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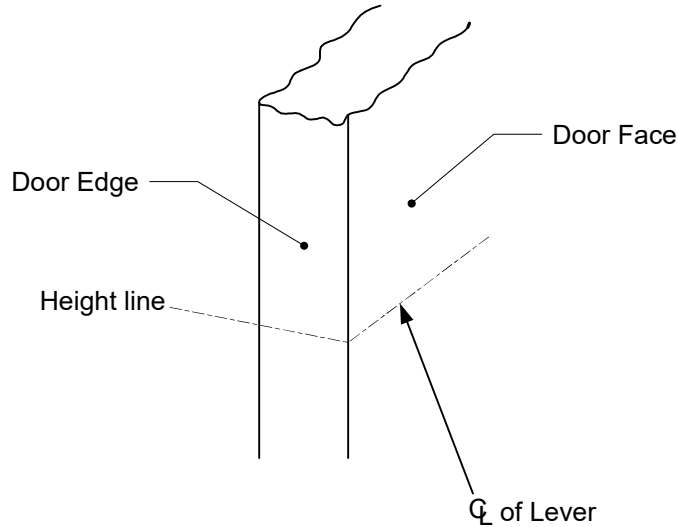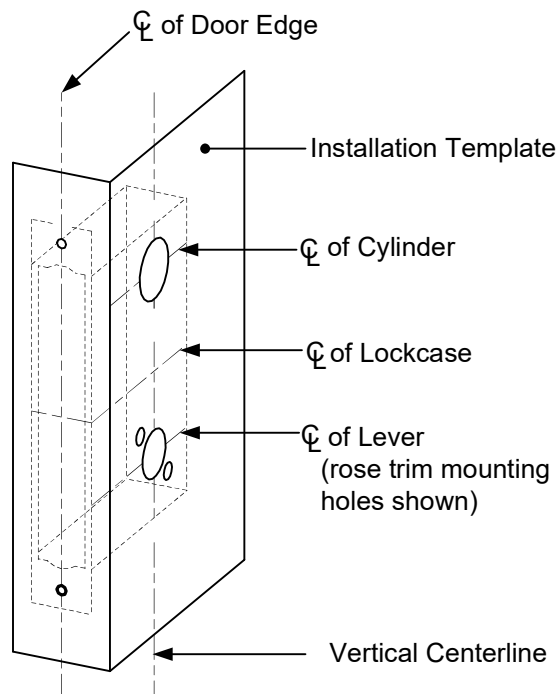
INSTALLATION INSTRUCTIONS

Z7800 PRO SERIES
SOLENOID CONTROLLED
MORTISE LOCKSET

A. Door Preparation:

1. Measure desired height from finished floor and mark a horizontal line on door face and door edge.

2. Place template on edge of door as shown and align lever centerline with marked height line on door. Check the chart for drilling trim holes on template and only mark holes for lock function being installed.

Any suggestions or comments to this instruction or product are welcome. Please contact us through our website or email engineer@sdcsecurity.com

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A. Door Preparation (Continued)

3. Mortise door edge according to measurements on installation template and drill proper holes for trim.

4. Dimensions for face plate recess:
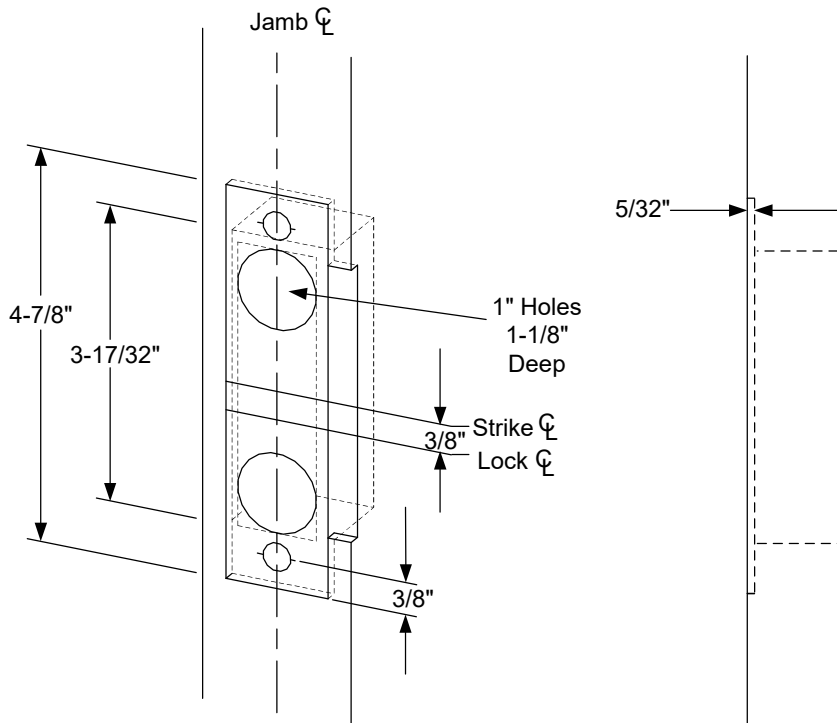   L 8-1/32" x W 1-5/16" x D 7/32".

Wire Raceway suggested for wood doors.

Optional:
SDC Door Core Drill Guide Kit
P/N: 7000-DGK

7/32"

8-1/32"

1-5/16"

Note:
Rose door prep shown as example.
Escutcheon door prep would differ.
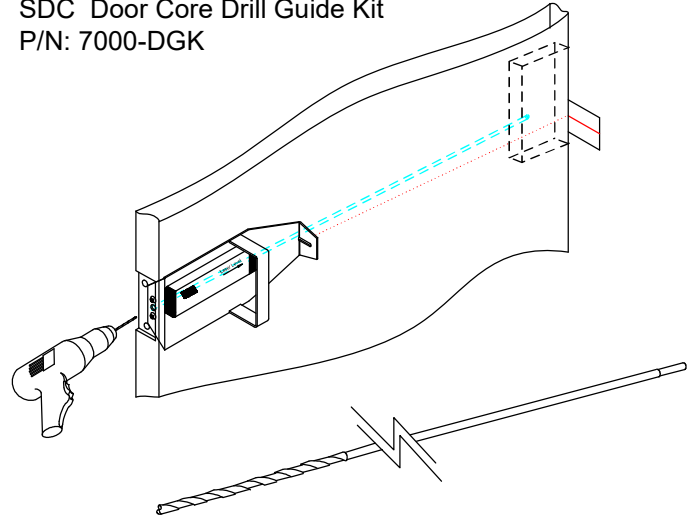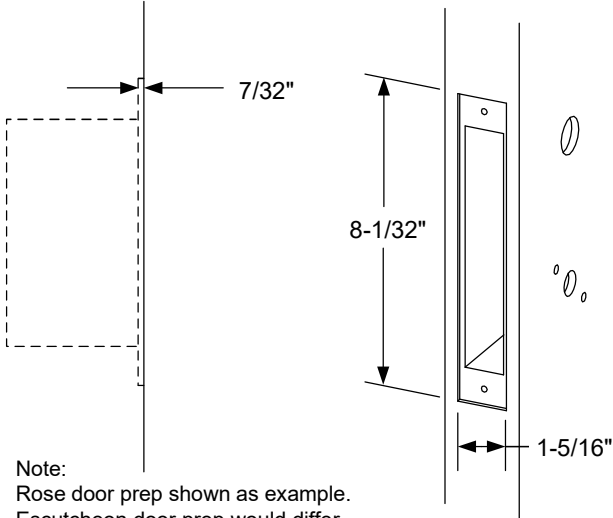
B. Strike & Dust Box Installation:

1. Align strike template on jamb. Be sure to keep 3/8" distance between lock centerline and strike centerline. Recess 5/32" for flush fit of strike and dust box.

2. Mortise jamb according to supplied strike template. Then fit strike and dust box into frame and secure into place with supplied screws.
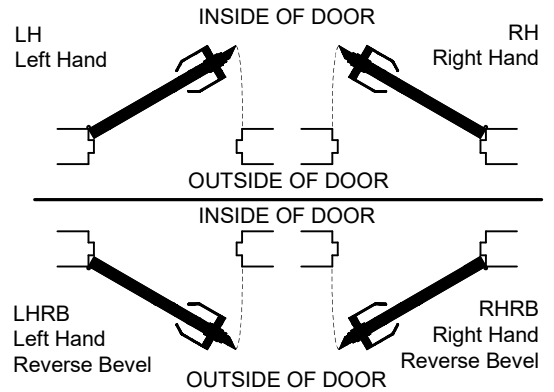
Jamb ℄

4-7/8"

3-17/32"

1" Holes
1-1/8"
Deep

3/8" Strike ℄

Lock ℄

3/8"

5/32"

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## C. Install Lockcase

1. Verify Handing

Make sure the lock hand matches the door hand, use the following diagram to determine the hand of door.

If the latchbolt handing doesn't match the required handing, follow step **1a**. If the locked side is on the wrong side, follow step **1b**. If both latchbolt and locked side do not match the required handing, follow both steps **1a** *and* **1b**.

INSIDE OF DOOR

LH Left Hand   RH Right Hand

OUTSIDE OF DOOR

INSIDE OF DOOR

LHRB Left Hand Reverse Bevel   RHRB Right Hand Reverse Bevel
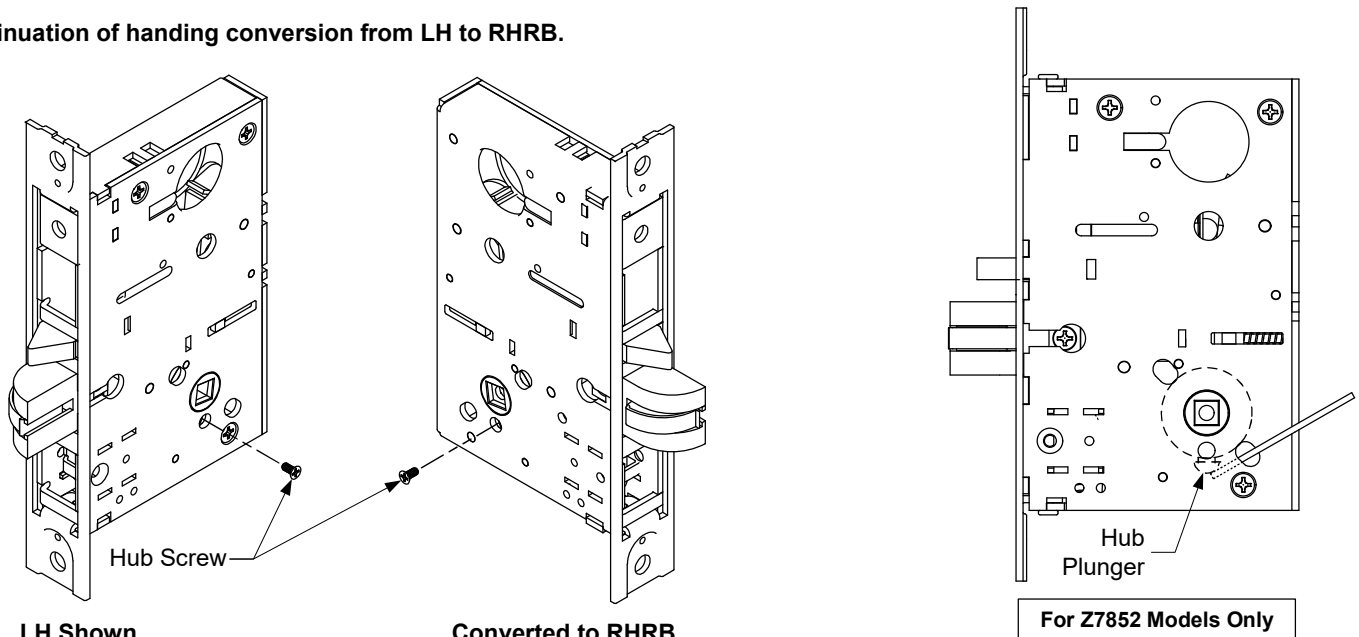
OUTSIDE OF DOOR

1a. Change Latchbolt Handing

Remove the latchbolt screw and pull the latchbolt out from lock case. Turn the latchbolt 180° to change the handing. Position latchbolt back into case and re-fasten latchbolt screw to opposite side.

Latchbolt Screw

180°

LHRB Shown   **Converted to LH**
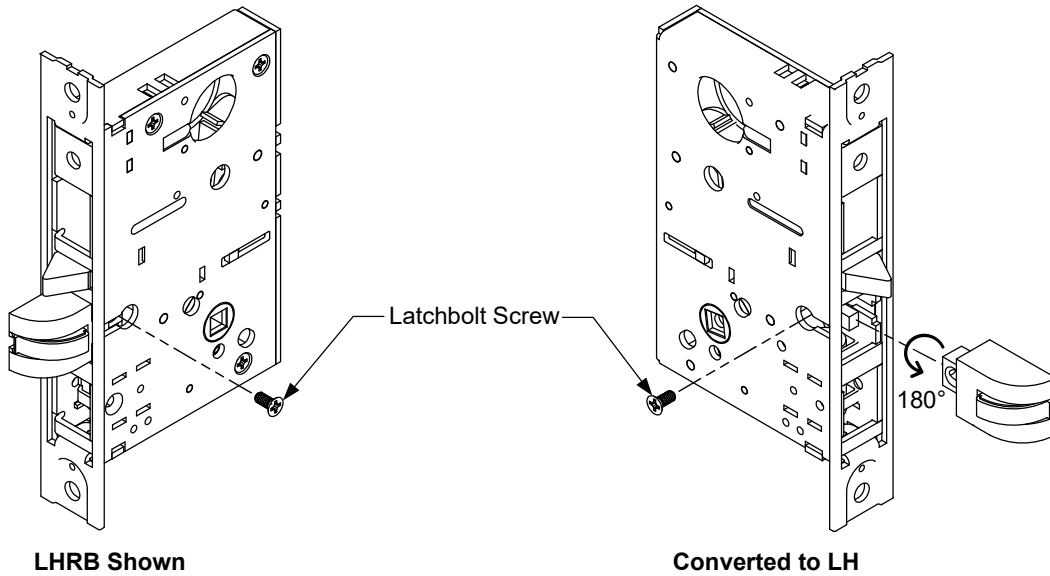
1b. Change Locked Side Handing

Remove hub screw from hub on the unlocked side of lockset. Install catch screw into opposite side of lockset. For Z7852 Models, depress the hub plunger using a narrow rod (e.g., a small hex wrench) to install catch screw.

Continuation of handing conversion from LH to RHRB.

Hub Screw

LH Shown   **Converted to RHRB**

Hub Plunger

For Z7852 Models Only

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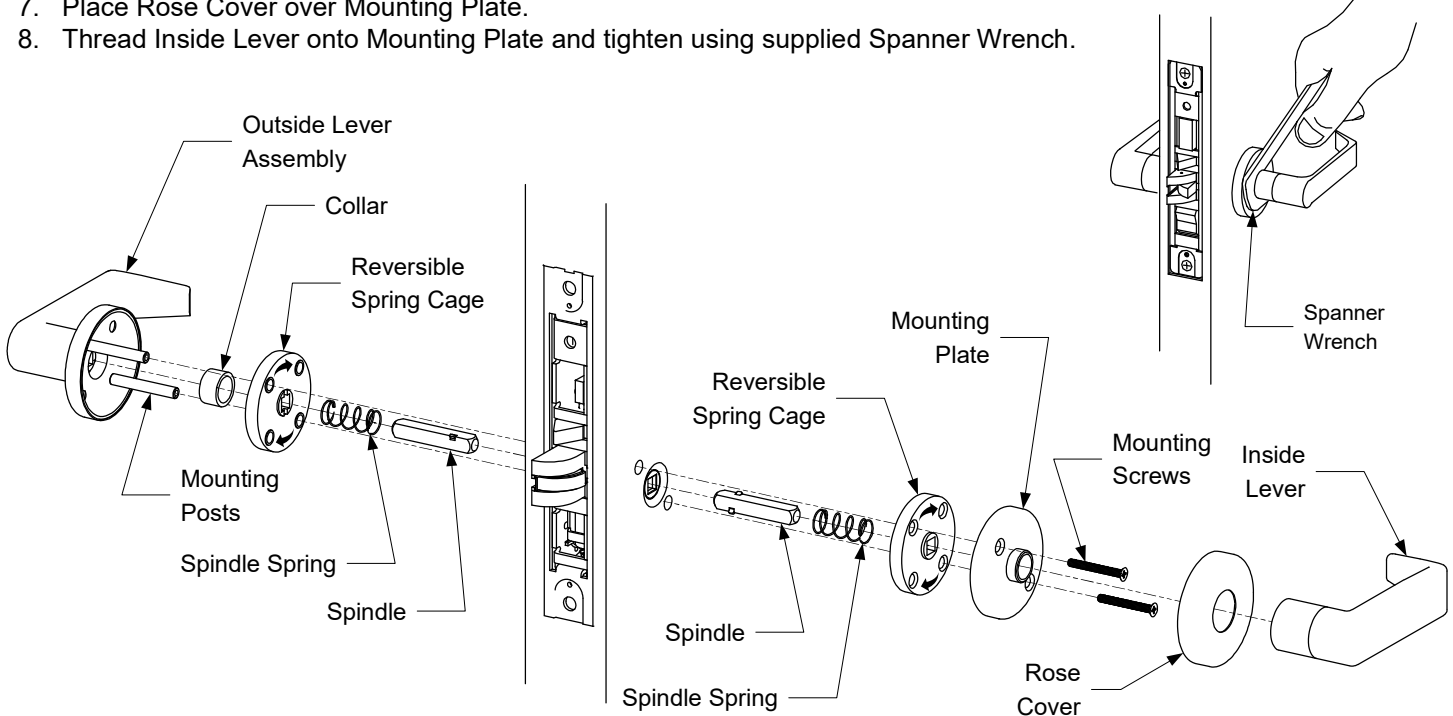
C. Install Lockcase (Continued)

2. Connect wires as shown on the lock cover diagram (or refer to page 7 of instructions).

3. Insert lockcase into mortise cut-out and fasten to door using screws.
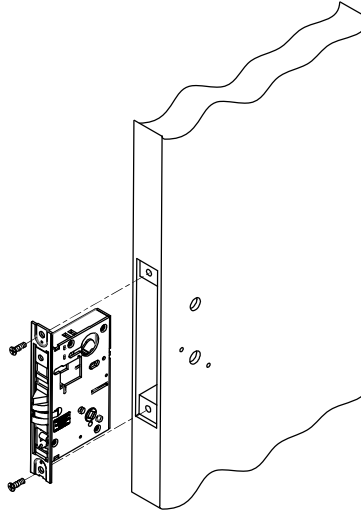
D. Install for Rose Lever Trim

1. Install Outside Lever Assembly first.
2. Guide the Spindle Spring over Spindle, then insert Spindle into the outside side of mortise lockset.
3. Insert Collar into Outside Lever Assembly. Guide the Reversible Spring Cage over Mounting Posts with arrows pointing in direction of lever rotation.
4. Insert the Outside Lever Mounting Post through holes in door.
5. Install Inside Lever Assembly by guiding Reversible Spring Cage over the inside Spindle and Spindle Spring with arrows pointing in direction of lever rotation.
6. Place Mounting Plate over Reversible Spring Cage and secure by threading Mounting Screws into Mounting Posts.
7. Place Rose Cover over Mounting Plate.
8. Thread Inside Lever onto Mounting Plate and tighten using supplied Spanner Wrench.

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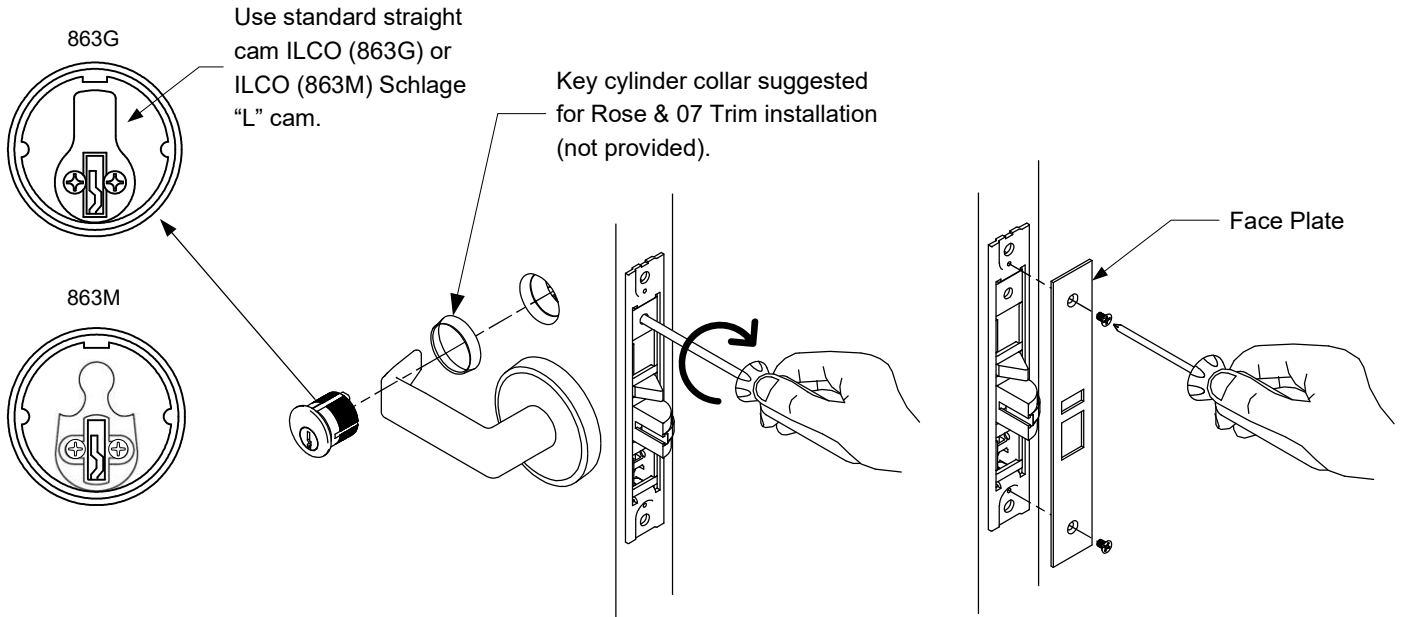
D. Install for 07 Lever Trim

1. Install the Outside Lever Assembly first.
2. Insert Spindle into the outside side of mortise lockset.
3. Place the Spring, Collar and then Reversible Spring Cage onto the Outside Lever Assembly with the Spring Cage arrows pointing in direction of lever rotation.
3. Insert the Outside Lever Mounting Post through holes in door.
4. Install Inside Lever by placing Reversible Spring Cage over inside Spindle with Spring Cage arrows pointing in direction of lever rotation.
5. Place Mounting Plate over Reversible Spring Cage and secure by threading Mounting Screws into Mounting Posts.
6. Insert Spring into Mounting Plate.
7. Place Rose Cover plate over Mounting Plate.
8. Thread Inside Lever onto Mounting Plate and tighten with supplied Spanner Wrench.
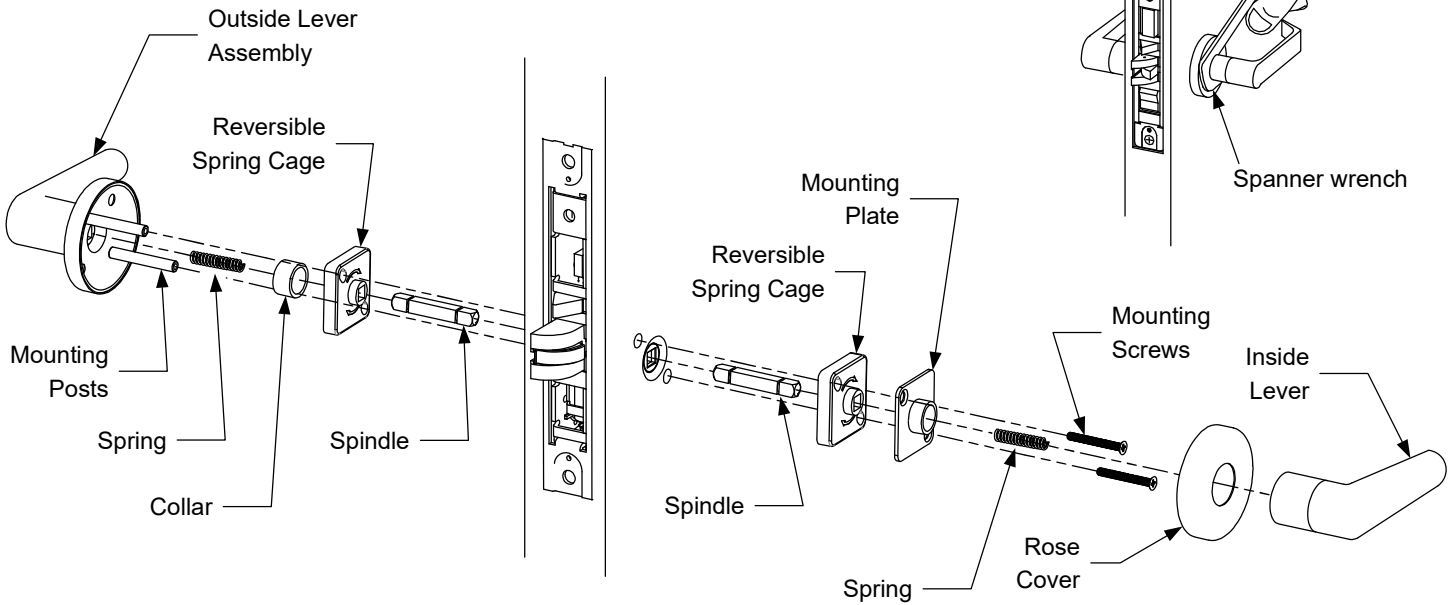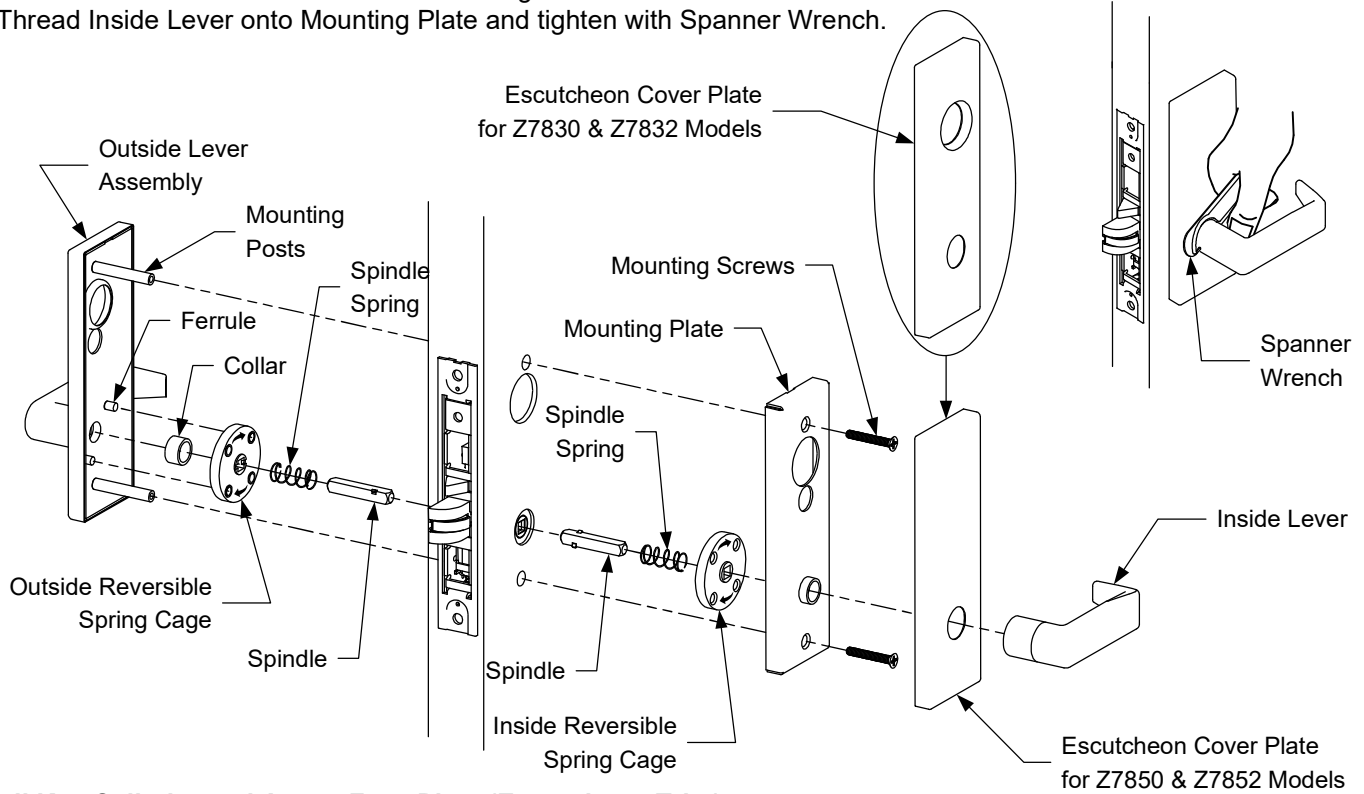
Install Key Cylinder and Armor Face Plate (Rose & 07 Trim)

1. Screw key cylinder into threaded hole of the lock case (Key cylinder not provided).
2. Tighten the set screw against cylinder by turning clockwise as shown.
3. Install face plate onto the lock case and fasten with supplied screws.

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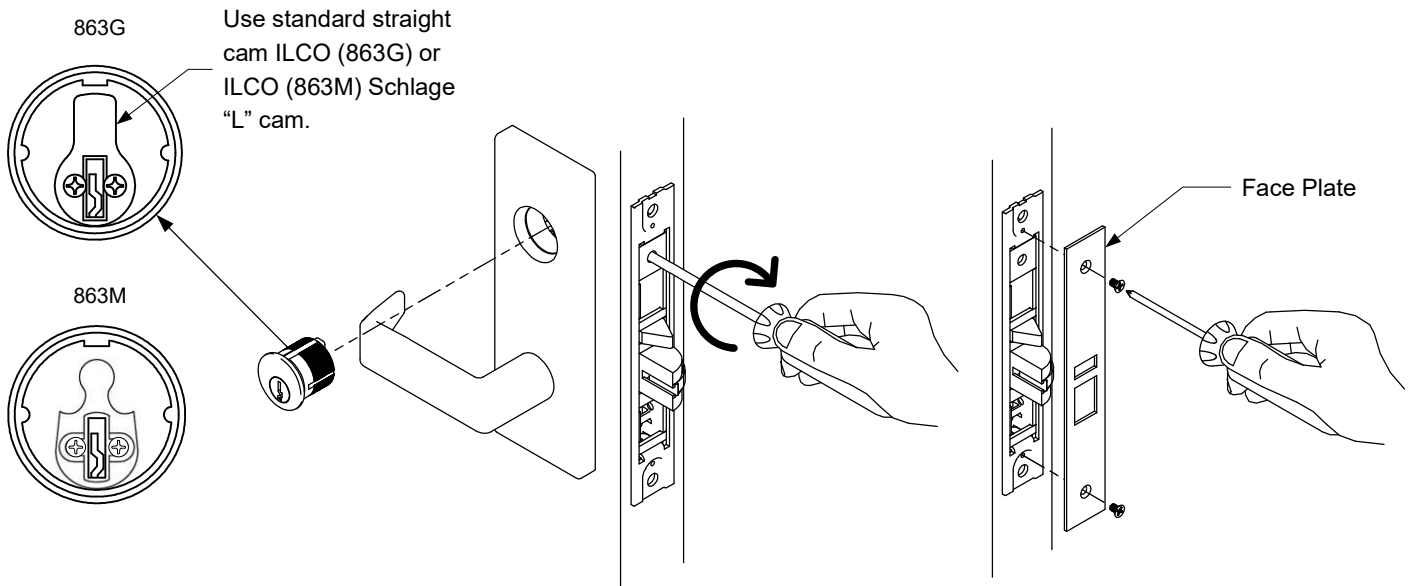
D. Install for Escutcheon Lever Trim

1. Install the Outside Lever first.
2. Place Spindle Spring over outside Spindle, then insert Spindle into the outside sides of lockset.
3. Insert Collar into Outside Lever Assembly. Place Reversible Spring Cage over Ferrules with Spring Cage arrows pointing in direction of lever rotation.
4. Install Outside Lever Assembly by inserting Mounting Posts through holes in door.
5. Install Inside Lever by placing Reversible Spring Cage over inside Spindle and Spindle Spring with the spring cage arrows pointing in direction of lever rotation.
6. Place mounting plate over Reversible Spring Cage and secure by threading Mounting Screws into Mounting Posts.
7. Install escutcheon Cover Plate over Mounting Plate.
8. Thread Inside Lever onto Mounting Plate and tighten with Spanner Wrench.

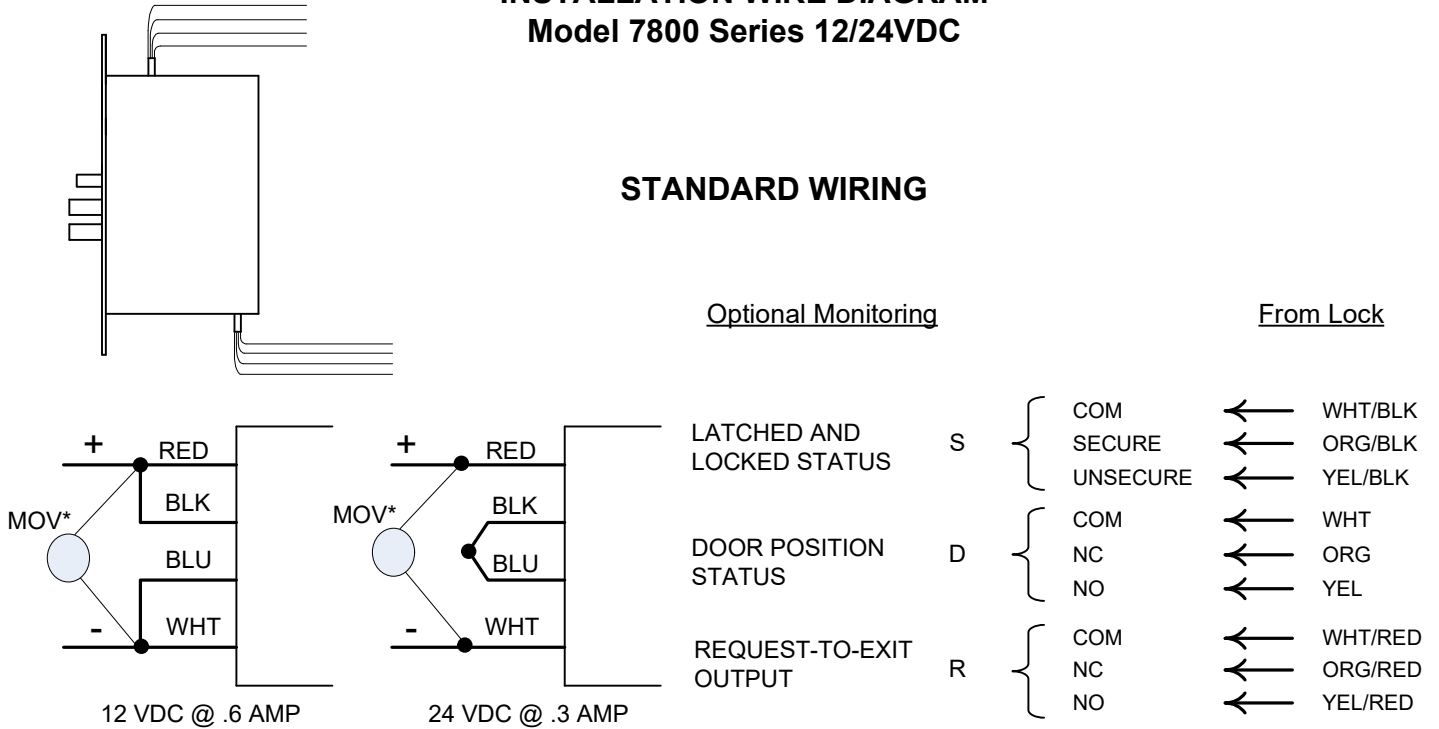### Install Key Cylinder and Armor Face Plate (Escutcheon Trim)

1. Screw key cylinder into threaded hole of the lock case (Key cylinder not provided).
2. Tighten the set screw against cylinder by turning clockwise as shown.
3. Install face plate onto the lock case and fasten with supplied screws.

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INSTALLATION WIRE DIAGRAM
Model 7800 Series 12/24VDC

STANDARD WIRING

Optional Monitoring — From Lock

LATCHED AND LOCKED STATUS	S	COM	←	WHT/BLK
		SECURE	←	ORG/BLK
		UNSECURE	←	YEL/BLK
DOOR POSITION STATUS	D	COM	←	WHT
		NC	←	ORG
		NO	←	YEL
REQUEST-TO-EXIT OUTPUT	R	COM	←	WHT/RED
		NC	←	ORG/RED
		NO	←	YEL/RED

+ RED
BLK
BLU
- WHT
MOV*

12 VDC @ .6 AMP

+ RED
BLK
BLU
- WHT
MOV*

24 VDC @ .3 AMP

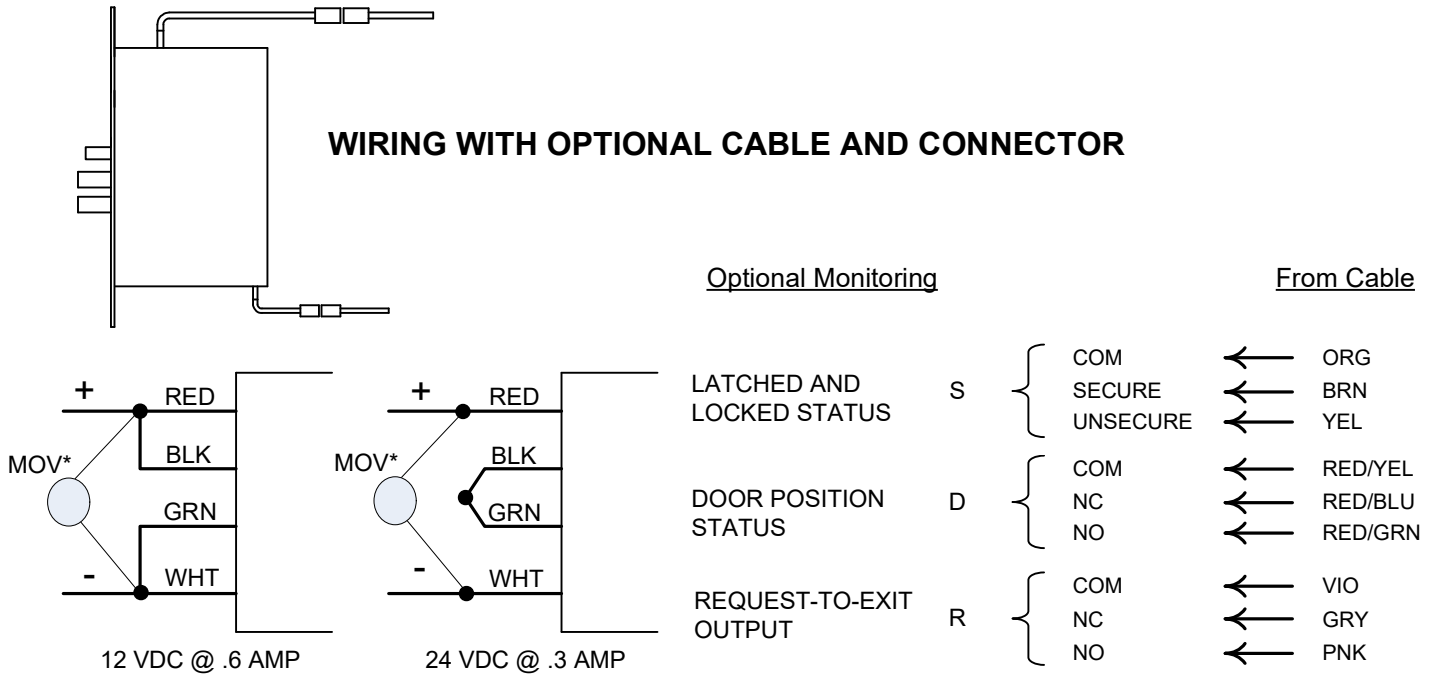### Dual Coil Solenoid

*Install MOV across coil to protect ACS electronics.
Install as close as possible to the lock

## WIRING WITH OPTIONAL CABLE AND CONNECTOR

Optional Monitoring — From Cable

LATCHED AND LOCKED STATUS	S	COM	←	ORG
		SECURE	←	BRN
		UNSECURE	←	YEL
DOOR POSITION STATUS	D	COM	←	RED/YEL
		NC	←	RED/BLU
		NO	←	RED/GRN
REQUEST-TO-EXIT OUTPUT	R	COM	←	VIO
		NC	←	GRY
		NO	←	PNK

+ RED
BLK
GRN
- WHT
MOV*

12 VDC @ .6 AMP

+ RED
BLK
GRN
- WHT
MOV*

24 VDC @ .3 AMP

Dual Coil Solenoid

*Install MOV across each coil to protect ACS electronics.
Install as close as possible to the lock

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FAIL SAFE/FAIL SECURE CONVERSION
Procedure To Change SDC Fail Safe Solenoid To Fail Secure

Fail Safe Assembly

Remove fail safe solenoid

Spring and washer supplied in case for fail secure conversion.
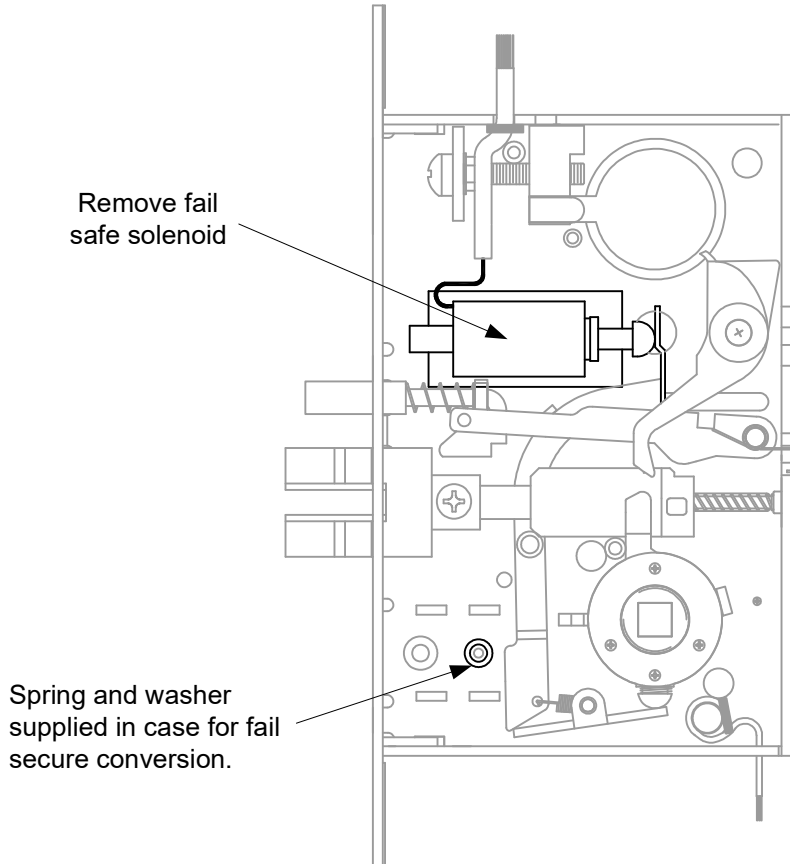
Disassemble fail safe solenoid by unscrewing rod tip assembly from plunger.

Plunger

Fail safe

Solenoid body
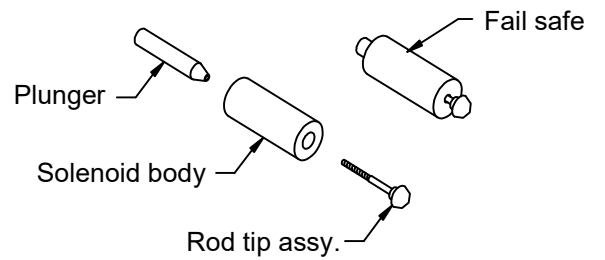
Rod tip assy.

Fail Secure Assembly

Insert washer and spring onto rod tip assembly and screw into plunger until it bottoms out.
Insert plunger/rod tip into solenoid.

Solenoid body

Plunger

Spring

Washer

Rod tip assy.

Fail secure

Replace solenoid in holder as shown.