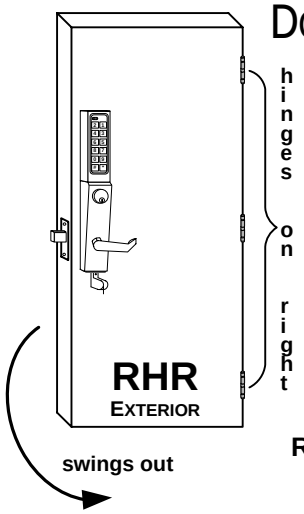
Installation Instructions
P*E*D*S CENTURION 81L55-DX

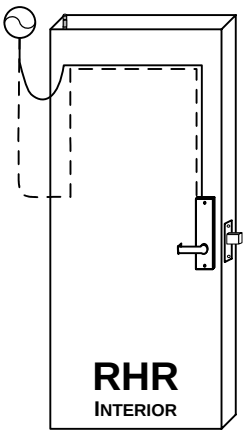
54-45 44th Street, Maspeth, NY 11378 (800) 622-LOCK (718) 392-9000 fax: (718) 392-8944 www.securitech.com

DX not shown with Backplate

DOOR LOCATION & PATHWAY

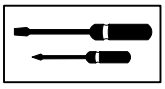


This product features a digital keypad which requires low-voltage electricity to be provided by either the PT: Plug-in Transfomer option or the DP: Direct Power Supply option. Whichever option you have, *do* consider where you will be bringing the wiring from and how traffic will run through the area around the door. Try to plot a path from an electrical source to an area near the upper hinge side of the interior face of the door. (See WIRING page for details.)



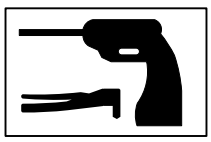
Right **H**and **R**everse shown in instructions

REQUIRED TOOLS

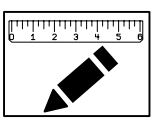


#2 Phillips head screwdriver
Large flathead screwdriver

5/64" allen key wrench
9/64" allen key wrench
3/16" allen key wrench



Drill bits for the following holes:
1/8, 9/64, 3/16,1/4, 1/2, 3/8, 5/8, 3/4, 7/8", 1" #29 bit (center punch option.)
Pop Rivet Gun with 5/32" nosepiece



Tape measure
Marking pencil / crayon
Locktite (blue)

DOOR PREPARATION (HOLLOW METAL)

Installation of this product is recommended for hollow metal doors factory-prepared in accordance with A.N.S.I. 115.1 standard mortise lock door and frame prep.
Refer to Template TMP8155-DX to further prep the door for mounting interior and exterior trim.

CHECKLIST

- Are the lock mounting tabs centered & tapped for 12-24 screws?
- Is the lock box at the proper depth (4¼" from bevel to back of lock body)?
- Has a 4 7/8" strike prep been cut in the frame?
- Is the gap between the door & the frame 3/16" or less on the lock side?
- Have all burrs and metal filings been cleaned away before installation (as these pieces can fall into the lock mechanism body and cause damage)?

CENTURION DX TRIM - DOOR PREPARATION & MORTISE INSTALLATION

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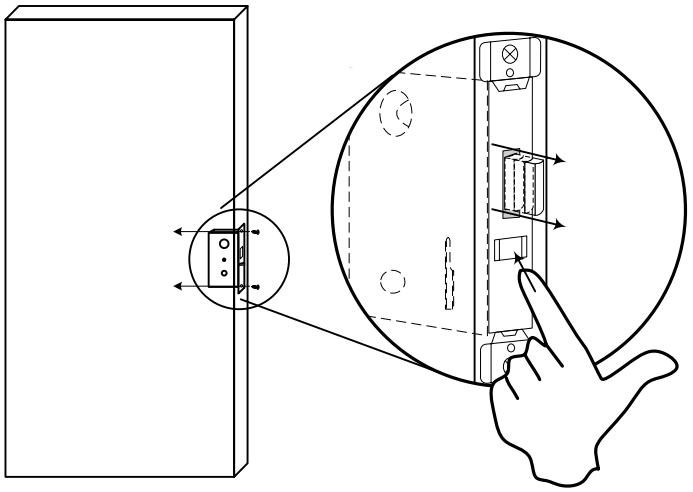
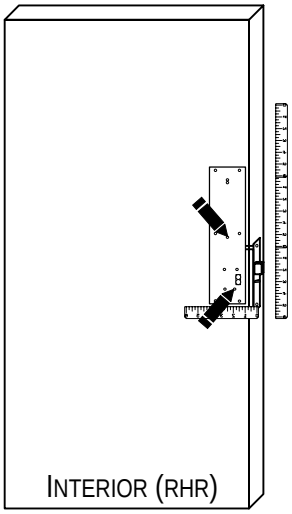
If your door has been prepped, you should have a 1" hole drilled through the door. **This 1" spindle hole must be completely drilled through before proceeding.** *Skip to Step 2 ONLY if this hole is on both faces of the door.*

If your door has not already been prepped, use the enclosed Door Marking Template (Step 1 ONLY) to mark and drill the 1" spindle hole ONLY.



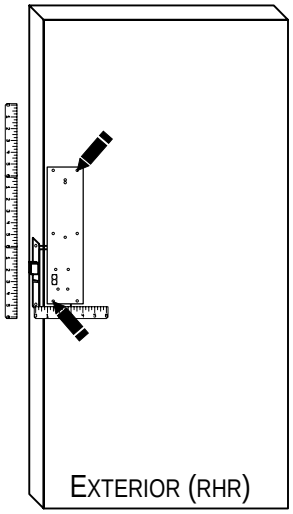
Using a 5/64" allen key, remove the face plate and/or other trim from the mechanism. Insert the mechanism into the mortise opening and fasten it with two (2) 12-24 screws. Press the trigger to throw the deadbolt.



INTERIOR (RHR)

a) Insert the spindle into the steel marking template, then into the spindle hub opening, from the interior face of the door. **Make sure the side of the template is parallel to the edge of the door**, i.e. the top and bottom holes lie along a straight line. Mark the centers of all holes to be drilled.
If your door was prepped, just compare the holes on the template to those which were hollow-metal prepped and make adjustments as necessary.

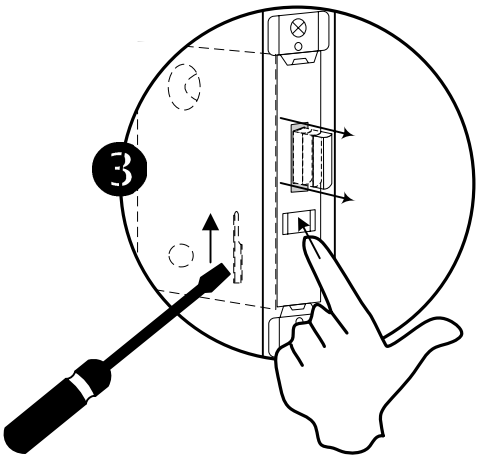
b) Repeat for the exterior of the door, flipping the metal plate over. Be sure to match up the correct holes, and again make sure the template is parallel to the edge of the door.



EXTERIOR (RHR)

Remove the mechanism.
Drill pilot holes on or through the door.
Resize all holes as needed (see chart to right).

Don't forget to smooth off any stray filings or burrs.



When the mechanism is securely fastened, depress the trigger and throw the bolt.

Make sure the deadbolt is in the retracted position. (Use a large flathead screwdriver in the lifter hole.) Insert the lock into the mortise opening again and fasten with two (2) 12-24 screws and some Loctite (blue) for good measure.

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8000 SERIES AUTOBOLT INTERIOR LEVER INSTALLATION

JACK NUT INSTALLATION

Jack Nuts provide a secure method of fastening objects to HM Doors.

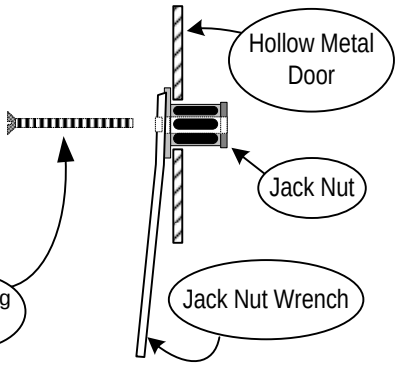


FIGURE 1

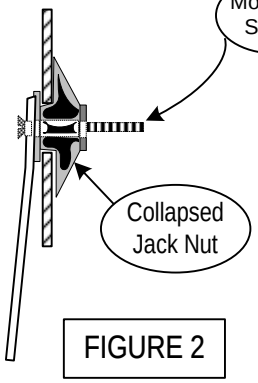


FIGURE 2

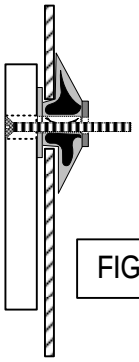
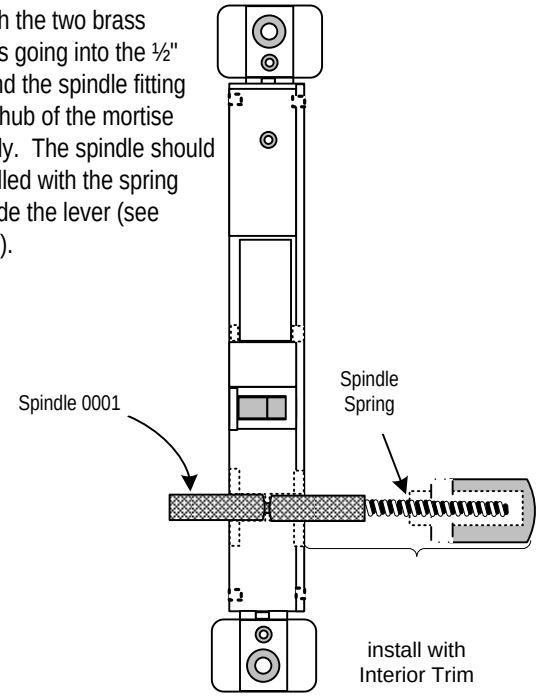


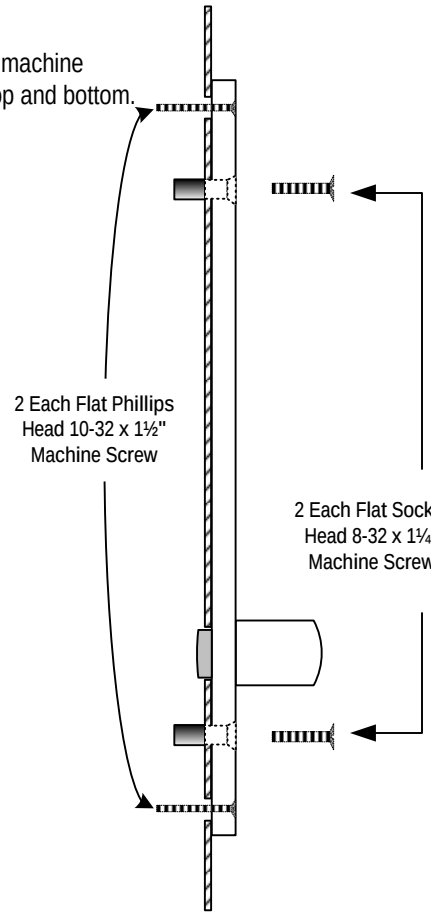
FIGURE 3

1) Install JACK NUT by inserting into predrilled hole.
2) Using the JACK NUT WRENCH, apply pressure to the outside collar of the Jack Nut so it does not spin.
3) Insert SCREW and continue to tighten until the Jack Nut collapses and brings the nut back towards the skin of the door.
4) Once it is completely tight, remove the screw.
5) Attach the item to be secured by reinserting screw.

Place the interior trim on the door with the two brass bushings going into the ½" holes and the spindle fitting into the hub of the mortise lock body. The spindle should be installed with the spring end inside the lever (see diagram).



Fasten with two machine screws on the top and bottom.



Side View: 8INTLEV-LR Trim

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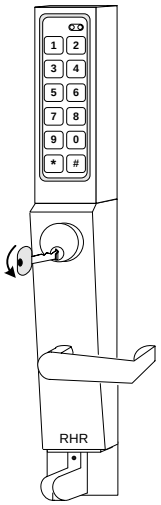
CENTURION (DX) TRIM: EXTERIOR TRIM INSTALLATION

A Note Before Wiring



This product features a digital keypad which requires low-voltage electricity. Before installation you should have considered where you will be bringing the wiring from and how traffic will run through the area around the door. A path from an electrical source to an area near the upper hinge side of the interior face of the door should have been plotted.

Running the wiring

It is recommended that the wiring be routed **through the door** to a power transfer hinge or cord. You may also use the enclosed armored cable and brackets to run the wiring **along the surface** of the door.

Power source

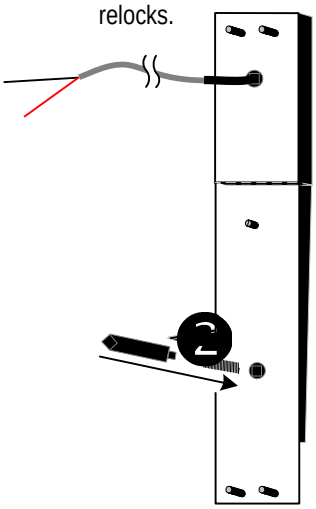
Either the Plug-In Transformer (PT) or the Direct Power (DP) supply may be used to bring power to the lock.

If you are using the PT, then it is connected by wire to a junction box above the hinge side of the door. If you are using the DP, you have the option of routing your conduit to the junction box or directly to the frame.

Changing the cylinder. If you need to, this is a good time to change the cylinder from the factory-supplied one to your own. Refer to "Cylinder Change" sheet for instructions. NOTE: you may have to use a flathead screwdriver instead of an Allen wrench.

Testing the lever. To prep the exterior trim for mounting, first ensure that the UG Lever Handle is working properly.

Turn the key counterclockwise until it stops. Hold the key and pull down the UG Lever handle. Release the key and lever; make sure that the lever handle springs back and relocks.



Mounting the Trim.

Before you begin make sure there are no burrs on the face of the door.

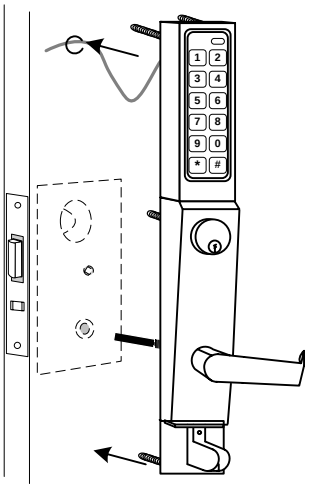
a) Install the spindle and spring assembly into the trim.

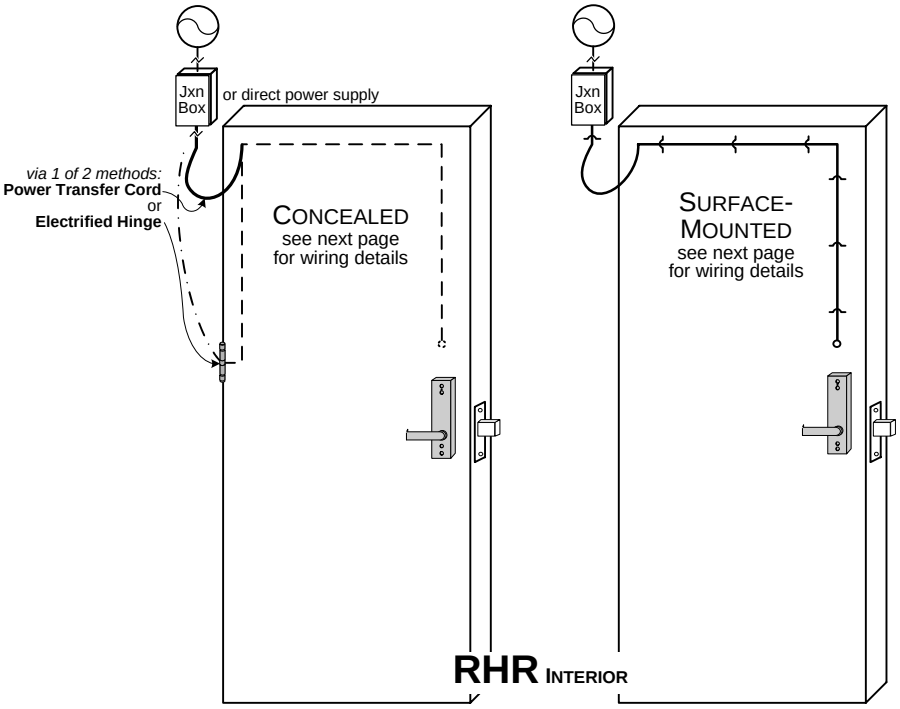
Take the wiring from the back of the Centurion trim and route it through the upper 1/2" hole on the exterior face of the door.

Surface Mounted Wiring: thread the end of the wiring back out the 1/2" diameter hole on the interior face.

Concealed Wiring: thread the wiring along a vertical gap up the side of the door and bring it across the inverted U-channel at the top of the door. Then route the wiring down along the hinge edge and connect to the electrified hinge, making sure to ***observe polarity.***

Make sure the wire is not pinched anywhere along the routing.

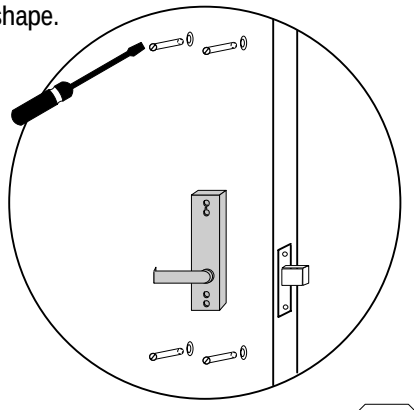




b) Insert spindle into center of mechanism. Make sure it is level, not crooked. Slide the Centurion unit into the door.

Fasten the Centurion unit to the door with the four (4) slotted head caps using a large flathead screwdriver.

Take care not to pinch the wiring as you secure the trim, and **do not squeeze the door out of shape.**



WIRING INSTRUCTIONS
DX2 Models

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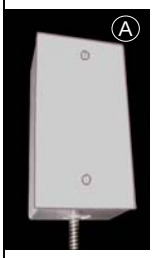
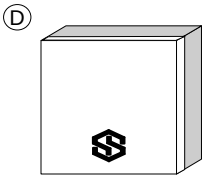
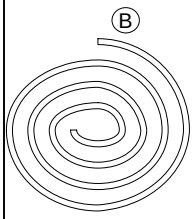
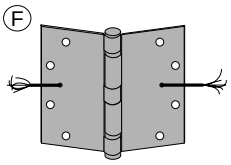
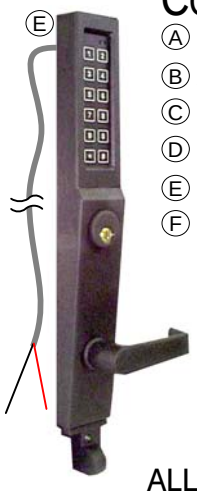










COMPONENTS

Ⓐ	Junction Box (JBOX)	Single Gang Box, Cover, 2 Cover Screws
Ⓑ	Armored Cable (CABLE)	7' length, 5/16" diameter, Straps & Screws
Ⓒ	Plug-In Transformer(PT)	6' wire; 110/120vAC input, 24vDC output
Ⓓ	Direct Power Supply (DP)	Requires 110/120vAC direct connection
Ⓔ	DX2 Centurion Trim	8' lead with 2-conductor wire
Ⓕ	Electrified Hinge (EH4)	4-1/2" square with leads

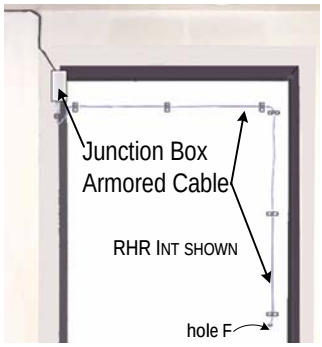
POWER SOURCE

Either the Plug-In Transformer (PT) or the Direct Power (DP) supply may be used to bring power to the trim. A Junction Box (JB) is provided to help keep wiring connections.

ALL WARRANTIES ARE VOID IF POLARITY IS NOT FOLLOWED.

USING A PLUG-IN TRANSFORMER Ⓐ Ⓑ Ⓒ Ⓔ

Surface-Mounted Option



1) Connect armored cable to DX unit Snake the wires from the DX into the cable, feeding it in foot by foot. (You may have to twist the leads around the tip first.) When the end has emerged, insert about 2" of the start of the armored cable into the ½" hole on the interior of the door (hole F on template).

2) Secure armored cable (surface-mounted option only) Secure armored cable to door and wall with armored cable straps and screws. See illustration on previous page for loop location. *Be sure to leave a loop hanging between the door and the frame in order to allow the door to swing open.* The first cable strap should be as close to hole F as possible.

3) Install Junction Box Remove faceplate and install box on hinge side of door with two sheet metal screws and plastic anchors or other appropriate fasteners [by others]. Prior to mounting, determine location of access hole for transformer wire and drill the corresponding hole in the junction box. If the surface is drywall, snake the wire through the wall and the back of box (if possible). Depending upon location (back of box) you may choose to insert transformer wire before installing box.

4) Wire Run to Transformer If the transformer leads are long enough, run into the junction box. If not, use 18 gauge 2 conductor wire (by others) to extend the wiring. Connect the (+) lead to the white striped (+) lead from the transformer (has butt connector) and the (-) lead to the black (-) lead from the transformer.

5) Junction Box Connection

A) The other end of the armored cable with red (+) & black (-) leads from lock into junction box should already be in the junction box.

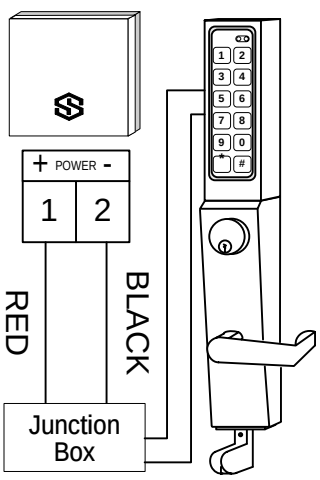
B) Connect red (+) lead from DX trim to (+) lead from transformer using chiclet connectors.

C) Connect black (-) lead from DX trim to (-) lead from transformer.

6) Plug-in the Transformer

YOU MUST OBSERVE POLARITY. Connect plus (+) to plus (+) and minus (-) to minus (-). If you need a longer lead from the transformer, be sure to follow the polarity.

USING A DIRECT POWER SUPPLY Ⓐ Ⓑ Ⓓ Ⓔ Ⓕ



• Connect DX unit to Electric Hinge While mounting the DX trim, the red (+) and black (-) leads from the cable should have been connected to two(2) leads from the electrified butt hinge (we suggest the red (+) and blue (-) ones; however, just be sure to *maintain continuity*).

using JBox • Install Junction Box Remove faceplate and install box on hinge side of door with two sheet metal screws and plastic anchors or other appropriate fasteners (by others). Prior to mounting, determine location of access hole for power from the Direct Power Supply and drill the corresponding hole in the junction box. If the surface is drywall, route the wire through the wall and the back of box (if possible). Depending upon location (back of box) you may choose to insert wires from the DP before installing box.

• Wire Run In all conduit between the Electric Hinge and the Power Supply run 18-gauge, 2-conductor wire (by others) to extend the wiring.

JBox • Junction Box Connection Connect the (+) lead from the power supply to the (+) lead from the hinge and the (-) lead to the (-) lead, using the chiclet connectors provided. ***Observe polarity and maintain continuity at all times!***

• Direct Power supply Connections Connect the wires to the terminal strip as shown on the diagram in the power supply box. ***Observe polarity at all times!***

Bring 110/120 vAC to the transformer and connect wires.

KEYPAD OPERATION : Enter user code to release trim and unlock door. Refer to Centurion DX Programming Instructions for specific keypad operation information.

INS81L55DX.vsd Created: 11/21/2005 Revised:9/17/2007

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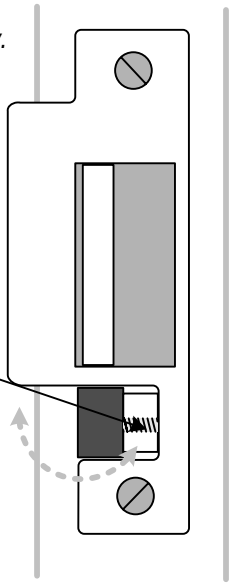
8000 SERIES AUTOBOLT INSTALLATION - FRAME & FINISHING TRIM

Before installing any of the parts on this sheet your lock must be working properly.
See "Auto-Bolt Service Information" to further help in troubleshooting your installation.

Install the 4-7/8" strike using two(2) 12-24 screws.
[Ref. SGI's "T8strike Frame Preparation Template"]

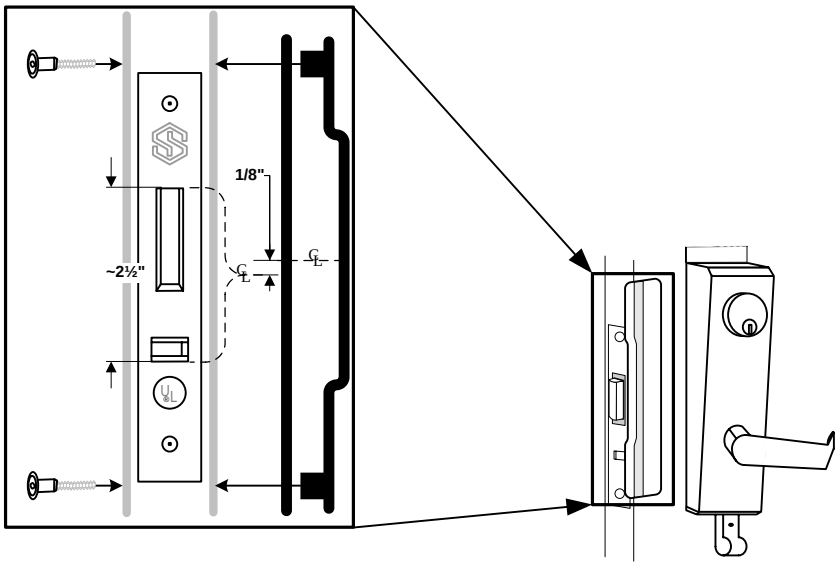
NOTE There is a SCREW to regulate the gap size. Use the factory setting. Only adjust if the combination of the way the door hangs and the way the door closer operates requires you to do so.



UG LEVER TRIM ONLY (676 FINISH)

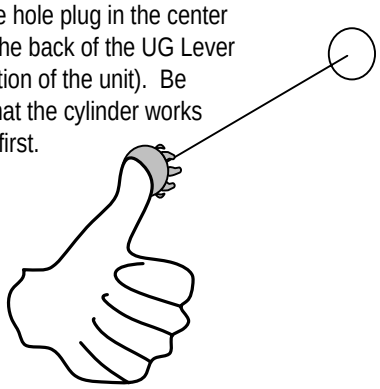
For Reverse Swing Doors ONLY

A bolt protector is provided for added pry protection.
It comes with threaded rods, two (2) T-Nut screws and a shim or spacer to mount it away from the door surface and strike lip.
Field-install this after the main installation is complete and the lock is operating properly. *Do not squeeze door!*

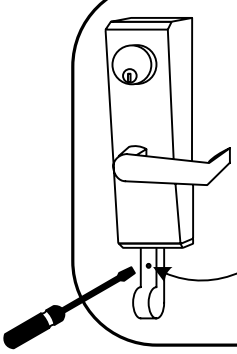


Quick Switch Access Hole Plug
(used on Models - Centurion Trim 8155PB, 8155DX)

Install the hole plug in the center hole (at the back of the UG Lever Trim section of the unit). Be certain that the cylinder works properly first.



[Refer to SGI document "Cylinder Change" regarding how to use the Quick-Change method to switch out cylinder.]



IMPORTANT

FINAL TOUCH

Take the 8 x 1½" self-drilling screw and tighten into this handle stop and into the door when you have completely finished the installation and are satisfied with the lock's operation. *This helps keep the lock aligned.*
You may have to use a #29 drill to drill through the mounting plate.