FALCON®

Installation Instructions

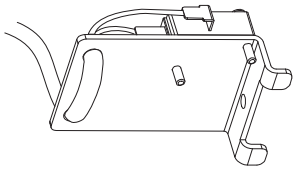
ININST.1043

1690/1790/2390 RX Switch Retrofit Kit

NOTE: This kit will work only with devices manufactured in June 2002 or later. See step 1 for determining manufacture date.

PARTS LIST

This switch is intended for signaling purposes only and is rated for a .1 ampere to 3 ampere resistive load at 24VDC/AC. Use with inductive or capacitive loads (magnetic locks or solenoid devices) derates the capacity of the switch. Consult the factory for assistance.



RX Switch and Bracket (1)



8-18 X 3/8" PPHSMS Screw (1)

1690/1790 INSTALLATION

1 Remove center case cover and check for date code sticker (Figure 1). If date code sticker is not present or date code is older than June 2002, RX switch cannot be used. See below to read date code.

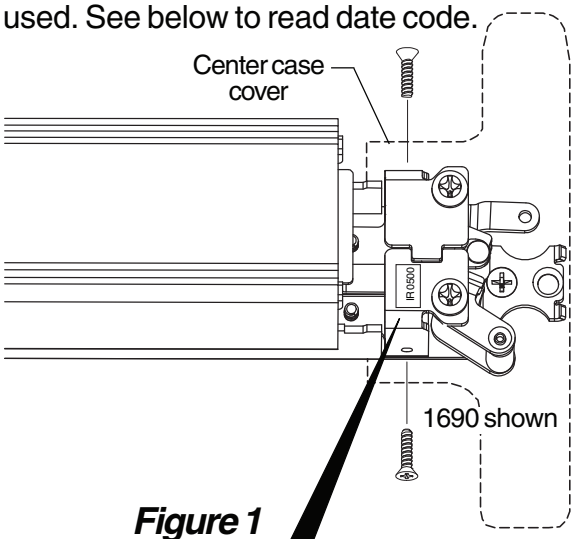


Figure 1

DATE CODE STICKER

Date code is in the form of month, year (i.e. 0500=May/2000)

If date code is not present, refer to Figure 2-2 for features that must be present for using kit

2 Remove pushbar endcap and slide pushbar off device (Figure 2-1). See Figure 2-2 for features that must be present for using RX kit.

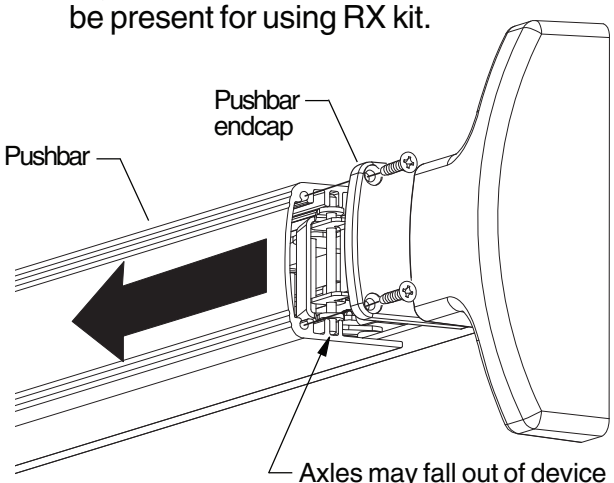


Figure 2-1

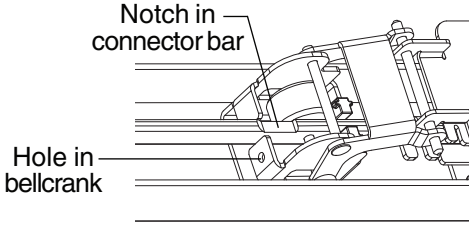
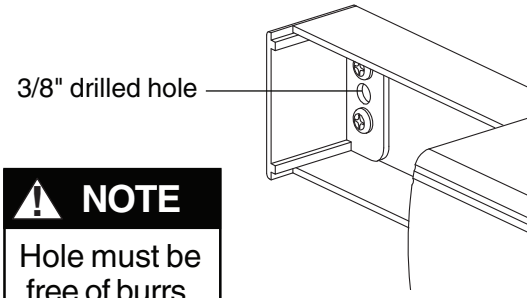


Figure 2-2 Features for RX Kit

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3 Drill 3/8" diameter wiring hole through channel end cap, channel, and inside face of door (Figure 3).



⚠ NOTE

Hole must be free of burrs.

Figure 3

4 Screw RX switch bracket onto device as shown (Figure 4).

After installing, make sure that bell cranks operate freely and that switch bracket does not rub on connector bar

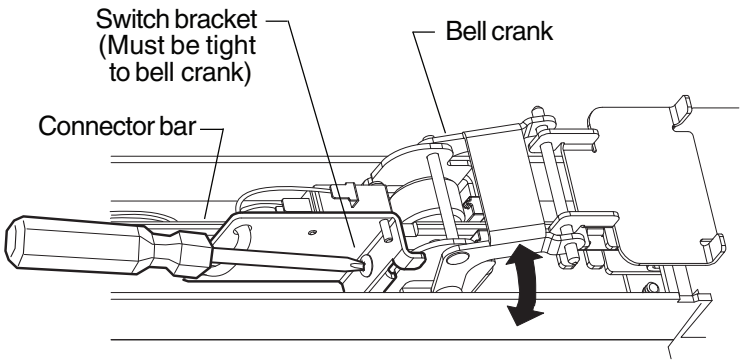


Figure 4

5 Route RX switch cable under bar and inside device channel as shown (Figure 5). If it is difficult to route wires along channel, it may be necessary to tape wire ends together.

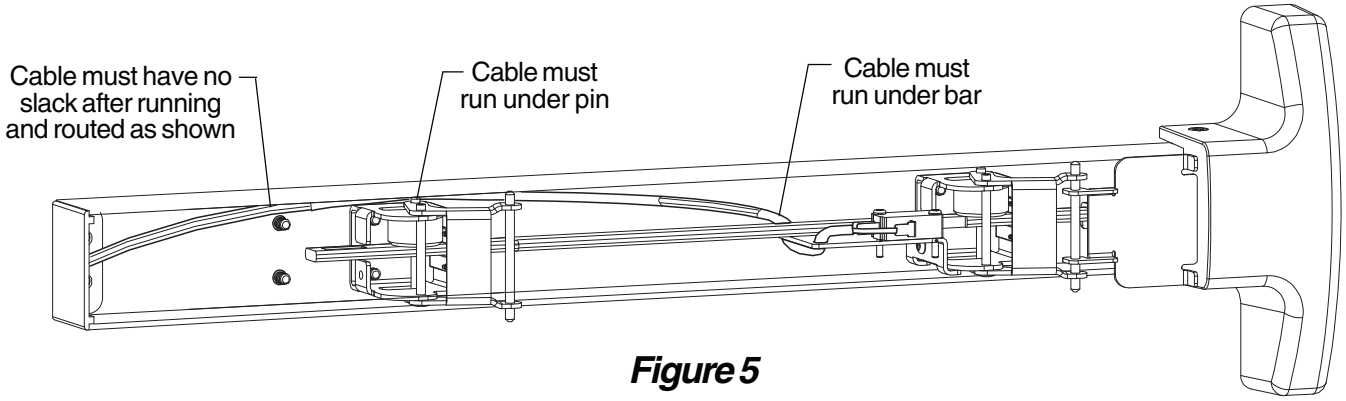


Figure 5

6 Reinstall pushbar onto device with axles in place and push bar connector flipped up as shown (Figure 6).

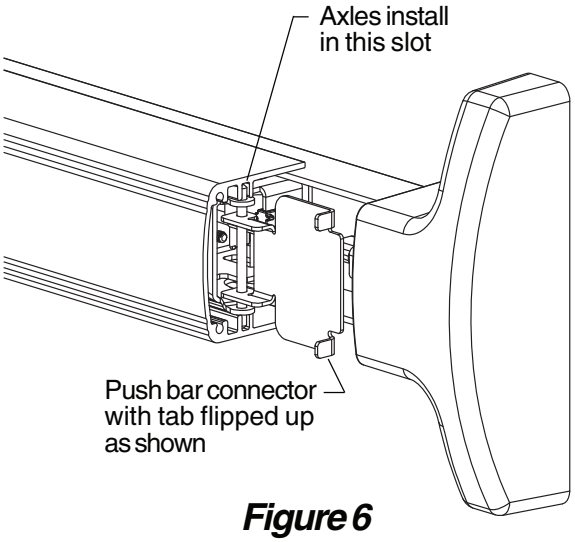


Figure 6

7 Reinstall pushbar endcap (Figure 7). See "RX Switch Wiring" on back cover for wiring information.

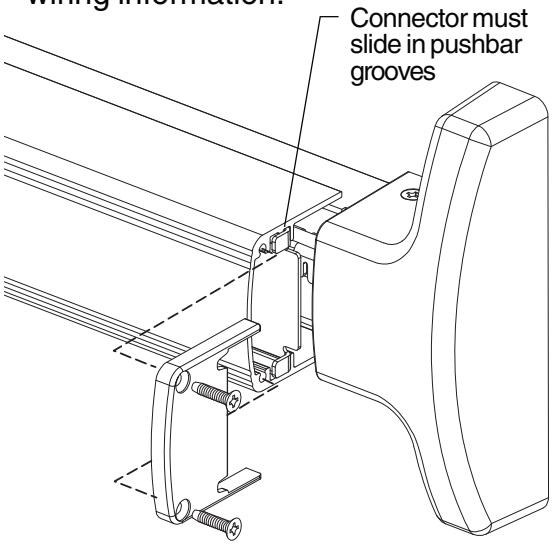


Figure 7

2390 INSTALLATION

1 Remove two screws from lock stile end cap, then slide cover plate from device as shown (Figure 1-1).

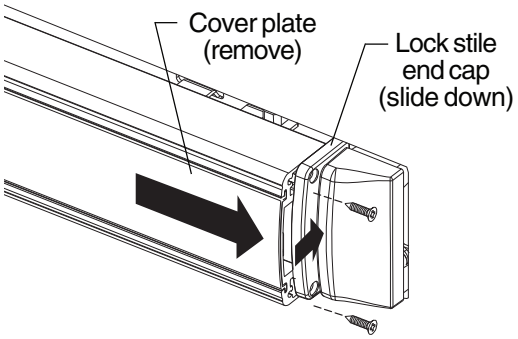


Figure 1-1

2 Follow instructions on back of cover plate or obtain ININST.1039 installation instruction from factory and remove device from door (Figure 2-3).

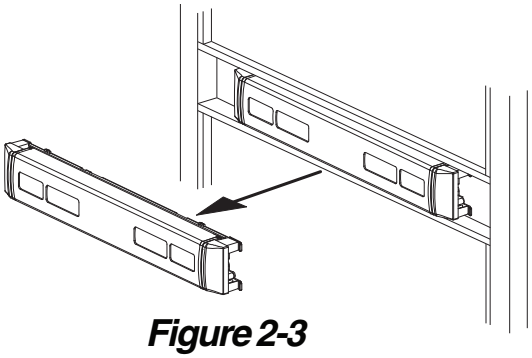


Figure 2-3

3 Remove hinge stile cover and slide pushbar off device (Figure 3-1).

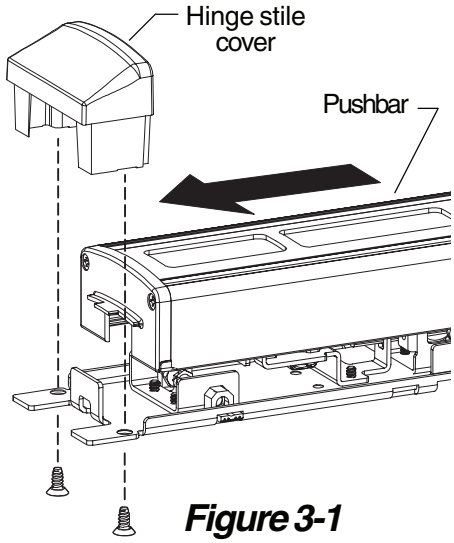


Figure 3-1

4 Screw RX switch bracket onto device as shown (Figure 4-1).

After installing, make sure that bell cranks operate freely and that switch bracket does not rub on connector bar

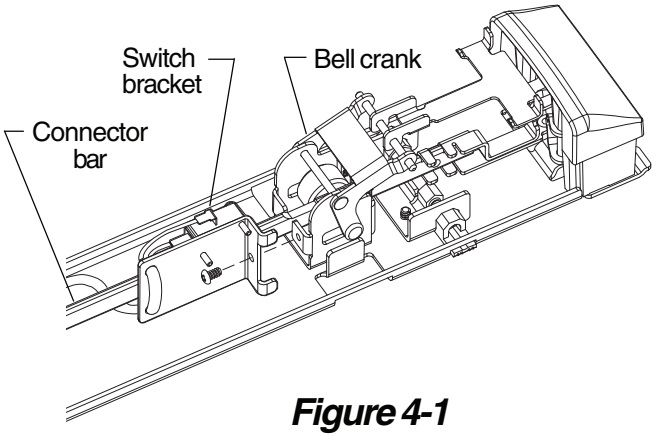


Figure 4-1

5 Route RX switch cable under connector bar and along base of device as shown (Figure 5-1).

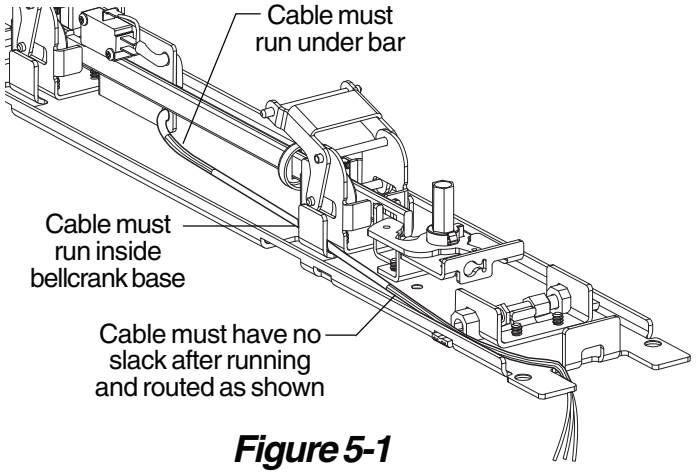
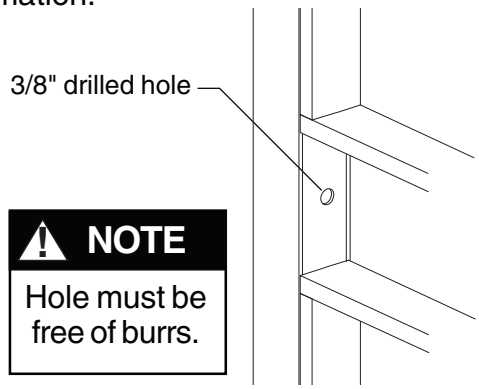


Figure 5-1

6 Drill 3/8" hole in door as shown to route wiring through (Figure 6-1). See "RX Switch Wiring" on back cover for wiring information.



⚠ NOTE

Hole must be free of burrs.

Figure 6-1

7 Reinstall pushbar as shown (Figure 7-1), and slide lock stile end cap into position (Figure 7-2).

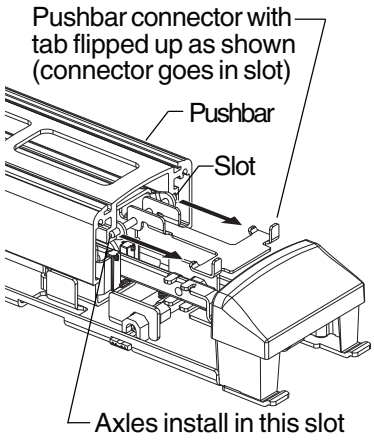


Figure 7-1

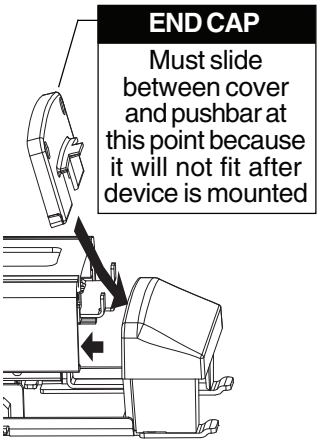


Figure 7-2

8 Install hinge stile cover (Figure 8-1) and reinstall device to door. After device installation, slide cover plate back onto pushbar, and secure lock stile pushbar endcap with two screws (Figure 8-2).

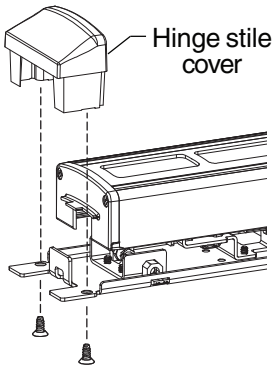


Figure 8-1

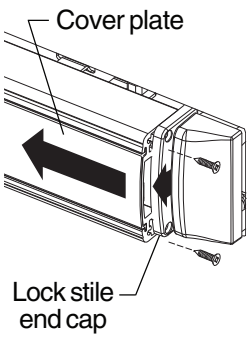
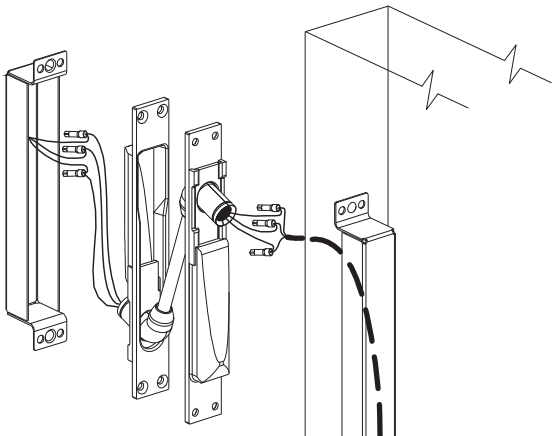


Figure 8-2

RX SWITCH WIRING



Electric power transfer
(EPT-2 part No. 012011
EPT-10 part No. 012012)

- The RX switch is activated when the touchbar is depressed.
- Use the Von Duprin EPT-10 power transfer (for three wires), EPT-2 power transfer (for two wires), electric hinge, electric pivot, or door loop to transfer the wiring from the door to the frame.
- Connect the power transfer wires and switch assembly wires with crimp connectors. Unused wires should be insulated separately.

⚠ CAUTION

Wiring must be pulled tight so cable will not interfere with touchbar and channel movement.