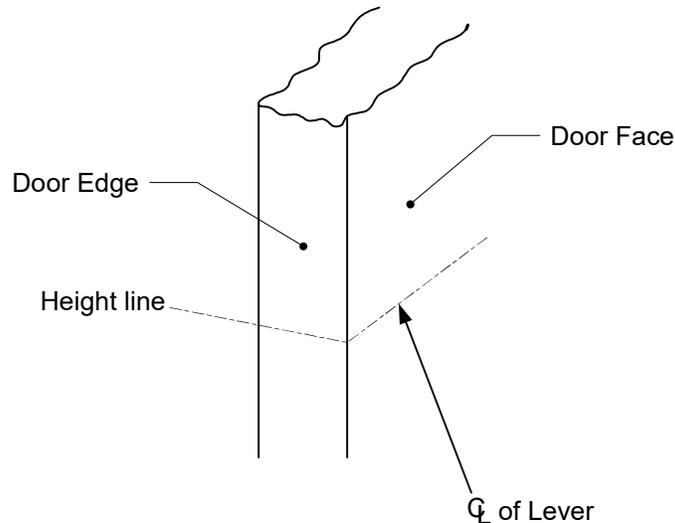


INSTALLATION INSTRUCTIONS

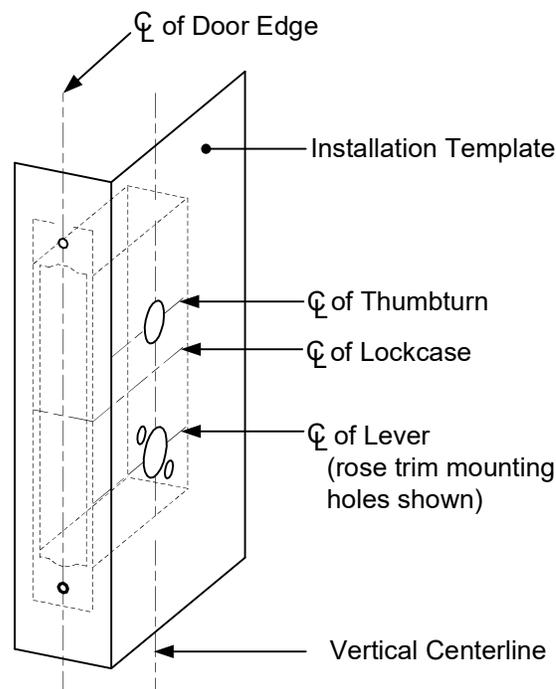
Z7870/72 & Z7880/82 PRO SERIES SOLENOID CONTROLLED MORTISE DEADBOLT LOCKSET

A. Door Preparation:

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

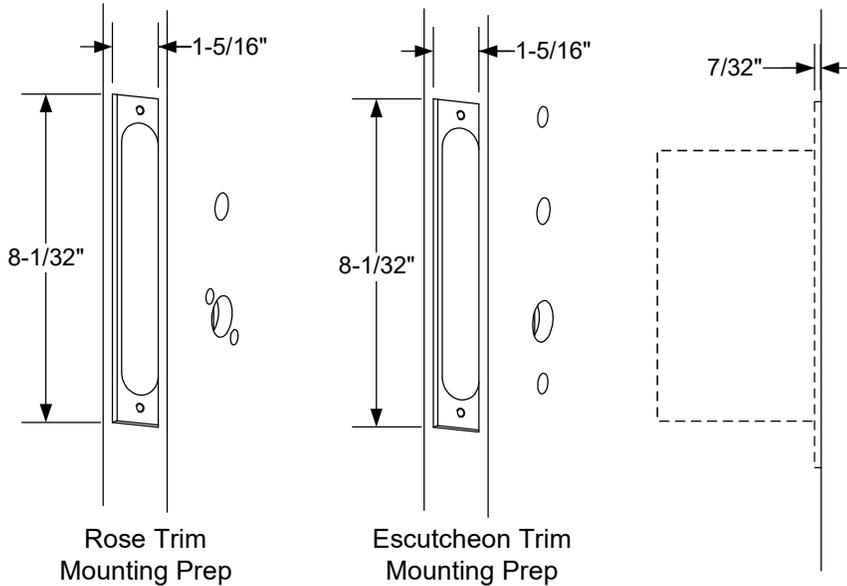


2. Place template on edge of door as shown and align lever centerline with marked height line on door. Check the chart for drilling trim holes on template and only mark holes for lock function being installed.



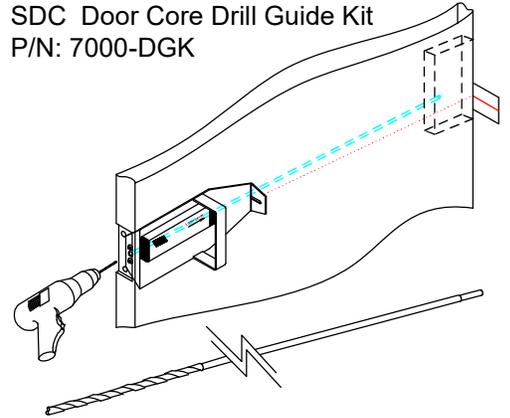
A. Door Preparation (Continued)

- Mortise door edge according to measurements on installation template and drill proper holes for trim.
Dimensions for face plate recess: L 8-1/32" x W 1-5/16" x D 7/32".



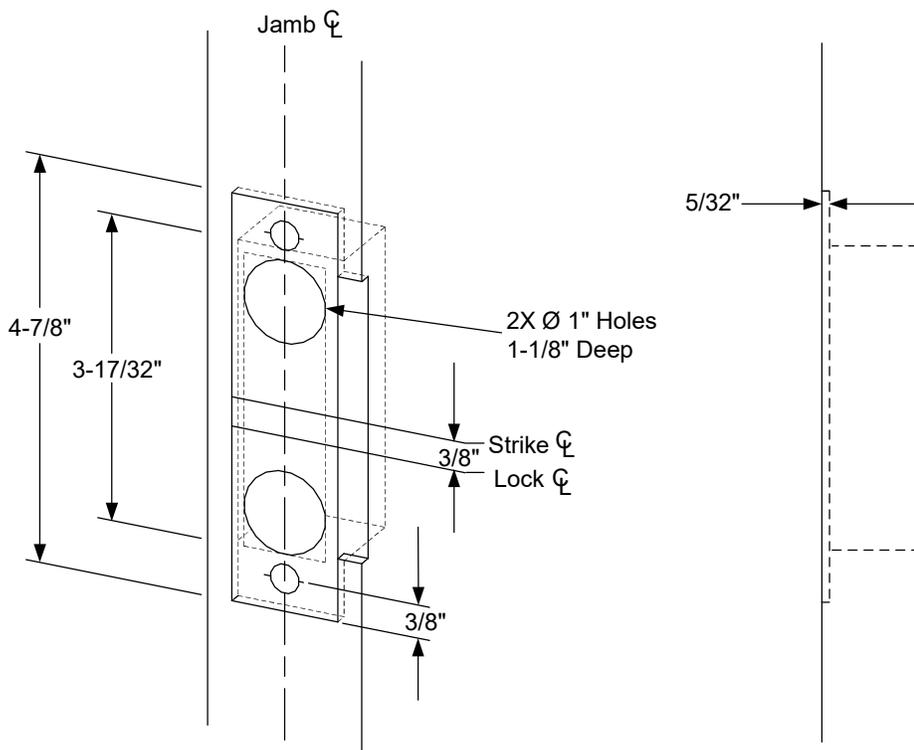
Wire Raceway suggested for wood doors.

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



B. Strike & Dust Box Installation:

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

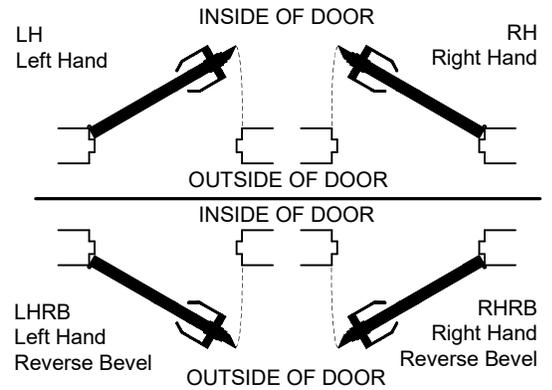


C. Install Lockcase

1. Verify Handing

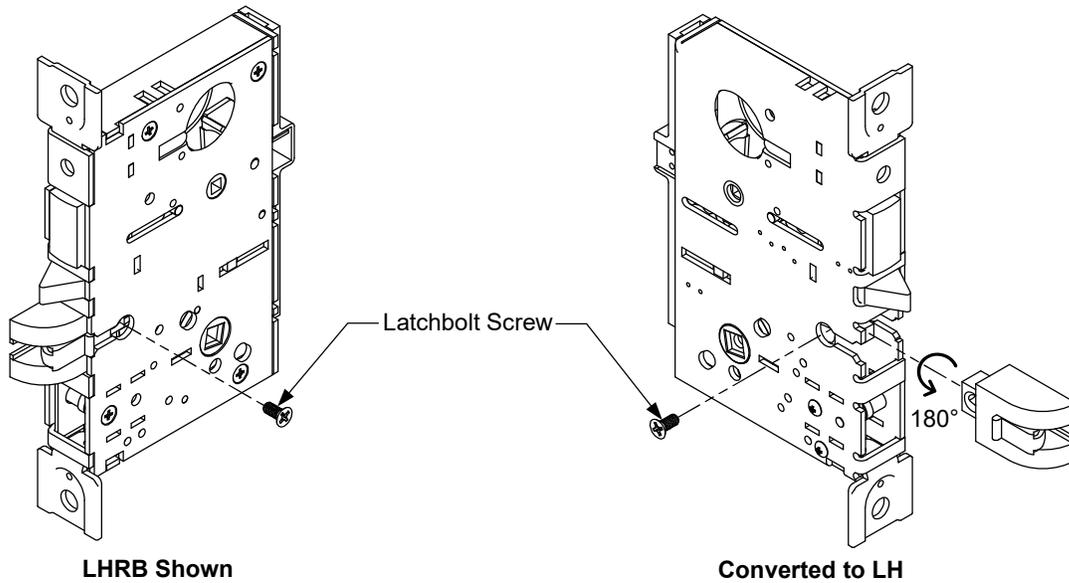
Make sure the lock hand matches the door hand, use the following diagram to determine the hand of door.

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**.



1a. Change Latchbolt Handing

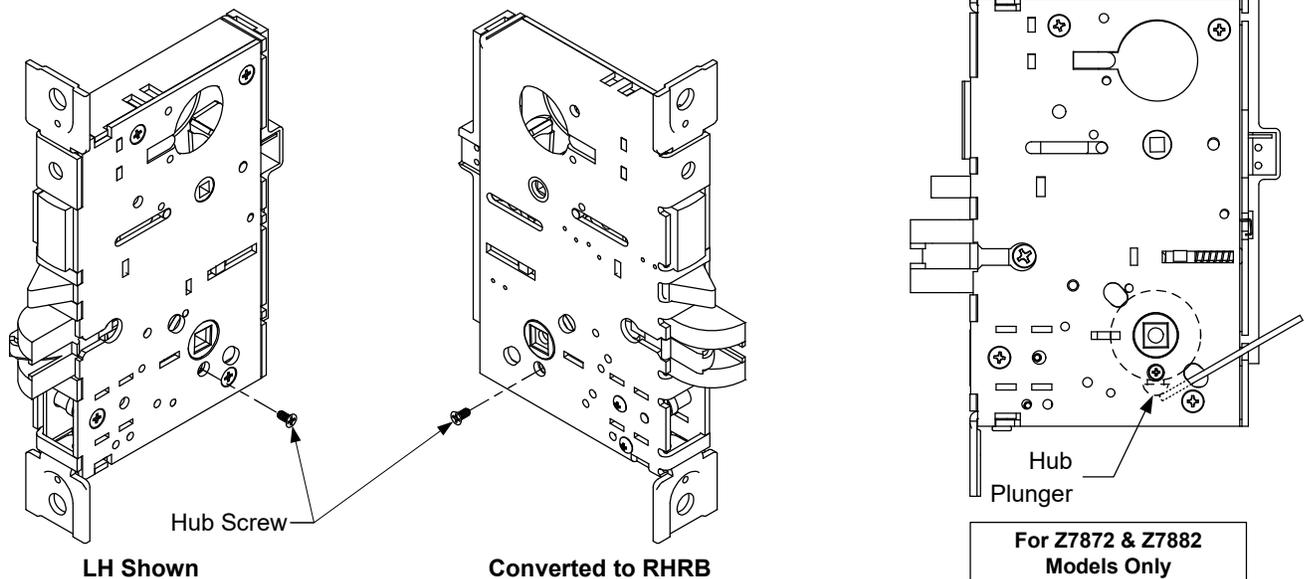
Remove the latchbolt screw and pull the latchbolt out from lock case. Turn the latchbolt 180° to change the handing. Position latchbolt back into case and re-fasten latchbolt screw to opposite side.



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 Z7872 & Z7882 Models, depress the hub plunger using a narrow rod (e.g., a small hex wrench) to install catch screw.

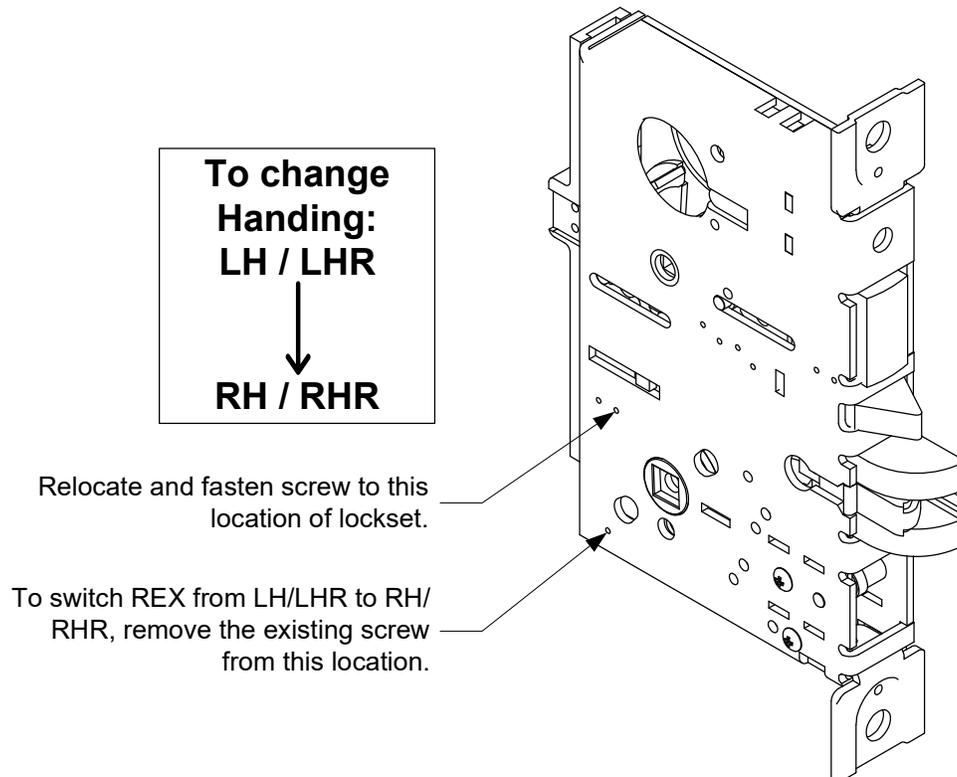
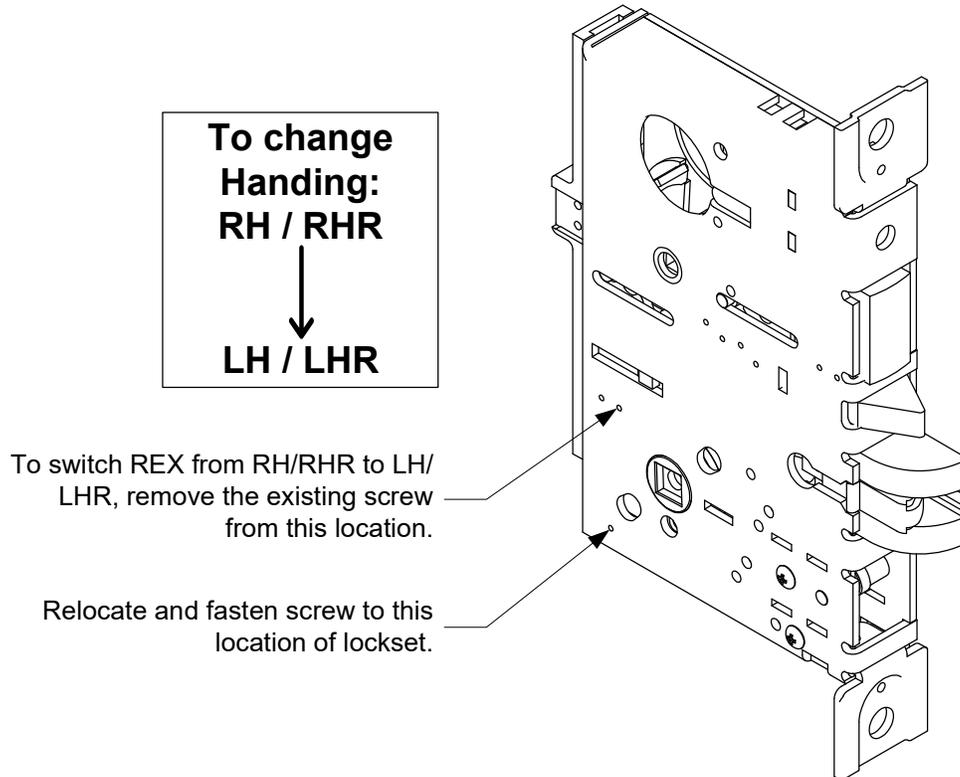
Continuation of handing conversion from LH to RHRB.



C. Install Lockcase (Continued)

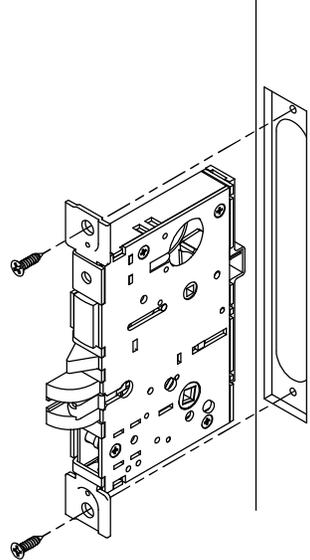
2. Change REX Handing (For devices with REX option only)

To switch the handing for the REX option, follow the instructions below.



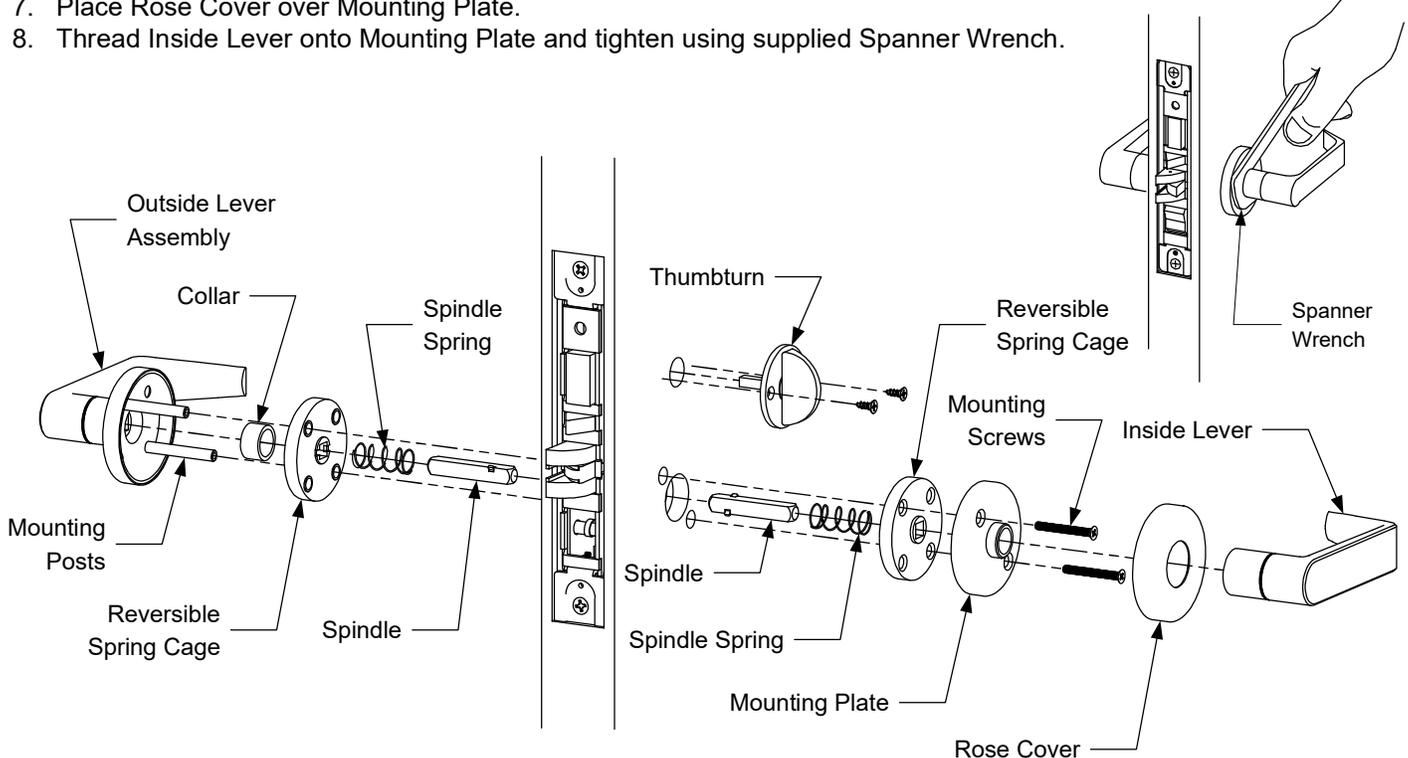
C. Install Lockcase (Continued)

3. Connect wires as shown on the lock cover diagram (or refer to page 8 of instructions).
4. Insert lockcase into mortise cut-out and fasten to door using screws.



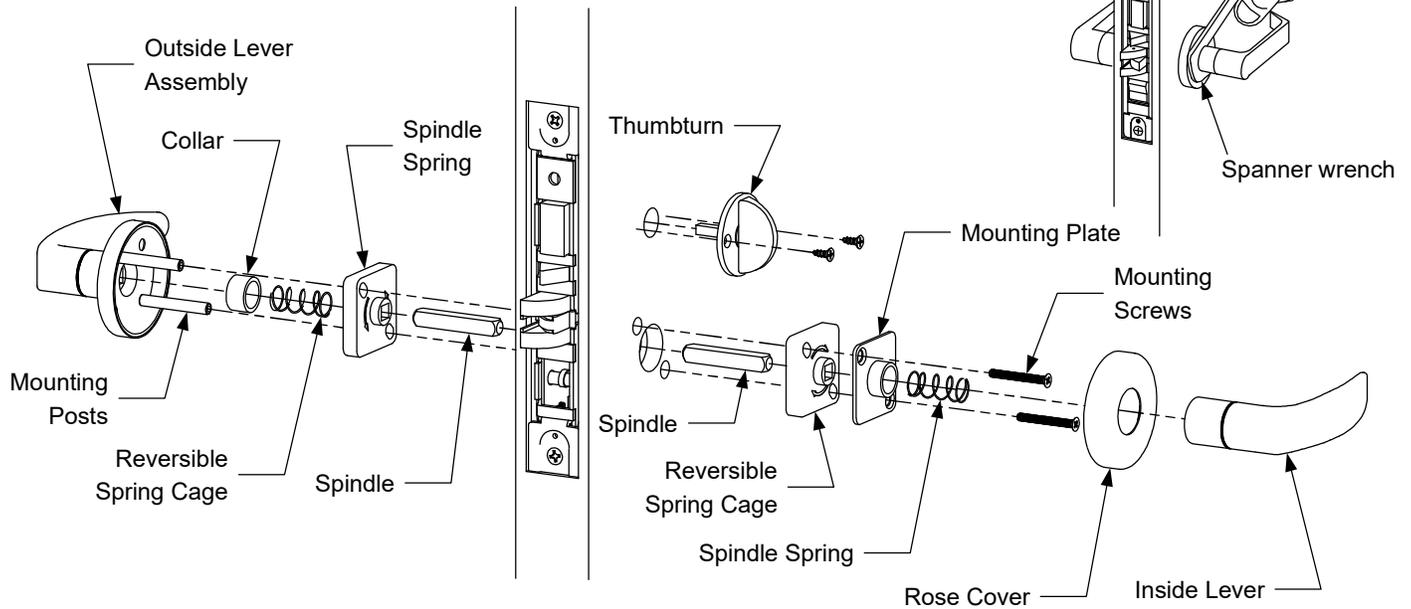
D. Install for Rose Lever Trim

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.



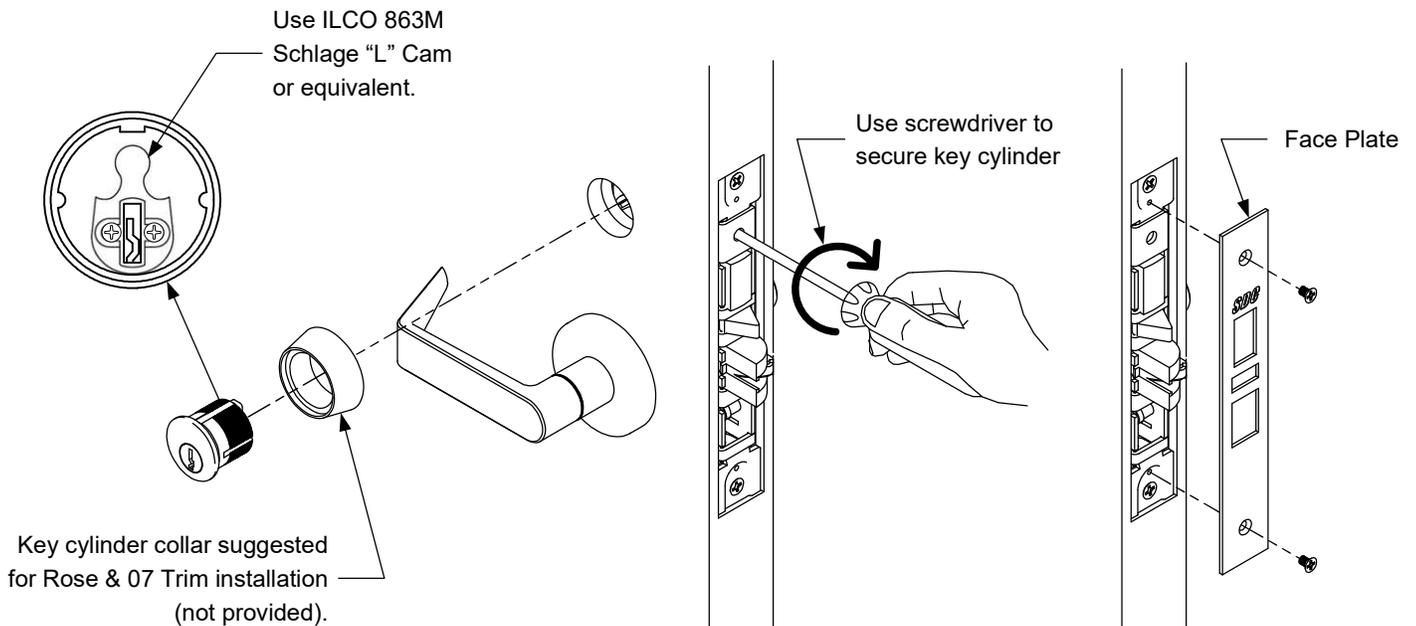
D. Install for 07 Lever Trim

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.



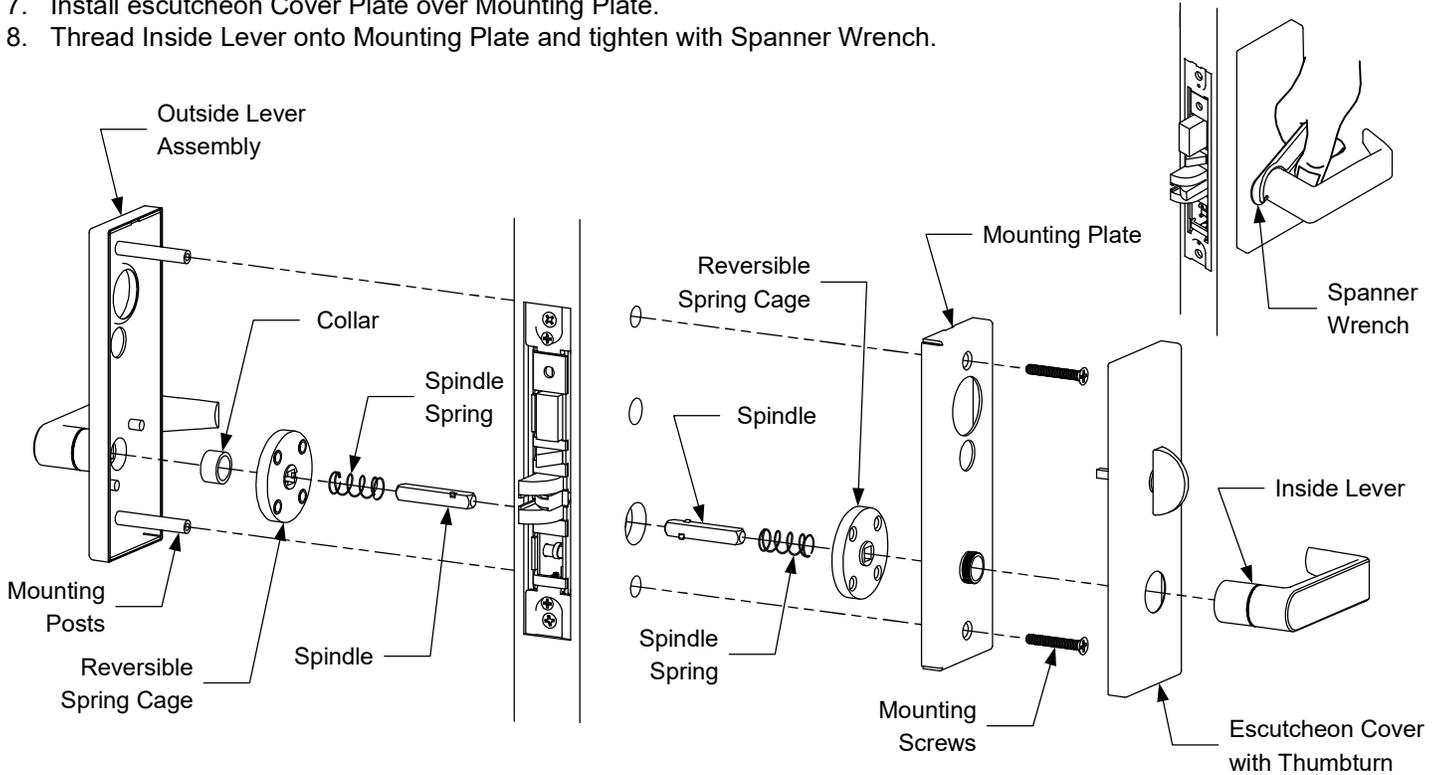
Install Key Cylinder and Armor Face Plate (Rose & 07 Trim)

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.



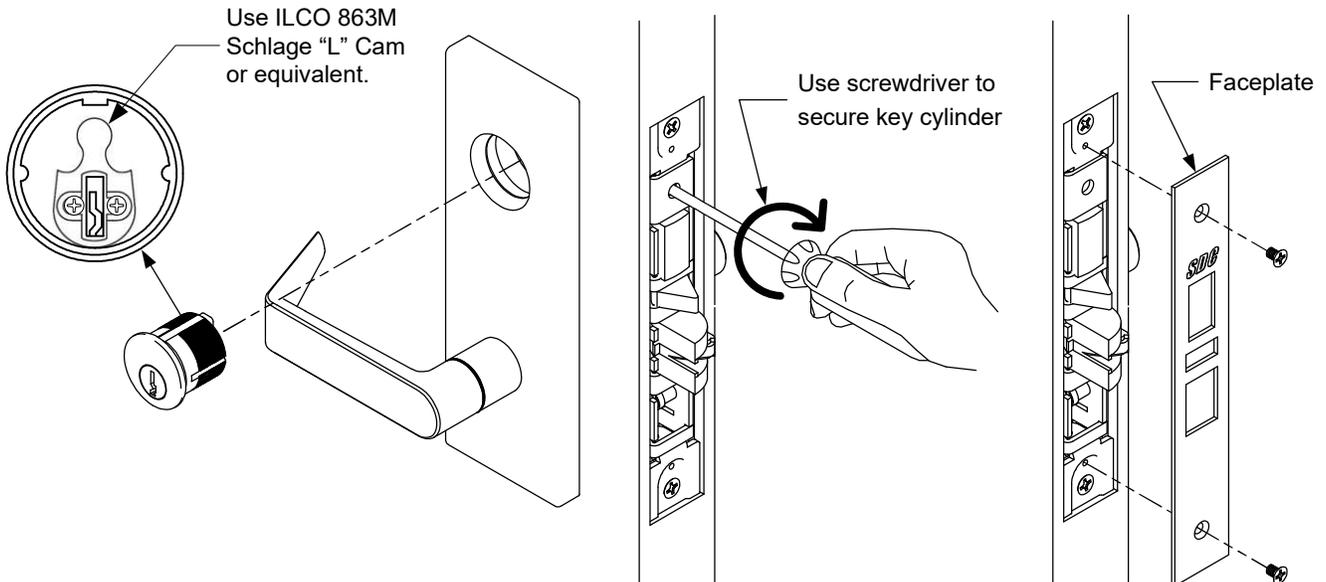
D. Install for Escutcheon Lever Trim

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.



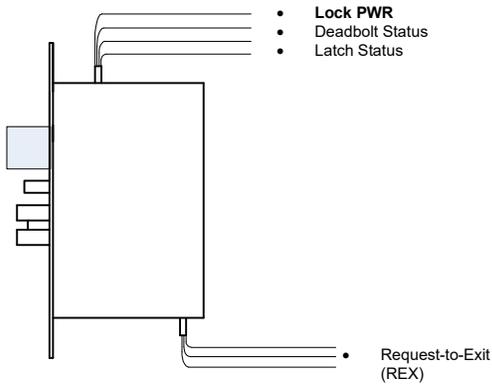
Install Key Cylinder and Armor Face Plate (Escutcheon Trim)

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.



INSTALLATION WIRE DIAGRAM Model 7870/72 & 7880/82 Series

STANDARD WIRING 12 or 24VDC (Locks are voltage specific) 12VDC@.6AMP; 24VDC@.3AMP



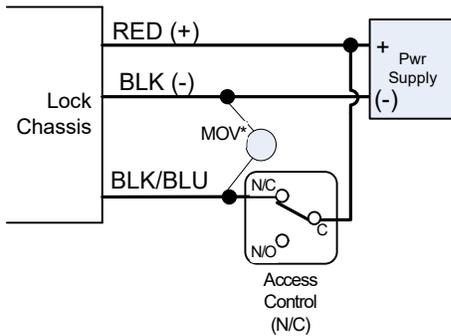
Optional Monitoring

From Lock

LATCH STATUS (L) SPDT 5A@30VDC (switch polarity shown w/ latch extended)	{ COM ← WHT { NC ← ORG { NO ← YEL
DEADBOLT STATUS (B) SPDT 5A@30VDC (switch polarity shown w/ deadbolt retracted)	{ COM ← WHT/BLK { NC ← YEL/BLK { NO ← ORG/BLK
REQUEST-TO-EXIT (R) SPDT 5A@30VDC (switch polarity shown w/ inside lever released)	{ COM ← WHT/RED { NC ← ORG/RED { NO ← YEL/RED

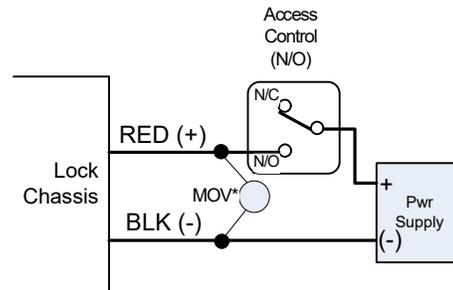
Z7880 (Failsafe) Lock Power (12VDC)

Access control does not engage the outside lever when the deadbolt is thrown. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



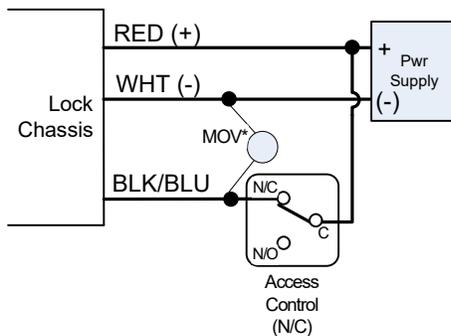
Z7882 (Failsecure) Lock Power (12VDC)

Access control does not engage the outside lever when the deadbolt is thrown. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



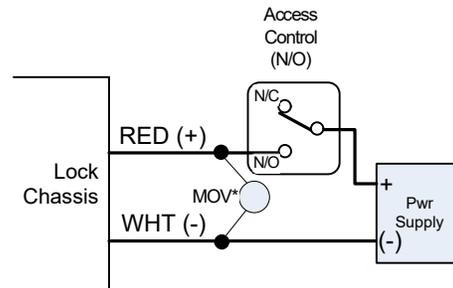
Z7880 (Failsafe) Lock Power (24VDC)

Access control does not engage the outside lever when the deadbolt is thrown. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



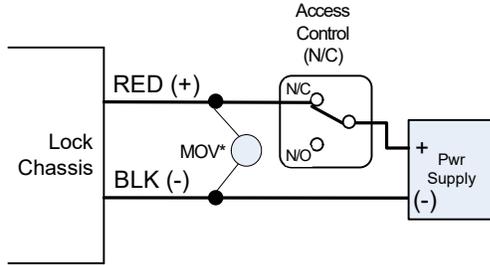
Z7882 (Failsecure) Lock Power (24VDC)

Access control does not engage the outside lever when the deadbolt is thrown. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



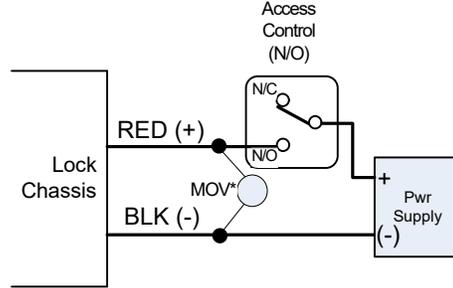
Z7870 (Failsafe) Lock Power (12VDC)

Access control always engages outside lever. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



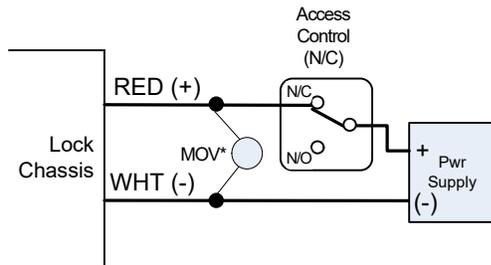
Z7872 (Failsecure) Lock Power (12VDC)

Access control always engages outside lever. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



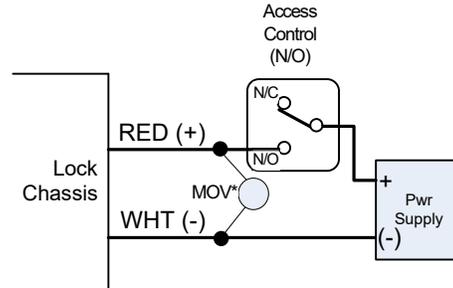
Z7870 (Failsafe) Lock Power (24VDC)

Access control always engages outside lever. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



Z7872 (Failsecure) Lock Power (24VDC)

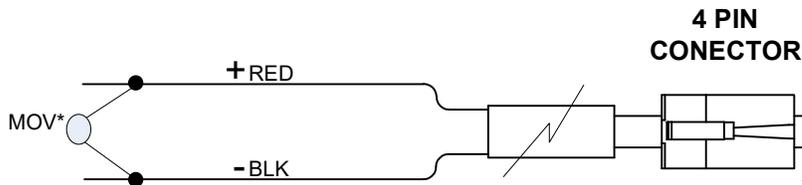
Access control always engages outside lever. *Install MOV across coil to protect ACS electronics, as close as possible to the lock



INSTALLATION WIRE DIAGRAM

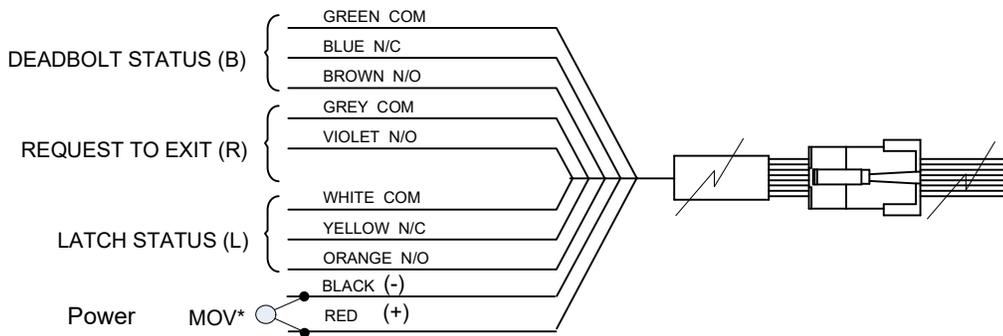
Models with optional cable connectors

STANDARD WIRING (NO OPTIONS)



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

WIRING WITH OPTIONS



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