

# Installation Instructions

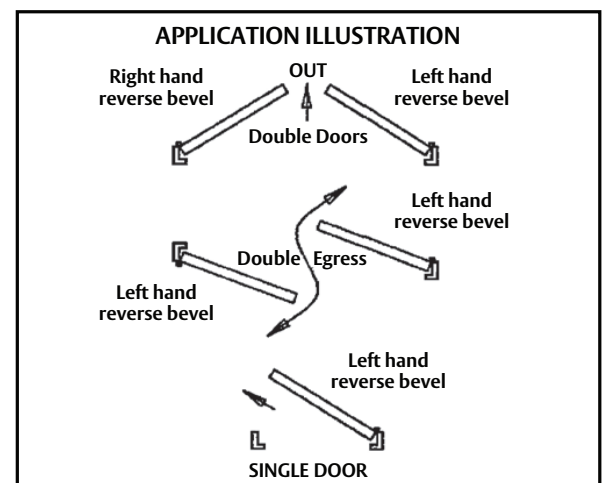
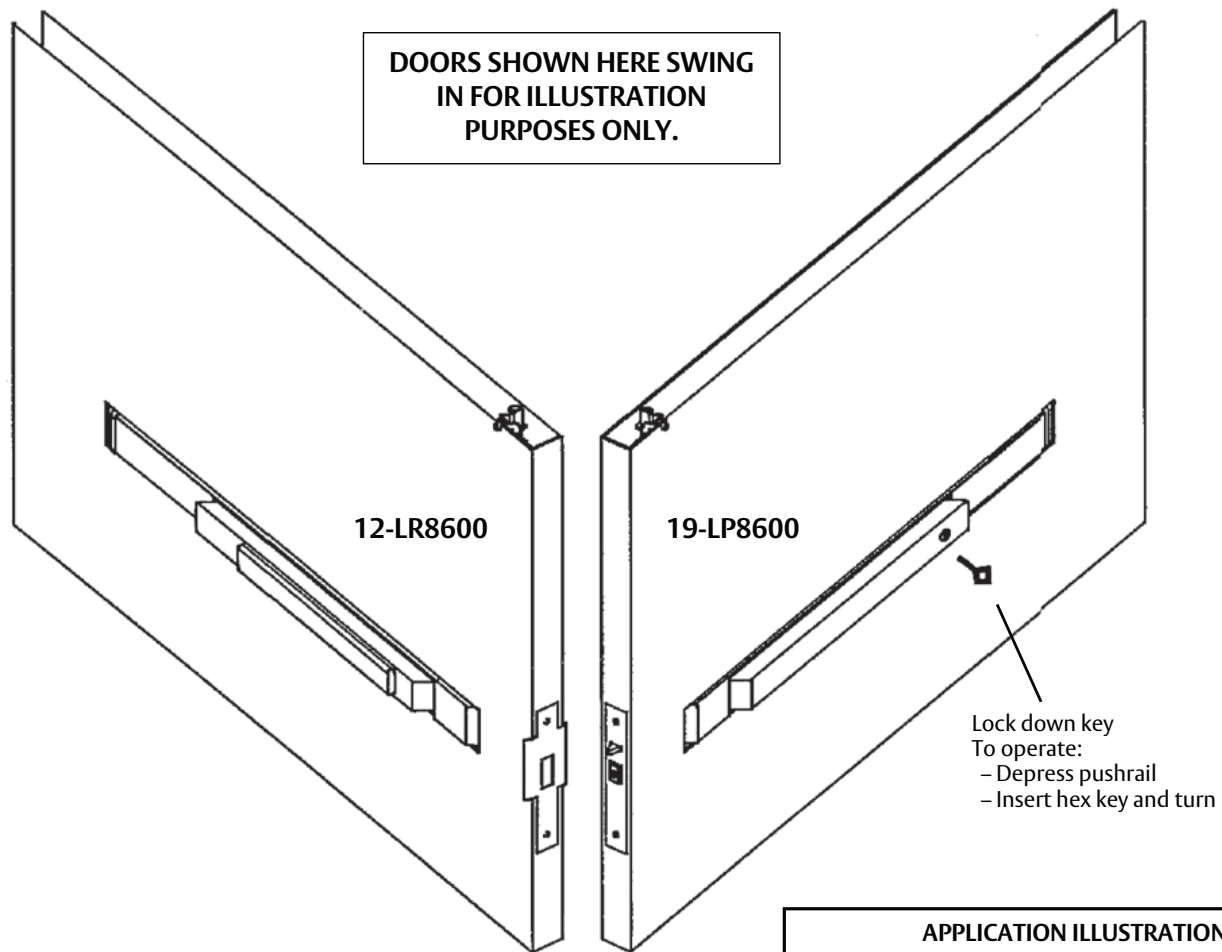
**SARGENT**

**ASSA ABLOY**

## 80 Series

### Low Profile Panic & Fire Exit Devices on Double Egress & Double Doors Or Low Profile Exit Device on Single Door

LP8600 x LR8600, 12-LP8600 x 12-LR8600, LS8600 & 12-LS8600 Series.



### **!** WARNING

This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65warnings.ca.gov](http://www.P65warnings.ca.gov).

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# 80 Series

## Low Profile Panic & Fire Exit Devices


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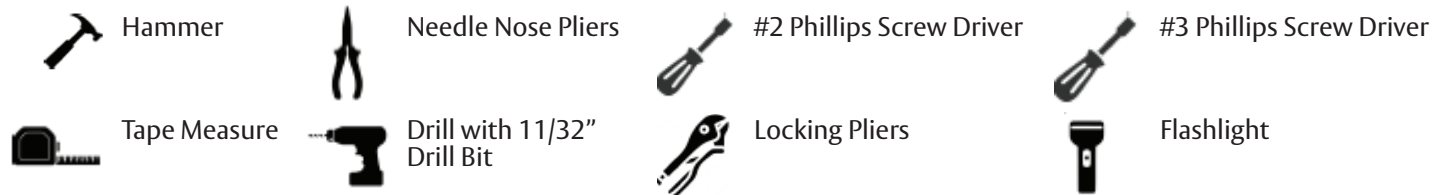
### Installation Instructions

**NOTE:** The doors should be properly reinforced and should be fully prepared by the manufacturer.

**NOTE:** Rails can not be cut down in the field.

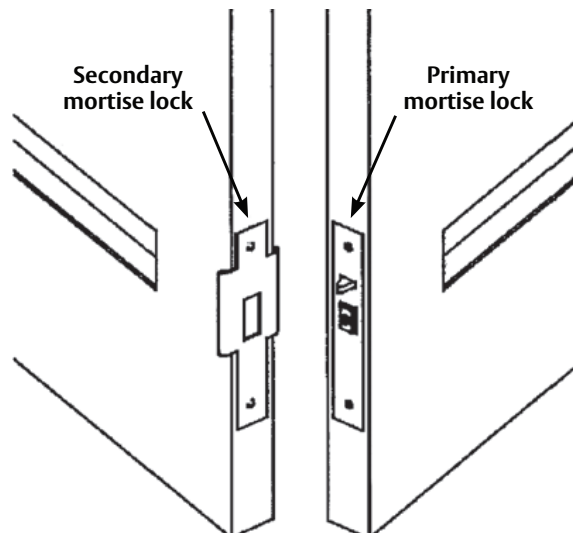
-  **Caution:**  
Before starting:
- Check hand of door – LP8600 & LR8600 exit devices are non handed, ET trim is field reversible. LS86000 curved lip strike is handed.
  - 2-3/4" backset only
  - 3/4" thick doors only
  - Verify box label for size, function and hand of exit device
  - Available lengths:
    - Length "L" for 36" wide doors
    - Length "M" for 42" and 44" wide doors
    - Length "N" for 46" & 48" wide doors
  - Door should be fitted and hung unless low ceiling condition exists (For low ceiling conditions, install mortise lock and top rod before hanging door. Low ceiling exists if ceiling height is less than: (2 x door height) – mounting height i.e. 7' door with device mounted at 41" aff would need (2 x 7') – 41" or 10'7" ceiling.)
  - Doors that are hung should be square and plumb. Clearance between the doors should be per the door manufacturers specification; i.e. gap between doors should be 1/4" at center line of bevels. (If gap is over 1/4" doors must be shimmed to decrease the gap.)

### Required Tools



### 1. Install Mortise Locks

- A. Mount primary and secondary mortise locks in doors with (2) of the provided #12 flat head machine screws.
- B. Install outside fronts to mortise locks with (2) of the provided #8 flat head machine screws.



## Installation Instructions

### 2. Install Trim (If Applicable)

- Using the appropriate portion of template A6381, supplied with the trim, drill all required holes in the door.
  - Align the spindle with the outside hub and install the ET trim.
  - Secure with 1/4-20 screws and cup washers.
- See Figure 1.

### 3. Assemble Top Rod and Extension

- If rod assembly is in two pieces, continue with Step B. If the rod assembly is in one piece, go to Step 4.
  - Slide the rod together and align the holes.
  - Secure with spiral pin.
- See Figure 2.

### 4. Install Top Rod Assembly

- Insert rod assembly into door, as shown in Figure 3.
- Align the connecting tube with the top mount.
- Rotate rod assembly clockwise until the bolt projects 1/4" above the door.

Figure 1

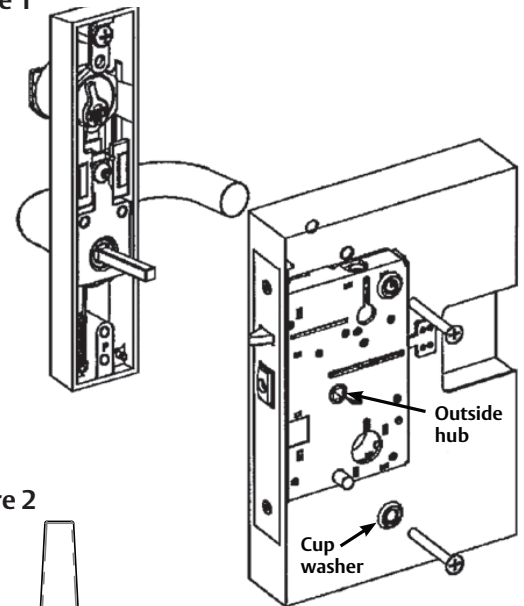
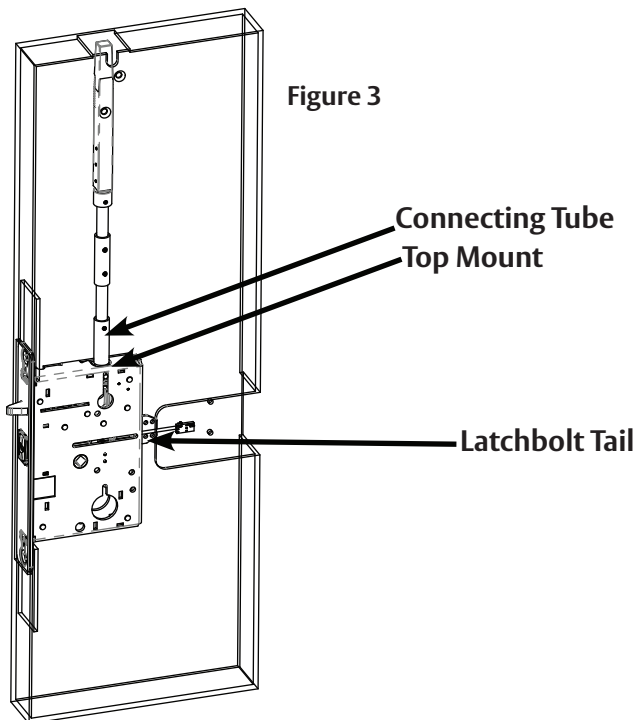
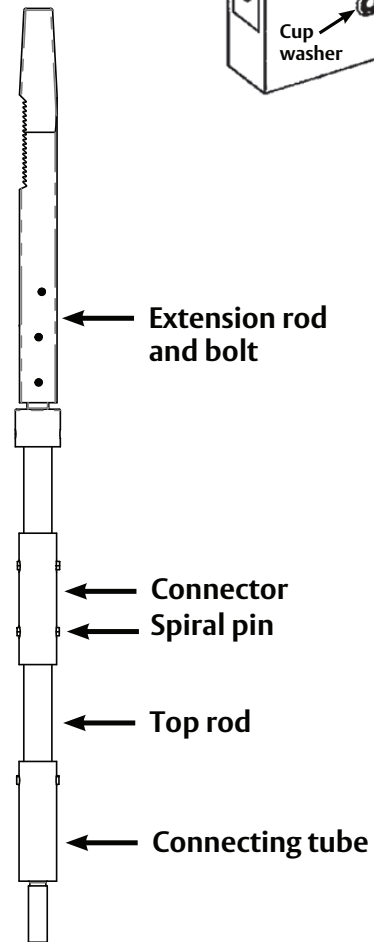


Figure 2



**NOTE:** After rods are installed, doors can be blocked open until chassis is installed. If doors are closed and latched before chassis is installed, the bolts can be retracted from the inside by pulling the latchbolt tail toward the hinge.

# 80 Series

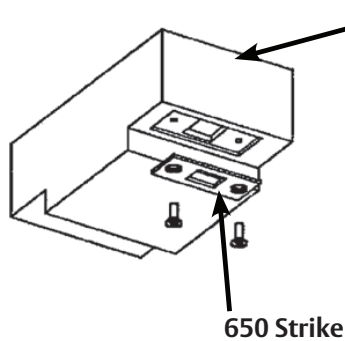
## Low Profile Panic & Fire Exit Devices

### Installation Instructions



#### 5. Install Top Case and Strike

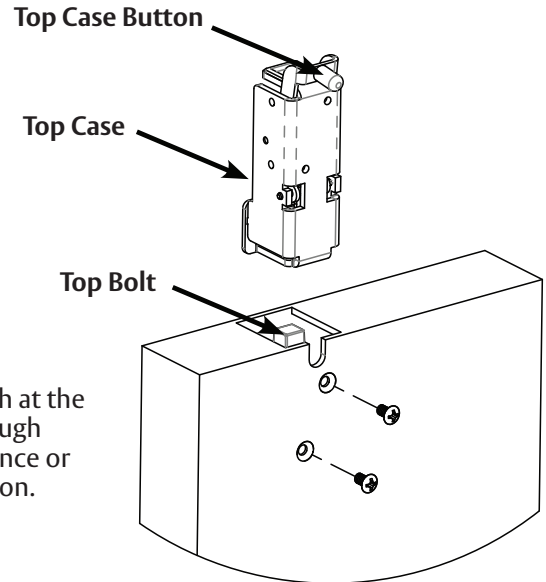
- A. Slide top case over top bolt until the threaded holes line up with the two C-Sunk holes at the top of the door.
- B. Using two (2) #10-24 x 3/8" oval head screws, fasten the top case in place.
- C. Mount top strike to frame, using two (2) of the provided #10-24 flat head screws.



Frame Header Section

650 Strike

**NOTE:** Ensure that the notch at the top of the door is large enough so that there is no interference or bind with the top case button.



#### 6. Install Chassis in Rail

- A. Depress life arm and slide chassis into the rail as shown in Figure 4.
- B. Align tapped holes in chassis to C-Sunk holes in the rail. Using (2) #6-32 flat head screws, secure the chassis to the rail as shown in Figure 5.

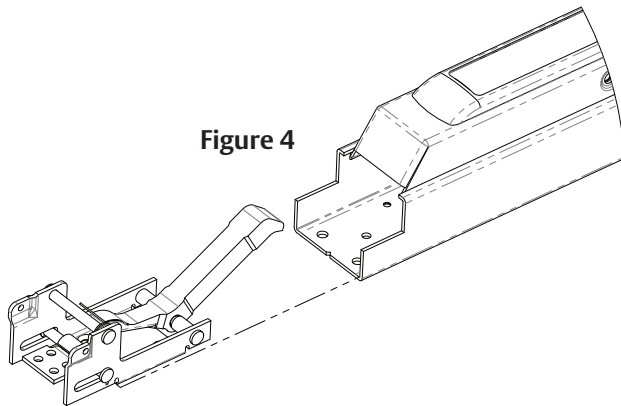


Figure 4

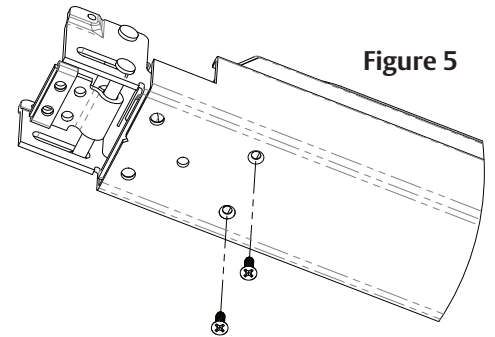
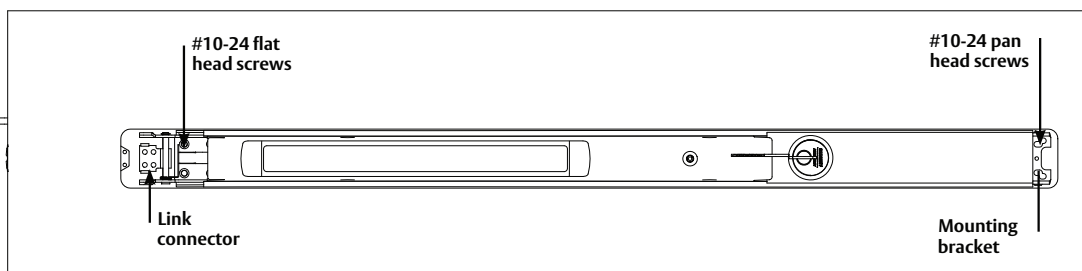


Figure 5

#### 7. Install Rail

- A. Rotate link connector up and place rail assembly in door cavity as shown.
- B. Align C-Sunk holes in chassis with tapped holes in door, and secure with (2) #10-24 flat head screws.
- C. Position mounting bracket to support end of rail, and secure with (2) #10-24 pan head screws.



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## 8. Connect Linkage

- Rotate link connector down and pull towards the mortise lock.
- Align one pair of holes on link connector with mortise tail and secure, using (2) #8 truss head screws. See Figure 6.

Repeat from Step B on opposite door.

## 9. Adjust Secondary Mortise Lock (LR8600)

- Depress rail and observe center bolt. If bolt is projected flush or just beyond outside front, the adjustment is correct.
- If an adjustment is required, do the following:
  - Remove the (2) #8 screws from the linkage. See Figure 7.
  - Rotate the lever trim to align to the next set of holes. See Figure 8
  - Reinstall the #8 screws and repeat Step 9-A.
- If binding condition occurs where the top bolt remains retracted and the center bolt remains extended when the door closes, do the following:
  - Remove the (2) #8 screws installed in Step 8.
  - Install the link spacer between the link connector and mortise tail. See section view, below.
  - Reinstall #8 screws.
  - Repeat Step 9-A.



Figure 6

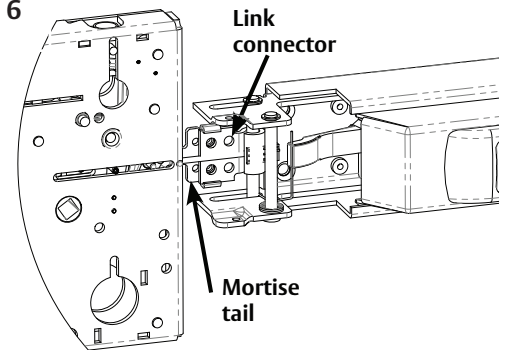


Figure 7

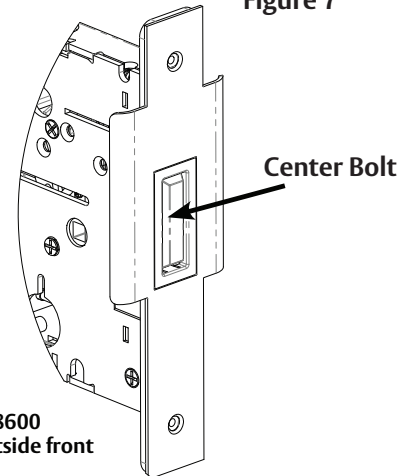
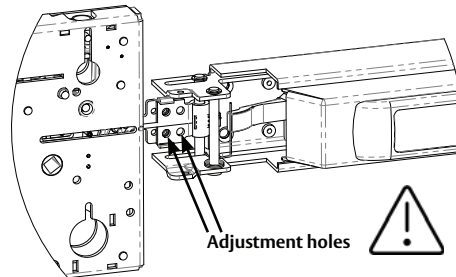
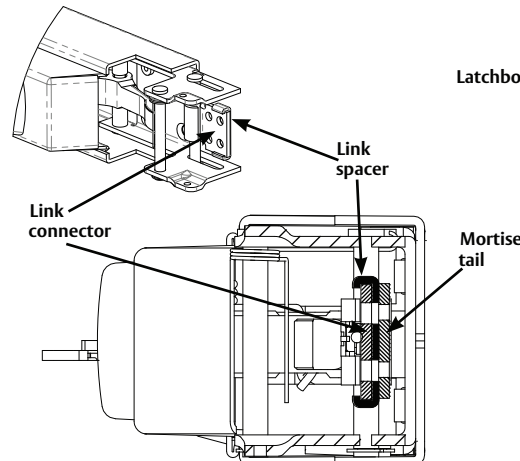


Figure 8

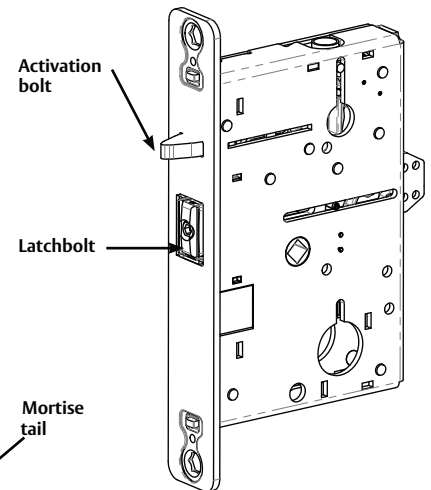


## 10. Adjust Primary Mortise Lock (LP8600)

- With both doors closed, check for proper top and center latchbolt throw, and engagement with strikes.
- Depress push rail to retract latches and open door. If the center bolt does not retract to clear the LR8600 front, adjustment is required.
- Remove (2) #8 screws from linkage.
- Rotate lever trim to align next set of holes.
- Reinstall the #8 screws.
- Repeat Step 10-A.
- If binding condition occurs where the top bolt remains retracted and the center bolt remains retracted when the door closes, remove the (2) #8 screws installed in Step 8.
- Install link spacer between the link connector and mortise tail.
- Reinstall #8 screws.
- Repeat Step 10-A.

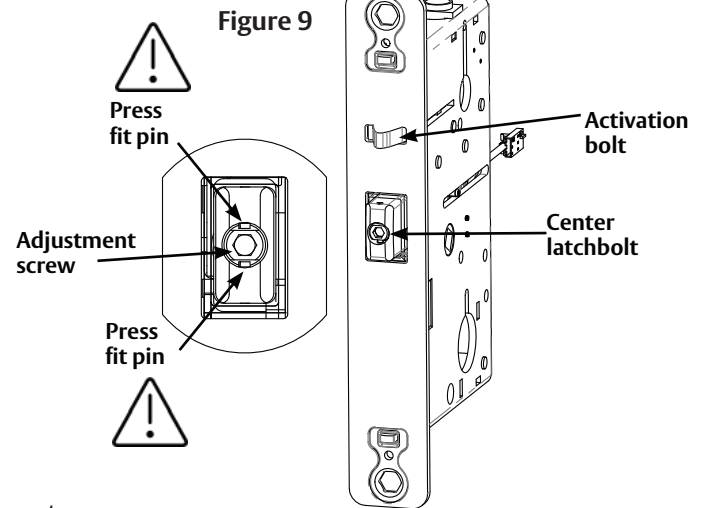


SECTION VIEW



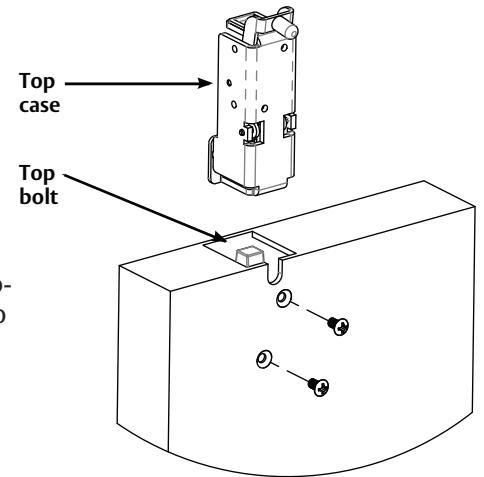
## 11. Center Bolt Adjustment

- A. If there is not enough center latchbolt projection and engagement into the other door, the center bolt can be adjusted.
- B. Open door and depress the activation bolt to project the latchbolt.
- C. Using locking pliers, grip the latchbolt near the front lock.
- D. Insert a 5/32" allen wrench into the latchbolt. Pull the latchbolt out until you can freely turn the adjusting screw.
- E. To increase projection, turn the adjusting screw counter-clockwise. To decrease projection, turn the adjusting screw clockwise. When desired projection is achieved, rotate the adjusting screw so the flats are aligned with the 2 press fit pins
- F. Confirm that the adjustment screw is in the position shown in Figure 9. (flats horizontal), push the two press fit pins back into the latchbolt if they're protruding after any adjustment.
- G. Release the pliers and allow the latchbolt to snap back.



## 12. Top Bolt Adjustment

- A. If there is not enough top latchbolt engagement into the top strike to latch the door securely, complete the following steps:
  1. Remove the top case from the door and rotate the top bolt counter-clockwise to increase projection.
  2. Reinstall the top case, and recheck the adjustment.

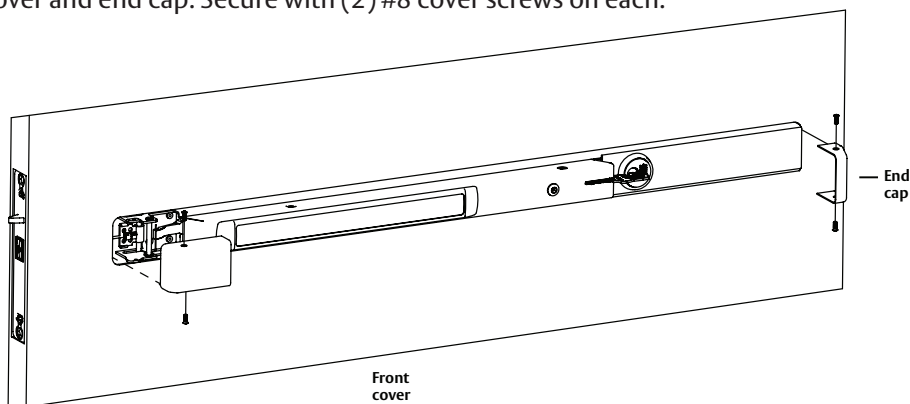


## 13. Operation Verification

- A. Open and close doors several times in different sequences to ensure proper operation and latch engagement into strikes. Center latchbolt should project into opposing door regardless of closing order.
- B. If bolts are not retracting or projecting properly, review/repeat Steps 9-12.

## 14. Install Covers

- A. Verify that all adjustments have been made and all mounting screws are tight.
- B. Install front cover and end cap. Secure with (2) #8 cover screws on each.



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#### Required Screws



(2) #8-32  
Under-cut flat head  
(Lock fronts)



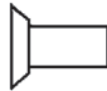
(2) #10-24  
Pan head  
(Mounting bracket to door)



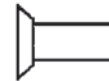
(4) #8-32  
#8 Under-cut oval  
(Covers)



(2) #6-32  
Under-cut flat head  
(Chassis to rail)



(2) #12-24  
Under-cut flat head  
(Mortise lock to door)



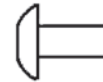
(4) #10-24  
Under-cut flat head  
(2 Chassis to door)  
(2 Strike to frame)



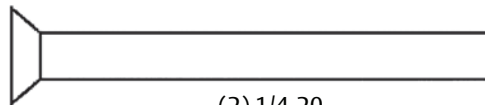
(2) Cup washer  
(Trim mounting)



(2) #10-24  
Under-cut oval  
(Top case to door)



(2) #8-32  
Truss head  
(Link connector to mortise tail)



(2) 1/4-20  
Flat head  
(Trim mounting)

#### Screw Packs and Miscellaneous Parts

68-1317	Front Cover (Finished)
68-1316	End Cap (Finished)
01-0696	Spiral Pin
68-1186	Primary Outside Front
68-1183	Secondary Outside Front
77-0883	Curved Lip Strike (Left Hand)
77-0884	Curved Lip Strike (Right Hand)
650	Top Strike Pack
77-4236	Screw Pack (Mortise Lock)
68-4373	Screw Pack (Chassis)
68-3677	Screw Pack (Top Case)
68-4383	Screw Pack (Mounting Plate)
651 Kit	Lexan Touch Pad
816	Cylinder Dogging Kit

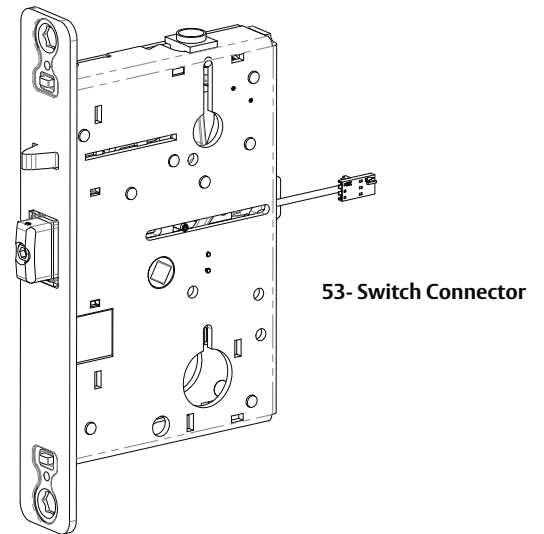
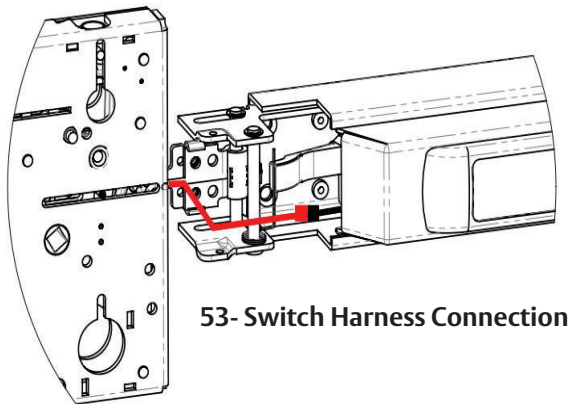
# SARGENT Installation Instructions for LP8600 x LR8600 53- Special Application

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## Connect 53- Harness

1. Route supplied harness from lockbody through rail so the wiring doesn't interfere with the link connector or device operation. Connect to 53-harness connector supplied inside the rail. See Figure 10.

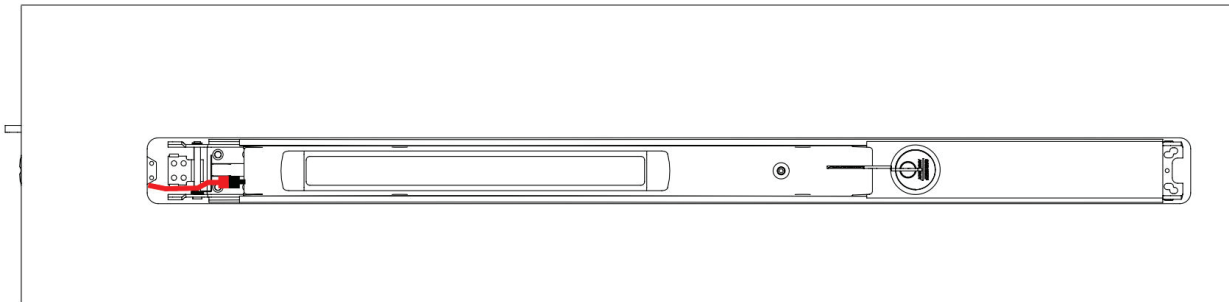
Figure 10



**NOTE:** Lockbody harnesses are pinned in such a way that they will provide the same signal when triggered. Re-pinning is not required.

LR Lockbody - Switch is normally open and is triggered 'low' when switch is closed.  
LP Lockbody - Switch is normally closed and is triggered 'low' when switch is opened.

2. Check that device operates as expected.



## **⚠** WARNING

Attention Installer: Improper installation may result in damage to the product and void the factory warranty.

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