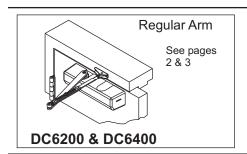
DC6200 Series Multi-Sized 1 thru 6

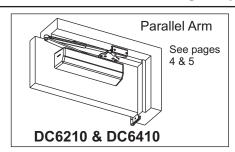
DC6400 Series Half-Size 1 thru 6

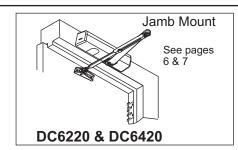


ASSA ABLOY

Universal Door Closers







IMPORTANT:

- An improperly installed or incorrectly adjusted door closer may cause property damage or personal injury; and will void product warranty.
- To avoid personal injury, DO NOT DISASSEMBLE THIS DOOR CLOSER BODY.
- Door closers must be securely fastened to a properly reinforced door and frame with fasteners provided.
- Door closers with the "A1" HOLD OPEN ARM option are not permitted to be installed in fire door assemblies.

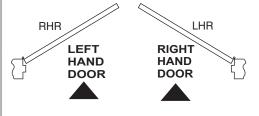
BEFORE INSTALLING:



- The Americans with Disabilities Act (ADA) requires that doors having door closers have an opening force not to exceed 5 lbf. Use standard templating for regular arm and parallel arm applications. Jamb
 - mounted applications use the template for 140° door opening to achieve the required opening force.
- The door closer's power size adjustment feature may require adjustment to its lowest setting to comply with ADA opening force guidelines.
- ADA compliant closers are: DC6200, DC6210, DC6220, DC6401, DC6411, DC6421

Size of Door & Door Closer					
Type of Installation	Interior	Exterior In-swinging	Exterior Out-swinging	Recommended Closer Size	**Max. Opening Force Ibs/f
Regular & Top Jamb	2'4" 3'0" 3'6" 4'0" 4'6" 5'0"	2'6" 3'0" 3'6" *4'0"	3'0" 3'6" 4'0" *4'6"	1 2 3 4 5	8 14 16 22 24 26
Parallel Arm	2'4" 2'6" 3'0" 3'6" 4'0" 4'6"		2'6" 3'0" *3'6" *4'0"	1 2 3 4 5 6	8 14 16 22 24 26

TO DETERMINE **HAND OF** YOUR DOOR:



*DC6400 Series Recommended

^{**}NOTE: These forces are for standard templating with bearing type hinges and do not account for pressure differentials and draft. Half size closers DC6400 are capable of being adjusted to next higher setting.

Installation Instructions

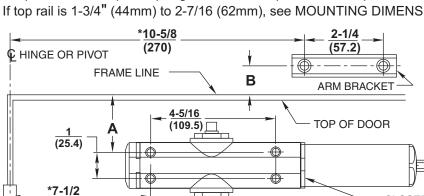
Regular Arm Application DC6200 & DC6400 Series

1. Template

Mark Door and Jamb (for closer bracket and arm bracket)

If top rail is 2-1/2" (64mm) or greater, use template FM131C provided.

If top rail is 1-3/4" (44mm) to 2-7/16 (62mm), see MOUNTING DIMENSIONS chart.



MOUNTING	DIMENSI	MIN. CLEA REQUIRED DOOR		
TOP RAIL	Α	В	NHO	НО
2-1/2" & OVER		7/8 "	1-1/2	1-11/16"
(64mm)	(25.4mm)	(23mm)	(39mm)	(43mm)
1-3/4 ["] MIN. (44mm)	5/8 ["] (16mm)	1-1/4 ["] (32mm)	1-7/8 ["] (48mm)	2-1/16 ["] (53mm)

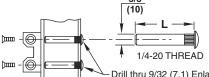
* To obtain extra closing force add 3" (77mm) to dimensions marked. This will limit degree of door opening to 110°.

MOUNTING SCREW SPECIFICATIONS

ARM AND CLOSER BRACKET

1/4-20 oval head machine screw or 1/4-14 self-drilling screw. 3/16 (4.8) diameter pilot hole required for Wood Applications.





CLOSER BRACKET

DOOR THICKNESS	SEX NUT LENGTH "L"	
1-3/8 ["] (35mm)	1-9/32 ["] (33mm)	
1-3/4" (44mm)	1-21/32" (42mm)	

Regular Arm

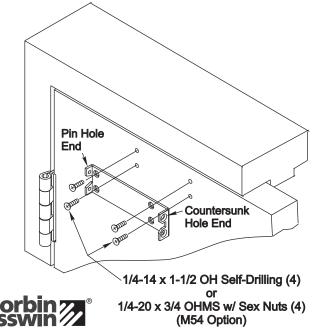
Drill thru 9/32 (7.1) Enlarge to 3/8 (9.5) Dia. This Side Only (4 Places)

NOTES:

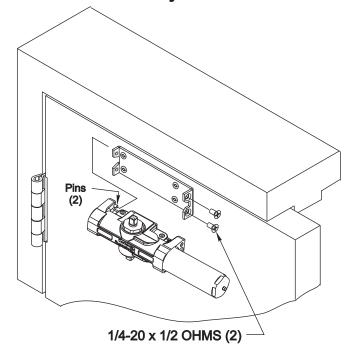
(191)

- Check hand of door, see page 1.
- Right Hand Application Shown. Left Hand Opposite.
- Dimensions given in inches (mm). Do Not Scale Drawing.
- Closer must be installed in a true horizontal plane to ensure proper closer performance.
- Door opening (up to 180°) is dependent upon door, frame, wall and hinge/pivot conditions permitting.

2. Install Closer Bracket

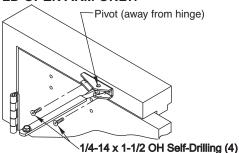


3. Mount Closer Body to Closer Bracket



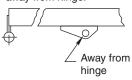
Regular Arm Application (Continued)

4a. Attach Arm Bracket to Frame **NON-HOLD OPEN ARM ONLY:**

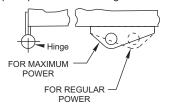


Standard Position

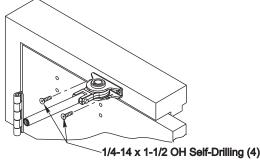
Normal mounting position. Position with pivot point away from hinge.



For Additional 15% Closing Force Reposition arm mounting bracket so that pivot point is toward hinge.

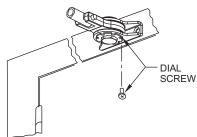


4b. Attach Arm Bracket to Frame HOLD OPEN ARM (A1 OPTION ONLY):



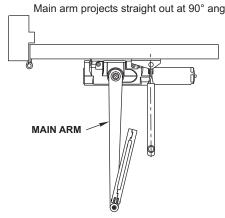
HOLD OPEN ARM: Position so that dial

screw is on UNDERSIDE of bracket



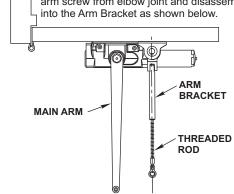
5a. Position Arm on Closer **NON-HOLD OPEN ARM ONLY:**

Main arm projects straight out at 90° angle to door.



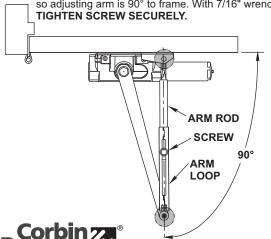
5b. Position Arm on Closer **HOLD OPEN ARM ONLY:**

Main arm projects straight out at 90° angle to door. Remove main arm screw from elbow joint and disassemble arm. Thread the rod into the Arm Bracket as shown below.



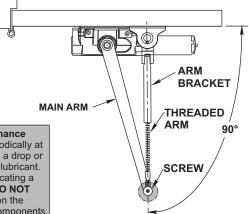
6a. Preload and Adjust Arm NON-HOLD OPEN ARM ONLY:

Open door and slide arm rod into arm loop. Close door, swing arms so adjusting arm is 90° to frame. With 7/16" wrench INSTALL and



6b. Preload and Adjust Arm HOLD OPEN ARM ONLY:

While door is closed, adjust the Threaded Arm in the Arm Bracket until the bearing fits back onto the elbow joint on the Main Arm at 90° as shown below. RE-INSTALL AND TIGHTEN SCREW SECURELY.



Extended Maintenance Lubricate Arm periodically at

shaded points with a drop or two of appropriate lubricant. NOTE: When lubricating a Hold Open Arm, DO NOT use any lubricant on the Holding Surface components

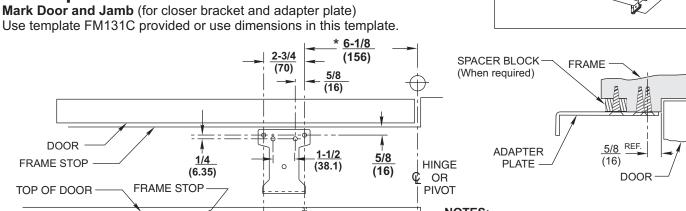
For Adjustments See Page 8

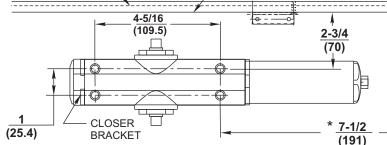
Installation Instructions

Parallel Arm Application DC6210 & DC6410 Series

1. Template

Use template FM131C provided or use dimensions in this template.





* To obtain extra closing force add 3" (77mm) to dimensions marked. This will limit degree of door opening to 110°.

when ordered

NOTES:

- Check hand of door, see page 1.
- Right Hand Application Shown. Left Hand Opposite.
- Dimensions given in inches (mm). Do Not Scale Drawing.
- Closer must be installed in a true horizontal
- plane to ensure proper closer performance. Door opening (up to 180°) is dependent upon door, frame, wall and hinge/pivot conditions permitting.

3/8 (10) MOUNTING SCREW SPECIFICATIONS ARM AND CLOSER BRACKET Option M54: 1/4-20 THREAD Sex nuts, furnished

DOOR SEX NUT THICKNESS LENGTH "L" 1-9/32" (33mm) 1-3/8" (35mm) 1-3/4" (44mm) 1-21/32" (42mm) Drill thru 9/32 (7.1) Enlarge to

Parallel Arm

2. Install Closer Bracket

1/4-20 oval head machine

screw or 1/4-14 self-drilling

screw. 3/16 (4.8) diameter

pilot hole required for Wood

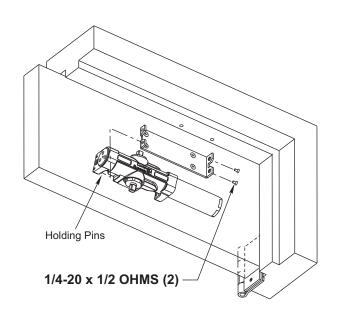
Applications.

1/4-14 x 1-1/2 OH Self-Drilling (4) 1/4-20 x 3/4 OHMS w/ Sex Nuts (4) (M54 Option) Pin Hole End Countersunk Holes assa abloy

3. Mount Closer Body to Closer Bracket

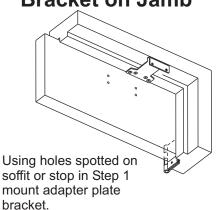
3/8 (9.5) Dia. This Side Only

(4 Places)

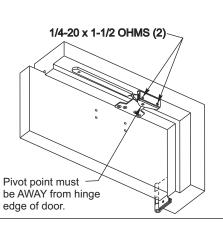


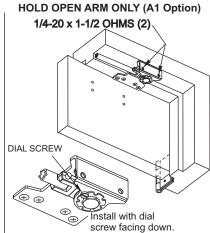
Parallel Arm Application (Continued)

4. Mount Adapter Plate **Bracket on Jamb**



5. Mount Arm Bracket NON-HOLD OPEN ARM:



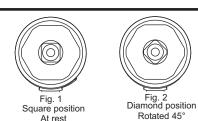


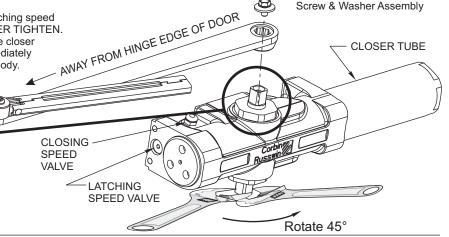
5/16 Hex Head

Screw & Washer Assembly

6. Position Arm onto Closer

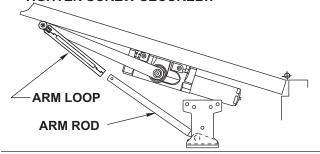
Using hex wrench provided, turn closing speed and latching speed valves clockwise until completely closed. DO NOT OVER TIGHTEN. Using wrench, turn under side of spindle 45° toward the closer tube until it reaches the diamond position (fig. 2). Immediately place arm on spindle so that it is parallel to the closer body. Install and tighten arm screw and washer assembly. Reopen valves.





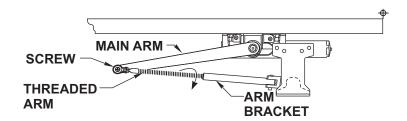
7. Connect and Position Arms

Open door and slide arm rod into arm loop. Close door, swing arms so that they form a "V" position, as in Step 8. With 7/16" wrench, INSTALL AND TIGHTEN SCREW SECURELY.



HOLD OPEN ONLY

Remove main arm screw from elbow joint and disassemble arm. Thread the rod into the Arm Bracket as shown below. While door is closed, adjust the Threaded Arm in the Arm Bracket until the bearing fits back onto the elbow joint on the Main Arm and forms a "V" as shown below. RE-INSTALL AND TIGHTEN SCREW SECURELY.



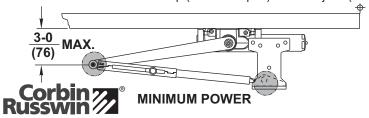
8. Power Adjustment

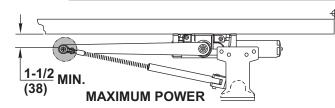
To increase the power of the closer, re-adjust the arm so it is nearer the door. To decrease power, re-adjust the arm so it is farther away from the door and then secure screw in arm loop (non-hold open) or elbow joint (hold open).

Extended Maintenance

Lubricate Arm periodically at shaded points with a drop or two of appropriate lubricant.

NOTE: When lubricating a Hold Open Arm, DO NOT use any lubricant on the Holding Surface components.





For Adjustments See Page 8

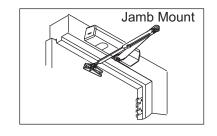
assa abloy

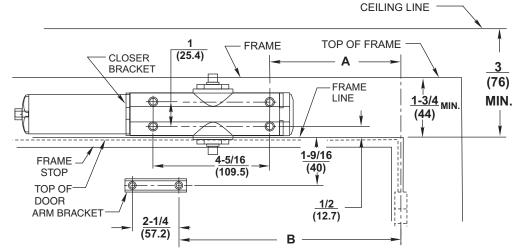
Installation Instructions

Jamb Mount Application DC6220 & DC6420 Series

1. Template

Mark Door and Jamb (for closer bracket and adapter plate) use dimensions in template below.





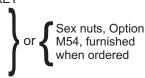
OPENING MAXIMUM	Α	В	HINGE CONDITION	
110°	8-7/8 (225)	13-3/8 (340)	o	
140°	7-3/8 (187)	11-7/8 (302)	Butts, Offset Pivots, and Swing Clear Hinges	
180°	5-7/8 (149)	10-3/8 (264)		
140°	7-3/8 (187)	11-7/8 (302)	* CENTER HUNG	

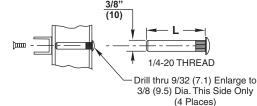
Dimensions "A" and "B" are taken from centerline of hinge as shown and apply to pivot point of swing clear hinges. Offset and centerhung pivots.

*Must be single acting door.

MOUNTING SCREW SPECIFICATIONS

ARM AND CLOSER BRACKET 1/4-20 oval head machine screw or 1/4-14 self-drilling screw. 3/16 (4.8) diameter pilot hole required for Wood Applications.



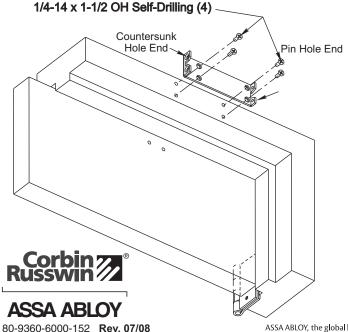


DOOR THICKNESS	SEX NUT LENGTH "L"	
1-3/8 ["] (35mm)	1-9/32 ["] (33mm)	
1-3/4 ["] (44mm) & OVER	1-21/32 ["] (42mm)	

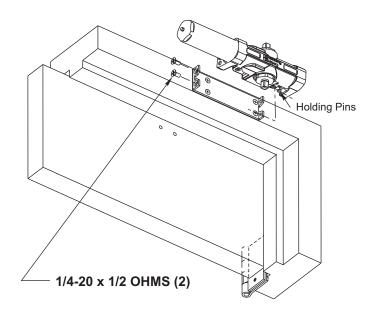
NOTES:

- Check hand of door, see page 1.
- Right Hand Application Shown. Left Hand Opposite.
- Dimensions given in inches (mm). Do Not Scale Drawing.
- Closer must be installed in a true horizontal plane to ensure proper closer performance.
- All degrees of door opening are dependent upon door, frame, wall and hinge/pivot conditions permitting.

2. Install Closer Bracket to Jamb

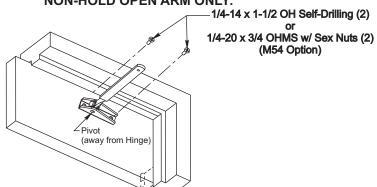


3. Mount Closer Body to Closer Bracket



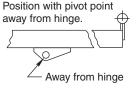
Jamb Mount Application (continued)

4a. Attach Arm Bracket to Door **NON-HOLD OPEN ARM ONLY:**



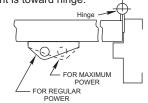
Standard Position

Normal mounting position. Position with pivot point



For Additional 15% Closing Force

Reposition arm mounting bracket so that pivot point is toward hinge.



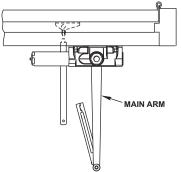
4b. Attach Arm Bracket to Door **HOLD OPEN ARM (A1 Option):**

1/4-14 x 1-1/2 OH Self-Drilling (2) 1/4-20 x 3/4 OHMS w/ Sex Nuts (2) (M54 Option) FRAME STOP

> DIAL **SCREW**

5a. Position Arm on Closer NON-HOLD OPEN ARM ONLY:

Main arm projects straight out at 90° angle to door.



5b. Position Arm on Closer **HOLD OPEN ARM ONLY (A1 Option):**

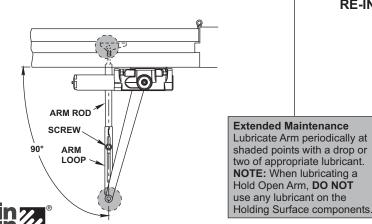
Install with dial screw

facing down

Main arm projects straight out at 90° angle to door. Remove main arm screw #ZOP! from elbow joint and disassemble arm. Thread MAIN ARM the rod into the Arm Bracket as shown below. ΔRM BRACKET THREADED ROD

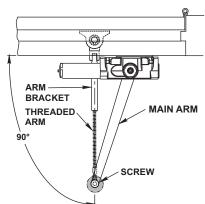
6a. Preload and Adjust Arm NON-HOLD OPEN ARM ONLY:

Open door and slide arm rod into arm loop. Close door, swing arms so adjusting arm is 90° to frame. With 7/16" wrench, INSTALL and TIGHTEN SCREW SECURELY.



6b. Preload and Adjust Arm **HOLD OPEN ARM ONLY (A1 Option):**

While door is closed, adjust the Threaded Arm in the Arm Bracket until the bearing fits back onto the elbow joint on the Main Arm at 90° as shown below. RE-INSTALL and TIGHTEN SCREW SECURELY.



For Adjustments See Page 8

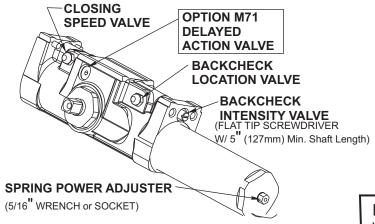
Spring Power Adjustment

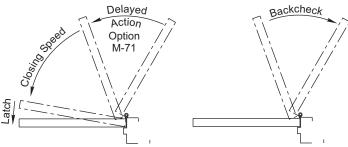
Locate spring power adjuster from Illustration below DC6400 Half Size Adjustment as Desired DC6200 Size 1 thru 6 Adjustment See Chart

DC6200 SPRING POWER ADJUSTMENT CHART

- All DC6200 closers are factory set at an approximate Size 3.
- Adjust closer as necessary for door size using this chart.
- Readjustment may be required to suit prevailing conditions.

	Size of Do	No. of Full	Equivalent	
Interior	Exterior In Swing	Exterior Out Swing	(360°) Turns Clockwise of Power Adjuster	Closer Size (Approx.)
2 ['] 4 ^{''} (712)	2 ' 6" (764)		4	2
2 6" (764)	3 ' 0" (915)		8	3
3 ['] 0 ^{''} (915)	3 ' 6" (1067)	2 ' 6" (764)	12	4
3 ['] 6 ^{''} (1067)	4 ' 0" (1219)	3 ' 0" (915)	16	5





Closing Speed Valve (3/32 Allen Wrench Provided)

To adjust speed of door closing from fully open to a position 2" to 5" from closed, turn Closing Speed Valve CLOCKWISE to SLOW closing, COUNTER-CLOCKWISE to SPEED closing.

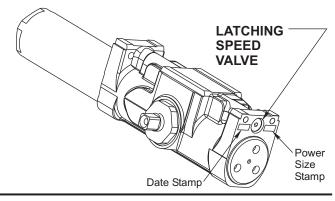
Latching Speed Valve (3/32 Allen Wrench Provided)

After closing speed has been obtained, turn latching speed valve CLOCKWISE to SLOW latching or COUNTER-CLOCKWISE to SPEED latching for last 2" to 5" of door travel.

NOTE: Set combination of CLOSING and LATCHING speeds to between 3 and 7 seconds Use of door by handicapped, elderly or small children may require even greater closing time.

Delayed Action Valve (3/32 Allen Wrench Provided)

Turn valve CLOCKWISE to SLOW closing, COUNTER-CLOCKWISE to SPEED closing. Delayed action may be adjusted from 20 seconds to 90 seconds, depending on degree of door swing. Delay occurs at the beginning of the door closing cycle from fully open down to 70°, where the closing speed valve then begins its control.



Backcheck Location Valve (3/32 Allen Wrench Provided)

Valve is closed, as shipped, from factory. To increase the degree of door opening where backcheck takes effect, turn valve counter-clockwise.

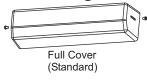
VALVE	Regular Arm	Parallel Arm	Jamb Mount
CLOSED	60°-65°	65°-70°	70°-75°
OPEN	85°-90°	95°-100°	90°-95°

Degrees shown are approximate

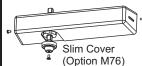
Backcheck Intensity Valve

Turn valve COUNTER-CLOCKWISE to reduce backcheck or CLOCKWISE to increase backcheck. (Backcheck should be set to give a soft cushioning action, not a sudden stop.)

Installing Cover



Slip cover over closer. Hold tightly against closer mounting surface. Secure on each side with 6-32 x 1/4" PBHMS screws.



Slim Cover Option M76 only Position spindle cap over unused spindle and secure with 10-32 X 3/8 PTHMS screw.

To Adjust Hold Open (A1 Option)

Open the door to desired position and tighten the hold open screw firmly (For RH application, turn screw on underside CLOCKWISE. For LH application, turn screw COUNTER-CLOCKWISE.) Place the hold open dial over the hex head of the bracket screw so that one of the slots in the dial is directly over small screw hole tapped in bracket. Seat the dial tightly over the bracket. INSERT DIAL SCREW AND TIGHTEN SECURELY.





