Trident & Trident MD™

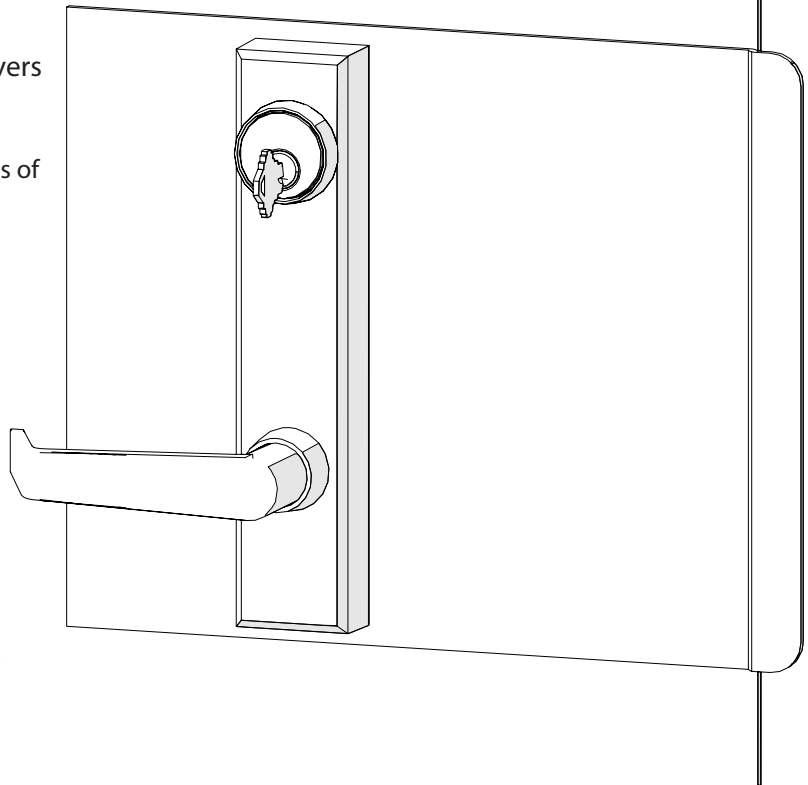## INSTALLATION INSTRUCTIONS:
TEL-KLT-AP

KEYED LEVER TRIM ON FULL ANTI-PRY PLATE FOR SELF-RELOCKING MODELS

Use with Series: TRIDENT SERIES MODELS

Tool(s) Required: Hex key (#1/8", #5MM)
Phillips head screw drivers
Nut drivers
Drill with drill bits*
*see templates for all sizes of drill bits needed

Damage caused by misuse of power tools is not covered under Warranty.

Before beginning the installation:
- Check that everything in the parts list was received. Parts received may be slightly different from parts shown in instructions. Please refer to packing list for details on parts and fasteners received.
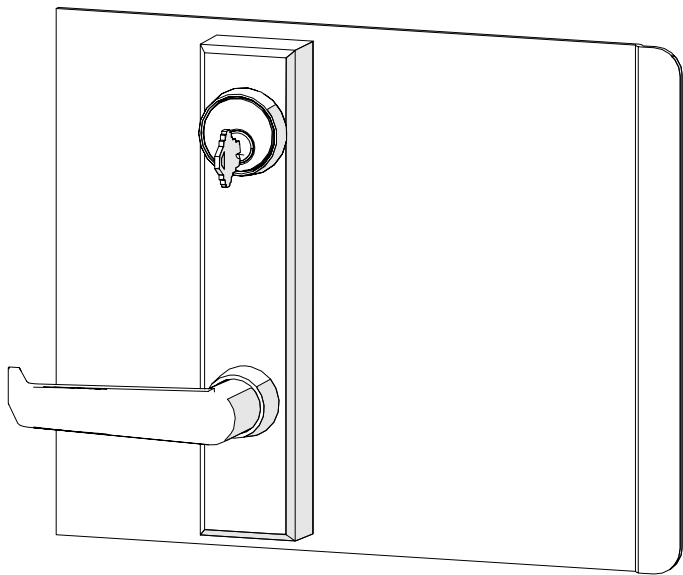- Read all of the installation instruction steps.

Questions? Please call Tech Support
718-392-9000

SECURITECH®

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718-392-9000

A. TEL-KLT-AP OVERVIEW
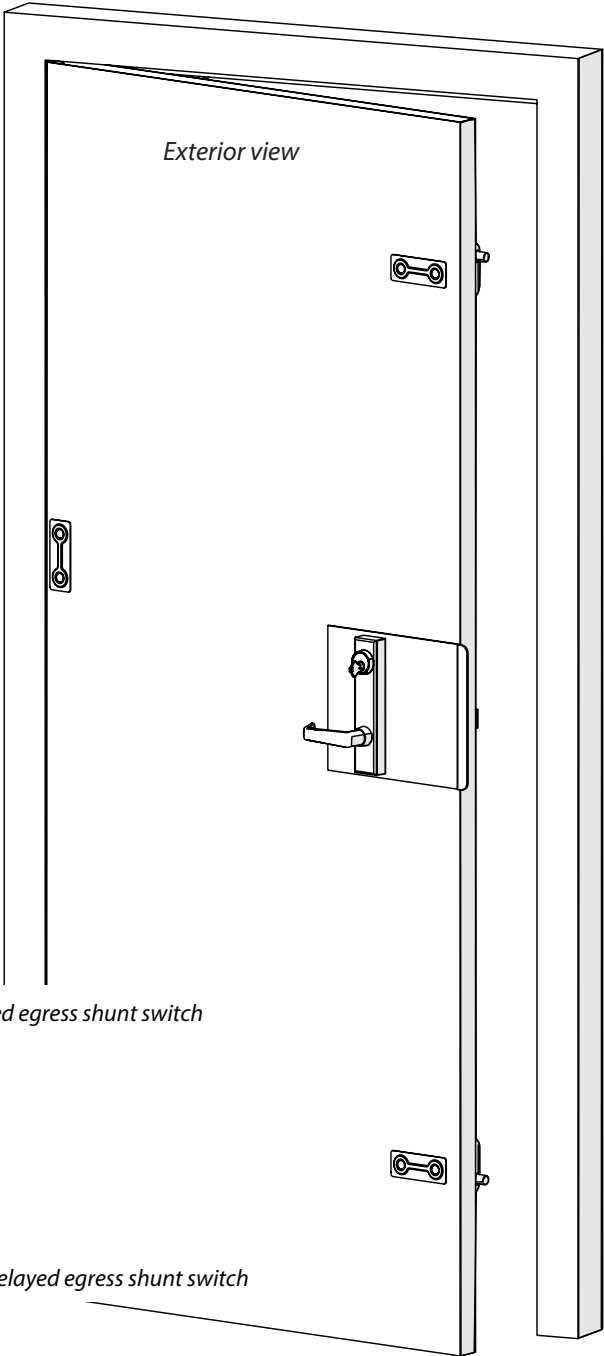
Exterior view

TRIDENT TEL-KLT-AP Features:

- *Key or electric release models to tie into access control systems or remote release option available on all models*
- *Frangible (break-off) lever (not available for G3 - Tubular lever)*
- *ADA Compliant*

Trims for self-relocking Tridents on full anti-pry plate:

TEL-KLT-AP	*Keyed lever trim*
TEL-KDT-AP	*Keyed lever trim with 24 VDC release (Fail-Secure)*
TEL-KRT-AP	*Keyed lever trim with 24 VDC release (Fail-Safe)*
TEL-KLST-AP	*Keyed lever trim w/delayed egress shunt switch*
TEL-KDST-AP	*Keyed lever trim with 24 VDC release (Fail-Secure) w/delayed egress shunt switch*

Trims for self-relocking dispensary Tridents on full anti-pry plate:

TEL-MD-KLT-AP	*Keyed lever trim*
TEL-MD-KDT-AP	*Keyed lever trim with 24 VDC release (Fail-Secure)*
TEL-MD-KRT-AP	*Keyed lever trim with 24 VDC release (Fail-Safe)*
TEL-MD-KLST-AP	*Keyed lever trim w/delayed egress shunt switch*
TEL-MD-KDST-AP	*Keyed lever trim with 24 VDC release (Fail-Secure) w/delayed egress shunt switch*

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B. CYLINDER REQUIREMENTS, PREPARATION AND INSTALLATION

IMPORTANT: Failure to follow cylinder and cam installation procedure may cause lock failure. Using cams that are not listed, or exact equals, may cause lock failure and void warranty.

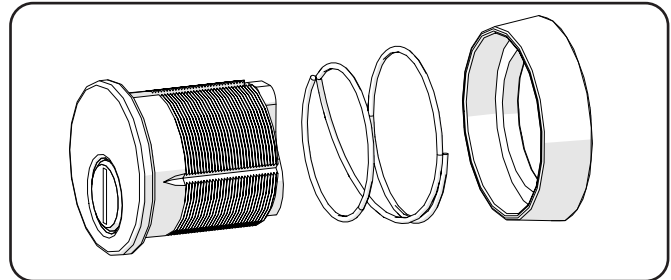| *CLOVERLEAF CAM:*		• *Ilco: 863S*		• *Best: C161* • *Ilco: R2800S#3-00-10*		• *Ilco: 863D*

CYLINDER PREPARATION
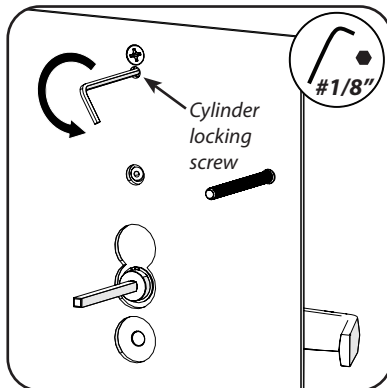
MORTISE CYLINDER:
Thread size: 1.150 x 32 UNS
Length: 1", 1-1/8", 1-1/4" or 1-3/8"
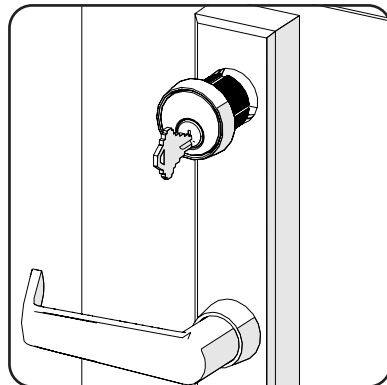Insert mortise cylinder and coil spring into cylinder collar.

CYLINDER INSTALLATION
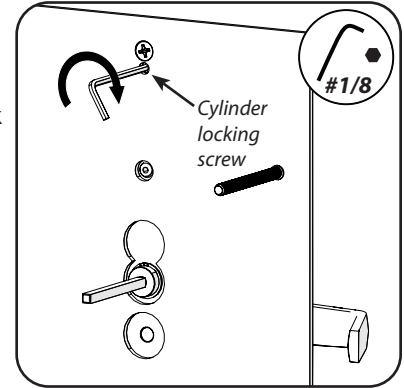
1 Insert hex key (1/8") into cylinder locking screw and rotate counter-clockwise to loosen cylinder locking arms.

Cylinder locking screw

#1/8"

3 Insert hex key (1/8") into cylinder locking screw and rotate clockwise to lock cylinder in place. Jiggle cylinder clockwise/ counter-clockwise to be certain that cylinder locking arms are fully seated into cylinder slots.


Cylinder locking screw

#1/8

2 Install cylinder with coil spring and collar into exterior trim by partially inserting key into cylinder and rotating cylinder clockwise into the trim until it bottoms out against the trim back plate. Then rotate counter-clockwise one full rotation to back cam away from back plate.

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C. DOOR PREPARATION

1) NEW INSTALLATION

1 Follow instructions on the trim template to mark and drill all holes for mounting the trim.

Exterior view

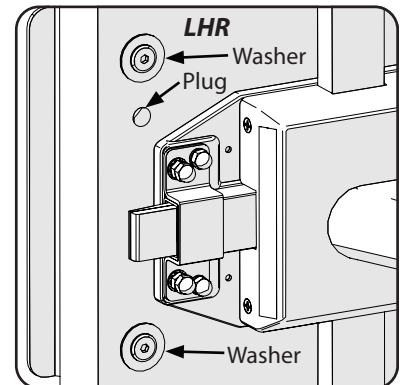*LHR shown*
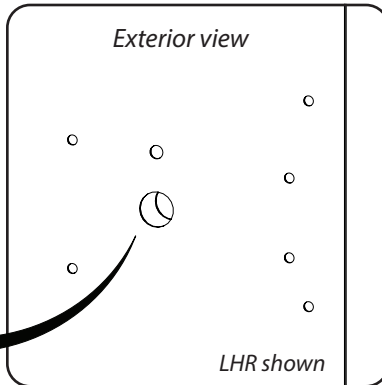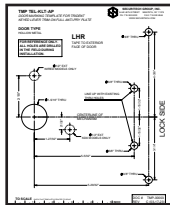
2) ADDING TRIM TO EXISTING INSTALLATION

1 Remove mechanism and anti-pry plate from the door. Exterior spindle hole should be already drilled from mechanism installation. If spindle hole is not drilled, follow instructions on trim template.
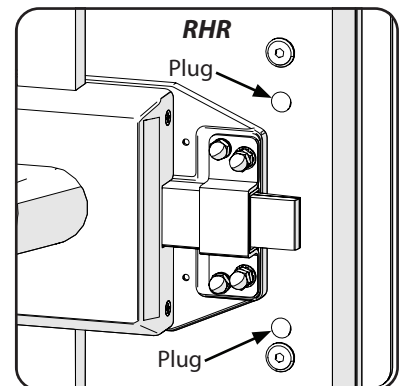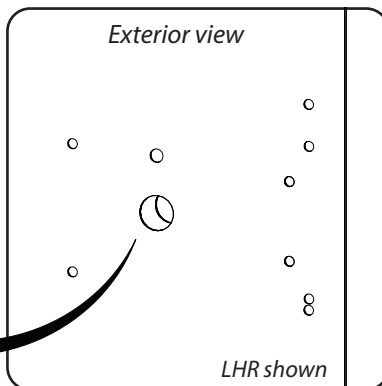
Exterior trim spindle hole
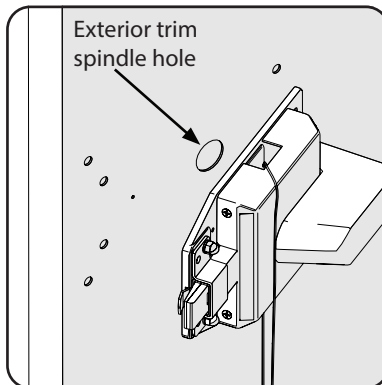
NOTE: Two of the mounting holes for trim are different than previously installed anti-pry plate. Cover holes on interior using following parts:

For LHR:
(2) flat washers and (1) 3/8" hole plug

For RHR:
(2) 3/8" hole plugs.

LHR
Washer
Plug
Washer

2 Follow instructions on the trim template to mark and drill all holes for mounting the trim.

Exterior view

LHR shown

RHR
Plug
Plug

Call Tech Support for questions: 718-392-9000
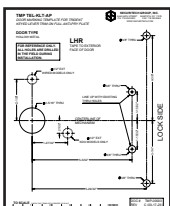
D. SETTING THE SPINDLE

IMPORTANT: Spindle must be set properly before mounting trim.

1 Hold trim in orientation shown. Manually turn the spindle by hand clockwise until stopped. Make sure spindle is on the square, not on the diamond.
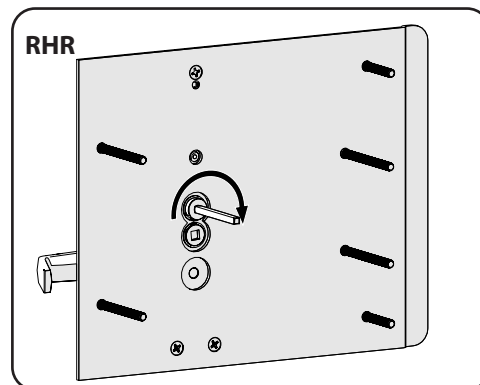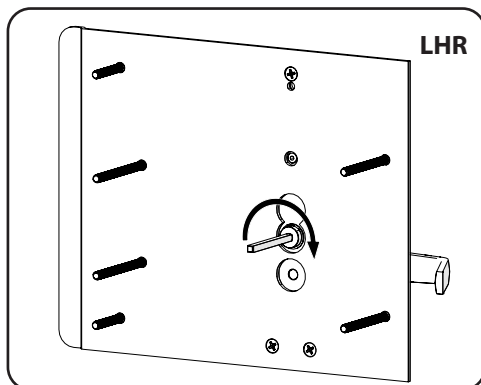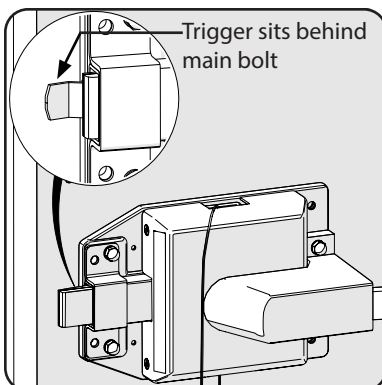
SPINDLE ORIENTATION

Correct   *Incorrect*

LHR   RHR

IMPORTANT: If spindle does not land on the square, call Securitech.

E. TRIM INSTALLATION

1 Extend main bolt by pressing trigger prior to installing the trim.

Trigger sits behind main bolt

3 Align trim so the spindle fits into hub and posts on plate fit into holes on mechanism.

2 If wired, connect the wiring from trim to power transfer.

NOTE: Make sure that the wires don't get pinched between the trim and the door.

4 Secure trim to mechanism. At the front side of the mechanism, secure trim posts with (2) flat washers, (2) acorn nuts, and (2) K-lock nuts.

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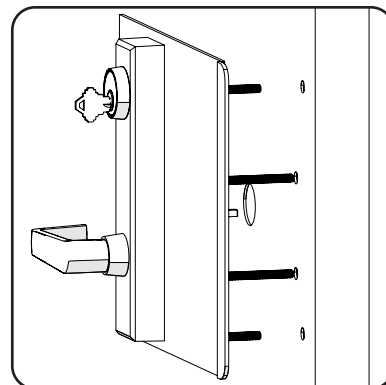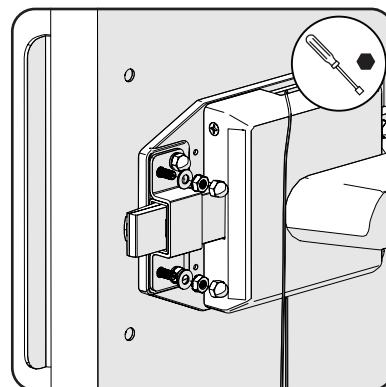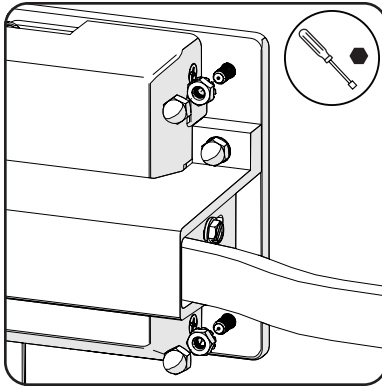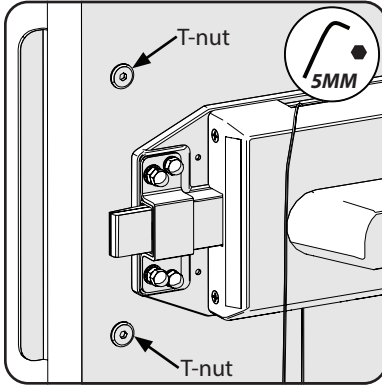**5** At rear side of mechanism, secure trim posts with (2) acorn nuts and (2) K-lock nuts.

7 Check that exterior trim lever can smoothly retract main bolt after it is unlocked by key. To test again, relock the door.
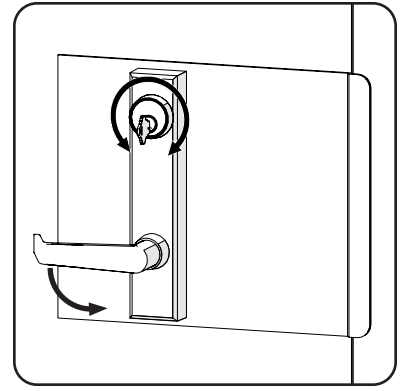
6 Secure remaining trim posts with (2) T-nuts by the edge of the door.

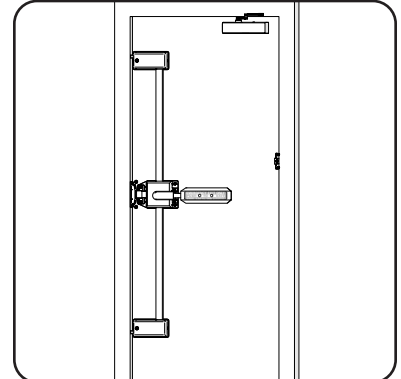***NOTE: Do not overtighten. A compressed door can cause mechanism to fail.***
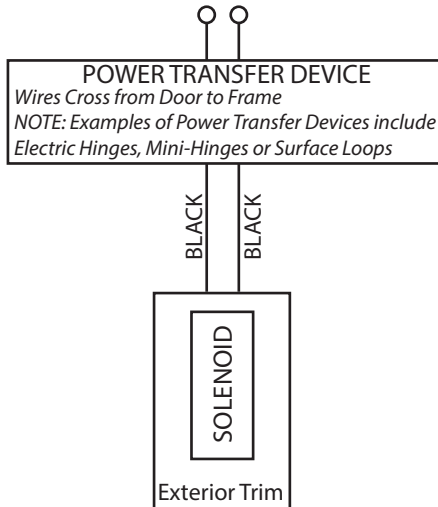
T-nut

5MM

T-nut

8 If new installation, continue with installation of top and bottom bolt modules.

If adding trim to existing installation, re-install parts previously taken off the door.

F.   WIRING INFORMATION

KDT/KRT MODELS

POWER TRANSFER DEVICE
Wires Cross from Door to Frame
NOTE: Examples of Power Transfer Devices include Electric Hinges, Mini-Hinges or Surface Loops

BLACK   BLACK

SOLENOID

Exterior Trim

KDST/KLST MODELS*

POWER TRANSFER DEVICE
Wires Cross from Door to Frame
NOTE: Examples of Power Transfer Devices include Electric Hinges, Mini-Hinges or Surface Loops

KDST
BLACK
WHITE } SOLENOID

RED
GREEN } SHUNT SWITCH
4-Conductor Cable

KLST
RED
GREEN } SHUNT SWITCH
2-Conductor Cable

* see additional wiring diagram and alarm instructions for applicable wiring information
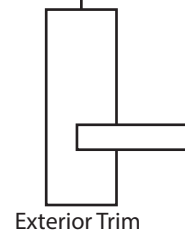
Requires ***TEL-TCH*** (armored cable for electrified trim that includes alarm signal)

Exterior Trim

COMPONENT	POSITION	RESISTANCE	CURRENT
Solenoid DC 24V	Exterior Trim	90-105 Ohms	.300 Amps
Solenoid AC 24V	Exterior Trim	3.4-4.8 Ohms *30 V-A Transformer	2 Amps

| COMPONENT	POSITION	MAX CONTACT RATINGS:	
Shunt Switch	Exterior Trim	3 Amps at 125VAC	

Note: when selecting wire gauge, comply with NEC sections 210.19(A), 215.2, and 230.42(A).

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G. OPERATING INSTRUCTIONS

1 Insert key into cylinder and rotate either clockwise or counter-clockwise to release lever.
Note: Models with electric release function can also release lever by application of appropriate power from access control.
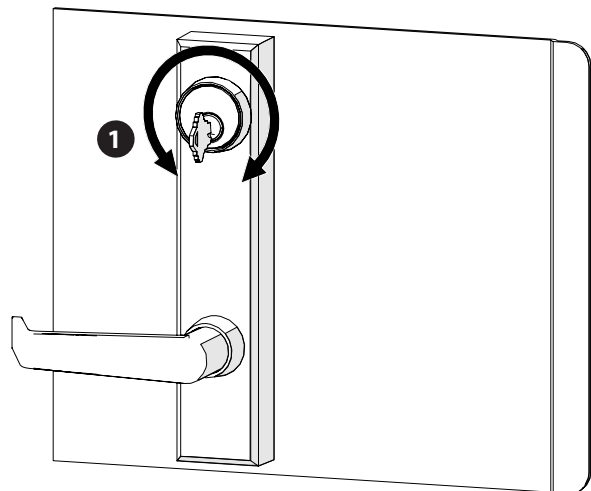
2 Rotate lever handle to retract bolts, and pull the door open. Return the key to the center position and remove it.

3 Release lever handle upon entering.

4 Allow door to close and relock automatically.

IMPORTANT: The lock will relock automatically. Do not use the emergency exit paddle to pull the door closed. Damage may occur. Please add a door pull if needed (supplied by others).
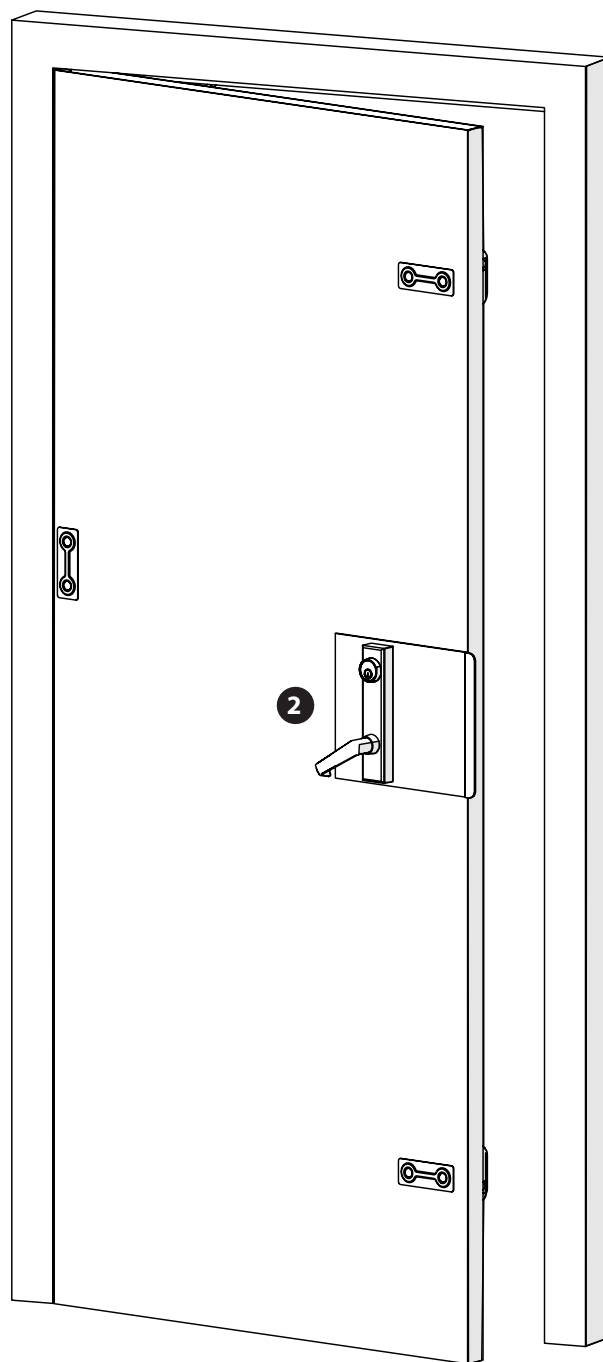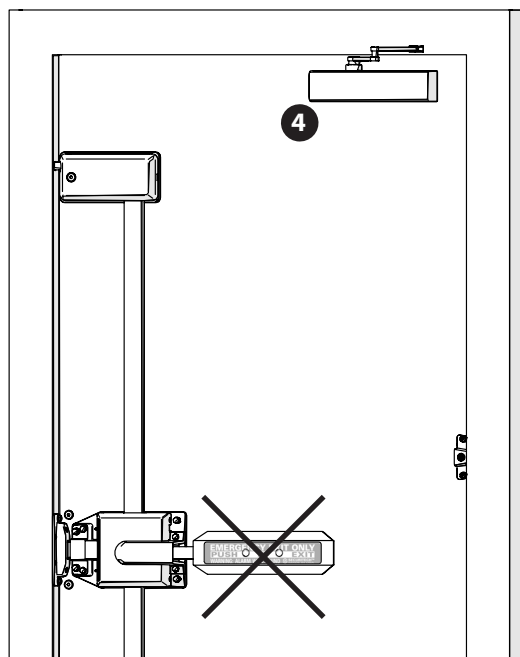
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H. MAINTENANCE INFORMATION

MAINTENANCE:
All products must be installed in accordance with the instructions and templates and by employing professional good trade practices or the warranty shall be void.

RECOMMENDED METHOD FOR CLEANING:

Powder-coated surfaces:
Use a mild soap and water with a soft cloth or brush to clean powder-coated surfaces. Avoid using hard abrasives, such as wire brush, steel wool, or scouring powder. Avoid using harsh chemical cleaners, such as solvents or petroleum-based cleaning products. Before using any cleaner, first try cleaning a small test area.

Satin stainless steel:
Use a non-chlorinated stainless steel cleaner (such as SSC, Surfox or similar) and a soft cloth. Any cleaner safe for glass is usually safe for stainless steel. Light surface rust can be easily removed by rubbing the surface with a brass, silver or chrome cleaner. Irreversible pitting will develop under rust that remains on stainless steel for extended period of time. Never clean with mineral acids or bleaches.

LOCKSETS AND EXIT DEVICES:
Lever trims/exit devices are designed for life safety first. Securitech lever trims/exit devices are built to require minimal maintenance; however factors such as installation, severity of use, environmental conditions, and changes in the door opening may require that maintenance and/or adjustments be performed.

The following steps are recommended to the building owner to ensure proper operation:
- Check that exposed screws are tight.
- Check lockset and lever trims/exit devices for smooth operation periodically.
- Check strikes and deadbolts to ensure they are secure and properly aligned.
- Check deadbolt and other moving parts for binding or sluggish operation due to dirt or chemical buildup. Check strikes for debris.
- Clean parts according to aforementioned cleaning methods. Supplied products are factory lubricated with white lithium grease and red high pressure lubricants. Do not use petroleum-based lubricant since it can dissolve grease. Lightly spray PTFE lubricant on moving parts including the trigger assembly (if applicable). Do not over lubricate.

FREQUENCY:
The procedures mentioned above need to be carried out as often as is necessary to prevent deterioration in the installed environment, however we recommend the following minimum frequency of inspection:
- General environments: Every 3 months
- Marine and industrial environments: Every 2 months

A record of preventive maintenance and cleaning must be maintained and submitted with any warranty claims or service requests.

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