

Model EL3000 Retrofit Instructions

EL3000 Kit Contents:

- New activating bracket - to replace rear (dogging) bracket
- Solenoid assembly with Coil Commander
- Solenoid actuating bracket
- Wire harness
- Hinge stile mounting bracket with wire access hole

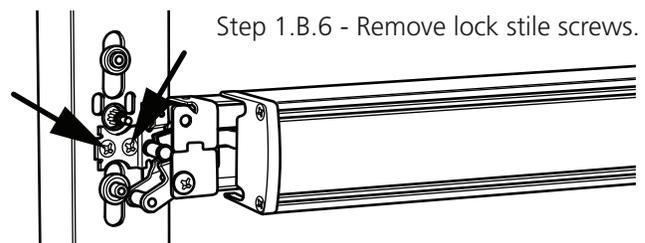
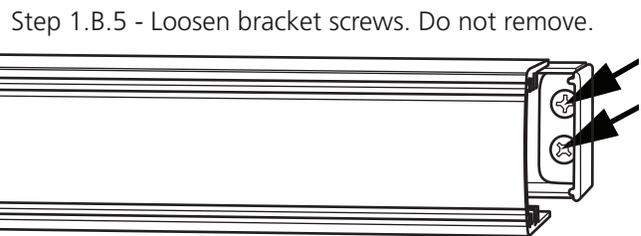
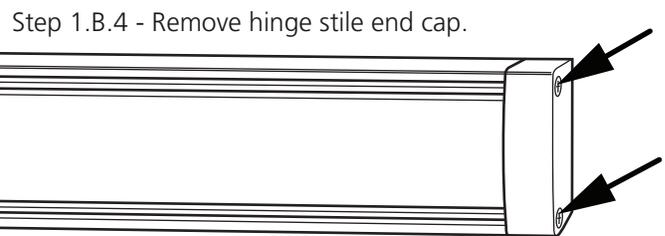
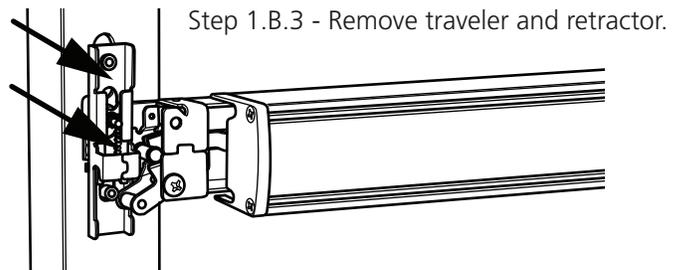
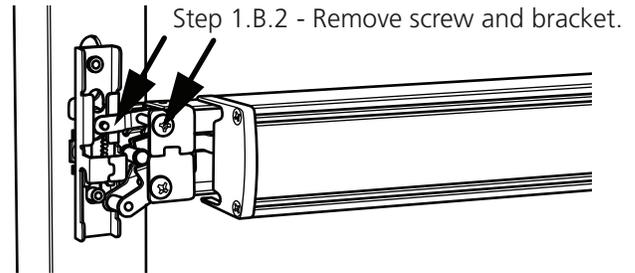
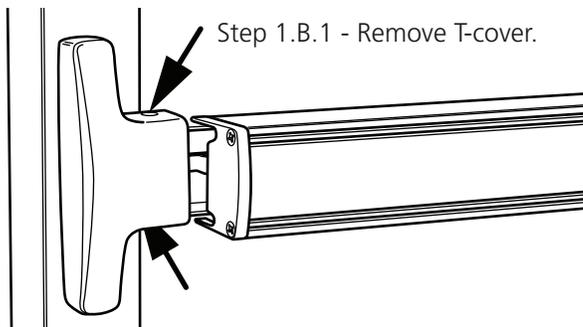
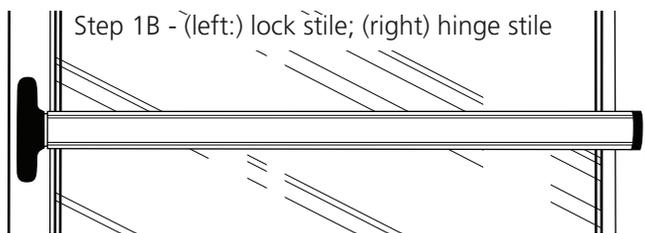
Step 1 - Preparation

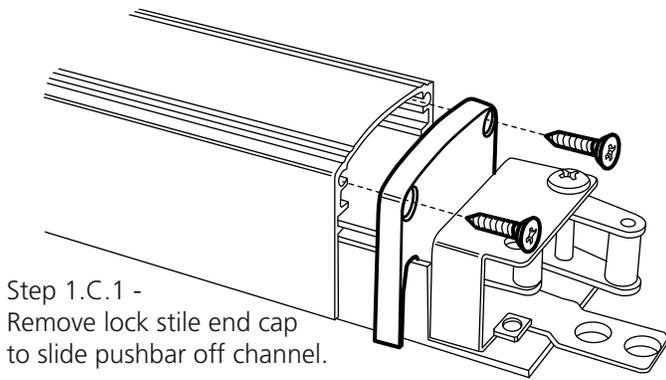
A. Electrical power

- 1.A.1 - Install a First Choice power supply per the instructions provided.
- 1.A.2 - Run wiring from power supply to the door(s).

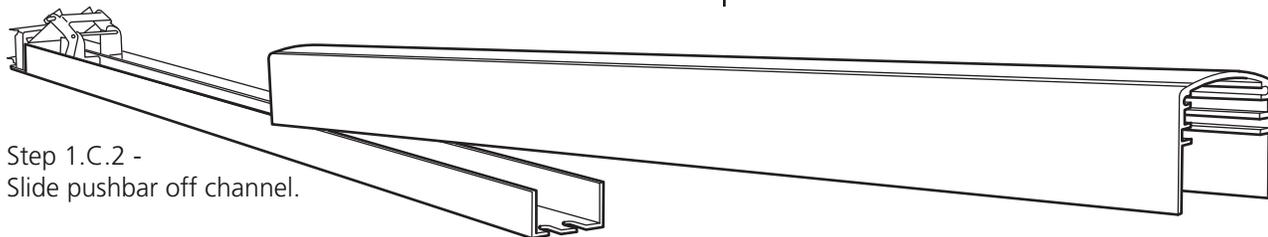
B. Remove pushbar device from the door.

- 1.B.1 - Remove T-cover on lock stile end.
- 1.B.2 - Remove top axle screw and pinion support bracket.
- 1.B.3 - Remove geared traveler and retractor.
- 1.B.4 - Remove hinge stile end cap.
- 1.B.5 - Loosen the hinge stile mounting screws.
- 1.B.6 - Remove lock stile mounting screws.





Step 1.C.1 - Remove lock stile end cap to slide pushbar off channel.



Step 1.C.2 - Slide pushbar off channel.

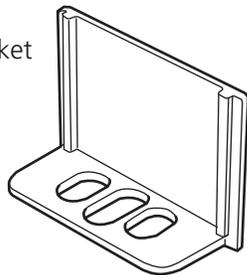


Step 2.3 - Trim connecting rod.

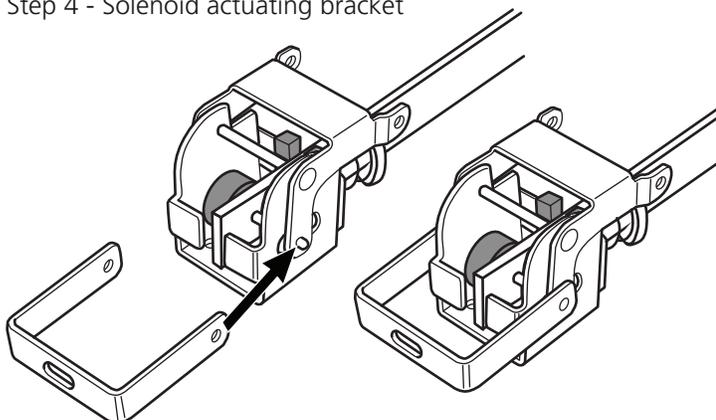


Step 3.1 - Provide opening for wiring.

Step 3.2 - New hinge stile bracket



Step 4 - Solenoid actuating bracket



Step 1 - Preparation (continued)

C. Remove pushbar.

1.C.1 - Remove lock stile end cap.

1.C.2 - Slide push bar toward hinge stile.

1.C.3 - Remove dogging assembly from the channel with two (2) screws on channel. Discard old dogging assembly but keep axle pins.

Step 2 - Shorten the connecting rod

2.1 - Remove rear activating (dogging) bracket with 2 screws on back of channel.

2.2 - Remove activating bracket axle pin to disconnect connecting rod. Remove other parts as necessary to access connecting rod.

2.3 - Trim connecting rod as shown, allowing 1/2" from axle hole to remain.

Step 3 - Provide wiring access

3.1 - Cut notch or drill hole in back of channel to permit routing of connector that is on end of wire harness.

3.2 - Remove and replace hinge stile mounting bracket on door with new bracket provided. Do not tighten screws. Discard old bracket.

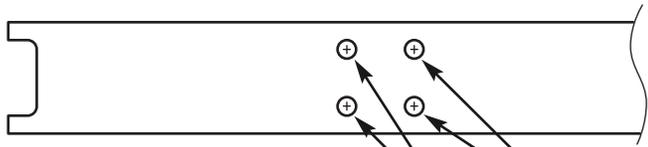
Step 4 - Activating hardware assembly

4.1 - Assemble new rear activating bracket to shortened connecting rod with axle pin.

4.2 - Place the solenoid actuating bracket onto ends of axle pin with a gentle spread of the actuating bracket ends.

4.3 - Apply grease to outer surfaces of solenoid bracket to provide lubrication for movement in the channel.

4.4 - Mount rear activating bracket assembly into channel.

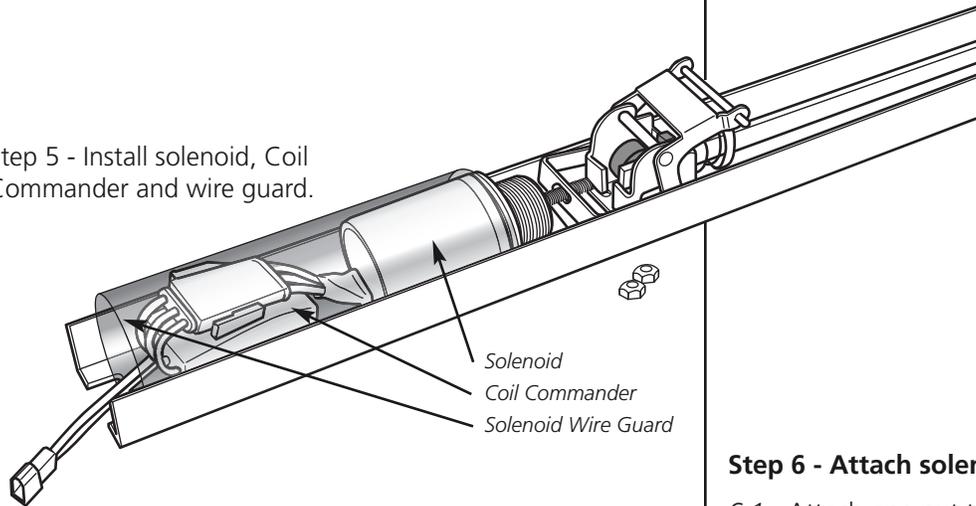


Step 4.4 and 5.3 - screw identification Solenoid Actuator

Step 5 - Install solenoid assembly

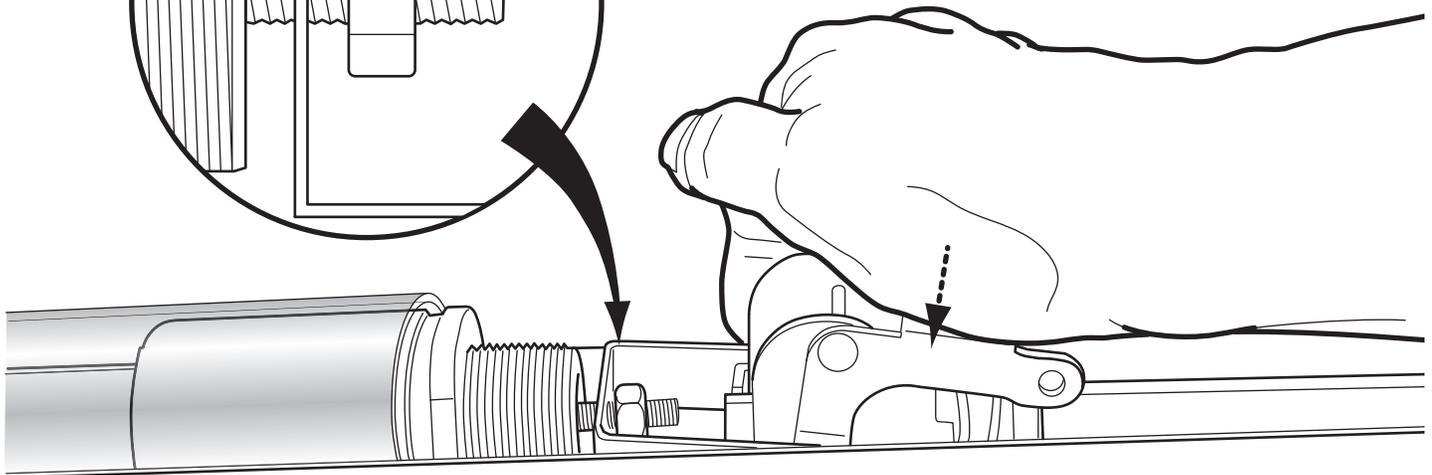
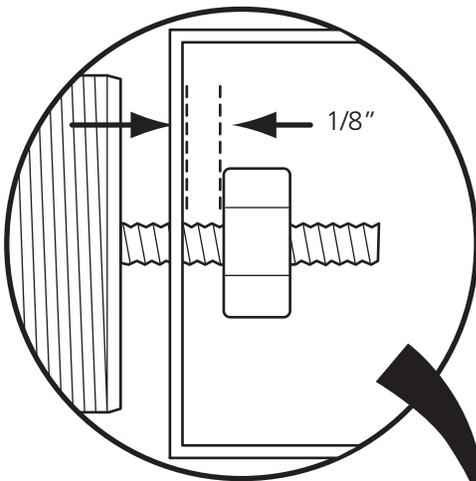
- 5.1 - Remove both locking nuts from solenoid threaded rod.
- 5.2 - Insert threaded rod into actuating bracket.
- 5.3 - Mount solenoid to channel using screws and holes from dogging bracket.
- 5.3 - Slide wire guard over wires, Coil Commander and solenoid.

Step 5 - Install solenoid, Coil Commander and wire guard.

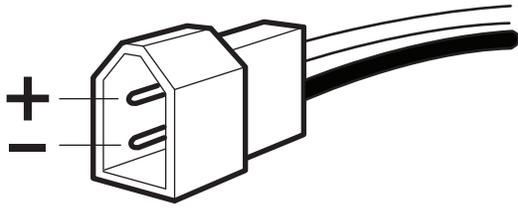


Step 6 - Attach solenoid assembly to actuating bracket

- 6.1 - Attach one nut to threaded rod.
- 6.2 - Push threaded rod fully into solenoid and, while pressing the activating bracket down, tighten nut to 1/8" from actuating bracket.
- 6.3 - Apply a small amount of thread locking compound to the threaded rod and attach the second lock nut to threaded rod.
- 6.4 - Tighten nuts together making sure 1/8" space remains between first nut and actuating bracket.

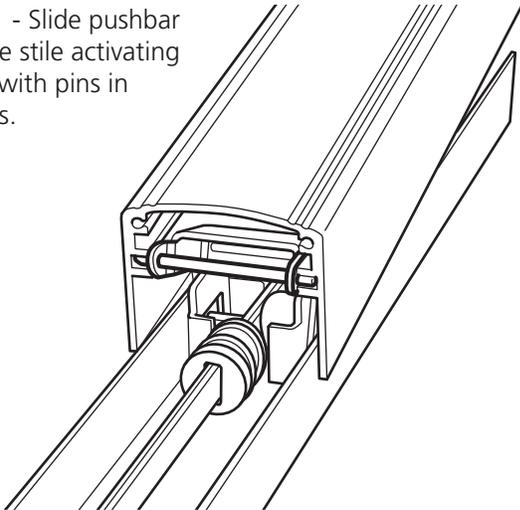


Step 6 - Attach solenoid shaft to the actuating bracket.

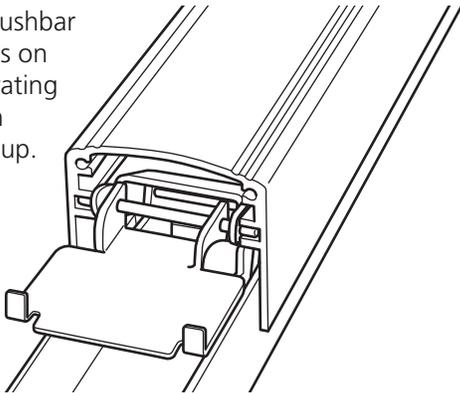


Step 7.2 - Plug polarity

Step 7.3.1 - Slide pushbar onto hinge stile activating assembly with pins in lower slots.



Step 7.3.2 - pushbar bracket installs on lock stile activating assembly with tabs pointing up.



Step 7 - Re-assemble and install

7.1 - Mount channel assembly to door with channel underneath new hinge stile bracket. Attach device to lock stile and tighten screws, then tighten hinge stile bracket mounting screws.

7.2 - Make wiring power connections and test for proper solenoid operation.

7.3.1 - Re-assemble pushbar onto channel and activating assemblies by sliding onto pins of activating brackets – pins will only fit in lower pushbar slots.

7.3.2 - Make sure the pushbar bracket stop tabs are installed with tabs turned up, away from the channel.

7.4 - Reinstall end caps.



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