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 1B -(left:) lock stile; (right) hinge stile
Step 1.B.1 - Remove T-cover.
Step 1.B.2 - Remove screw and bracket.
Step 1.B.3 - Remove traveler and retractor.
Step 1.B.4 - Remove hinge stile end cap.
Step 1.B.5 - Loosen bracket screws. Do not remove.
Step 1.B.6 - Remove lock stile screws.
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

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 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 - 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.