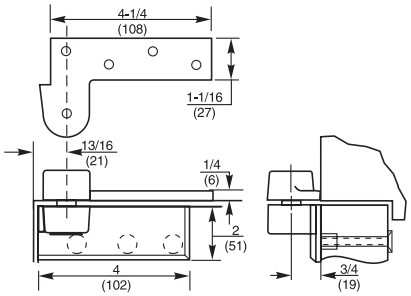
MODEL 280

Description & Features

- Half surface
- Handed
- Flush door and frame application only
- Optional top pivot where door portion cannot be mortised
- 1-3/4" (44mm) door only
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Contact factory if door is not flush
- Non-ferrous base material
- Furnished with wood and machine screws
- Available finishes: plated (280, 280-20); plated or sprayed (F280)



Technical Information



Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Compliance

- Available for fire door assemblies (ferrous material) – specify F280
- For 20-minute label suffix "–20" to the part number
- Cal Fire 3725-0047:0108 (-20 min)

How to Order

Specify Model, Hand and Finish.

280

Model	Description
280	3/4" offset
280-20	20 minute label
F280	fire rated

If applicable, specify longer pivot pin (lengths below)

LONGER PIVOT PIN
1/4"
1/2"
3/4"

RH

HAND
LH - Left Hand
RH - Right Hand

626

FINISH
See page 70

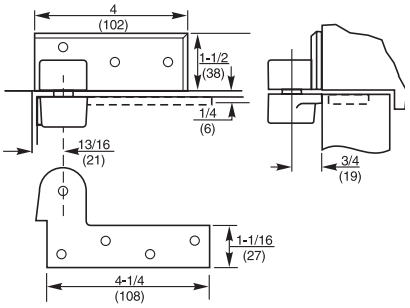
MODEL 380

Description & Features

- Half mortise
- Handed
- Flush door and frame application only
- Optional top pivot where jamb portion cannot be mortised
- Designed for channel iron door frames with aluminum, hollow metal or wood doors
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Non-ferrous base material
- Furnished with wood and machine screws
- Available finishes: plated (380, 380-20); plated or sprayed (F380)



Technical Information



Optional Features

- Door portion from L180 pivot is available if lead-lined doors are used – specify L380 and door thickness
- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Compliance

- Available for fire door assemblies (ferrous material) – specify F380, FL380
- For 20-minute label suffix "–20" to the part number
- Cal Fire 3725-0047:0108 (-20 min)

How to Order

Specify Model, Door Thickness, and Finish.

L380

Model	Description
380	3/4" offset
380-20	20 minute label
F380	fire rated
L380	lead lined
FL380 (see note below)	fire rated, lead lined

Note: fire rated ONLY available with 1-3/4" doors

If applicable, specify longer pivot pin (lengths below)

LONGER PIVOT PIN
1/4"
1/2"
3/4"

Door thickness MUST be specified on L380

DOOR THICKNESS
1-3/4"
2"
2-1/4"
2-1/2"
3"

619

FINISH
See page 70

OFFSET HUNG TOP PIVOTS

PIVOTS AND PIVOT SETS

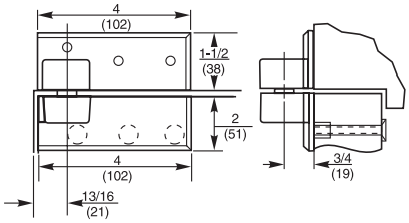
MODEL 480



Description & Features

- Full surface
- Handed
- Flush door and frame application only
- Optional top pivot where door and jamb portion cannot be mortised
- Designed for channel iron door frames and any door where thru-bolting is advantageous
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- 1-3/4" (44mm) door only
- Non-ferrous base material
- Furnished with wood and machine screws
- Available finishes: plated (480, 480-20); plated or sprayed (F480)

Technical Information



Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

Compliance

- Available for fire door assemblies (ferrous material) – specify F480
- For 20-minute label suffix "–20" to the part number
- Cal Fire 3725-0047:0108 (-20 min)

How to Order

Specify Model, Hand, and Finish.

480

Model	Description
480	3/4" offset
480-20	20 minute label
F480	fire rated

If applicable, specify longer pivot pin (lengths below)

LONGER PIVOT PIN
1/4"
1/2"
3/4"

RH

HAND
LH - Left Hand
RH - Right Hand

619

FINISH
See page 70

MODEL 680

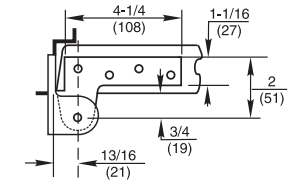


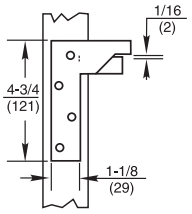
Description & Features

- Side jamb mounted
- Frame portion
- Handed
- Used where no frame exists above door, or where it is not possible to anchor pivot into header of frame
- Side jamb portion can be surface mounted or mortised
- Non-ferrous base material
- 3/4" (19mm) offset (measured from centerline of pivot to face of door)
- Door edges must be beveled in 1/8" in 2"
- Furnished with wood and machine screws
- Possible mountings:
  - Surface mount jamb; double mortise door
  - Mortise jamb, header and door
  - Mortise jamb and door
- Available in plated finishes

Technical Information

(Frame stop required)



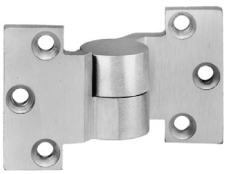


How to Order

Specify Model, Hand, and Finish.

680	RH	626
MODEL	HAND LH - Left Hand RH - Right Hand	FINISH See page 70

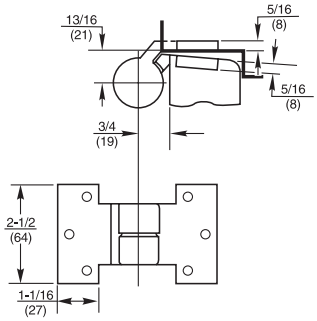
MODEL 119



Description & Features

- Full mortise
- Handed
- Not load-bearing
- Maintains door alignment
- Available 3/4" (19mm) offset only
- Door edges must be beveled in 1/8" in 2"
- Used with 117, 117-1/4, 195 pivot sets and 127 and 427 floor closers
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) of door height warrants another intermediate pivot
- Furnished with wood and machine screws
- Available in plated finishes

Technical Information



How to Order

Specify Model, Hand, and Finish.

119
MODEL

RH
HAND
LH - Left Hand
RH - Right Hand

622
FINISH
See page 70

INTERMEDIATE OR SIDE JAMB PIVOTS

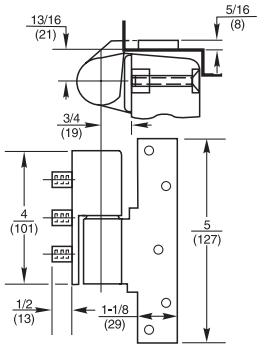
MODEL 219



Description & Features

- Half surface
- Handed
- Flush door and frame applications only
- Optional intermediate pivot where door portion cannot be mortised
- Maintains door alignment
- 3/4" (19mm) offset only
- 1-3/4" (44mm) door only
- Door edges must be beveled in 1/8" in 2"
- Non-ferrous base material
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws
- Available in plated finishes

Technical Information



Compliance

- For 20-minute label suffix "–20" to the part number
- Cal Fire 3725-0047:0108 (-20 min)

How to Order

Specify Model, Hand, and Finish.

219

Model	Description
219	3/4" offset
219-20	20 minute label

RH

HAND
LH - Left Hand
RH - Right Hand

625

FINISH
See page 70

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INTERMEDIATE OR SIDE JAMB PIVOTS

PIVOTS AND PIVOT SETS

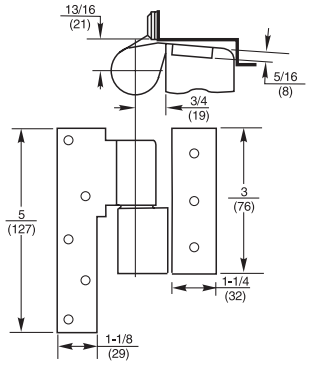
MODEL 319

Description & Features

- Half mortise
- Handed
- Flush door and frame applications only
- Optional intermediate pivot where jamb portion cannot be mortised
- Maintains door alignment
- 3/4" (19mm) offset only
- Door edges must be beveled in 1/8" in 2"
- Non-ferrous base material
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws
- Available in plated finishes



Technical Information



Optional Features

- Door portion from ML19 pivot is available if lead-lined door is used – specify L319 and door thickness

Compliance

- For 20-minute label suffix "–20" to the part number
- Cal Fire 3725-0047:0108 (-20 min)

How to Order

Specify Model, Hand, and Finish.

319

Model	Description
319	3/4" offset
319-20	20 minute label
L319	lead lined

MUST be specified for L319

DOOR THICKNESS
1-3/4"
2"
2-1/4"
2-1/2"
3"

LH

HAND
LH - Left Hand
RH - Right Hand

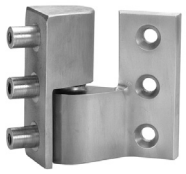
625

FINISH
See page 70

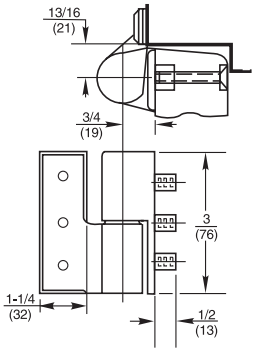
MODEL 419

Description & Features

- Full surface
- Handed
- Flush door and frame applications only
- Optional intermediate pivot where door and jamb portion cannot be mortised
- Maintains door alignment
- 3/4" (19mm) offset only
- Non-ferrous base material
- 1-3/4" (44mm) door only
- Doors up to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws
- Available in plated finishes



Technical Information



Compliance

- For 20-minute label suffix "–20" to the part number
- Cal Fire 3725-0047:0108 (-20 min)

How to Order

Specify Model, Hand, and Finish.

419

Model	Description
419	3/4" offset
419-20	20 minute label

RH

HAND
LH - Left Hand
RH - Right Hand

622

FINISH
See page 70

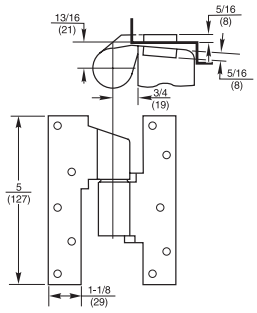
MODEL FA19



Description & Features

- Full mortise
- Behavioral health or high security applications
- Handed
- Optional intermediate pivot for institutional use or installations where flat surfaces are objectionable
- Maintains door alignment
- Aids in installing bottom pivots
- 3/4" (19mm) offset
- Door edges must be beveled in 1/8" in 2"
- Ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine Torx® screws
- Available in plated or sprayed finishes

Technical Information



Compliance

- May be used with fire door assemblies

How to Order

Specify Model, Hand, and Finish.

FA19 → MODEL

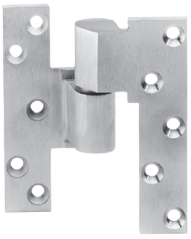
RH → HAND
LH - Left Hand
RH - Right Hand

652 → FINISH
See page 70

INTERMEDIATE OR SIDE JAMB PIVOTS

PIVOTS AND PIVOT SETS

MODEL M19



Description & Features

- Full mortise
- Handed
- Not load-bearing
- Maintains door alignment
- Aids in installing floor closers and bottom pivots
- 3/4" (19mm) offset
- Door edges must be beveled in 1/8" in 2"
- Non-ferrous base metal
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws
- Available in plated or sprayed finishes

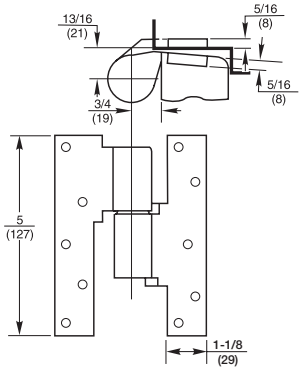
Optional Features

- Available for 1-1/2" (38mm) offset

Compliance

- Available for fire door assemblies (ferrous material) - specify FM19
- For 20-minute label suffix "–20" to the part number
- Cal Fire 3725-0047:0108 (-20 min)

Technical Information



How to Order

Specify Model, Hand, and Finish.

M19

Model	Description
M19	3/4" offset (standard)
M19 x 1-1/2"	1-1/2" offset
M19-20	20 minute label, 3/4" offset
M19-20 x 1-1/2	20 minute label, 1-1/2" offset
FM19	fire rated, 3/4" offset
FM19 x 1-1/2"	fire rated, 1-1/2" offset

RH

HAND
LH - Left Hand
RH - Right Hand

626

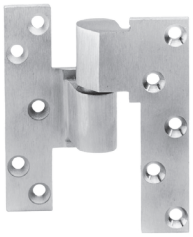
FINISH
See page 70

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INTERMEDIATE OR SIDE JAMB PIVOTS

PIVOTS AND PIVOT SETS

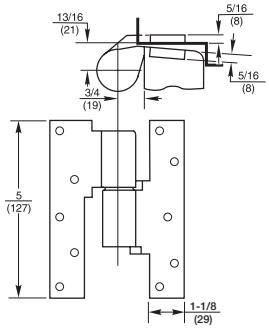
MODEL M190



Description & Features

- Heavy-duty full mortise
- Handed
- Used when frame condition does not allow standard top pivot
- Lateral load-bearing
- Maintains door alignment
- Aids in installing floor closers and bottom pivots
- Heavy-duty needle bearing
- 3/4" (19mm) offset standard
- Door edges must be beveled in 1/8" in 2"
- Non-ferrous base metal
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws
- Available in plated or sprayed finishes

Technical Information



Optional Features

- Available for 1-1/2" (38mm) offset

Compliance

- Available for fire door assemblies (ferrous material) – specify FM190
- For 20-minute label suffix "–20" to part number
- Cal Fire 3725-0047:0108 (-20 min)

How to Order

Specify Model, Hand, and Finish.

M190

Model	Description
M190	3/4" offset (standard)
M190 x 1-1/2"	1-1/2" offset
M190-20	20 minute label, 3/4" offset
FM190	fire rated, 3/4" offset
FM190 x 1-1/2"	fire rated, 1-1/2" offset

LH

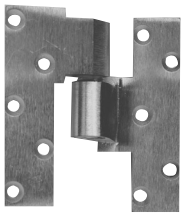
HAND
LH - Left Hand
RH - Right Hand

605

FINISH
See page 70

INTERMEDIATE OR SIDE JAMB PIVOTS

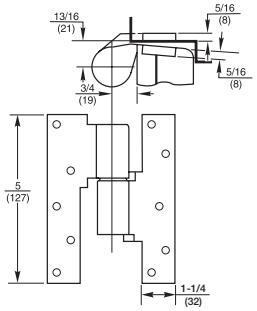
MODEL ML19



Description & Features

- Full mortise
- Lead-lined, heavy or high traffic doors
- Handed
- Load-bearing
- Screw holes spaced to straddle lead lining in center of door. Also use on extra heavy or high traffic door
- Maintains door alignment
- Aids in installing closers and pivots
- Door edges must be beveled in 1/8" in 2"
- Available to accommodate door thicknesses 1-3/4" (44mm), 2" (51mm), 2-1/4" (57mm), 2-1/2" (64mm), or 3" (76mm) – specify thickness when ordering
- Non-ferrous base material
- Doors 60" (1524mm) to 90" (2286mm) in height should use one intermediate pivot. Each additional 30" (762mm) warrants another intermediate pivot
- Furnished with wood and machine screws
- Available finishes: plated (ML19, ML19-20); plated or sprayed (FML19)

Technical Information



Compliance

- Available for fire door assemblies – 1-3/4" (44mm) door only – specify FML19
- For 20-minute label suffix "–20" to the part number
- Cal Fire 3725-0047:0108 (-20 min)

How to Order

Specify Model, Door Thickness, Hand, and Finish.

ML19

Model	Description
ML19	3/4" offset
ML19-20 (see note below)	20 minute label
FML19 (see note below)	fire rated

Note: 20 minute and fire rated ONLY available with 1-3/4" doors

Door thickness MUST be specified

DOOR THICKNESS
1-3/4"
2"
2-1/4"
2-1/2"
3"

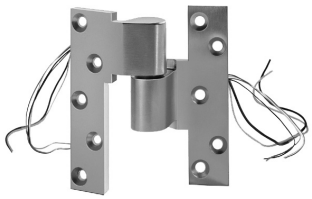
RH

HAND
LH - Left Hand
RH - Right Hand

626

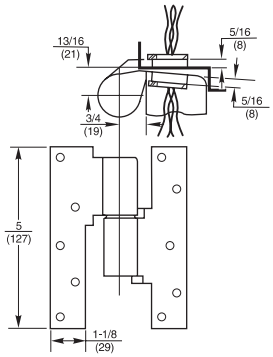
FINISH
See page 70

MODEL E-M19



Description & Features
- Offset hung
- Electric pivot for power transfer
- Handed
- Not load-bearing
- Door and jamb portion are factory assembled and cannot be separated
- Always use M19 intermediate pivot to install door
- Specify four, six, eight or twelve wires
- ElectroLynx® option available, suffix “QC#” (number of wires)
- 24-gauge wire is rated at 2 amps for low voltage, Class II wiring applications
- 3/4" (19mm) offset
- Door edges must be beveled in 1/8" in 2"
- Furnished with wood and machine screws
- Available in plated finishes

Technical Information



Optional Features
- Available 1-1/2" offset

Compliance
- Available for fire door assemblies (ferrous material) – specify E-FM19
- For 20-minute label, suffix “–20” to the part number

Whenever power transfer pivots are used, the leaves must not be separated

How to Order
Specify Model, Wires, Hand, and Finish.

EM19

Model	Description
EM19	3/4" offset (standard)
EM19 x 1-1/2"	1-1/2" offset
EM19-20	3/4" offset, 20 minute label
EM19-20 x 1-1/2"	1-1/2" offset, 20 minute label
EFM19	fire rated, 3/4" offset

No. of wires must be specified

WIRES
4
6
8
12

RH

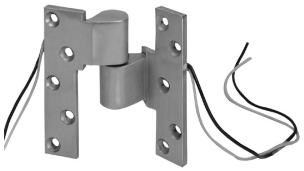
HAND
LH - Left Hand
RH - Right Hand

626

FINISH
See page 70

ELECTRIFIED INTERMEDIATE OR SIDE JAMB PIVOTS

MODEL E-M19U

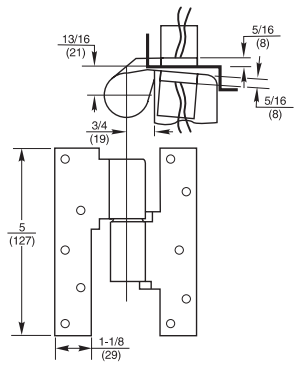


Description & Features

- Offset hung
- Electric pivot for power transfer
- Handed
- For electrified panic devices with large inrush current
- Not load-bearing
- Door and jamb portion are factory assembled and cannot be separated
- Two each 18 gauge wires. Each wire is rated at 2 amps continuously. UL listed for 24-volt,
  Class I wiring
- ElectroLynx® option not available
- Junction boxes are supplied with pivots
- Not available in ferrous material
- 3/4" (19mm) offset
- Always use M19 intermediate pivot to install door
- Door edges must be beveled in 1/8" in 2"
- Furnished with wood and machine screws
- Available in plated finishes

Whenever power transfer pivots are used, the leaves must not be separated

Technical Information



How to Order

Specify Model, Hand, and Finish.

EM19U
MODEL

2-wires
WIRES
2 (18 gauge)

RH
HAND
LH - Left Hand
RH - Right Hand

626
FINISH
See page 70

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MODEL E-ML19



Description & Features

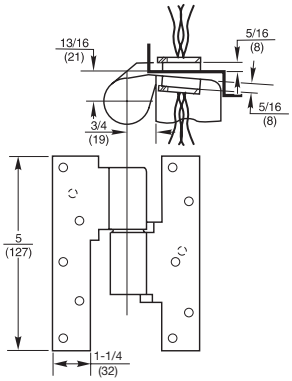
- Offset hung
- Lead lined or extra heavy doors
- Electric pivot for power transfer
- Handed
- Not load-bearing
- Door and jamb portion are factory assembled and cannot be separated
- Specify four, six, eight or twelve wires
- ElectroLynx® option available, suffix “QC#” (number of wires)
- 24-gauge wire is rated at 2 amps for low voltage, Class II wiring applications
- 3/4" (19mm) offset
- Available 1-3/4" (44mm) doors only
- Always use ML19 intermediate pivot to install door
- Door edges must be beveled in 1/8" in 2"
- Furnished with wood and machine screws
- Available in plated finishes

Compliance

- Available for fire door assemblies (ferrous base material) specify E-FML19
- For 20-minute label, suffix “–20” to the part number

Whenever power transfer pivots are used, the leaves must not be separated

Technical Information



How to Order

Specify Model, Hand, and Finish.

EML19

Model	Description
EML19	3/4" offset
EML19-20	20 minute label
EFML19	fire rated

RH

HAND
LH - Left Hand
RH - Right Hand

626

FINISH
See page 70

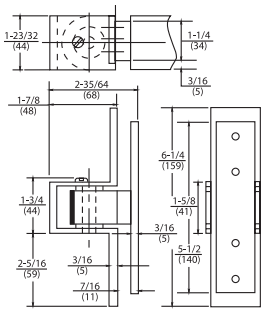
MODEL F519



Description & Features

- Pocket door pivot
- Non-handed
- Full mortise, non-handed pivot for pocket door applications
- Heavy-duty steel pivot with ball bearings
- Allows doors to swing 90°
- Minimum three pocket pivots per door
- Doors over 90" (2286mm) in height require four pocket pivots. Every additional 30" (762mm) of door height warrants another pocket pivot
- Furnished with wood and machine screws
- Available in plated or sprayed finishes

Technical Information



Compliance

- UL listed for all labeled pocket fire-door assemblies up to and including 3 hours
- Fire-rated door assemblies must have been tested with pocket pivots
- ANSI/BHMA A156.4, Grade 2

How to Order

Specify Model, and Finish.

F519 — MODEL

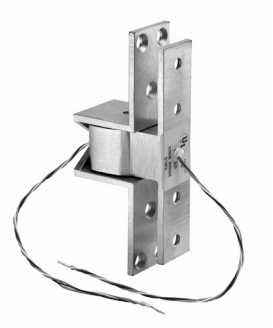
652 — FINISH
See page 70

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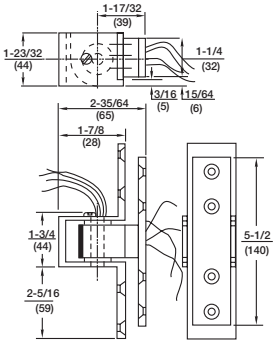
MODEL E-F519

Description & Features

- Pocket door pivot
- Electric pivot for power transfer
- Non-handed
- Full mortise, non-handed pivot for pocket door applications
- Door and jamb portions are factory assembled and cannot be separated
- Always use as middle pivot
- Available with four wires only
- ElectroLynx® option available, suffix “QC4”
- 24-gauge wire is rated at 2 amps for low voltage, Class II wiring applications
- Heavy-duty steel pivot with ball bearings
- Allows doors to swing 90°
- Minimum three pocket pivots per door
- Doors over 90" (2286mm) in height require four pocket pivots. Every additional 30" (762mm) of door height warrants another pocket pivot
- Furnished with wood and machine screws
- Available in plated finishes



Technical Information



How to Order

Specify Model, and Finish.

EF519	4-wires	631
MODEL	WIRES 4 (24-gauge)	FINISH See page 70

MODEL 176

Description & Features

- Interior doors
- Weight up to 150 lbs.
- Door sizes up to 3'0" x 8'0" (914x2438mm)
- Door thickness 1-3/8" to 1-3/4" (34-44mm)
- Non handed
- 320 top pivot included
- Bottom pivot mounts directly into concrete floor
- Pivot point centered in thickness of the door
- Door must have radius on pivot edge
- Not allowed for use on labeled doors and frames
- 3/8" (10mm) vertical adjustment
- No spindle extensions available
- Furnished with wood and machine screws
- Available in plated finishes

How to Order

Specify Model, and Finish.

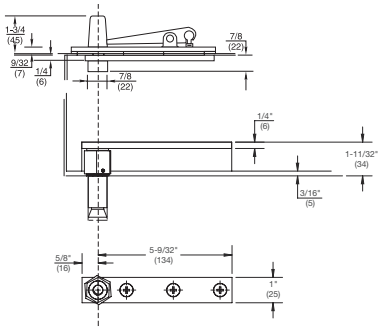
176 — MODEL

625 — FINISH
See page 70





Technical Information



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MODEL 178

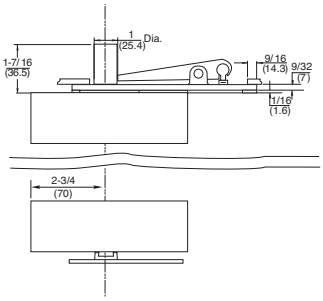


Description & Features

- Interior doors
- Weight to 175 lbs.
- Door sizes up to 3'0" x 8'0" (914 x 2438mm)
- Non handed
- Used on full glass doors
- Doors do not return to center
- Accommodates glass thicknesses 3/8"-1/2" (10-13mm)
- Includes special floor portion, top and bottom patch fittings and walking beam top pivot
- Available in plated finishes

Center hung pivots are door hanging means only. To close doors see closer sections of the catalogs.

Technical Information



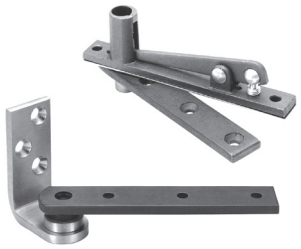
How to Order

Specify Model, and Finish.

178 — MODEL

622 — FINISH
See page 70

MODEL 127-3/4



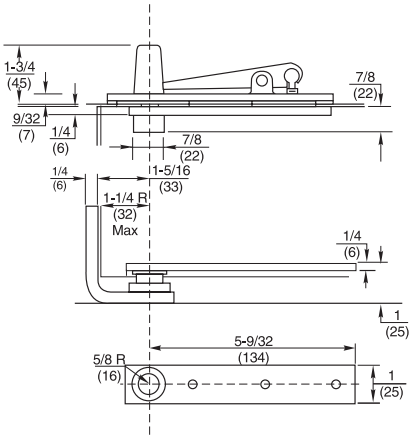
Description & Features

- Interior doors
- Weight to 200 lbs.
- Door sizes up to 3'6"x 8'6" (1067 x 2591mm)
- Non-handed
- 320 top pivot included
- Bottom pivot mortised into side jamb
- Weight of door borne by floor
- Pivot point centered in thickness of door
- Door must have radius on pivot edge
- Not allowed for use on labeled doors and frames
- Pivot point remains constant at 1-1/4" (32mm) from the edge of the door
- Furnished with wood and machine screws
- Available in plated finishes

Optional Features

- Available with extended spindles in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Technical Information



How to Order

Specify Model, and Finish.

127-3/4
MODEL

If applicable, specify ext. spdls x in. (lengths below)
EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

626
FINISH
See page 70

MODEL 128-3/4



Description & Features

Identical to the 127-3/4 except

- Weight to 250 lbs.
- Bottom pivot mounts directly to floor

Center hung pivots are door hanging means only. To close doors, see floor closer sections of the catalogs.

How to Order

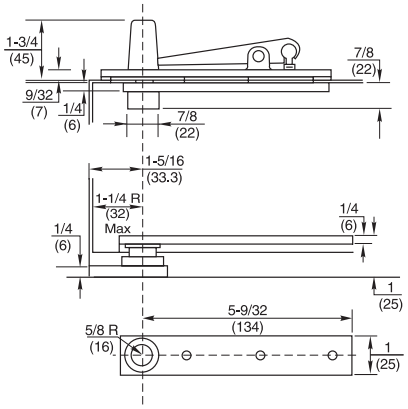
Specify Model, and Finish.

128-3/4
MODEL

If applicable, specify ext. spdls x in. (lengths below)
EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

626
FINISH
See page 70

Technical Information



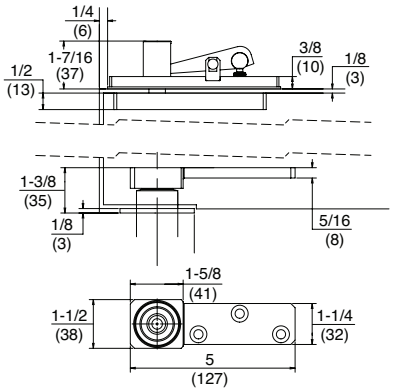
MODEL 270



Description & Features

- Exterior or interior doors
- Weight to 300 lbs.
- Door sizes up to 3'8"x 8'6"* (1118 x 2591mm)
- Non-handed
- Top pivot included
- Bottom pivot mounts directly to floor
- Pivot point centered in thickness of door
- Door must have radius on pivot edge
- Pivot set features sealed bearings for protection against weather and debris
- Not allowed for use on labeled doors and frames
- Furnished with wood and machine screws
- Available in plated finishes

Technical Information



Compliance

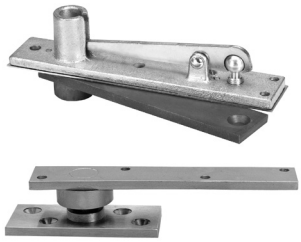
- ANSI/BHMA A156.4, Grade 1
- ANSI C07031

How to Order

Specify Model, and Finish.

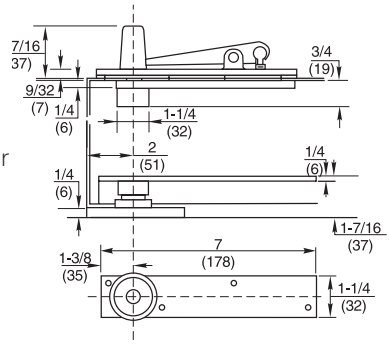
270	625
MODEL	FINISH
	See page 70

MODEL 370



Description & Features
- Exterior or interior doors
- Weight to 500 lbs.
- Door sizes up to 3'8"x 8'6"* (1118 x 2591mm)
- Non-handed
- 340 top pivot included
- Bottom pivot mounts directly to floor
- Pivot point centered in thickness of door
- Door must have radius on pivot edge
- Pivot set features sealed bearings for protection against weather and debris
- Not allowed for use on labeled doors and frames
- Furnished with wood and machine screws
- Available in plated finishes

Technical Information



Optional Features
- Available with extended spindles in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Compliance
- ANSI/BHMA A156.4, Grade 2
- ANSI C07032

Center hung pivots are door hanging means only. To close doors, see floor closer sections of the catalogs.

**For doors taller than 8'6" use top pivot 345 in lieu of 340*

How to Order
Specify Model, and Finish.

370
MODEL

If applicable, specify ext. spdls x in. (lengths below)
EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

626
FINISH
See page 70

MODEL 375



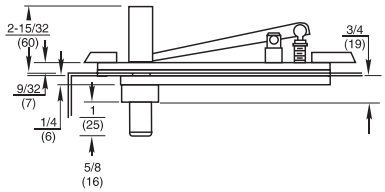
Description & Features

- Exterior or interior doors
- Weight to 500 lbs.
- Door width: up to 3'8" (1118mm)
- Door height: above 8'6" (2591mm)
- Non-handed
- 345 top pivot included
- Bottom pivot mounts directly to floor
- Pivot point centered in thickness of door
- Door must have radius on pivot edge
- Pivot set features sealed bearings for protection against weather and debris
- Not allowed for use on labeled doors and frames
- Furnished with wood and machine screws
- Available in plated finishes

Optional Features

- Available with extended spindles in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Technical Information



For bottom portion see 370 above

How to Order

Specify Model, and Finish.

375
MODEL

If applicable, specify ext. spdls x in. (lengths below)
EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

605
FINISH
See page 70

CENTER HUNG
PIVOTS AND PIVOT SETS





MODEL 117-3/4

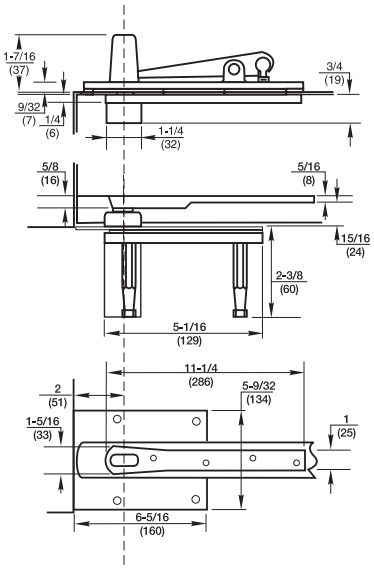
Description & Features
- Exterior or interior doors
- Weight to 600 lbs.
- Door sizes up to 4'0"x 8'6"* (1219 x 2591mm)
- Non-handed
- 340 top pivot included
- Bottom pivot is mortised into floor
- Pivot point centered in thickness of door
- Door must have radius on pivot edge
- Heavy-duty bearings
- Pivot set features sealed bearings for protection against weather and debris
- Not allowed for use on labeled doors and frames
- Furnished with wood and machine screws
- Available in plated finishes

Optional Features
- Available with extended spindles in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Center hung pivots are door hanging means only. To close doors, see floor closer sections of the catalogs.

**For doors taller than 8'6" use top pivot 345 in lieu of 340*

Technical Information



How to Order
Specify Model, and Finish.

117-3/4
MODEL

If applicable, specify ext. spdls x in. (lengths below)
EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

618
FINISH
See page 70

MODEL H117-3/4



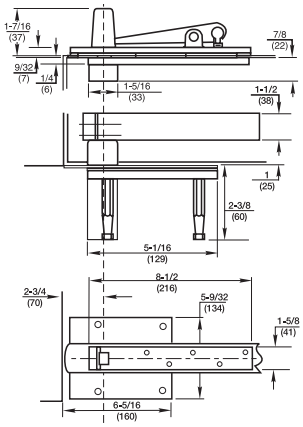
Description & Features

- Exterior or interior doors
- Weight to 1,000 lbs.
- Door Sizes up to 4'0"x 8'6"* (1219 x 2591mm)
- Non-handed
- H340 top pivot included
- Bottom pivot is mortised into floor
- End load arm for minimum 2" (51mm) thick doors
- Pivot point centered in thickness of door
- Additional surface applied thrust bearing
- Door must have radius on pivot edge
- Pivot point remains constant at 2-3/4" (70mm) from the edge of the door
- Pivot set features sealed bearings for protection against weather and debris
- Not allowed for use on labeled doors and frames
- Furnished with wood and machine screws
- Available in plated finishes

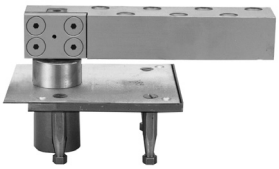
Optional Features

- Available with extended spindles in 1/2" (13mm) increments up to 2" (51mm) longer than standard

Technical Information



MODEL H117-3/4 X 587 ARM

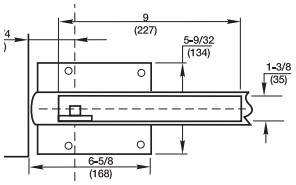


Description & Features

Identical to the H117-3/4 except:

- Special side load arm for 1-3/4" (44mm) thick doors or for moving pivot point toward lock edge of door

Technical Information



How to Order

Specify Model, and Finish.

H117-3/4

Model	Description
H117-3/4	2" thick doors
H117-3/4 x 587	1-3/4" thick doors only

If applicable, specify ext. spdls x in. (lengths below)

EXTENDED SPINDLES
1/2"
1"
1-1/2"
2"

626

FINISH
See page 70

Center hung pivots are door hanging means only. To close doors, see floor closer sections of the catalogs.

**For doors taller than 8'6" use top pivot H345 in lieu of H340*

MODEL 320

Description & Features

- Fully concealed
- Non-handed
- Standard top pivot for models 127-3/4, 128-3/4, and 176 pivot sets
- Walking beam-type pivot – 1/2" (13mm) diameter pivot pin with 3/4" (19mm) engagement
- Oil-impregnated sintered bronze bushing
- Completely concealed when door is closed
- Furnished with wood and machine screws
- Available in plated finishes

Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

How to Order

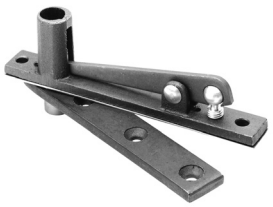
Specify Model, and Finish.

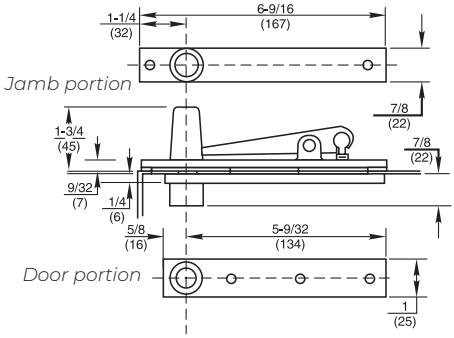
320
MODEL

If applicable, specify longer pivot pin (lengths below)
LONGER PIVOT PIN
1/4"
1/2"
3/4"

605
FINISH
See page 70

Technical Information





MODEL 340

Description & Features

- Fully concealed
- Non-handed
- Standard top pivot for Models 370 and 117-3/4 pivot sets. Also used for 28, 30, 40 and 50 Series floor closers
- Walking beam-type pivot – 1/2" (13mm) diameter pivot pin with 3/4" (19mm) engagement
- Oil-impregnated sintered bronze bushing
- Completely concealed when door is closed
- Furnished with wood and machine screws
- Available in plated finishes

Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

How to Order

Specify Model, and Finish.

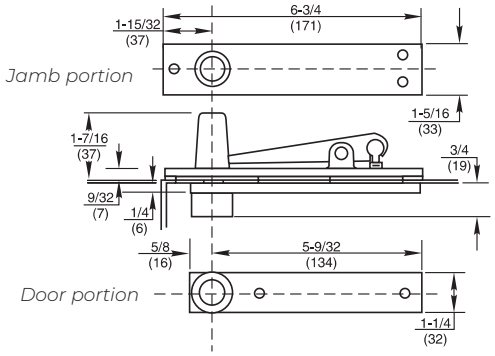
340
MODEL

If applicable, specify longer pivot pin (lengths below)
LONGER PIVOT PIN
1/4"
1/2"
3/4"

605
FINISH
See page 70

Technical Information





MODEL 340 X 102

Description & Features

- Fully concealed
- Non-handed
- Optional top pivot for doors or frames that have conflicts with other hardware
- Can be inverted. The walking beam portion would be installed the header of the frame
- No finish plate supplied
- If inverted, finish plate should be ordered and priced separately
- Oil-impregnated sintered bronze bushing
- Completely concealed when door is closed
- Furnished with wood and machine screws
- For lighter weight doors use 320 x 102
- Available in plated finishes

Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm) up to 3/4" (19mm)

How to Order

Specify Model, and Finish.

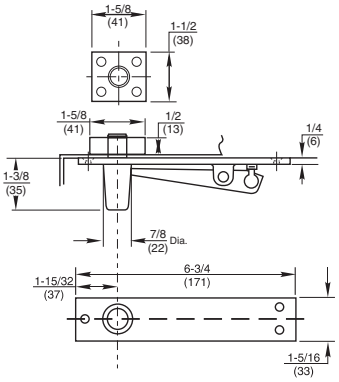
340x102
MODEL

If applicable, specify longer pivot pin (lengths below)
LONGER PIVOT PIN
1/4"
1/2"
3/4"

606
FINISH
See page 70

Technical Information





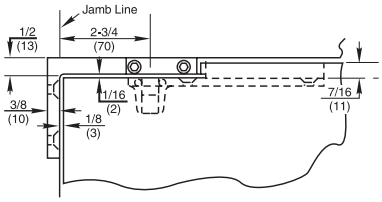
MODEL 340 X AP3

Description & Features

- Surface mounted
- Handed doors up to 3'6" (1067mm) wide
- Used where no frame exists above door, or where it is not possible to anchor pivot into header of frame
- Center hung applications only
- Furnished with 340 door portion
- Part is handed to keep installation plate to inside of room or building
- Furnished with wood and machine screws
- Available in plated finishes



Technical Information



How to Order

Specify Model, and Finish.

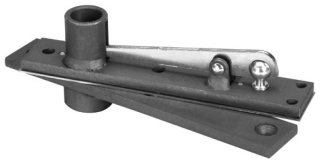
340xAP3 — MODEL

622 — FINISH
See page 70

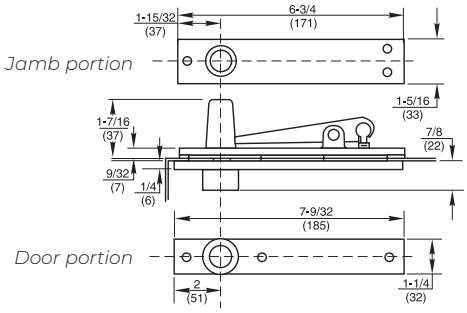
MODEL H340

Description & Features

- Fully concealed
- Heavy-duty
- Non-handed
- Standard top pivot for model H117-3/4 pivot set. Also used for H28 and H40 Series floor closers
- Can be used with any floor closer or pivot set with pivot point 2-3/4" (70mm), or greater, from edge of the door
- Walking beam-type pivot – 11/16" (17mm) diameter pivot pin with 3/4" (19mm) engagement
- Heavy-duty needle bearing
- Completely concealed when door is closed
- Furnished with wood and machine screws
- Available in plated finishes



Technical Information



Optional Features

- Available with longer than standard pivot pins. Increments are 1/4" (6mm), 1/2" (13mm), 3/4" (19mm) only

How to Order

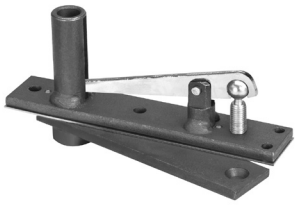
Specify Model, and Finish.

H340
MODEL

If applicable, specify longer pivot pin (lengths below)
LONGER PIVOT PIN
1/4"
1/2"
3/4"

626
FINISH
See page 70

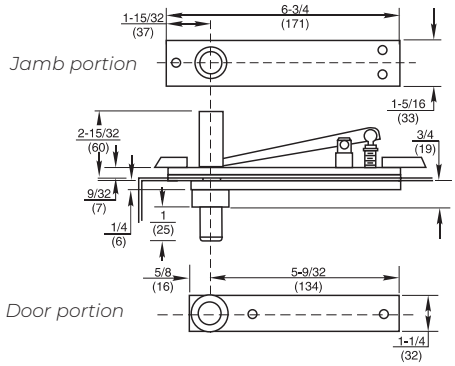
MODEL 345



Description & Features

- Fully concealed
- Center hung
- Non-handed
- Earthquake tolerant
- Optional top pivot for taller doors
- Ideal for locations where there is a fear of dramatic building settling or for doors over 8'6" (2491mm) in height
- Long pivot pin engages in top of door 1-3/4" (44mm)
- Can be used with any center hung bottom pivot or floor closer whose pivot point is 2" (50mm), or greater, from the edge of the door.
- Walking beam-type pivot –1/2" (13mm) diameter pivot pin
- Oil-impregnated sintered bronze bushing
- Completely concealed when door is closed
- Furnished with wood and machine screws
- Available in plated finishes

Technical Information



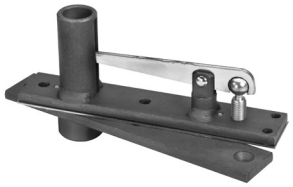
How to Order

Specify Model, and Finish.

345 — MODEL

622 — FINISH
See page 70

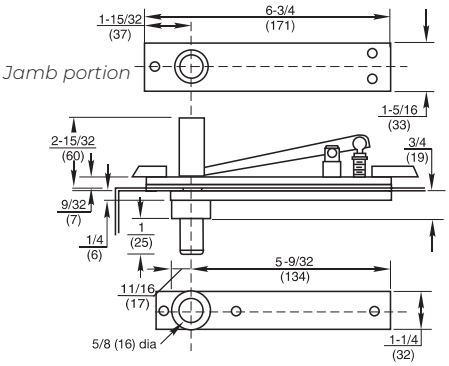
MODEL H345



Description & Features

- Fully concealed
- Center hung
- Non-handed
- Earthquake tolerant
- Taller doors
- Ideal for locations where there is a fear of dramatic building settling or for doors over 8'6" (2591mm) in height
- Long pivot pin engages in top of door 1-3/4"(44mm)
- Can be used with any center hung bottom pivot or floor closer whose pivot point is 2-3/4" (70mm), or greater, from the edge of the door. Order pivot set or floor closer LTP (less top pivot) with H345 on separate line item
- Walking beam-type pivot – 11/16" (17mm) diameter pivot pin
- Heavy-duty needle bearing
- Completely concealed when door is closed
- Furnished with wood and machine screws
- Available in plated finishes

Technical Information



Door portion

How to Order

Specify Model, and Finish.

H345
MODEL

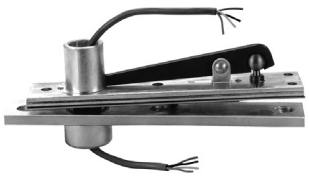
626
FINISH
See page 70

ELECTRIFIED CENTER HUNG TOP PIVOTS

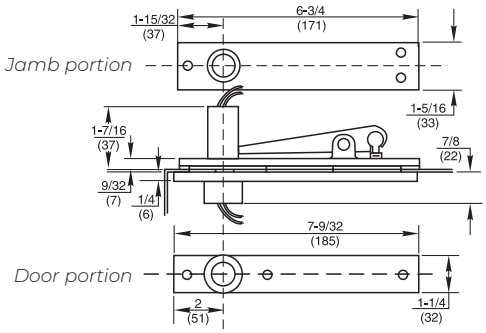
MODEL E-H340

Description & Features

- Center hung
- Top pivot for power transfer
- Non-handed
- Walking beam type pivot –11/16" (17mm) diameter pivot pin with 3/4" (19mm) engagement
- Can be used with any center hung bottom pivot or floor closer. Order the pivot set LTP (less top pivot) with E-H340 as a separate line.
- Heavy-duty needle bearing
- Specify two, four, six, eight or twelve wires
- Two-wire is available in 18 gauge and is not available ElectroLynx®
- Four, six, eight and twelve wires are 24 gauge and available in ElectroLynx®. Suffix QC x number of wires.
- Completely concealed when door is closed
- Furnished with wood and machine screws
- Available in plated finishes



Technical Information



How to Order

Specify Model, Wires, and Finish.

EH340
MODEL

No. of wires must be specified
WIRES
2 (18-gauge)
4 (24-gauge)
6 (24-gauge)
8 (24-gauge)
12 (24-gauge)

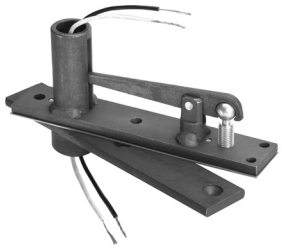
626
FINISH
See page 70

Experience a safer and more open world

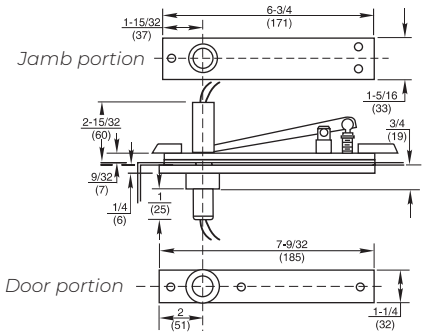
MODEL E-H345

Description & Features

- Fully concealed
- Center hung
- Top pivot for power transfer
- Non-handed
- Earthquake tolerant
- Taller doors
- Walking beam-type pivot – 11/16" (17mm) diameter pivot pin
- Longer pivot pin throw engages in top of door 1-3/4" (44mm). Ideal for locations where there is a fear of dramatic building settling
- Can be used with any center hung bottom pivot or floor closer whose pivot point is 2-3/4" (70mm), or greater, from the edge of the door. Order the pivot set LTP (less top pivot) with E-H345 as a separate line
- Used with heavy-duty pivots & floor closers
- Heavy-duty needle bearing
- For doors over 8'6" in height
- Specify two, four, six, eight or twelve wires
- Two-wire is available in 18 gauge and is not available with ElectroLynx®
- Four, six, eight and twelve wires are 24 gauge and available in ElectroLynx®. Suffix QC# (number of wires)
- Furnished with wood and machine screws
- Available in plated finishes



Technical Information



How to Order

Specify Model, Wires, and Finish.

EH345
MODEL

No. of wires must be specified
WIRES
2 (18-gauge)
4 (24-gauge)
6 (24-gauge)
8 (24-gauge)
12 (24-gauge)

626
FINISH
See page 70

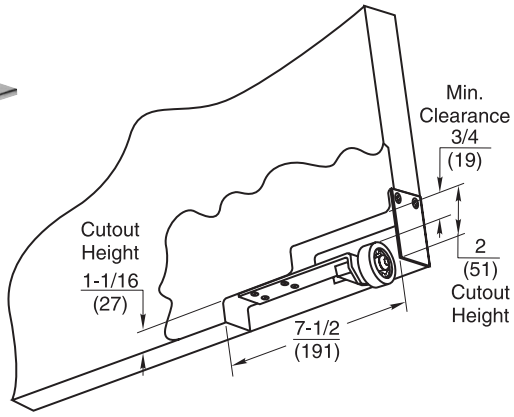
10600, 10602 CASTERS

Application

- Casters are required for all doors over 5' wide that are pivoted near the heel edge of the door
- For doors weighing up to 730 lbs., specify model 10600 (single roller)
- For doors weighing up to 1500 lbs., specify model 10602 (double roller)
- Metal doors minimum1-3/4" thickness
- Wood doors minimum 2-1/4" thickness
- Three 1/16" shim plates included for adjustment after door is installed
- Optional end cap to finish off edge of door 10600-019
- Hollow metal mounting plate available
- For low frequency usage
- For interior door installations
- For pivot doors only
- Patented



Technical Information



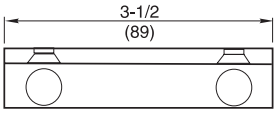
60131 LOCK EDGE APPLIED STOP

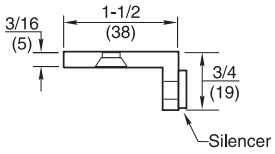
Application

For center hung doors with single acting closers. Mount to underside of frame head at the lock edge to keep doors from resting past center.



Technical Information





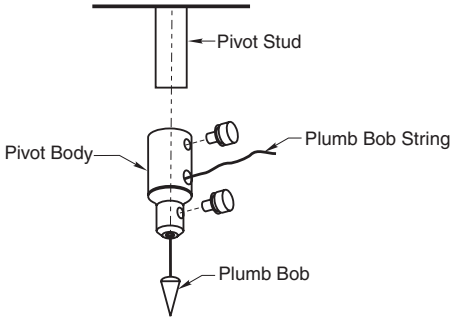
2604/2608 ALIGNMENT TOOLS

Application

- Reuseable tool ensures proper alignment of top and bottom pivot or closer
- May be used for offset or center hung installations
- Plumb line and bob not included
- Can be reused for future/additional installations
- Specify 2604 for use with the 180 offset and 340 center hung top pivots
- Specify 2608 for use with the H340 and H345 heavy-duty, center hung top pivots



Technical Information



PARTS DRAWINGS
PIVOTS AND PIVOT SETS

MODEL 173 PIVOT SET

(A) Pivot pin assembly
181770-ASY

(B) Hex cap
181778-*

(C) 180 top pivot

(D) Arm cap and screw
12029-*AS

(E) 3/4" offset arm LH
11706L*AS

(E) 3/4" offset arm RH
11705R*AS

(F) Spindle stud
173003

(G) Spindle collar
173001

(H) Mounting bolt
173002

(J) Floor anchor
173010

173 x 1-1/2" Offset

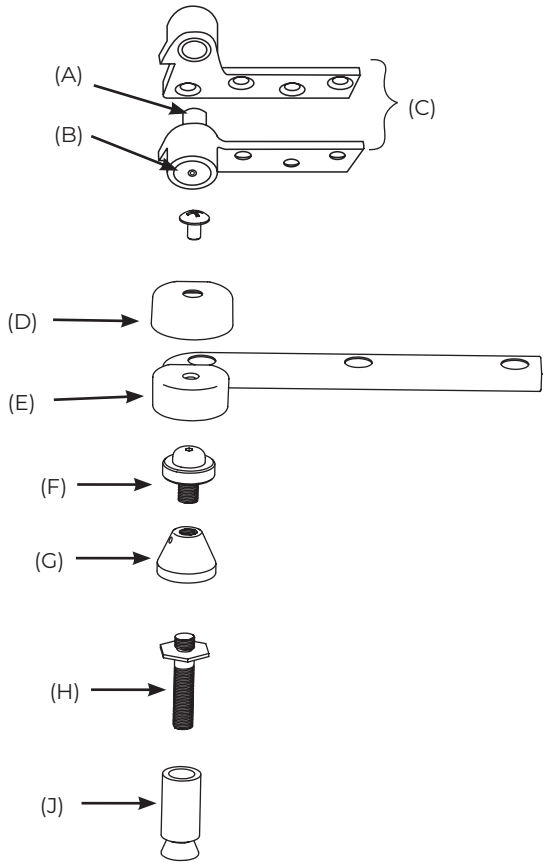
(E) 1-1/2" offset arm LH
11706L15*

(E) 1-1/2" offset arm RH
11705R15*

Screw Kits

180
107014 - * machine (2 req.)
107114 - * wood (2 req.)

Bottom arm
107044 (machine)
107144 (wood)



MODEL 117-1/4 PIVOT SET

Right Hand Shown

3/4" Offset Only

(A) Pivot pin assembly
181770-ASY

(B) Hex cap
181778-*

(C) 180 top pivot

(D) Arm cap and screw
12029-*AS

(E) Arm LH
11706LASY

(E) Arm RH
11705RASY

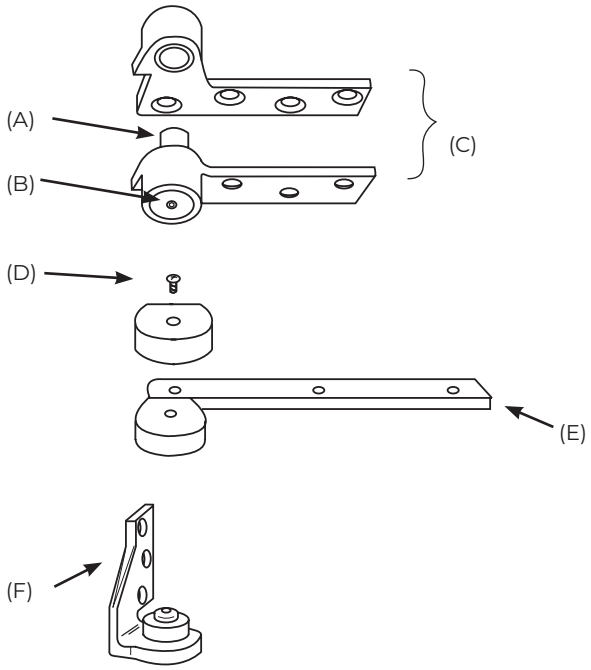
(F) Floor portion assy RH
17406R*AS

(F) Floor portion assy LH
17406L*AS

Screw Kits

180
107014 - * machine (2 req.)
107114 - * wood (2 req.)

117-1/4
117127 - *



*specify finish

MODEL 117, F117 PIVOT SET

Right Hand Shown

3/4" and 1-1/2" Offset

(A) Pivot pin assembly
181770-ASY

(B) Hex cap
181778-*

(C) 3/4" offset top pivot assembly
180 (standard)
F180 (Fire rated)
180-20 (20 minutes)

(D) Arm cap and screw
12029-*AS

(E) 3/4" offset arm LH
11706LASY

(E) 3/4" offset arm RH
11705RASY

(F) 117 floor portion assy
17526-*AS

F117 floor portion assy
17559-*AS

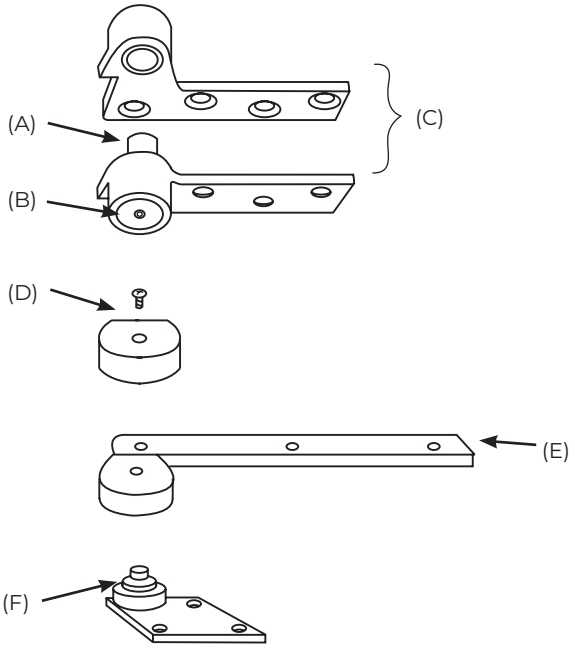
117 x 1-1/2 OS

(E) 1-1/2" offset arm LH
11706L15*

(E) 1-1/2" offset arm RH
11705R15*

Screw Kits
180
107014 - * machine (2 req.)
107114 - * wood (2 req.)

Bottom pivot
117127 -*



MODEL 195 PIVOT SET

Right Hand Shown

3/4" Offset

(A) Pivot pin assembly
181770-ASY

(B) Hex cap
181778-*

(C) 3/4" offset top pivot assembly
180 (standard)
F180 (fire rated)

(D) Door portion assy RH
19503-*AS

(D) Door portion assy LH
19504-*AS

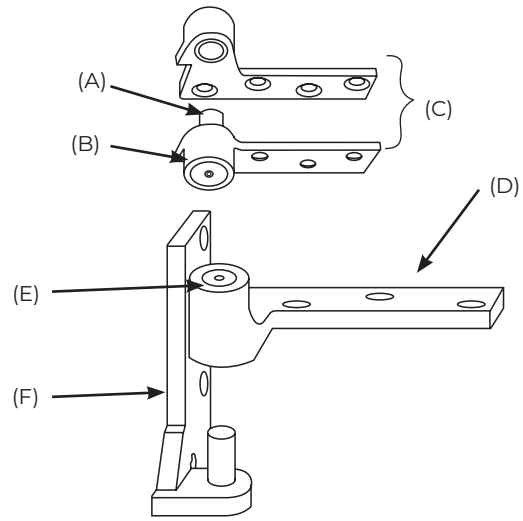
(E) Cap
19511-*

(F) Jamb portion assy RH
(includes stud)
19501-*AS

(F) Jamb portion assy LH
(includes stud)
19502-*AS

Screw Kits
180
107014 - * Machine (2 req.)
107114 - * Wood (2 req.)

195
107014 - * Machine (2 req.)
107114 - * Wood (2 req.)



MODEL 547/F547 PIVOT SET

Right Hand Shown

3/4" Offset Only

(A) M190 intermediate pivot (for fire-rated doors order FM190)

(B) Arm cap & screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)

(C) Arm x locking screw
275177 RH
275176 LH

(D) Arm x locking screw pkg (5 per)
88905-PKG

(E) Arm shim kit (2 per)
107071

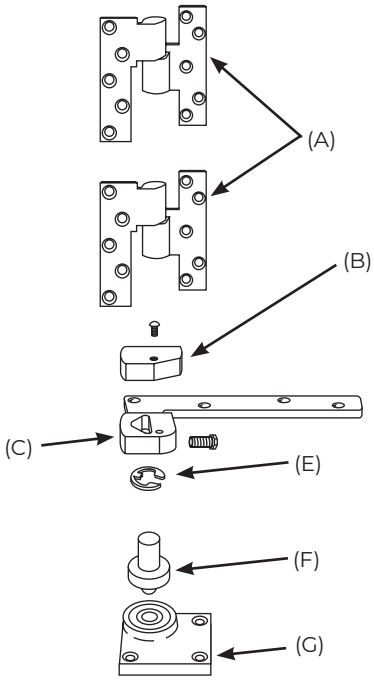
(F) Spindle stud
14714

(G) 147 floor portion x bearing
14721-*AS

Screw Kits

Bottom pivot
107062*

**specify finish*



MODEL 147, F147 PIVOT SET

Right Hand Shown

3/4" and 1-1/2" Offset

(A) Pivot pin assembly
181770-ASY

(B) Hex cap
181778-*

(C) 3/4" offset top pivot assembly
180 (standard)
F180 (fire rated)
180-20 (20 minutes)

(D) Arm cap & screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)

(E) Arm x locking screw
3/4" Offset
275177 RH

3/4" Offset
275176 LH

(F) Arm lock screw pkg (5 per)
88905-PKG

(G) Arm shims (2 per)
107071

(H) Spindle stud
14714

(I) 147/F147 floor portion x bearing
14721-*AS

147 & F147 1-1/2 OS

(E) Arm x locking screw 1-1/2" offset
275167-*

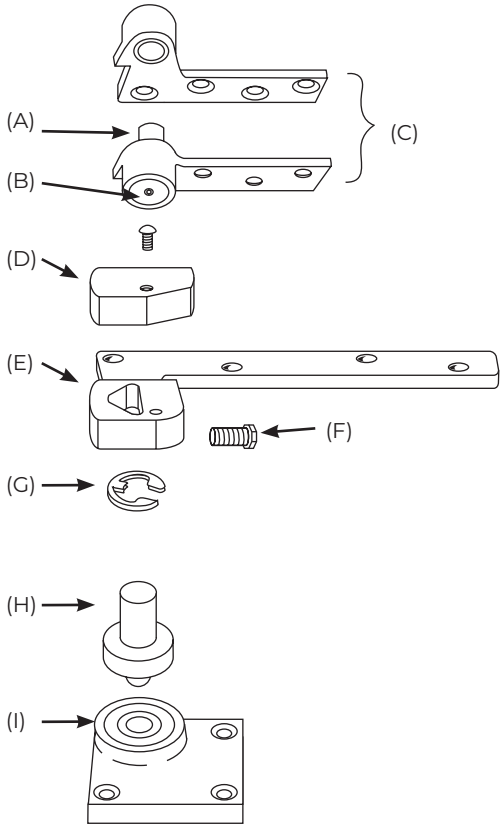
Screw Kits

180/F180
107014-* machine (2 req)
107114-* wood (2 req)

Arm
107044 machine
107144 wood

147/F147 bottom pivot
107062-* (includes 107071)

specify finish



MODEL 117-1/2, F117-1/2 PIVOT SET

Right Hand Shown

3/4" and 1-1/2" Offset

(A) Pivot pin assembly
181770-ASY

(B) Hex cap
181778-*

(C) 3/4" offset top pivot assembly
180 (standard)
F180 (fire rated)
180-20 (20 minutes)

(D) Arm cap & screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)

(E) Arm x locking screw
3/4" offset
275177 RH

3/4" offset
275176 LH

(F) Arm lock screw pkg (5 per)
88905-PKG

(G) Arm shim kit (5 per)
275065-PKG

(H) Spindle shoulder collar
16301*

(I) Floor plate x screws
1174050-*

(J) 117-1/2 & F117-1/2 Floor Portion Assembly
X01176350

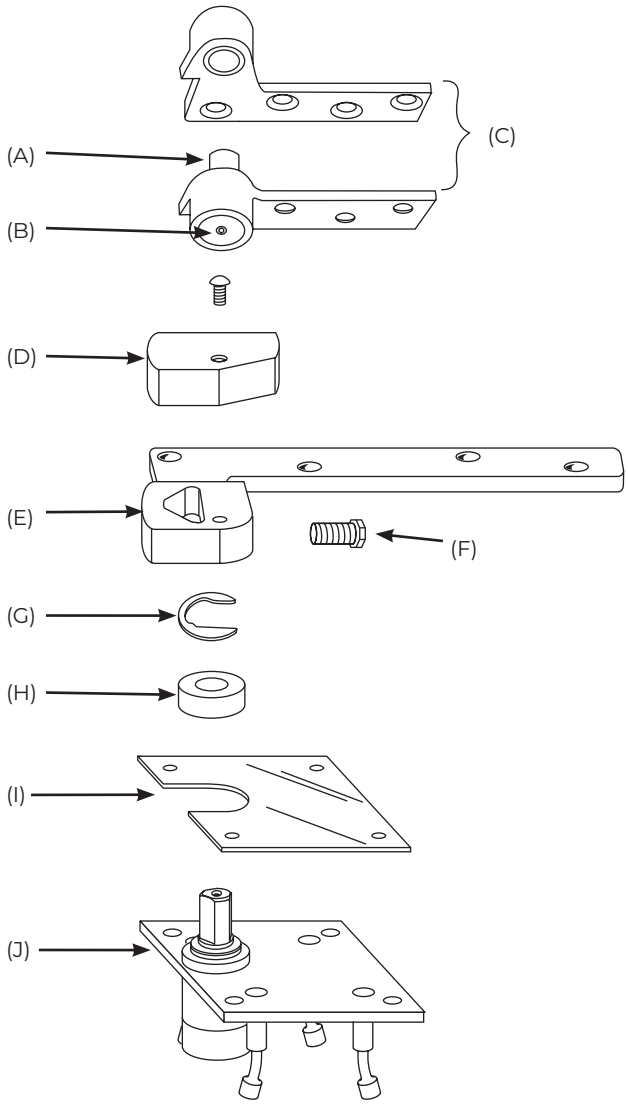
1-1/2" offset arm
275167-*

Screw Kits

180/F180
107014-* machine (2 req)
107114-* wood (2 req)

Arm
107044-* machine
107144-* wood

Floor Plate
107004-*



*specify finish

MODEL L147, FL147 PIVOT SET

Right Hand Shown

3/4" Offset Only

(A) Pivot pin assembly
181770-ASY

(B) Hex cap
181778-*

(C) 3/4" offset top pivot assembly
L180 (standard)
FL180 (Fire Rated)
L180-20 (20 minutes)

(D) Arm cap & screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)

(E) Arm x locking screw
1-3/4" door
18550-Asy RH
18650-Asy LH

(E) Arm x locking screw
2" door
18551-Asy RH
18651-Asy LH

(E) Arm x locking screw
2-1/4" door
18552-Asy RH
18652-Asy LH

(E) Arm x locking screw
2-1/2" door
18553-Asy RH
18653-Asy LH

(E) Arm x locking screw
3" door
18554-Asy RH
18654-Asy LH

(F) Arm lock screw pkg (5 per)
88905-PKG

(G) Arm shims (2 per)
107071

(H) Spindle stud
14714

(I) L147 floor portion x bearing
14721-*AS

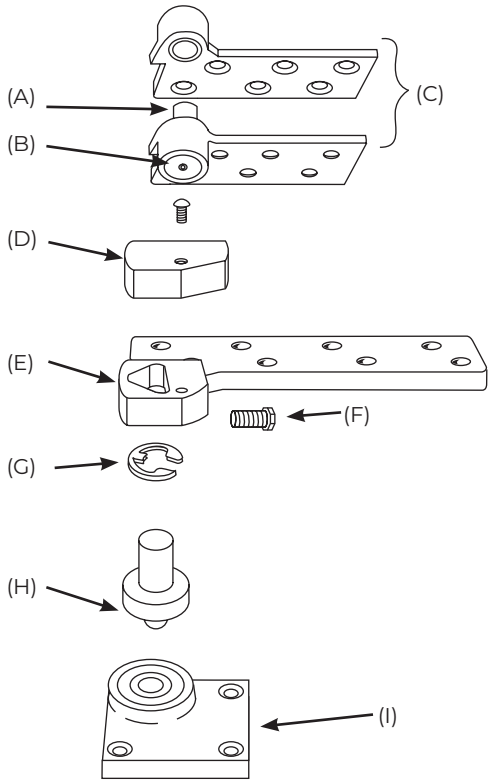
Screw Kits

180/F180
107016-* machine (2 req)
107116-* wood (2 req)

Arm
107048-* machine (2 req)
107144-* wood (2 req)

L147/F147 bottom pivot
107062-* (includes 107071)

Special Note: FL147 is available for 1-3/4" doors only



*specify finish

MODEL L117, FL117 PIVOT SET

Right Hand Shown

3/4" Offset Only

(A) Pivot pin assembly
181770-ASY

(B) Hex cap
181778-*

(C) 3/4" offset top pivot assembly
L180 (standard)
FL180 (rire rated)
L180-20 (20 minutes)

(D) Arm cap & screw
012142R*AS (RH, BRS)
012142L*AS (LH, BRS)
012144R*AS (RH, SS)
012144L*AS (LH, SS)

(E) Arm x locking screw
1-3/4" door
18550-ASY RH
18650-ASY LH

(E) Arm x locking screw
2" door
18551-ASY RH
18651-ASY LH

(E) Arm x locking screw
2-1/4" door
18552-ASY RH
18652-ASY LH

(E) Arm x locking screw
2-1/2" door
18553-ASY RH
18653-ASY LH

(E) Arm x locking screw
3" door
18554-ASY RH
18654-ASY LH

(F) Arm lock screw pkg (5 per)
88905-PKG

(G) Arm shim kit (5 per)
275065-PKG

(H) Spindle shoulder collar
259500-*

(I) Heavy-duty thrust-bearing
41204-PKG

(J) Floor plate x screws
1174050-*

(K) Floor portion assembly
(includes 41204-PKG)
X01176351

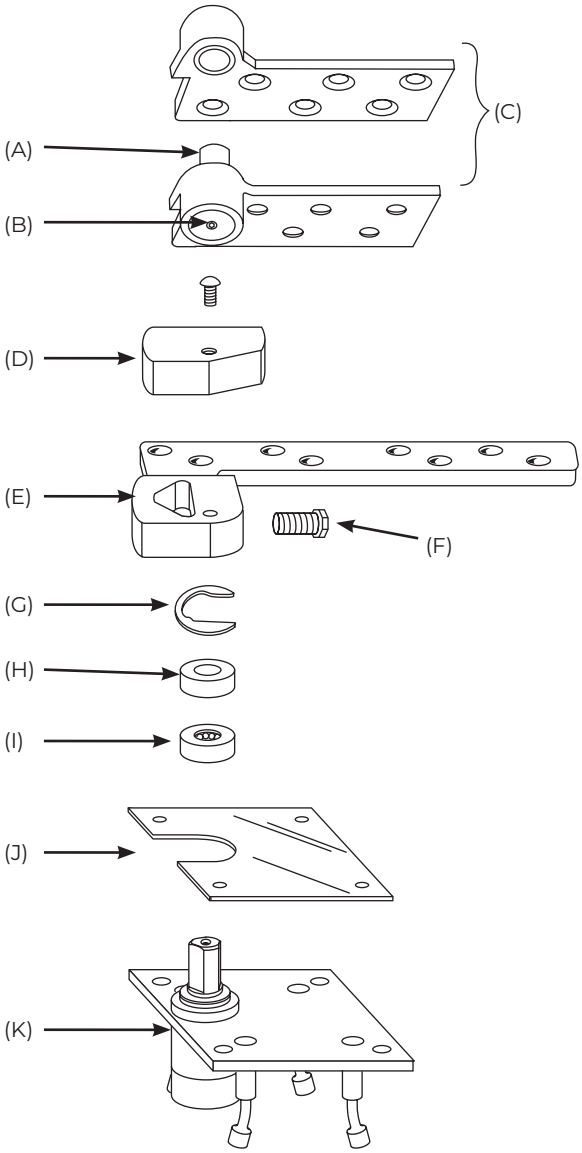
Screw Kits

L180/FL180
107016-* machine (2 req)
107116-* wood (2 req)

Arm
107048-* machine
107114-* wood

Floor Plate
107004-* machine (2 req)

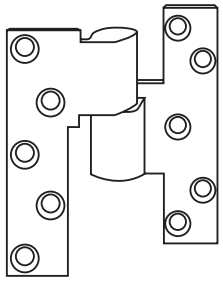
Special note: FL117 is available for 1-3/4" doors only



*specify finish

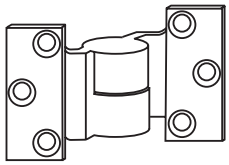
M19, M190, ML19, FA19, 219, 319, FM19, FM190, ALL ELECTRIFIED M19 INTERMEDIATE PIVOTS

Model	Description
107015-*	Metal screws for one leaf
107115-*	Wood screws for one leaf
181778-*	Hex cap
219, 319 and 419 Also Use:	
107059-*	Includes screws and backplate
	Torx® available - suffix “T”



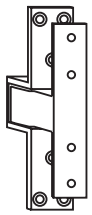
MODEL 119 INTERMEDIATE PIVOT

Model	Description
107014-*	Metal screws for one leaf
107114-*	Wood screws for one leaf
	Torx® available - suffix “T”



MODEL F519 POCKET PIVOT

Model	Description
619005-*	Screw kit
	Torx® available



**specify finish*

MODEL 176 PIVOT SETS

(A) Top pivot jamb portion
640-ASY

(B) Top pivot plate x screws
12724-*PK (SS)
12720-*PK (BRS)

(C) Top pivot door portion
12716

(E) Bottom arm
12704

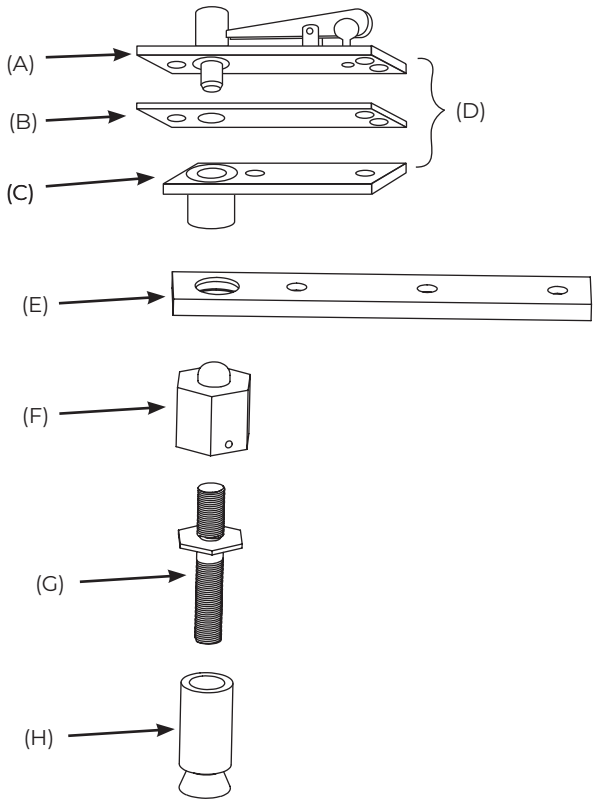
(F) Adj bearing spindle
176001

(G) Mounting bolt
176002

(H) Cement anchor
173010

Screw Kits
320
107340 machine & wood

Arm
173176 machine & wood



MODEL 178 PIVOT SETS

(A) Top jamb portion
42801

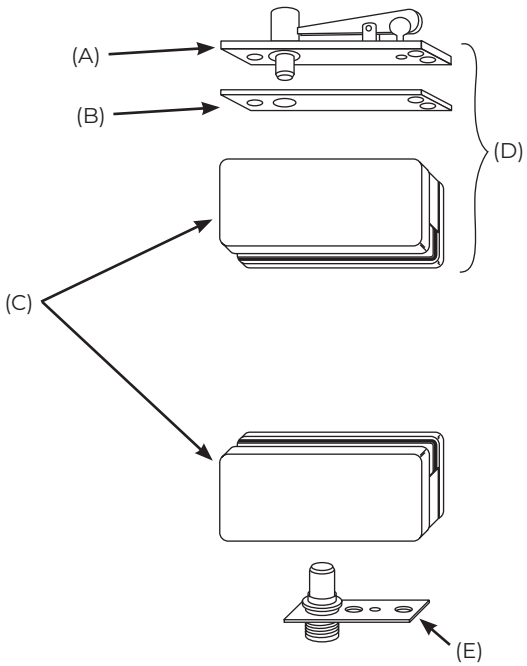
(B) Finish plate
012202-*PK (BRS)
012204-*PK (SS)

(C) Patch fitting
7495-*

(D) Top patch
7494-* PK

(E) Bottom pivot floor portion
74104

Screw Kit
Top pivot
107329



**specify finish*

MODEL 127-3/4 & 128-3/4 PIVOT SETS

(A) Top pivot jamb portion
640-ASY

(B) Top pivot plate x screws
12724-*PK (SS)
12720-*PK (BRS)

(C) Top pivot door portion
12716

(D) 320 top pivot

(E) Jamb portion & stud assembly (127-3/4 only)
12711-*

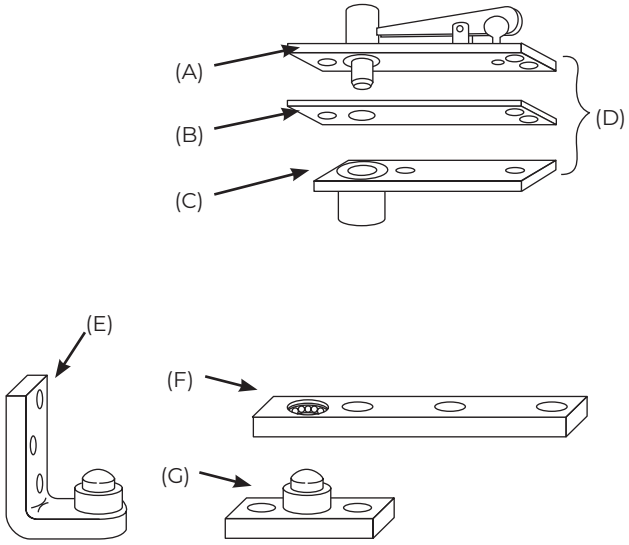
(F) Arm & bearing assembly
12714

(G) Floor pivot & stud assembly (128-3/4 only)
71521-*AS

Screw Kits

320
107340 machine & wood

127-3/4, 128-3/4
117127-*



*specify finish

MODEL 370 PIVOT SET

(A) Top pivot jamb portion
3065

(B) Finish plate x screws
012202-*PK (BRS)
012204-*PK (SS)

(C) Top pivot door portion
30243

(D) 340 top pivot

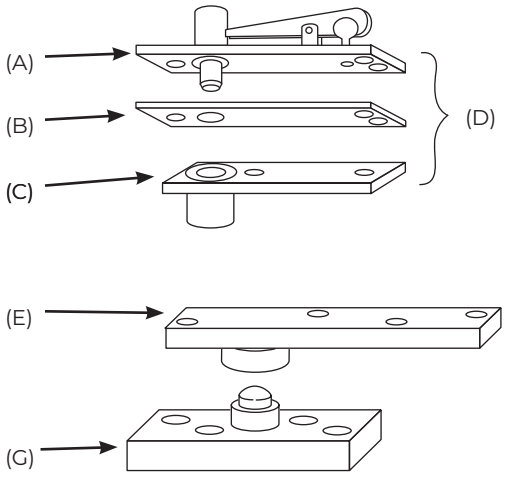
(E) Arm
22131

(G) Floor portion and stud
22121-*

Screw Kits

340
107329 machine & wood

370 floor portion
107370-*



MODEL 117-3/4 PIVOT SET

(A) Top pivot jamb portion
3065

(B) Top pivot finish plate
012202-*PK (BRS)
012204-*PK (SS)

(C) Top pivot door portion
30243

(D) 340 top pivot

(E) Arm
185.75

(F) Spindle collar
16301*

(G) Floor plate x screws
1174020-*

(H) Floor portion assembly
X01176320

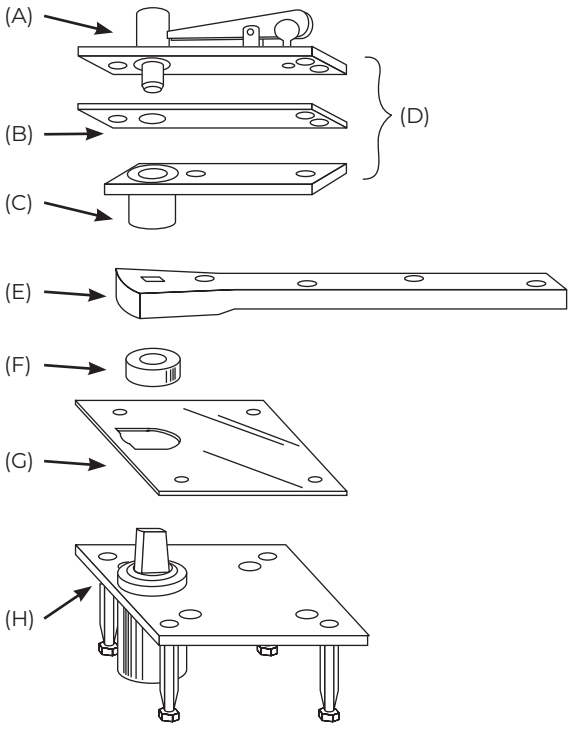
Screw Kits

340
107329 machine & wood

Arm
107064

Floor plate
107004-* machine & wood

**specify finish*



MODEL H117-3/4 PIVOT SET

(A) Top pivot jamb portion
308548

(B) Top pivot finish plate
012202-*PK (BRS)
012204-*PK (SS)

(C) Top pivot door portion
30141

(D) 340 top pivot

(E) Standard end load arm package
262022

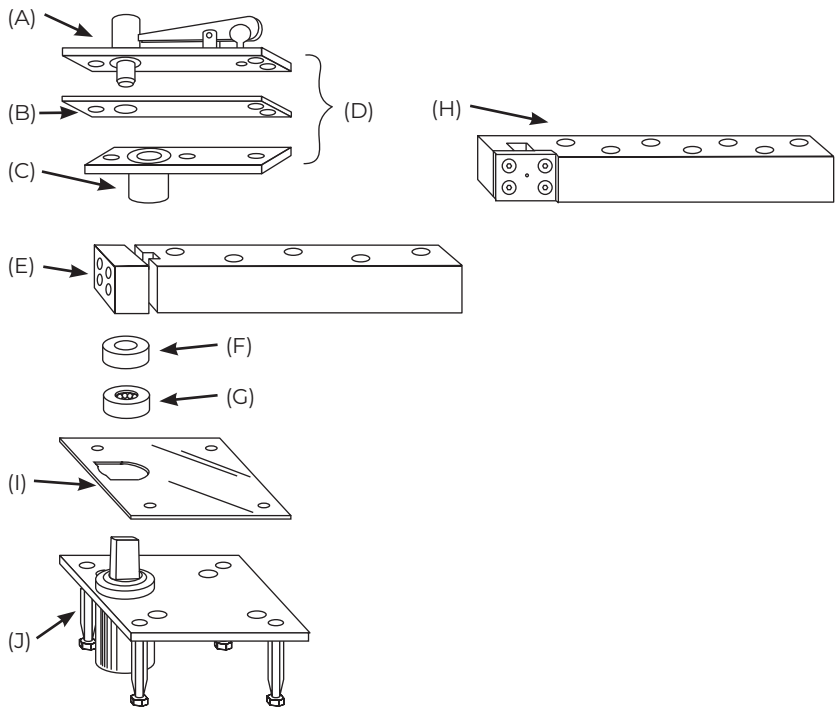
(F) Spindle shoulder collar
259500-*

(G) Heavy-duty thrust bearing
41204-PKG

(H) 587 side load arm package
262587

(I) Floor plate x screws
1174020-*

(J) Floor portion assembly X01176322
includes 41204-PKG



Screw Kits

H340
107329 machine & wood

Arm
107045 machine
107145 wood

587 arm
107077 machine
107177 wood

Floor plate
107004-*

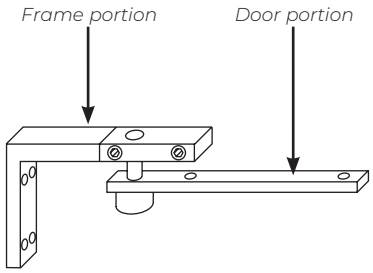
Arm shim
107060

**specify finish*

ANGLE PIVOT-3

Model	Description
107047*	AP3 screw kit
30243	Door portion
30814**	Frame portion (handed)

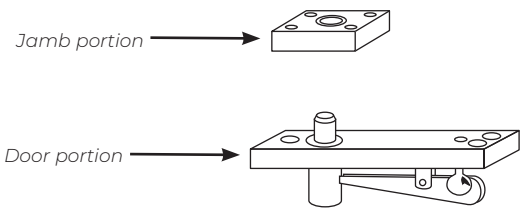
Torx® not available.



TOP PIVOT 340 X 102 OR 320 X 102

Model	Description
10210-*AS	Jamb portion
3065	Door portion
640-ASY	Door portion (320 x 102)
107012*	Jamb portion screw kit
107329	Door portion screw kit

Torx® not available.



**specify finish*

ANSI/BHMA (US)	Base Material	Description
605 (US3)	Brass	Bright brass, clear coated
606 (US4)	Brass	Satin brass, clear coated
611 (US9)	Brass	Bright bronze, clear coated
612 (US10)	Brass	Satin bronze, clear coated
613 (US10B)	Brass	Antique bronze
618 (US14)	Brass	Bright nickel plated, clear coated
619 (US15)	Brass	Satin nickel plated, clear coated
622 (US19)	Brass	Flat black coated
625 (US26)	Brass	Bright chromium plated over nickel
626 (US26D)	Brass	Satin chromium plated over nickel
629	Stainless Steel (300 series SS base)	Bright stainless steel
630	Stainless Steel (300 series SS base)	Satin stainless steel
631 (US19)	Steel	Flat black coated
632 (US3)	Steel	Bright brass plated, clear coated
633 (US4)	Steel	Satin brass plated, clear coated
637 (US9)	Steel	Bright bronze plated, clear coated
639 (US10)	Steel	Satin bronze plated, clear coated
640 (US10B)	Steel	Antique bronze
645 (US14)	Steel	Bright nickel plated, clear coated
646 (US15)	Steel	Satin nickel plated, clear coated
651 (US26)	Steel	Bright chromium plated over nickel
652 (US26D)	Steel	Satin chromium plated over nickel
653	Stainless Steel (400 series SS base)	Bright stainless steel
654	Stainless Steel (400 series SS base)	Satin stainless steel
613E (US10BE)	Any	Dark oxidized satin bronze - equiv.
689 (US28)	Any	Aluminum, painted
690 (US20)	Any	Dark bronze, painted
691 (US10)	Any	Light bronze, painted
693	Any	Black, painted
696 (US4)	Any	Gold, painted
BSP	Any	Black suede powder coat
WSP	Any	White suede powder coat

OFFSET HUNG PIVOT SETS

	173	117-1/4	117	165	195	547	147	117-1/2	L147	L117
Application	Standard	Standard	Standard	For doors without bottom pivots	Standard	Arch top doors or overhead concealed closers	Standard	Standard	Lead lined, heavy or high traffic doors	Lead lined, heavy or high traffic doors
3/4" offset standard	•	•	•	•	•	•	•	•	•	•
1-1/2" offset optional[1]	•		•				•	•		
Handed	•	•	•	•	•	•	•	•	•	•
Exterior door				•	•	•	•	•	•	•
Interior door	•	•	•	•	•	•	•	•	•	•
Door weight	150 lbs.	250 lbs.	300 lbs.	300 lbs.	450 lbs.	500 lbs.	600 lbs.	650 lbs.	800 lbs.	1750 lbs.
Maximum door swing[2]	180°	180°	180°	180°	180°	180°	180°	180°	180°	180°
Maximum Door width	36"	42"	42"	42"	48"	42"	48"	48"	48"	48"
1-3/4" Standard door thickness	•	•	•	•	•	•	•	•	•	•
Optional door thicknesses available[3]									•	•
Standard top pivot (included)	180	180	180	H180	180	N/A	180	180	L180	L180
Intermediate pivot (sold separately)	119	119	119	(2) M190's included	119 or M19	(2) M190's included	M19	M19	ML19	ML19
Bottom pivot mounting	Mounts directly to concrete floor	Mortised into side jamb	Mortised into floor	N/A	Mortised into side jamb	Mounts directly to floor	Mounts directly to floor	Mortised into floor	Mounts directly to floor	Mortised into floor
Extended spindles available[4]		•	•		•	•	•	•	•	•
Optional Features			F, -20		F	F, -20	F, -20	F, -20	F, -20	F, -20
Furnished with wood and machine screws		•	•	•	•	•	•	•	•	•

1 Door weight is less when 1-1/2" offset is ordered
2 Trim permitting
3 Can accommodate the following door thicknesses: 2", 2-1/4", 2-1/2" or 3". Specify when ordering
4 1/2" increments up to 2"

Options	Designation
Fire rated	F
20 minute label	-20

INTERMEDIATE PIVOTS

	119	219	319	419	FA19	M19	M190	ML19
Application	Standard	Flush door and frame applications	Flush door and frame applications	Flush door and frame applications	Behavioral health or high security	Standard	Use when frame conditions do not allow standard top pivot	Lead-lined, heavy or high traffic
3/4" offset standard	•	•	•	•	•	•	•	•
1-1/2" offset optional						•	•	
Handed	•	•	•	•	•	•	•	•
Standard door thickness	1-3/4"	1-3/4" only	1-3/4"	1-3/4" only	1-3/4"	1-3/4"	1-3/4"	1-3/4"
Optional door thicknesses available[1]								•
Mounting	Full mortise	Half surface	Half mortise	Full surface	Full mortise	Full mortise	Heavy-duty Full mortise	Full mortise
Maintains door alignment	•	•	•	•	•	•	•	•
Load bearing							Lateral load bearing	•
Heavy-duty needle bearing							•	
Optional Features		-20	-20	-20	F is standard	F, -20	F, -20	F, -20
Furnished with wood and machine screws	.	.	.	.	.	.	.	.

1 Can accommodate the following door thicknesses: 2", 2-1/4", 2-1/2" or 3". Specify when ordering.

Options	Designation
Fire rated	F
20 minute label	-20

ELECTRIFIED INTERMEDIATE PIVOTS

	E-M19[1,3]	E-M19U[2]	E-ML19[1,4]
Application	Electric pivot for power transfer	Electric pivot for power transfer and for electrified panic devices with large inrush current	Electric pivot for power transfer
3/4" offset standard	•	•	•
1-1/2" offset optional	•		
Handed	•	•	•
Standard door thickness	1-3/4"	1-3/4"	1-3/4" only
Available wires	4, 6, 8 or 12 (24 gauge)	2 (18 gauge)	4, 6, 8 or 12 (24 gauge)
Non-load bearing	•	•	•
Options	F, -20, QC		F, -20, QC
Furnished with wood and machine screws	•	•	•

Note: Door and jamb portion are factory assembled and cannot be separated

1 24-gauge wire is rated at 2 amps for low voltage, Class II wiring applications
2 18-gauge wire is rated at 2 amps continuously. UL listed for 24-volt, Class I wiring
3 Always use M19 intermediate pivot to install door
4 Always use ML19 intermediate pivot to install door

Options	Designation
Fire rated	F
20 minute label	-20
ElectroLynx®	QC

CENTER HUNG PIVOT SETS

	176	178	127-3/4	128-3/4	270	370	375	117-3/4	H117-3/4	H117-3/4 x 587 Arm
Application	Standard	Full glass doors	Standard	Standard	Standard	Standard	Standard	Standard	Heavy-Duty	Heavy-Duty
Non-Handed	•	•	•	•	•	•	•	•	•	•
Exterior door					•	•	•	•	•	•
Interior door	•	•	•	•	•	•	•	•	•	•
Door weight	150 lbs.	175 lbs.	200 lbs.	250 lbs.	300 lbs.	500 lbs.	500 lbs.	600 lbs.	1000 lbs.	1000 lbs.
Maximum Door width	36"	36"	42"	42"	44"	44"	44"	48"	48"	48"
Standard door thickness	1-3/8" to 1-3/4"	3/8" – 1/2" glass	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	1-3/4"	2"	1-3/4"
Standard top pivot (included)	320	N/A	320	320	Unique to 270	340	345	340	H340	H340
Bottom pivot mounting	Mounts directly into concrete floor	Mounts directly to floor	Mortised into side jamb	Mounts directly to floor	Mounts directly to floor	Mounts directly to floor	Mounts directly to floor	Mortised into floor	Mortised into floor	Mortised into floor
Extended spindles available[1]			•	•		•	•	•	•	•
Furnished with wood and machine screws	•		•	•	•	•	•	•	•	

1-1/2" increments up to 2"

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44041-02/26

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DISCONTINUED

THRESHOLDS

Finishing Touch for Floor Closer Installations

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Thresholds add the finishing touch to the concealment of floor closers and pivot sets.

When ordering thresholds with floor closers or pivots, the valve holes will be located in the correct locations and a separate section will allow access to the floor closer.

Limited Warranty

Norton Rixson thresholds carry a 2-year warranty for defect. There is no warranty on finish for plated items. See Price Book for specific details of the limited warranty.

Specifications

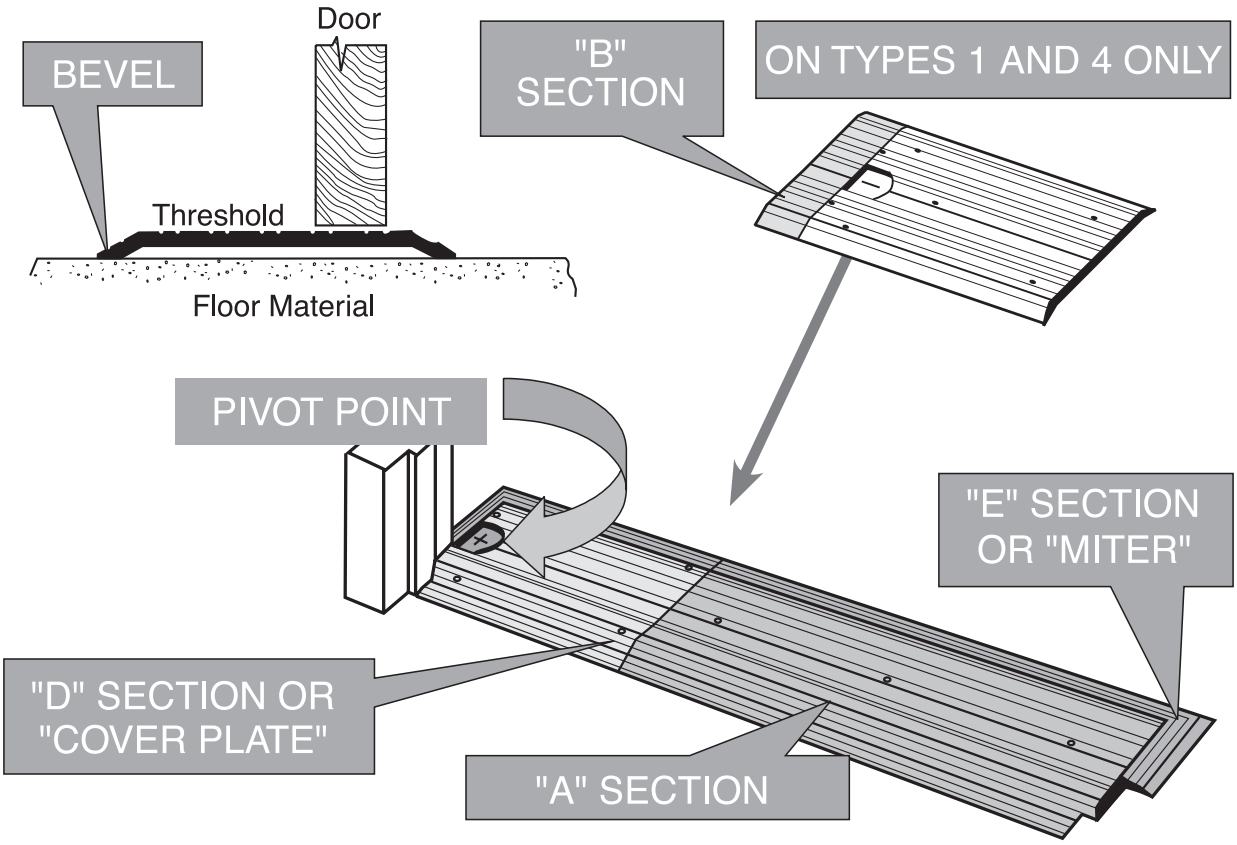
Whenever floor closers are used with thresholds, the threshold must be furnished by the closer manufacturer. This will ensure correct valve locations. All thresholds used with floor closers shall have separate closer cover plate section.

Table of Contents

Limited Warranty 2
Specifications 2
Definition of Terms 3
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Center Hung Models 1 and 4 4
Offset Hung Models 3 and 5 5
Width of Threshold 6
Options 7-9
Finishes 10
How to Order 10

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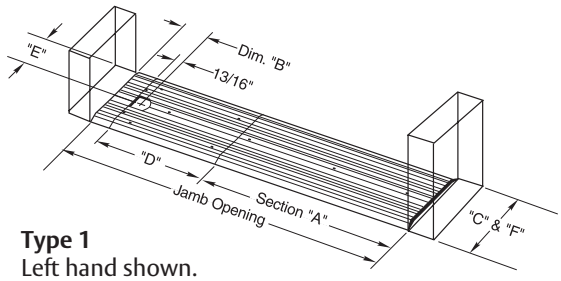
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Type 1

For doors hung in center of frame

- Used with 28, H28, 30, 40, H40 and 50 series floor closers, as well as, 117-3/4 and H117-3/4 pivot sets.
- Straight ends standard
- See individual option listings for availability
- Specify length of threshold (jamb to jamb).

Technical Information



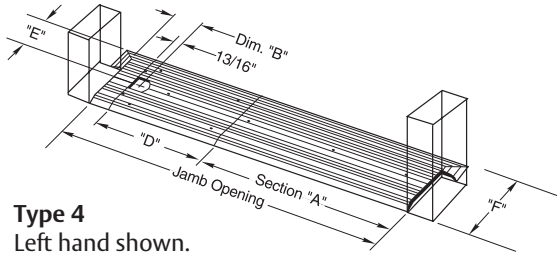
Type 1
Left hand shown.

Type 4

For doors hung flush with the frame

- Used with 28, H28, F327, 30, 40, H40, 50 and F5300 series floor closers, as well as, 117-3/4 and H117-3/4 pivot sets.
- Mitered returns, standard
- See individual option listings for availability
- Specify length of threshold (jamb to jamb).
- When ordering for F327 or F5300 floor closers, specify hanging means

Technical Information



Type 4
Left hand shown.

F is the dimension of the A section.

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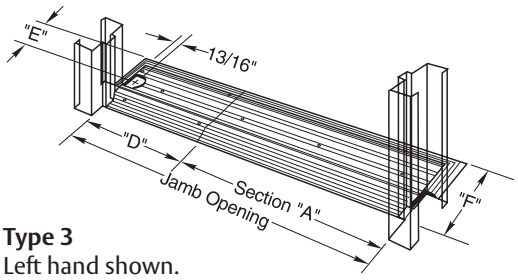
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Type 3

For doors flush with the frame

- Used with 27, L27, 127, QT27, HM27, 51, QT51 and HM51 series floor closers, as well as, 117-1/2 and L117 pivot sets.
- Mitered returns, standard
- See individual option listings for availability
- Specify door thickness
- Specify length of threshold (jamb to jamb).

Technical Information



Type 3
Left hand shown.

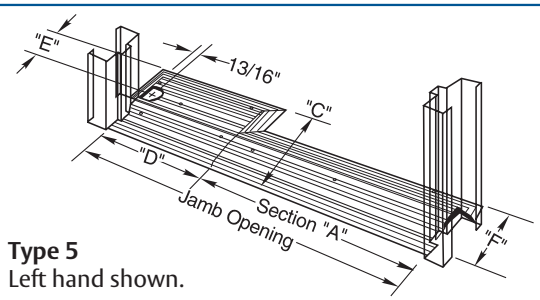
F dimension is the width of the D section

Type 5

Traditional style, for doors flush with the frame. The floor closer cover section is wider than the rest of the threshold.

- Used with 27, L27, 127, QT27, HM27, 51, QT51 and HM51 series floor closers, as well as, 117-1/2 and L117 pivot sets.
- Mitered returns, standard
- See individual option listings for availability
- Specify door thickness
- Specify length of threshold (jamb to jamb).

Technical Information



Type 5
Left hand shown.

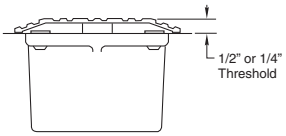
F is the dimension of the A section

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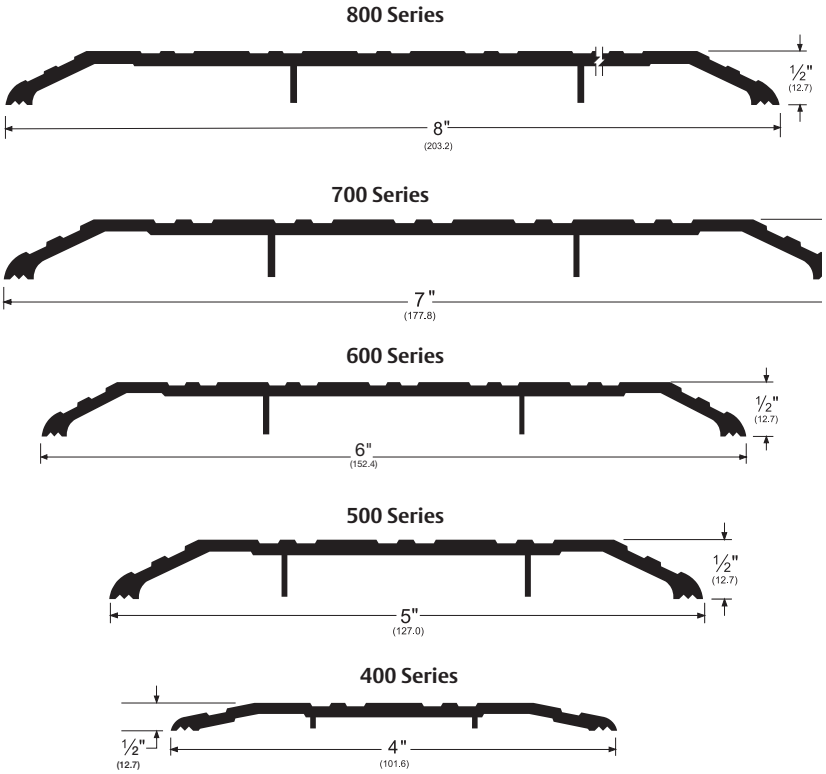
WIDTH OF THRESHOLD

The width of the threshold must be sufficient to completely cover the closer.



all model closers require 700 or 800 widths

Aluminum or Bronze



Extra Wide Thresholds

Special widths are available on request. A center bar support is provided as standard. Detailed dimensions required. Not available with Type 5.



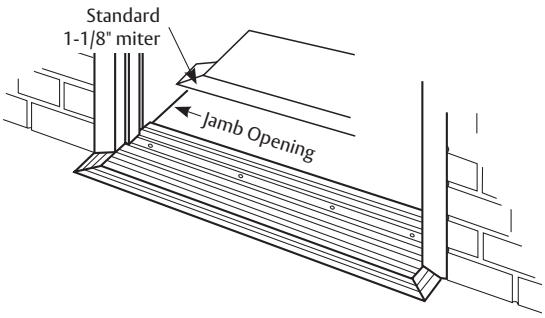
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Return Miters

Furnished on the pull side of the door. The return miter at the spindle side of the doorway is detachable for easy removal of closer plate section. Four corner miters, to enhance finished appearance, are available upon request.

Technical Information

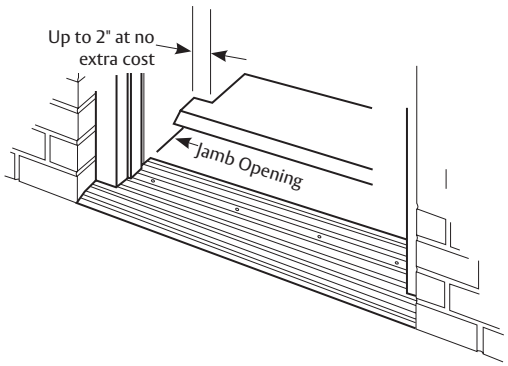


Straight Ends

When the threshold abuts a wall at the ends, straight ends up to 2" can be substituted for mitered returns at no additional cost. Provides a continuous, finished appearance.

Extended straight ends available – specify length.

Technical Information



Bevel Cut Thresholds

Standard width thresholds can be straight rip cut to achieve a flush floor condition. The threshold bevel on the interior side of the door is removed; permits threshold and carpet (or tile) to meet at the same height. A 5/16" bar support (provided) or built-up concrete sill is required. Dimensional details required.

Technical Information



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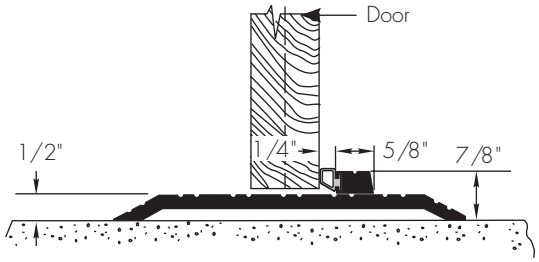
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No. 201 Stop Strip

Stop strips are furnished at extra cost, when specified. On single acting doors, a stop strip is recommended to serve as a weather seal on the push side at the bottom of the door.

For use on thresholds prepared for all floor and overhead concealed single acting closers. Not available PH. On center hung openings, the stop cannot run across the entire door width. For model 800.

Technical Information

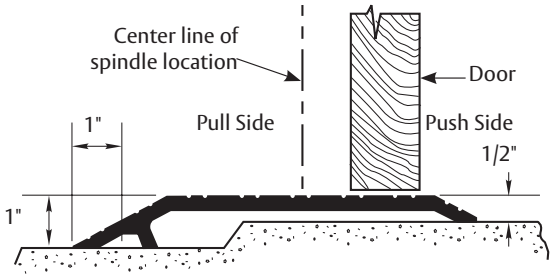


No. 201 Applied Stop Strip

No. 301 Step Down

Designed to accommodate sill conditions where the floor drops 1/2" below sill height. Add 1" to width of threshold. Step down strip may be applied to either push or pull side of thresholds. Not available on Type 5 thresholds. Not available PH.

Technical Information



No. 301 Step Down Strip

No. 501 Step Down

Designed to accommodate sill conditions where the floor drops 1/4" below sill height. Add 1" to width of threshold. Step down strip may be applied to either push or pull side of thresholds. Not available on type 5.

Technical Information

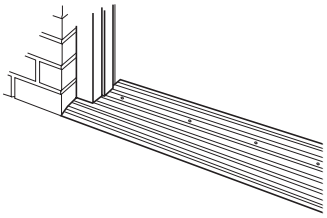


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Thresholds for Overhead and Surface Door Closers

Straight threshold lengths, with or without miters or straight ends, are available for 700 or 800 overhead concealed closers, or any manufacturer's surface and overhead concealed closer. When ordering, state NO CLOSER PREP.



Anchoring

Thresholds are drilled for installation. They are furnished with wood screws and lead anchors as standard. If machine screws and expansion shields are required, specify "MSES."



MSES

Adjusting Valve Fillers

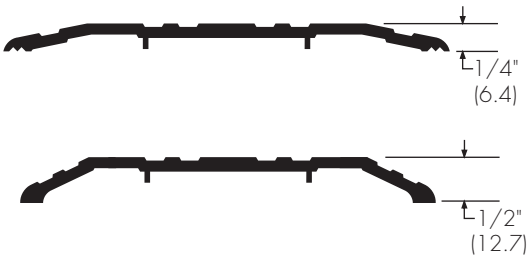
Used to keep debris from filling adjusting holes, suffix "filler". If ordered separately, specify 11102011. This is for product manufactured after 2010.



Low Rise Thresholds

Where Norton Rixson's standard ½" height might be a hindrance for access by users with disabilities, a ¼" high version is available on some products. Specify PH.

PH is not available with series 5 thresholds and products with the 201 stop strip.



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Finishes

Thresholds are aluminum or bronze.

When considering thresholds, remember that they are being walked on, rolled over and rained upon. This means that the finish you decide to use can be dramatically affected by those conditions.

The most forgiving base metal is aluminum. Mill aluminum does not tarnish or darken in time. Mill bronze darkens after awhile and the end result is a dark oxidized appearance.

Plated finishes on thresholds are not advisable. Lacquer, which is applied to plated thresholds, can be easily scratched. If a plated threshold is ordered, the finish will not be covered under warranty.

Special Drawings

If configuration, other than standard, is required, complete detail drawings must be supplied. Allow extra time for approved drawings to be returned. Thresholds will be quoted after factory drawings are approved.

How To Order

PH – Prefix
- Blank – 1/2 high
- PH – 1/4 high (models 700 and 800 only)

3 – Type
- 1 – Center hung
- 3 – Offset hung
- 4 – Center hung
- 5 – Offset hung

x 700 – Width
- 400 – 4" (used with type 5 or without floor closer)
- 500 – 5" (used with type 5 or without floor closer)
- 600 – 6" (can't be used with type 5 or with floor closer)
- 700 – 7"
- 800 – 8"

x 501 – Option
- Blank – No options
- 201 – For use with model 800 only
- 301 – Not available in type 5
- 501 – Not available in type 5
- No Closer Prep – attaching screw holes only

x 36" – Door Opening Width

x 1-3/4" – Door Thickness

x RH – Hand
- Blank – Pair
- RH – Right hand
- LH – Left hand

x 27N – Closer

x AL – Finish
- AL – Aluminum
- BZ – Bronze
- 605 – Bright Brass
- 606 – Satin Brass
- 613 – Dark Bronze
- BSP – Black Suede Powder

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The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, mechanical and smart locks. access control and service.

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CONTACT US AT:

Norton Rixson
3000 Highway 74 East
Monroe, NC 28112
Tel: 877-974-2255
Fax: 800-338-0965

ASSA ABLOY Door Security Solutions Canada
160 Four Valley Drive
Vaughan, Ontario, L4K 4T9 Canada
Tel: 800-461-3007
Fax: 800-461-8989

For a complete listing of products and applications please visit our web site.
www.nortonrixson.com
www.assaabloydss.ca

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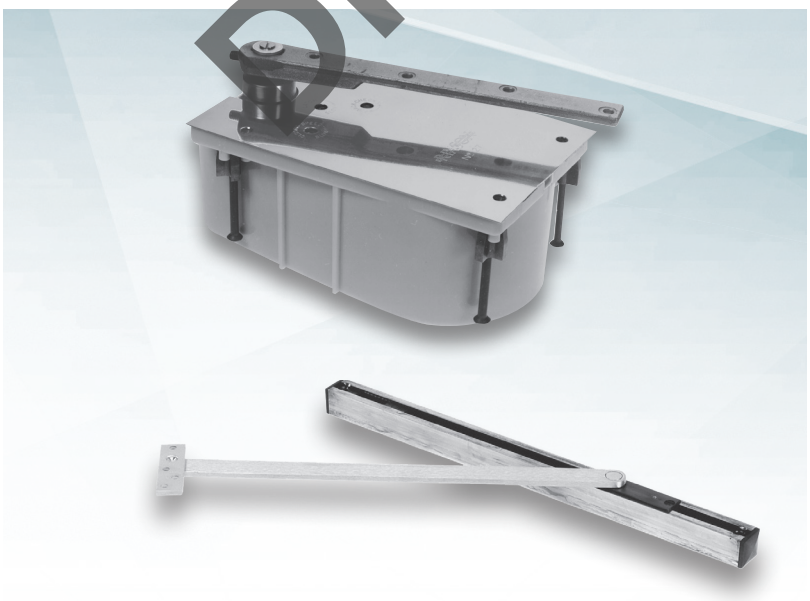
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QUICK SHIP WEST

DISCONTINUED





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QUICK SHIP WEST

QUICK SHIP POLICY

Quick Ship Order Form

Please use the form on page 10 when placing orders for Norton Rixson products. Copies of this form can also be printed from our website (www.nortonrixson.com).

Quick Ship Numbers

Quick Ship Numbers must be included on the order form. Orders listing model numbers only will be processed as factory orders.

Quick Ship/Factory Orders

Quick Ship Product Orders and Factory Orders must be submitted on separate order forms. Any order received having both factory and quick ship products will be processed as a factory order and shipped from the factory at normal lead times.

Quotes

Quote number must be referenced on the purchase order.Orders without this information will be processed at standard buying programs.

Minimum Order

Minimum invoice is $250 net product value.

Delivery

Lead time is 5 delivery days from receipt of order. (Consult the current Norton Rixson Price Book for a complete list of Terms & Conditions regarding delivery.) We reserve the right to limit quantities.

Freight

Customer orders with net product value in excess of $7,000 will be shipped prepaid by Norton Rixson's carrier of choice to a single destination point in the United States.

Changes/Cancellations

Due to the promptness of delivery, no changes or cancellations will be accepted. The only exception is when we are out of stock.

Prices

All shipments will be made at prices prevailing at time of shipment.

Terms

Invoices dated the 1st through the 15th will be due for 2% discount on the 10th of the following month. Invoices dated the 16th through the 31st will be due for 2% discount on the 25th of the following month. Net immediately thereafter.

Consult the current Norton Rixson Price Book for a complete list of Terms & Conditions, Tools & Rules and Warranty Information.

Customer Service

Tel: 877-974-2255

Email

orders.NortonRixson@assaabloy.com

Hours of Operation

8:00 am - 4:30 pm EST

Orders must be received before 2:30 pm EST for same day processing.

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7500 SERIES – INSTITUTIONAL DOOR CLOSERS

Tri-Style® Packaging, Case Qty. 4

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Non-Hold Open					
7500 x SN^	Multi-Size 1-6	689	007729	9	50
7500 x SN^	Multi-Size 1-6	690	007727	9	50
7500DA	Multi-Size 1-6, Delayed Action	689	007760	9	25
Hold Open					
7500H x SN^	Multi-Size 1-6	689	015706	11	20
CloserPlus®					
Non-Hold Open					
CLP7500^	Multi-Size 1-6	689	008574	14	25
Parallel Rigid					
Non-Hold Open					
PR7500^	Multi-Size 1-6	689	007742	14	25
Accessories					
7788	Parallel Arm Drop Plate	689	007000	4	10
7786	Regular Arm Drop Plate	689	006996	4	16

^ Sex nuts included.

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8500 SERIES – ARCHITECTURAL DOOR CLOSERS

Tri-Style® Packaging, Case Qty. 4

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
8501 - Full Cover					
Non-Hold Open					
8501 x SN^	Multi-Size 1-6	689	008979	8	50
8501 x SN^	Multi-Size 1-6	690	008977	8	50
8501DA x SN^	Multi-Size 1-6, Delayed Action	689	015708	8	25
Hold Open					
8501H x SN^	Multi-Size 1-6	690	015709	10	25
8501H x SN^	Multi-Size 1-6	689	008978	10	25
CloserPlus®					
Non-Hold Open					
CLP8501^	Multi-Size 1-6	689	009258	9	25
Accessories					
8146	Regular Arm Drop Plate	689	009096	4	10
8148	Parallel Arm Drop Plate	689	009099	4	10
8148	Parallel Arm Drop Plate	690	015707	4	25

^ Sex nuts included.

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QUICK SHIP WEST

1601 SERIES – ALUMINUM STOREFRONT DOOR CLOSERS

Tri-Style® Packaging, Case Qty. 6

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Non-Hold Open					
1601 x SN^	Multi-Size 1-6	689	008147	7	50
1601 x SN^	Multi-Size 1-6	690	015700	7	25
Hold Open					
1601H x SN^	Multi-Size 1-6	689	015701	9	25

410 SERIES – CAST IRON DOOR CLOSERS

Tri-Style® Packaging, Case Qty. 3

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Non-Hold Open					
410 x TPN^	Multi-Size 1-6	689	015240	13	25
410 x TPN^	Multi-Size 1-6	690	015241	13	25

210 SERIES – ARCHITECTURAL DOOR CLOSERS

Tri-Style® Packaging, Case Qty. 4

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Non-Hold Open					
210 x TPN^	Multi-Size 1-6	689	015000	8.5	25
210 x TPN^	Multi-Size 1-6	690	015001	8.5	25

^ Sex nuts included.

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160 SERIES – ALUMINUM STOREFRONT DOOR CLOSERS

Tri-Style® Packaging, Case Qty. 6

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Non-Hold Open					
161BF x TPN^	Multi-Size 1-4	689	015044	7	25
161BF x TPN^	Multi-Size 1-4	690	015045	7	25

SCREW PACKS

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
SN-134	Sex Nuts Package , 1-3/4" Door	689	007210	0.2	25

5700 SERIES - LOW ENERGY OPERATOR

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Operator					
5740	Push & pull arms included	689	015391	30	5
Accessories					
505	Door Switch, 6", Hardwired	N/A	015702	1.1	5
539	Radio Frequency Receiver	N/A	015703	0.6	30
548	Radio Frequency Receiver - 9V	N/A	015704	0.3	15
555	6" Square Surface Mount Box (for 505, 507)	N/A	015705	1.8	20

^ Sex nuts included

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27 FLOOR CLOSERS

Model #	Description	Hand	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
27 Series Offset Hung, (includes closer, cement case, top pivot and cover plate						
27105S	105° Selective Hold Open	RH	626	015426	28	2
27105S	105° Selective Hold Open	LH	626	015425	28	2
2790S	90° Selective Hold Open	RH	626	009777	28	2
2790S	90° Selective Hold Open	LH	626	009778	28	2

28 FLOOR CLOSERS

Model #	Description	Hand	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
28 Series Center Hung, Single Acting (includes closer, cement case, top pivot and cover plate)						
PH2890S	Physically Handicapped, 90° Selective Hold Open	RH	626	015408	28	10
PH2890S	Physically Handicapped, 90° Selective Hold Open	LH	626	015409	28	10
28105S	90° Selective Hold Open	RH	626	015411	28	10
28105S	90° Selective Hold Open	LH	626	015410	28	10
28 Series Center Hung, Less All Parts (closer body only)						
2890S	90° Selective Hold Open LAP	RH	N/A	009940	20	10
2890S	90° Selective Hold Open LAP	LH	N/A	009941	20	10
28105S	105° Selective Hold Open LAP	RH	N/A	009955	20	10
28105S	105° Selective Hold Open LAP	LH	N/A	009956	20	10

FLOOR CLOSER PARTS

Model #	Description	Hand	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
27 & 28 Parts and Accessories						
282026	28 Arm Package	N/A	629	015402	3	10
282554	28 554 Arm Package	N/A	N/A	015406	3	10
253000	Cement Case (27 & 28 Closers)	N/A	N/A	009787	1	20
284720R626	28 Floor Plate Pkg. (SHO)	RH	626	009863	1	20
284720L626	28 Floor Plate Pkg. (SHO)	LH	626	009864	1	20

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CHECKMATE® STOPS

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Checkmate® Stops and Holders					
1-236	HD Concealed Stop	630	015407	5	5

PIVOTS

Model #	Description	Hand	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
3/4" Offset Pivot Sets (Includes Top Pivot)						
117	Regular	RH	626	009800	3	5
117	Regular	LH	626	009801	3	12
147	Regular	RH	626	009813	2	12
147	Regular	LH	626	009814	2	5
L147	Heavy-Duty 1-3/4" Door	RH	626	009823	5	8
L147	Heavy-Duty 1-3/4" Door	LH	626	009824	5	5
195	Regular	RH	626	009826	3	5
195	Regular	LH	626	009827	3	5
Center Hung Pivot Sets (Includes Top Pivot)						
127-3/4	Medium Duty	N/A	626	009799	2	12
128-3/4	Medium Duty	N/A	626	009829	2	5
128-3/4	Medium Duty	N/A	625	009796	2	12
370	Heavy Duty	N/A	626	009831	3	35
370	Heavy Duty	N/A	613	015403	3	5
Top Pivots						
340	Center Hung	N/A	626	009945	2	5
H340	Heavy-Duty Center Hung	N/A	626	015400	3	20
H345	Heavy-Duty Center Hung	N/A	626	015401	3	2
345	Center Hung	N/A	626	015404	2	2
180	Offset	N/A	626	009946	1	8
H180	Heavy-Duty, Offset	N/A	626	015405	2	5
Intermediate Pivots						
M19	Regular	RH	626	009839	2	5
M19	Regular	LH	626	009840	2	6
ML19	Heavy-Duty 1-3/4" Door	RH	626	009855	2	5
ML19	Heavy-Duty 1-3/4" Door	LH	626	009856	2	5

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ELECTROMAGNETIC DOOR HOLDER/RELEASES

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Triple Voltage Door Holders (12vDC. 24vAC/DC and 120vAC)					
994M	Adjustable Short Armature Concealed Wiring	689	009997	2	5
996M	Surface Wired	689	009932	2	5
997M	Short Armature Concealed Wiring	689	009933	2	5
998M	Long Armature Concealed Wiring	689	009934	2	5
998M	Long Armature Concealed Wiring	690	009935	2	15
Parts and Accessories					
996369	996 Magnet/Bracket Assembly	N/A	009937	1	5
998369	997/998 Magnet/Bracket Assembly	N/A	009938	1	5
997510-A	Short Armature Housing Assembly	689	009904	0.2	5
998512-A	Long Armature Housing Assembly	689	009905	0.4	5
996XK	Wall Portion Extension (1-1/2")	689	009906	1	5
Armature Extensions					
900	Base Unit	689	009733	0.1	5
900-50	*1/2" Spacer	689	009736	0.1	5
900-75	*3/4" Spacer	689	009735	0.1	5
900-100	*1" Spacer	689	009734	0.1	5
900Z	*Armature Extension 90° Bend (1-1/2")	689	009732	0.1	5

*Extension spacers and bend spacer must be used with 900 base unit armature extension

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QUICK SHIP ORDER FORM

Account #		P.O.#		P.O. Date	
☐ Buying Program		☐ CPQ #			
Company Name:			Ship To:		
Address:			Address:		
City:	State:	Zip:	City:	State:	Zip:
Buyer:			Attn:		
Contact Person:					
Phone #:			Ship Via:		
Fax #:			Markings:		

Qty.	Quick Ship #	Description	Comments

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Since 1880, Norton Rixson door controls have been an integral part of schools, hospitals and businesses around the globe. When you need products and people that perform at the highest level, rely on Norton Rixson – From Open to Close.

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3000 Highway 74 East | Monroe, NC 28112 | Tel: 1 877 974 2255

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160 Four Valley Drive | Vaughan, Ontario, L4K 4T9 Canada | Tel: 800 461 3007

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QUICK SHIP POLICY

Quick Ship Order Form

Please use the form on page 13 when placing orders for Norton Rixson products.

Quick Ship Numbers

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Quick Ship/Factory Orders

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Quotes

Quote number must be referenced on the purchase order. Orders without this information will be processed at standard buying programs.

Minimum Order

Minimum invoice is $250 net product value.

Delivery

Lead time is 5 delivery days (from date order is entered). (Consult the current Norton Rixson Price Book for a complete list of Terms & Conditions regarding delivery.) We reserve the right to limit quantities.

Freight

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Changes/Cancellations

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All shipments will be made at prices prevailing at time of shipment.

Terms

Invoices dated the 1st through the 15th will be due for 2% discount on the 10th of the following month. Invoices dated the 16th through the 31st will be due for 2% discount on the 25th of the following month. Net immediately thereafter.

Consult the current Norton Rixson Price Book for a complete list of Terms & Conditions, Tools & Rules and Warranty Information.

Customer Service:

Tel: 877-974-2255

Hours of Operation

Monday - Thursday: 8:00 am to 6:00 pm EST
Friday: 8:00 am to 5:00 pm EST

Order Entry:

Email: orders.nortonrixson@assaabloy.com

Orders must be received before 2:30 pm EST for same day processing.

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Quick Ship Order Form 13

⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

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QUICK SHIP

SURFACE CLOSERS

7500

Tri-Style® Packaging, Sex Nuts not included

Model #	Description	Finish	Case Quantity	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Non-Hold Open						
7500	Multi-Size 1-6	689	4	007730	9	15
7500	Multi-Size 1-6	690	4	007736	9	15
Hold Open						
7500H	Multi-Size 1-6	689	4	007733	11	15
Parallel Rigid (Supplied with Sex Nuts)						
Non-Hold Open						
PR7500	Multi-Size 1-6	689	4	007742	11	15
CloserPlus® (Supplied with Sex Nuts)						
Non-Hold Open						
CLP7500	Multi-Size 1-6	689	4	008574	14	15
Hold Open						
CLP7500T	Multi-Size 1-6 x Thumbturn	689	4	008576	14	15
Unitrol® (Supplied with Sex Nuts)						
Non-Hold Open						
UNI7500	Multi-Size 1-6, Door Width 33" - 41"	689	4	008530	11	15
Hold Open						
UNI7500H	Multi-Size 1-6, Door Width 33" - 41"	689	4	008532	11	15
Accessories						
7786	Back Plate	689	—	006996	3	15
7787	Top Jamb Drop Plate	689	—	006998	3	15
7788	Parallel Arm Drop Plate	689	—	007000	4	15
SN-134	Sex Nut Pkg., 1-3/4" Door	689	—	002331	0.2	25
TBGN134-47	Through-Bolt and Grommet Nut Pkg., 1-3/4" Door	689	—	007240	0.2	25

Note: SN-134 - 4 per pack, TBGN134-47 - 4 sets per pack

Currently Not Available

PACKED WITH SEX NUTS

Model #	Description	Finish	Case Quantity	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Non-Hold Open						
7500 x SN	Multi-Size 1-6	689	4	007729	9	15

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QUICK SHIP

8301/8501

Tri-Style® Packaging, Sex Nuts not included

Model #	Description	Finish	Case Quantity	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
8301 - Slim Line Cover						
Non-Hold Open						
8301	Multi-Size 1-6	689	4	009246	7	15
8301	Multi-Size 1-6	690	4	009247	7	15
Hold Open						
8301H	Multi-Size 1-6	689	4	009249	9	15
8501 - Full Cover						
Non-Hold Open						
8501	Multi-Size 1-6	689	4	009251	8	15
8501	Multi-Size 1-6	690	4	009252	8	15
Hold Open						
8501H	Multi-Size 1-6	689	4	009256	10	15
Parallel Rigid (Supplied with Sex Nuts)						
Non-Hold Open						
PR8501	Multi-Size 1-6	689	4	009257	10	15
CloserPlus® (Supplied with Sex Nuts)						
Non-Hold Open						
CLP8501	Multi-Size 1-6	689	4	009258	9	15
Hold Open						
CLP8501T	Multi-Size 1-6 x Thumbturn	689	4	009260	10	15
8301 - Slim Line Cover						
Non-Hold Open						
8301 x SN	Multi-Size 1-6	689	4	009160	7	15
8501 - Full Cover						
Non-Hold Open						
8501 x SN	Multi-Size 1-6	689	4	008979	8	15
8501 x SN	Multi-Size 1-6	690	4	008977	8	15
Hold Open						
8501H x SN	Multi-Size 1-6	689	4	008978	10	15
Accessories						
8200P	Slim Line Cover	689	—	009090	0.5	15
8146	Drop Plate (Narrow Top Rail)	689	—	009096	2	15
8148	Drop Plate	689	—	009099	2	15
SN-134	Sex Nut Pkg., 1-3/4" Door	689	—	002331	0.2	25
TBGN134-38	Through-Bolt and Grommet Nut Pkg., 1-3/4" Door	689	—	007228	0.2	25

Note: SN-134 - 4 per pack, TBGN134-38 - 4 sets per pack

Currently Not Available

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QUICK SHIP

1601

Tri-Style® Packaging, Sex Nuts not included

Model #	Description	Finish	Case Quantity	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Non-Hold Open						
1601	Multi-Size 1-6	689	6	008384	7	30
1601	Multi-Size 1-6	690	6	008376	7	30
Hold Open						
1601H	Multi-Size 1-6	689	6	008388	9	30
Accessories						
1688	Drop Plate	689	—	008557	2	15
SN-134	Sex Nut Pkg., 1-3/4" Door	689	—	002331	0.2	25
TBGN134-38	Through-Bolt and Grommet Nut Pkg., 1-3/4" Door	689	—	007228	0.2	25

Note: SN-134 - 4 per pack, TBGN134-38 - 4 sets per pack

Currently Not Available

410

Tri-Style® Packaging (TPN, TPH), Sex Nuts Included

Model #	Description	Finish	Case Quantity	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Non-Hold Open						
410 x TPN	Multi-Size 1-6	689	3	015240	12	40
410 x TPN	Multi-Size 1-6	690	3	015241	12	40
Hold Open						
410 x TPH	Multi-Size 1-6	689	3	015242	12	40
410 x TPH	Multi-Size 1-6	690	3	015243	12	40
Heavy-Duty Arm, Non-Hold Open						
410 x HDN	Multi-Size 1-6, Arm has Removable Stop	689	4	015244	14	40
410 x HDN	Multi-Size 1-6, Arm has Removable Stop	690	4	015245	14	40
410 x CPS	Multi-Size 1-6, Arm has Removable Stop & Spring Buffer	689	4	015262	14	40
410 x CPS	Multi-Size 1-6, Arm has Removable Stop & Spring Buffer	690	4	015263	14	40
Heavy-Duty Arm, Hold Open						
410 x HDH	Multi-Size 1-6, Arm has Removable Stop	689	4	015246	14	40
410 x HDH	Multi-Size 1-6, Arm has Removable Stop	690	4	015247	14	40
410 x CPST	Multi-Size 1-6, Arm has Removable Stop & Spring Buffer	689	4	015264	14	40
410 x CPST	Multi-Size 1-6, Arm has Removable Stop & Spring Buffer	690	4	015265	14	40
Accessories						
SP410	Screw Pack	689	—	015254	0.2	40
SP410	Screw Pack	690	—	015255	0.2	40
SN-134	Sex Nut Pkg., 1-3/4" Door	689	—	002331	0.2	25
TBGN134-47	Through-Bolt and Grommet Nut Pkg., 1-3/4" Door	689	—	007240	0.2	25

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QUICK SHIP

210

Tri-Style® Packaging (TPN, TPH), Sex Nuts included

Model #	Description	Finish	Case Quantity	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Non-Hold Open						
210 x TPN	Multi-size 1-6	689	6	015000	6.5	40
210 x TPN	Multi-size 1-6	690	6	015001	6.5	40
Hold Open						
210 x TPH	Multi-size 1-6	689	4	015002	6.5	40
210 x TPH	Multi-size 1-6	690	4	015003	6.5	40
Heavy-Duty Arm, Non-Hold Open						
210 x HDN	Multi-size 1-6	689	4	015006	7.75	40
210 x HDN	Multi-size 1-6	690	4	015007	7.75	40
Heavy-Duty Arm, Hold Open						
210 x HDH	Multi-size 1-6	689	4	015008	7.75	40
210 x HDH	Multi-size 1-6	690	4	015009	7.75	40
Accessories						
SN-134	Sex Nut Pkg., 1-3/4" Door	689	—	002331	0.2	25
TBGN134-38	Through-Bolt and Grommet Nut Pkg., 1-3/4" Door	689	—	007228	0.2	25

Note: SN-134 - 4 per pack, TBGN134-38 - 4 sets per pack

160

Tri-Style® Packaging, Sex Nuts included

Model #	Description	Finish	Case Quantity	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Non-Hold Open						
161BF x TPN	Multi-size 1-6	689	6	015044	6	40
161BF x TPN	Multi-size 1-6	690	6	015045	6	40
164 x TPN	Size 4	689	6	015046	6	40
164 x TPN	Size 4	690	6	015047	6	40
Hold Open						
161BF x TPH	Multi-size 3-6	689	6	015048	6	40
161BF x TPH	Multi-size 3-6	690	6	015049	6	40
Accessories						
SN-134	Sex Nut Pkg., 1-3/4" Door	689	—	002331	0.2	25
TBGN134-38	Through-Bolt and Grommet Nut Pkg., 1-3/4" Door	689	—	007228	0.2	25

Note: SN-134 - 4 per pack, TBGN134-38 - 4 sets per pack

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QUICK SHIP

CLOSER TOUCH-UP PAINT

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
1A	Aluminum	689	007781	1	15
5S	Dark Statuary Bronze	690	007786	1	15
2BZ	Light Bronze	691	007787	1	15
6SB	Satin Brass	696	007788	1	15
7BSP	Black Suede	BSP	007789	1	15

OVERHEAD CONCEALED CLOSERS

Model #	Description	Hand	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
91N	Offset Hung, Non-Hold Open, Dress Cover Plate Included	RH	689	015710	14	5
91N	Offset Hung, Non-Hold Open, Dress Cover Plate Included	LH	689	015711	14	5
91N	Offset Hung, Non-Hold Open, Dress Cover Plate Included	RH	690	015712	14	5
91N	Offset Hung, Non-Hold Open, Dress Cover Plate Included	LH	690	015713	14	5

COMPLETE FLOOR CLOSER

Model #	Description	Hand	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
27 Series 3/4" Offset (Includes closer, cement case, top pivot & cover plate)						
2790SHO	90˚ Selective Hold Open	RH	626	009777	28	5
2790SHO	90˚ Selective Hold Open	LH	626	009778	28	5
28 Series Center Hung, Single Acting (Includes closer, cement case, top pivot & cover plate)						
2890SHO	90˚ Selective Hold Open	RH	626	009781	28	5
2890SHO	90˚ Selective Hold Open	LH	626	009782	28	5

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CLOSER LESS ALL PARTS

Model #	Description	Hand	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
27 Series, 3/4" Offset						
2790SHO LAP	90˚, Selective Hold Open	RH	N/A	009792	20	5
2790SHO LAP	90˚, Selective Hold Open	LH	N/A	009793	20	5
2790NHO LAP	90˚, Non-Hold Open	RH	N/A	009794	20	5
2790NHO LAP	90˚, Non-Hold Open	LH	N/A	009795	20	5
27105SHO LAP	105˚, Selective Hold Open	RH	N/A	009918	20	5
27105SHO LAP	105˚, Selective Hold Open	LH	N/A	009919	20	5
27105NHO LAP	105˚, Non-Hold Open	RH	N/A	009916	20	5
27105NHO LAP	105˚, Non-Hold Open	LH	N/A	009917	20	5
28 Series - Center Hung, Single Acting						
2890SHO LAP	90˚, Selective Hold Open	RH	N/A	009940	20	5
2890SHO LAP	90˚, Selective Hold Open	LH	N/A	009941	20	5
2890NHO LAP	90˚, Non-Hold Open	RH	N/A	009942	20	5
2890NHO LAP	90˚, Non-Hold Open	LH	N/A	009943	20	5
28105SHO LAP	105˚, Selective Hold Open	RH	N/A	009955	20	5
28105SHO LAP	105˚, Selective Hold Open	LH	N/A	009956	20	5
28105NHO LAP	105˚, Non-Hold Open	RH	N/A	009957	20	5
28105NHO LAP	105˚, Non-Hold Open	LH	N/A	009958	20	5
Parts and Accessories						
252050R4	27 Arm Pkg.	RH	626	009953	2	5
252050L4	27 Arm Pkg.	LH	626	009954	2	5
274750R4	27 Floor Plate Pkg. (SHO)	RH	626	009861	1	5
274750L4	27 Floor Plate Pkg. (SHO)	LH	626	009862	1	5
180	Top Pivot (for 27 closer)	N/A	626	009946	1	5
282026-4	28 Arm Pkg.	N/A	626	009949	3	5
284720R4	28 Floor Plate Pkg. (SHO)	RH	626	009863	1	5
284720L4	28 Floor Plate Pkg. (SHO)	LH	626	009864	1	5
340	Top Pivot (for 28 closer)	N/A	626	009945	2	5
253000	Cement Case (for 25, 26, 27 & 28 Series)	N/A	N/A	009787	1	5

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QUICK SHIP

LOW ENERGY OPERATORS

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
6300 Series					
6341	Universal unit (includes push and pull arms)	689	015511	28	2
6341	Universal unit (includes push and pull arms)	BSP	015536	28	2
6200 Series					
6241	Universal unit (includes push and pull arms)	689	015537	28	2
6241	Universal unit (includes push and pull arms)	BSP	015538	28	2
5700 Series					
5740	Universal unit (includes push and pull arms)	689	015391	21	2
5740	Universal unit (includes push and pull arms)	BSP	015397	21	2
5800 Series					
5845xNPB	Push or pull side, narrow wall switches, ADA1015P kit, black and aluminum finish covers	693Tx689	015208	20	2
5845xSQPB	Push or pull side, square wall switches, ADA1015P kit, black and aluminum finish covers	693Tx689	015209	20	2

Currently Not Available

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CHECKMATE® STOPS AND HOLDERS

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
1-136	HD Concealed Stop	630	009737	5	5
1-236	HD Concealed Stop	630	009738	5	5
1-336	HD Concealed Stop	652	009730	5	5
1-326	HD Concealed Holder	630	009714	5	5
1-336	HD Concealed Stop	630	009715	5	5
1-436	HD Concealed Stop	630	009731	5	5
1-536	HD Concealed Stop	630	009739	5.5	5
2-336	Std Concealed Stop	652	009705	2	5
2-136	Std Concealed Stop	630	009740	2	5
2-236	Std Concealed Stop	630	009741	2	5
2-336	Std Concealed Stop	630	009706	2	5
2-436	Std Concealed Stop	630	009742	2	5
2-536	Std Concealed Stop	630	009743	2.5	5
2-346	Std Adjustable Combo	630	009718	3	5
6-336	LP Concealed Stop	630	009825	3	5
9-326	HD Surface Holder	652	009707	5	5
9-326	HD Surface Holder	630	009721	5	5
9-336	HD Surface Stop	652	009708	5	5
9-136	HD Surface Stop	630	009790	5	5
9-236	HD Surface Stop	630	009791	5	5
9-336	HD Surface Stop	630	009722	5	5
9-436	HD Surface Stop	630	009744	5	5
9-536	HD Surface Stop	630	009811	5.5	5
10-136	Std Surface Stop	652	009828	2	5
10-236	Std Surface Stop	652	009724	2	5
10-336	Std Surface Stop	652	009702	2	5
10-136	Std Surface Stop	630	009703	2	5
10-236	Std Surface Stop	630	009728	2	5
10-336	Std Surface Stop	630	009729	2	5
10-346	Std Adjustable Combo	689	009720	3	5
10-346	Std Adjustable Combo	630	009719	3	5
10-436	Std Surface Stop	630	009704	2	5
10-536	Std Surface Stop	630	009727	2.5	5

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QUICK SHIP

PIVOTS

Model #	Description	Hand	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
3/4" Offset Pivot Sets (Includes Top Pivot)						
117	Regular	RH	626	009800	3	5
117	Regular	LH	626	009801	3	5
117	Regular	RH	625	009802	3	5
117	Regular	LH	625	009803	3	5
117	Regular	RH	605	009804	3	5
117	Regular	LH	605	009805	3	5
117	Regular	RH	613	009806	3	5
117	Regular	LH	613	009807	3	5
147	Regular	RH	626	009813	3	5
147	Regular	LH	626	009814	3	5
147	Regular	RH	625	009815	3	5
147	Regular	LH	625	009816	3	5
147	Regular	RH	613	009819	3	5
147	Regular	LH	613	009820	3	5
L147	Lead 1-3/4" Door	RH	626	009823	3	5
L147	Lead 1-3/4" Door	LH	626	009824	3	5
195	Regular	RH	626	009826	3	5
195	Regular	LH	626	009827	3	5
Center Hung Pivot Sets (Includes Top Pivot)						
128-3/4	Medium Duty	N/A	626	009829	3	5
128-3/4	Medium Duty	N/A	625	009796	3	5
128-3/4	Medium Duty	N/A	605	009797	3	5
128-3/4	Medium Duty	N/A	613	009701	3	5
370	Heavy Duty	N/A	626	009831	3	5
127-3/4	Medium Duty	N/A	626	009799	3	5
Top Pivots						
340	Center Hung Top Pivot	N/A	626	009945	3	5
340	Center Hung Top Pivot	N/A	613	009948	3	5
180	Offset Top Pivot	N/A	626	009946	1	5
180	Offset Top Pivot	N/A	613	009944	1	5
180	Offset Top Pivot	N/A	625	009947	1	5
Intermediate Pivots						
M19	Regular	RH	626	009839	3	5
M19	Regular	LH	626	009840	3	5
M19	Regular	RH	613	009845	3	5
M19	Regular	LH	613	009846	3	5
ML19	Heavy Duty	RH	626	009855	3	5
ML19	Heavy Duty	LH	626	009856	3	5

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ELECTROMAGNETIC DOOR HOLDER/RELEASES

Model #	Description	Finish	Quick Ship #	Approx. Weight (Each) lbs.	Maximum Quantity
Triple Voltage Door Holders (12vDC, 24vAC/DC and 120vAC)					
990M	Low Profile Concealed Wiring	689	009930	2	5
996M	Surface Wired	689	009932	2	5
994M	Adjustable Short Armature Concealed Wiring	689	009997	2	5
997M	Short Armature Concealed Wiring	689	009933	2	5
998M	Long Armature Concealed Wiring	689	009934	2	5
998M	Long Armature Concealed Wiring	690	009935	2	5
980M	Floor Mounted	689	009936	3	5
Parts and Accessories					
996369	996 Magnet/Bracket Assembly	N/A	009937	1	5
998369	997/998 Magnet/Bracket Assembly	N/A	009938	1	5
997510-A	Short Armature Housing Assembly	689	009904	1	5
998512-A	Long Armature Housing Assembly	689	009905	1	5
996XK	Wall Portion Extension (1-1/2")	689	009906	1	5
Armature Extensions					
900	Base Unit	689	009733	1	5
900-50	*1/2" Armature	689	009736	1	5
900-75	*3/4" Armature	689	009735	1	5
900-100	*1" Armature	689	009734	1	5
900Z	*Armature Extension 90˚ Bend (1-1/2")	689	009732	1	5

*Extension spacers and bend spacers must be used with 900 base unit armature extension

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QUICK SHIP

QUICK SHIP ORDER FORM

Account #		P.O.#		P.O. Date	
☐ Buying Program		☐ CPQ # (or faxed copy of CPQ submitted with this form)			
Company Name:			Ship To:		
Address:			Address:		
City:	State:	Zip:	City:	State:	Zip:
Buyer:			Attn:		
Contact Person:					
Phone #:			Ship Via:		
Fax #:			Markings:		
Qty.	Quick Ship #	Description		Comments	

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43504-02/26

CATALOG

ELECTROMAGNETIC DOOR HOLDER/ RELEASES

DESIGNED FOR REMOTE DOOR RELEASE APPLICATIONS

NORTON RIXSON

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ELECTROMAGNETIC DOOR HOLDER/RELEASES

INTRODUCTION

Norton Rixson offers a wide range of electromagnetic door holders/releases. Designed for virtually any remote door release application, electromagnetic door holders/releases primarily hold fire doors open until released by an alarm or smoke detector.

Floor mounted units are available for single or back-to-back doors. Wall mounted units feature concealed or surface wiring, low profile projection or high hold force.



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⚠ WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

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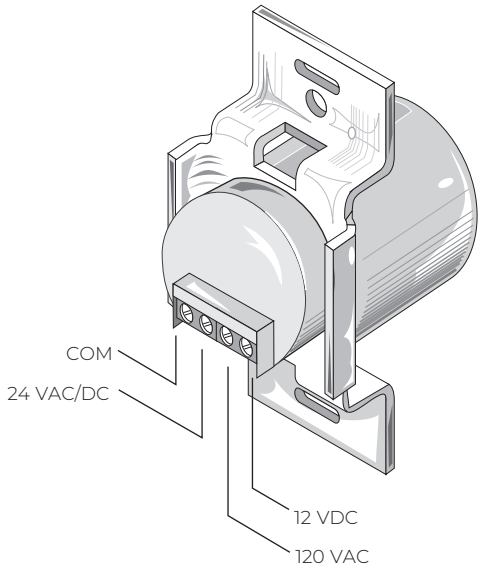
HOW TO SELECT A PRODUCT

ELECTROMAGNETIC DOOR HOLDER/RELEASES

GENERAL INFORMATION

Electromagnetic door holder/releases are designed for virtually any remote door release applications. They must be used in conjunction with closing devices.

- Fire/smoke barrier doors
  - Door releases when tripped by an alarm or smoke detector
- Private offices
  - Door releases when triggered by a remote switch
- All devices come with a wall/floor portion and a door portion (armature)
- Circuit normally closed
- Door portions have screws and plates to accommodate surface and concealed mounting



Features

- 25-40lbs. holding force, except where noted
- Fail-safe operation; power failure releases door to close
- Positive release button initiates closing motion
- Tri-Volt (120VAC, 24VAC/DC, 12VDC) is standard on models: 980M, 981M, 989, 990M, 994M, 996M, 997M, 998M and 999M - see
- Spotting template included
- For 50-55lbs. of holding force on models 980M, 981M, 989, 990M, 994M, 996M, 997M, 998M and 999M, specify model number x 120VAC, 24VAC, 24VDC or 12VDC when ordering. Not available in Tri-Volt coils.

Certifications

- See individual sections for compliance with ANSI/BHMA A156.15 standards
- UL-cUL listed
- Cal Fire 3550-0047:0001 (980M, 981M, 990M, 991M, 996M, 997M, 998M, and 999M)
- Cal Fire 3550-0047:0110 (993M)

Specifications

All electromagnetic door holder/releases shall be supplied by architectural hardware supplier. All units shall have a single coil to accommodate 12VDC, 24VAC, 24VDC and 120VAC. The coils shall be independently wound, employing a fuse. Armatures will have positive release button.

HOW TO SELECT PRODUCT

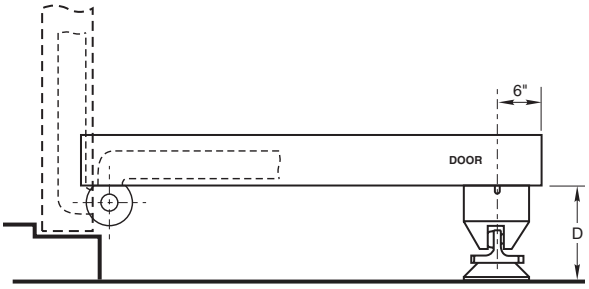
ELECTROMAGNETIC DOOR HOLDER/RELEASES

Prior to determining the product you will need to use, begin by looking at the door and perpendicular wall relationship.

- Measure the distance. That will give you the “D” dimension. Select from chart A.

Chart A

If the distance from wall to door is: “D”	Use
7/16" (11)	989
1-13/16" (46)	990M
2-5/8" (67)	997M
3-5/8" (92)	998M
3-3/4" (95)	994M
4-1/8" (105)	996M
4-3/8" (111)	999M
5-1/8" (130)	998M x XK996M
6-5/8" (168) min. distance from wall	980M
6-3/4" distance between doors	981M



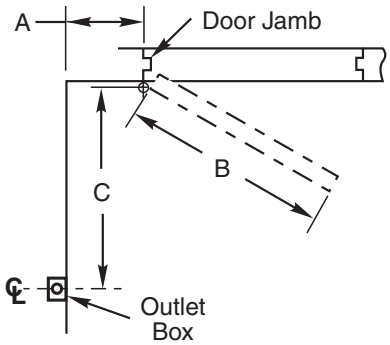
900 base has a minimum: 1-1/2" (38mm) extension.
Maximum: 10" using combination of spacers [1/2" (13mm), 3/4" (19mm), etc.] Longer armature projections may encourage abuse and/or the weight of the extended rods will pull off the face of the door.

Chart B

Junction box location should always be as close as possible to the door pull/lever/knob.

A position horizontally farther toward the hinge edge will dramatically lessen the hold open force of the magnet.

A mounting too high on the vertical plane (top of door) will make it more difficult to pull out of hold open.



Refer to Diagram B

- How far is the centerline of the pivot/hinge from the wall? “A” dimension
- What is width of door? “B” dimension
- At what degree is the door opening? If this dimension is more than 100° consult template.
  The armature has a few degrees of adjustment but, before proceeding verify with the product template
- Dimension “C” is from pivot point to junction box centerline

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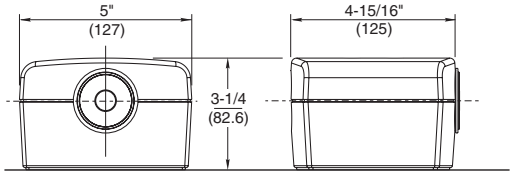
FLOOR MOUNTED
ELECTROMAGNETIC DOOR HOLDER/RELEASES

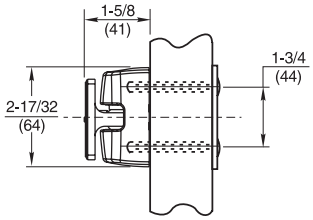
MODEL 980M

Application
- Floor mount
- Single door
- Shipping weight: 4 lbs. (1.8 kg)



Features
- Concealed wiring
- Total floor space required: 6-5/8" (168mm)
- Mounting requirements: conduit connects directly to floor plate
- 2 year limited warranty





Compliance
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00021

Electrical Data
- Voltage and current:
  120VAC, 60 Hz., .020 amp
  24VAC/DC, 60 Hz., .020 amp
  12VDC, .040 amp



- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp

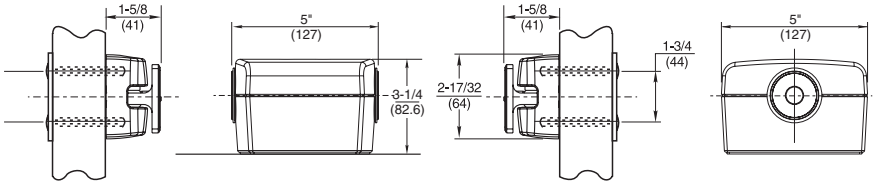
MODEL 981M

Application
- Floor mount
- 2 back-to-back doors
- Shipping weight: 4-3/4 lbs. (2.2 kg)



Features
- Concealed wiring
- Floor space required: 8-1/4" (210mm)
- Mounting requirements: conduit connects directly to floor plate
- 2 year limited warranty

Compliance
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00031



Electrical Data
- Voltage and current:
  120VAC, 60Hz., .040 amp
  24VAC/DC, .040 amp
  12VDC, .080 amp



- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .034 amp
  24VAC, 60Hz .016 amp
  24VDC, .036 amp
  12VDC, .360 amp

WALL MOUNTED
ELECTROMAGNETIC DOOR HOLDER/RELEASES

MODEL 989

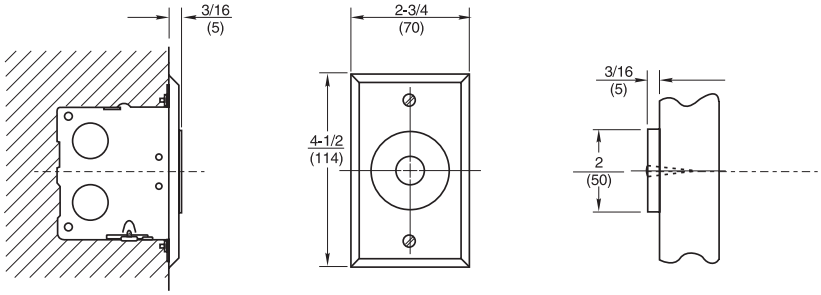


Application
- Wall mount
- Low profile
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features
- Total projection: 7/16" (11mm)
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp



MODEL 990M

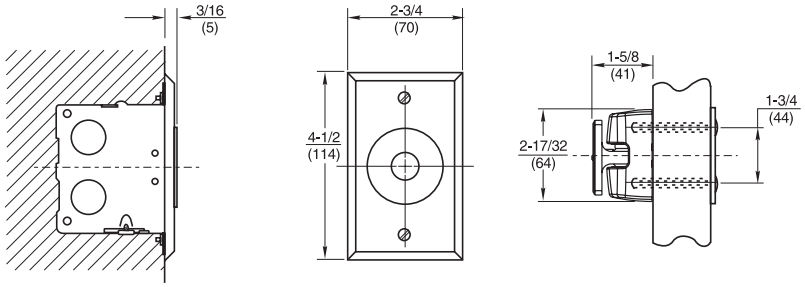


Application
- Wall mount
- Low profile
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features
- Total projection: 1-13/16" (46mm)
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp



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SPECIAL PURPOSE WALL MOUNTED
ELECTROMAGNETIC DOOR HOLDER/RELEASES

MODEL 991M

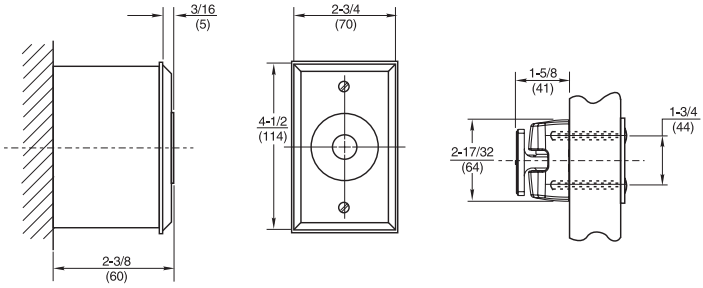


Application
- Wall mount
- Surface wiring
- Hazardous locations
- Shipping weight: 3 lbs. (1.4 kg)

Features
- Total projection: 4" (101mm)
- Approved for class I division 2, class II division 2, groups F and G and class III locations
- Unit includes a sealed surface-mounted junction box
- 2 year limited warranty

Compliance
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .017 amp
  24VAC, .080 amp
  12VAC, .180 amp
  24VDC, .068 amp



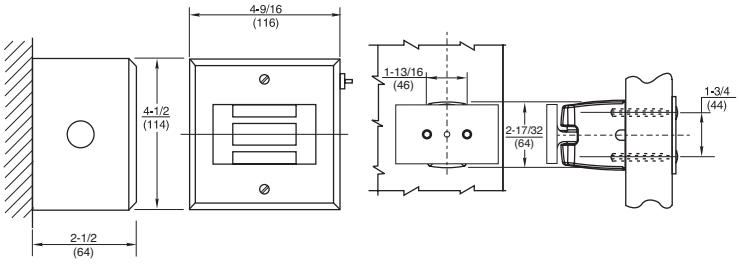
MODEL 993M



Application
- High hold
- Surface or concealed mounting
- Floor or wall application
- Shipping weight: 3 lbs. (1.4 kg)

Features
- 275 lb. holding force
- Total projection: 5-1/4" (133mm)
- Switch box included 4-1/2" x 4-9/16" x 2-1/2" (114 x 116 x 64mm) deep
- Armature plate thru-bolted to maintain consistent contact with magnet
- Adjusting screw on special heavy-duty armature allows for alignment of contact plate
- 9930M floor mount available
- Unit has test switch – may be ordered without switch if door will be pulled out of hold open very often
- Use key switch to release (by others)
- Substantial wall reinforcement required
- 2 year limited warranty

Electrical Data
- Voltage and current: 24VAC/DC .25 amp



WALL MOUNTED

ELECTROMAGNETIC DOOR HOLDER/RELEASES

MODEL 994M

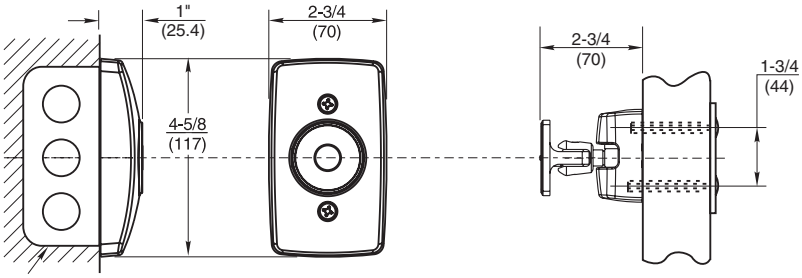


Application
- Wall mount
- Adjustable armature
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features
- Total projection: 3-3/4" (95mm)
- Adjustable armature rotation up and down, back and forth for better alignment.
- Cannot be use with 900 base or spacers.
- Can be used without adjustment piece making it a model 997
- Mounting requirements: 2" x 4" x 2-1/2" (51 x 102 x 64mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp



MODEL 996M

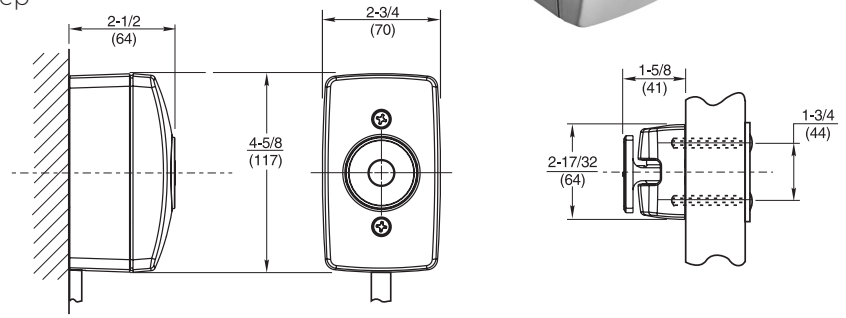


Application
- Wall mount
- Surface wiring
- Shipping weight: 3 lbs. (1.4 kg)

Features
- Total projection: 4-1/8" (105mm)
- Mounting requirements: 1-1/2" (38mm) deep adapter housing
- Wall must be properly reinforced
- 2 year limited warranty

Compliance
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp



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WALL MOUNTED

ELECTROMAGNETIC DOOR HOLDER/RELEASES

MODEL 997M

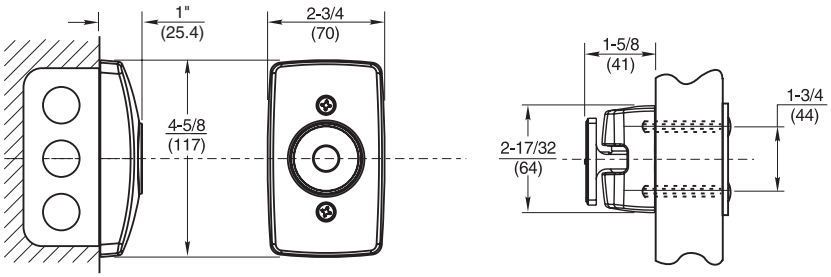


Application
- Wall mount
- Concealed wiring
- Shipping weight: 2 lbs. (0.9 kg)

Features
- Total projection: 2-5/8" (67mm)
- Mounting requirements: 2" x 4" x 1-3/4" (51 x 102 x 45mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp



MODEL 998M

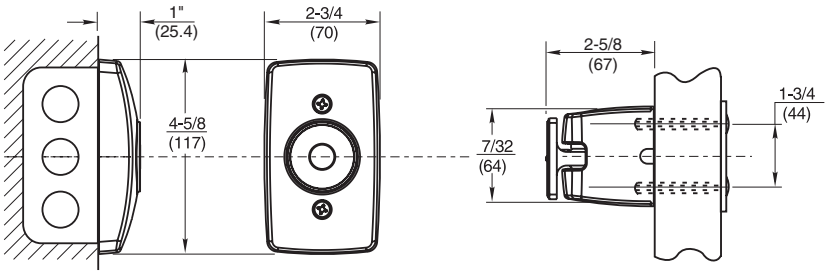


Application
- Wall mount
- Concealed wiring
- Shipping weight: 2-1/2 lbs. (1.1 kg)

Features
- Total projection: 3-5/8" (92mm)
- Mounting requirements: 2" x 4" x 1-3/4" (51 x 102 x 45mm) outlet box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

Electrical Data
- Voltage and current:
  120VAC, 60Hz., .020 amp
  24VAC/DC, 60Hz., .020 amp
  12VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp



MODEL 999M

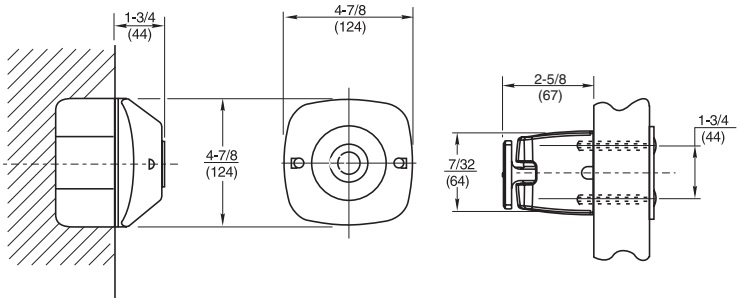


Application
- Universal mounting
- Shipping weight: 2-3/4 lbs. (1.2 kg)

Features
- Base plate; concealed wiring
- Total projection: 4-3/8" (111mm)
- Mounting requirements: 2" x 4" (51 x 102mm) outlet box; 4" (102mm) square box; 4" (102mm) octagonal box
- Wall must be properly reinforced and outlet box adequately fastened
- 2 year limited warranty

Compliance
- ANSI/BHMA A156.15, Grade 1
- ANSI/C00011

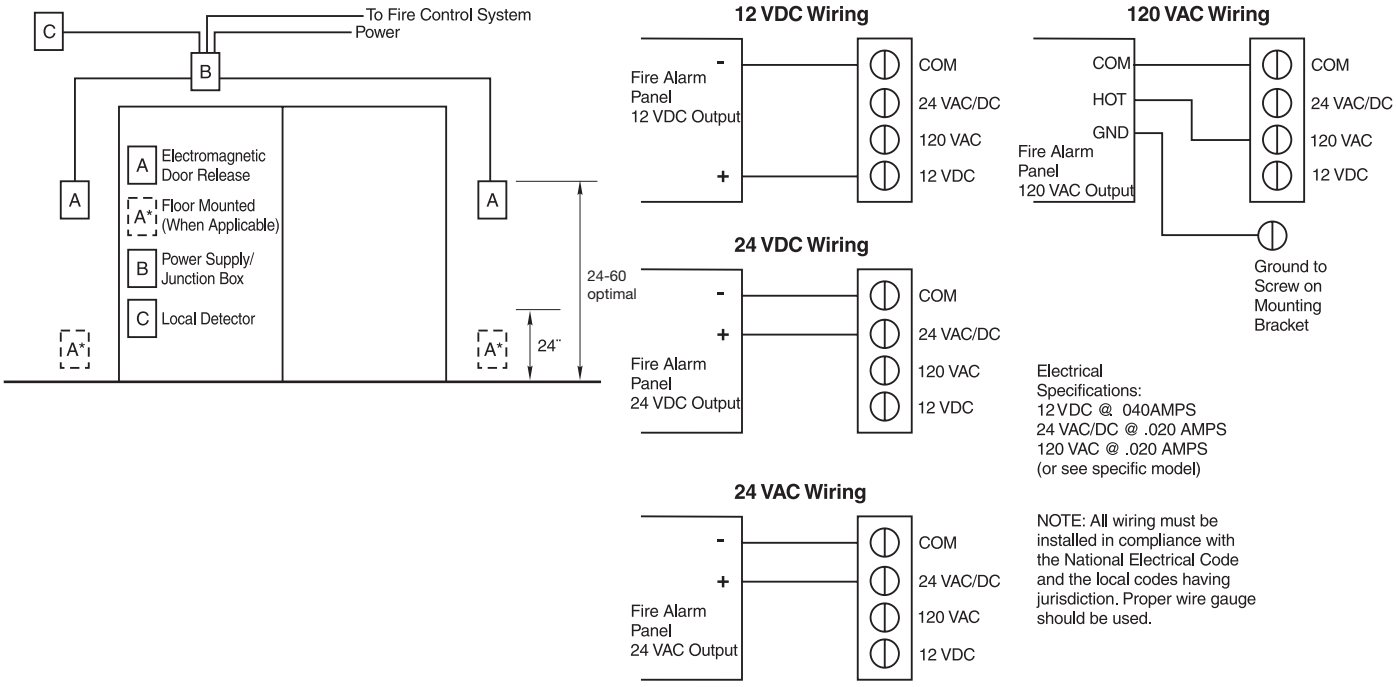
Electrical Data
- Voltage and current:
  120 VAC, 60 Hz., .020 amp
  24 VAC/DC, 60 Hz., .020 amp
  12 VDC, .040 amp
- For 50-55 lbs. of holding force, specify voltage
  120VAC, 60Hz .017 amp
  24VAC, 60Hz .080 amp
  24VDC, .068amp
  12VDC, .180amp



SCHEMATICS

ELECTROMAGNETIC DOOR HOLDER/RELEASES

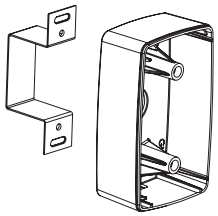
SCHEMATICS



Operation Narrative

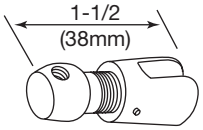
Doors are to be normally held open. The electromagnetic door releases will be energized with the voltage shown (at right) in the hardware set for this opening. Power shall be controlled by the fire control system. It will interrupt the power if alarmed, causing the doors to be released, thus allowing the door closers to close the doors. When power is restored the magnets will re-energize, permitting the doors to be manually returned to their held open position.

ACCESSORIES

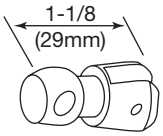


1-1/2" (38mm) Extension (for use only with Models 997M, 998M & 994M) Mounts behind wall cover.

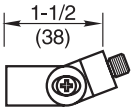
XK996M
Part# 996631M-*



Base Unit Armature Extension Mounts between armature and contact plate.
Part# 900
Cannot be used with model 994M



994M Swivel Armature (cannot be used with extension spacers)
Part# 900-3



Armature Extension 90° Bend Part# 900-Z
Must be used with 900 base unit. Those two pieces will extend armature 3" longer than the contact plate.

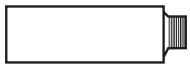
Spacer lengths – must be used with 900 base

900-700

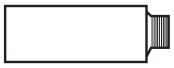


For dimensions, see chart below

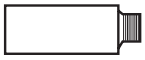
900-600



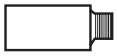
900-500



900-400



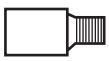
900-300



900-200



900-100



900-75



900-50



Extension pieces must be used in conjunction with 900 Base Unit

Part	Length
900-700	7"
900-600	6"
900-500	5"
900-400	4"
900-300	3"
900-200	2"
900-100	1"
900-75	3/4"
900-50	1/2"

**specify finish*

HOW TO ORDER

ELECTROMAGNETIC DOOR HOLDER/RELEASES

998M **120VAC** **689**

SERIES

980M	Floor Mounted
981M	Floor Mounted Back to Back Doors
989	Low Projection Wall Mounted
990M	Low Projection Wall Mounted
991M	Hazardous Location Wall Mounted
993M	High Hold Wall Mounted
9930M	High Hold Floor Mounted
994M	Wall Mounted Adjustable Armature
996M	Surface Mounted
997M	Wall Mounted
998M	Wall Mounted
999M	Universal Wall Mounted

VOLTAGE

120VAC
24VAC/DC
12VDC

Note:
Tri-Volt (120VAC, 24VAC/DC, 12VDC) is standard on models: 980M, 981M, 989, 990M, 994M, 996M, 997M, 998M and 999M. For 50-55 lbs of holding force on these models, specify model x 120VAC, 24VAC, 24VDC or 12VDC when ordering.

FINISHES

ANSI/BHMA (US)	Descripton
689 (US28)	Aluminum, painted
690 (US20)	Dark bronze, painted
691 (US10)	Light bronze, painted
693	Black, painted
696 (US4)	Gold , painted

USED WITH MODELS 980M, 981M

Floor Portion

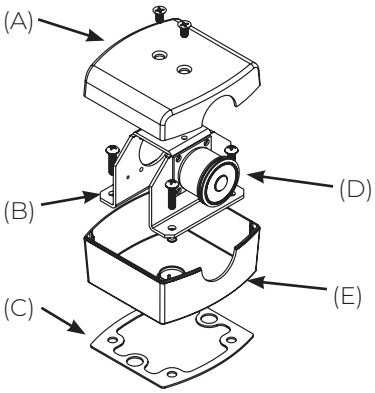
(A) Magnet Housing Cover
980311M-* / 981311M-*

(B) Magnet Support Bracket
981309

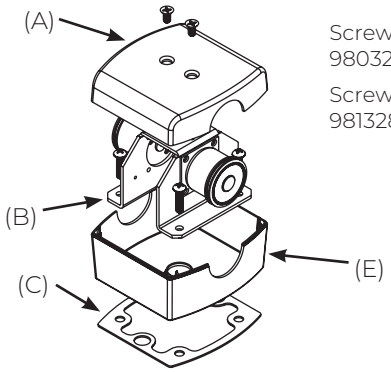
(C) Gasket
980095M

(D) Tri-Volt Magnet Assembly
^996219-3V

(E) Magnet Housing Base
980312M-* / 981312M-*



980M



981M

Screw Kits

Screw Kit for 980M
980328-*

Screw Kit for 981M
981328-*

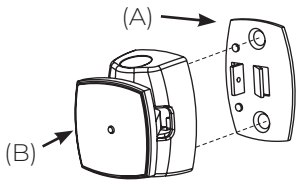
USED WITH MODELS 980M, 981M, 990M, 991M, 996M, 997M

Door Portion

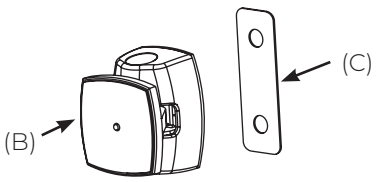
(A) Backup Plate

(B) Door Armature Assembly
997510M-*

(C) Door Plate



Surface Applied Concealed Mounting
Recommended for Solid Wood Doors Only



Thru Bolt Mounting
Recommended for Hollow Metal, Hollow Core or Composite Type Wood Doors

Note: backup plate and door plate are included in magnet screw kit

^ For voltages other than Tri-Volt, contact factory
** Specify finish*

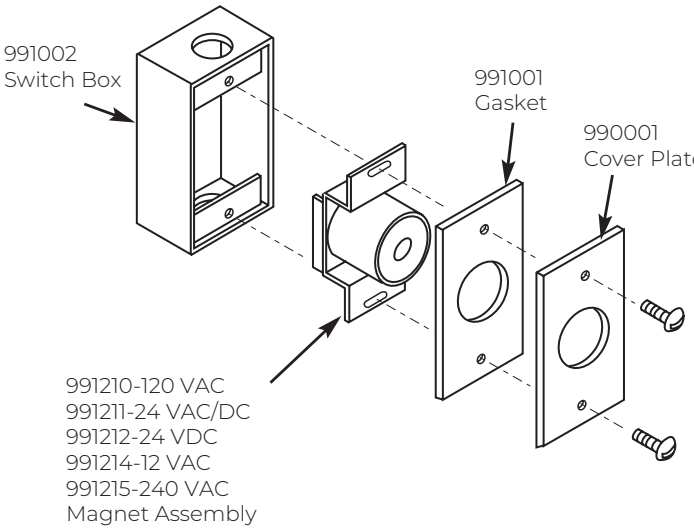
PARTS DRAWINGS

ELECTROMAGNETIC DOOR HOLDER/RELEASES

USED WITH MODEL 991M

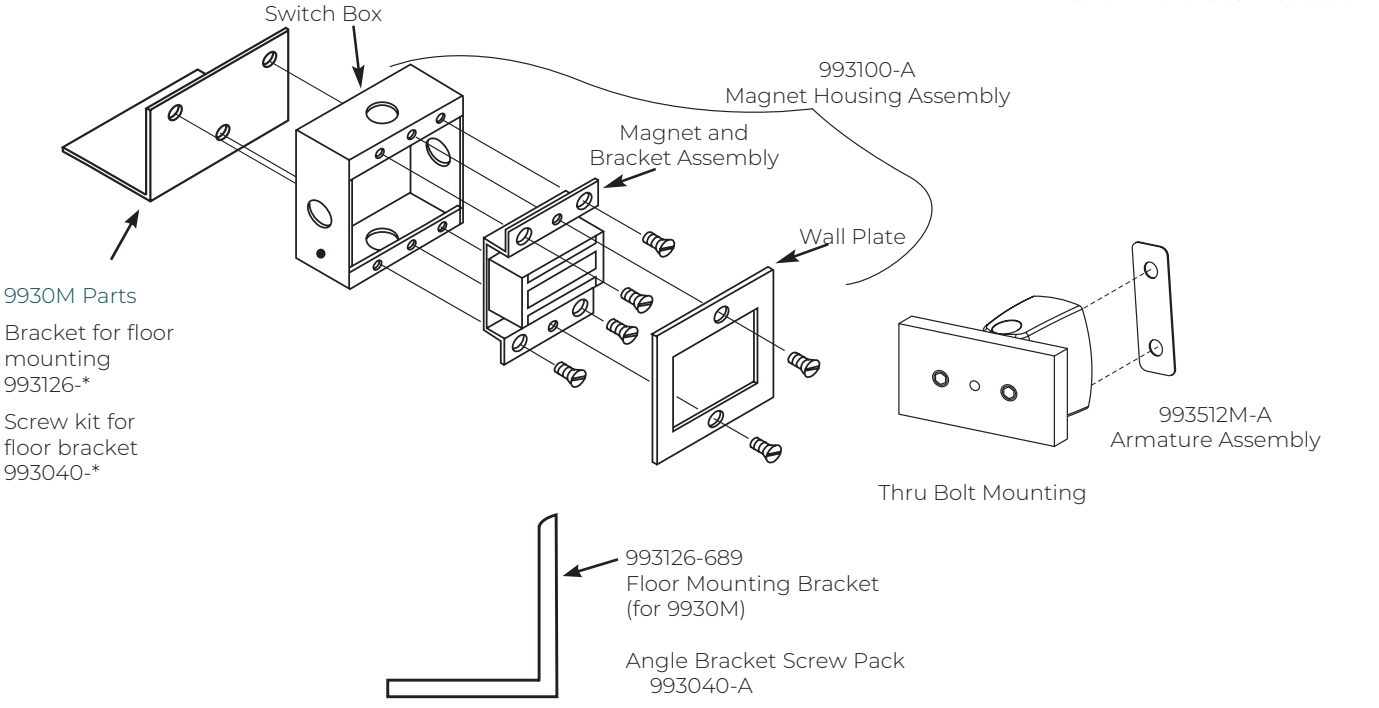
Wall Portion

Screw Kit for 991M: 990300-*



USED WITH MODEL 993M/9930M

Screw Kit for 993M: 993300-A



** Specify finish*

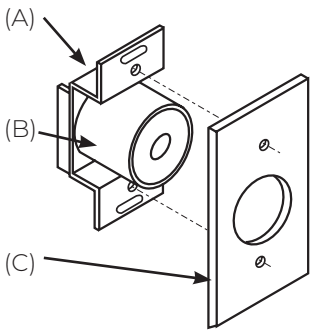
USED WITH MODELS 990M, 989

Wall Portion

(A) Magnet Bracket
990002

(B) Tri-Volt Magnet Assembly
^996219-3V

(C) Cover Plate
990001



Screw Kits

Screw Kit for 990M
990300-*

USED WITH MODELS 998M, 999M

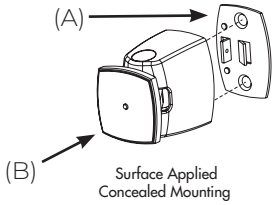
Door Portion

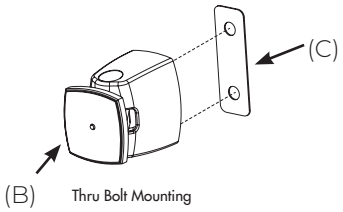
(A) Backup Plate

(B) Door Armature
998512M-*

(C) Door Plate

Note: backup plate and door plate are included in magnet screw kit





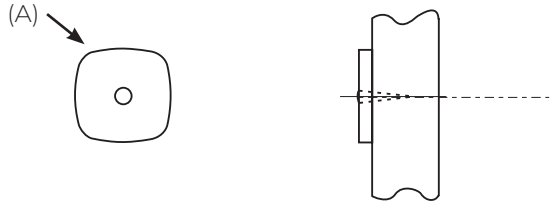
Screw Kits

See Screw Kit for 998M
998303-*

USED WITH MODEL 989

Door Portion

(A) Door Armature Attachment screw included in Kit.
444FM



^ For voltages other than Tri-Volt, contact factory

** Specify finish*

PARTS DRAWINGS

ELECTROMAGNETIC DOOR HOLDER/RELEASES

USED WITH MODEL 994M

Door Portion

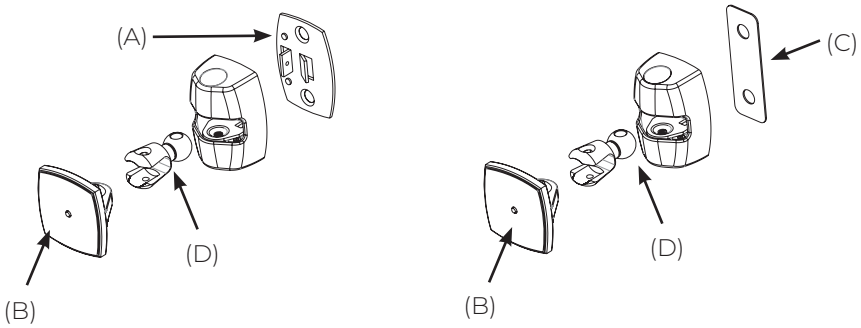
(A) Backup Plate

(B) Door Armature Assembly
994510M-*

(C) Door Plate

(D) Swivel Armature
900-3*

Note: backup plate and door plate are included in magnet screw kit

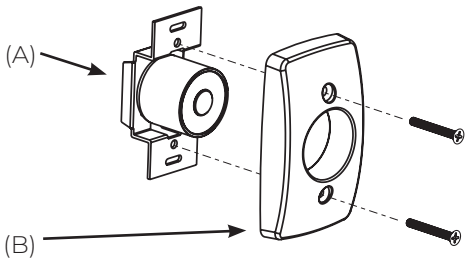


USED WITH MODELS 994M, 997M, 998M

Wall Portion

(A) Tri-Volt Magnet Assembly
998369-3V

(B) Wall Cover
998315M-*



Screw Kits
Screw Kit for
994M/997M
998300-*

Screw Kits
Screw Kit for
998M
998303-*

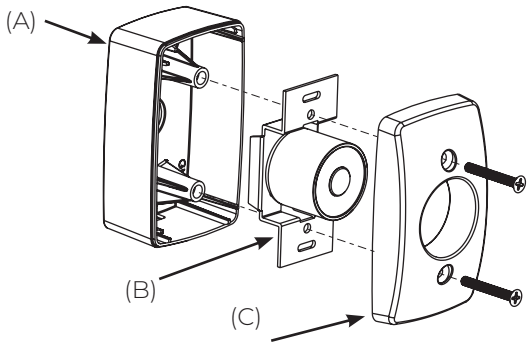
USED WITH MODEL 996M

Wall Portion

(A) Surface Mounting Box
996501M-*

(B) Tri-Volt Magnet Assembly
996369-3V

(C) Wall Cover
998315M-*



Screw Kits
Screw Kit for 996M
996325-*

^ For voltages other than Tri-Volt, contact factory
** Specify finish*

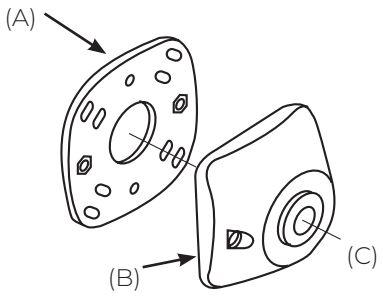
USED WITH MODEL 999M

Wall Portion

(A Base Plate
999105

(B) Wall Cover
999055-*

(C) Tri-Volt Magnet Assembly
996219-3V



Screw Kits

Screw Kit for 999M
999318-*

^ For voltages other than Tri-Volt, contact factory
** Specify finish*

NOTES

ELECTROMAGNETIC DOOR HOLDER/RELEASES

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