Access 700®

**Installation Instructions
For ML20700 TCPAC1 Series
Mortise Lockset**

FM304   10/18

Attention Installer

Please read these instructions carefully to prevent missing important steps.

Please Note: Improper installation may result in damage to the lock and void the factory warranty.

Important: The accuracy of the door preparation is critical for proper functioning and security of this lock. Misalignment can cause premature wear and a lessening of security.

DISCONTINUED
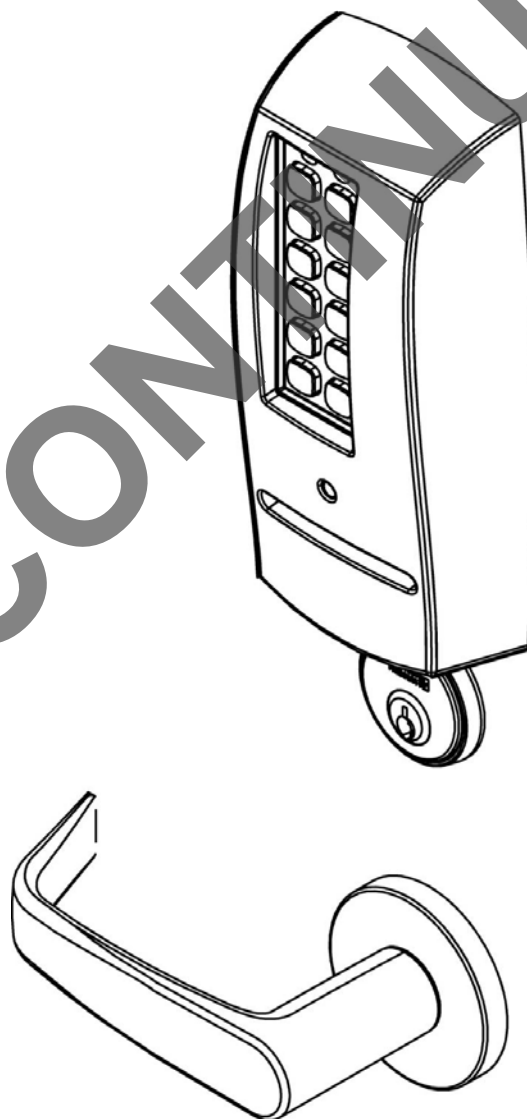
⚠ **WARNING**
This product can expose you to lead which is known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65warnings.ca.gov.

08/2018

For installation assistance contact Corbin Russwin Inc., at 1-800-810-WIRE (9473)

ML20700 Series Mortise Lock

Corbin Russwin®

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Table of Contents

1) Warning

Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
• Reorient or relocate the receiving antenna
• Increase the separation between the equipment and receiver
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
• Consult the dealer or an experienced TV technician for help

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme avec la norme NMB-003 du Canada.

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2) General Description

Designed specifically for the campus market, the Corbin Russwin Access 700 TCPAC1 Series mortise lock provides offline card/PIN access control with both keypad and magstripe card technology (or magstripe only). The reader operates on six (6) "AA" alkaline batteries and may be used for both indoor and outdoor applications. The Access 700 technology is designed around Corbin Russwin's Grade 1 hardware. Weather seal gaskets are included and recommended for all outdoor applications. The Access 700 reader provides visual (LED) and audible indication of lock state (locked/unlocked).

3) Specifications/ Features

- Latch – Stainless Steel (Easily field reversible without disassembling lock body)
- Deadbolt – Stainless Steel
- Door Thickness – 1-3/4" Standard; can be furnished for other door thicknesses upon request. Consult factory.
- Case – 12 gauge heavy duty wrought steel
- Outside lever controlled by keypad/magstripe card, or key retracts latch
- Inside lever retracts latch
- Grade 1; UL Listed
- Card Coercivity: HiCo (400 Oersted) or LoCo (300 Oersted)

Electrical Specifications:

- 1200 users per door
- 700 event transaction audit trail
- Multiple time zone and holiday access scheduling
- First-In unlock configuration, either by time or by valid time or by user (selectable)
- Input power: DC 9V, 1.5A (6 AA Alkaline Batteries or Electrical Power)

PERSONA Campus Software Features:

- Use existing magstripe ID cards (high or low coercivity)
- New key cards can invalidate and reactivate keycards/users – encoded quickly and easily through the "Conference Guest Wizard"
- Assign pre-defined access patterns and access points as well as key card start and end times (group or individually)
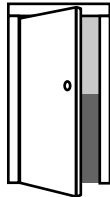
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ASSA ABLOY

4) Product Illustration

Outside

Inside
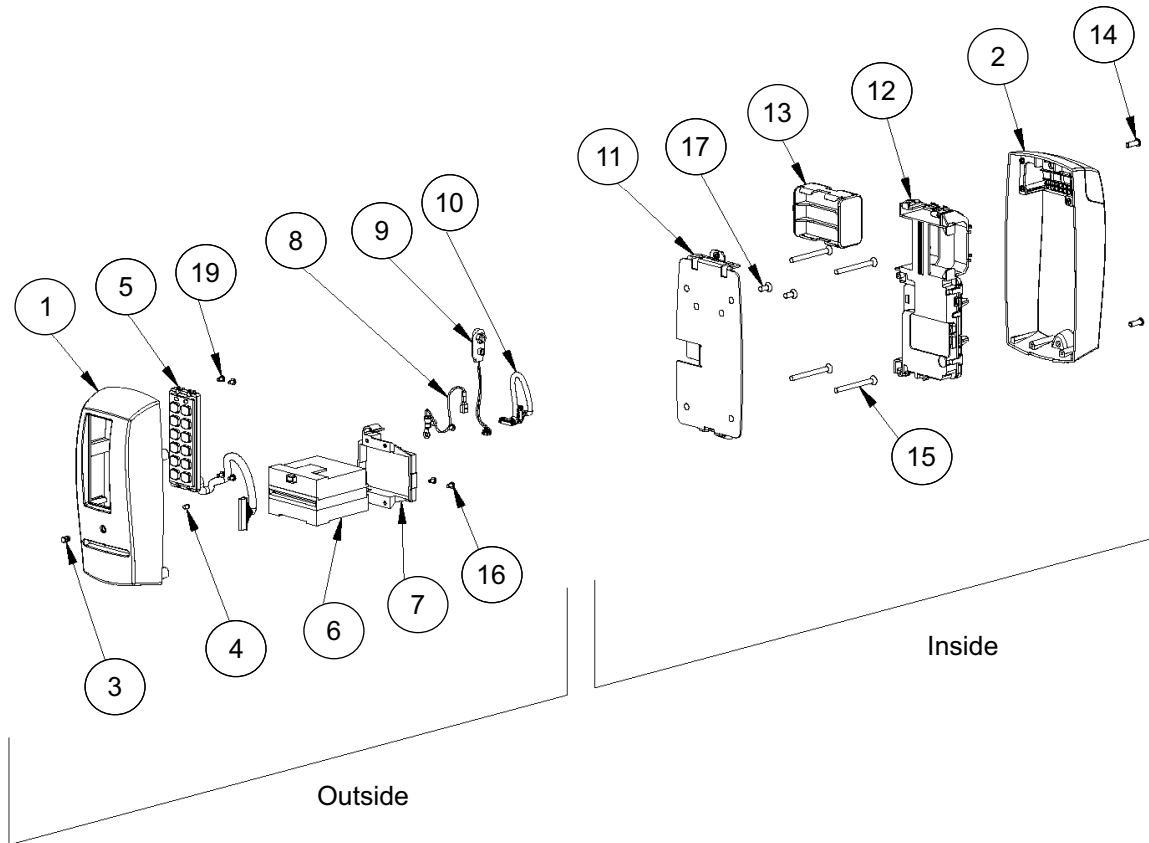
Item	Part Number	Description	Qty.
1	795F125	Escutcheon, O/S, With Keypad, A700 PAC	1
2	795F105	Escutcheon, I/S, A700	1
3	795F069	Light Pipe Lens, A700	1
4	795F059	Light Pipe, A700	1
5	795F039	Keypad Assy, A700	1
6	795F809	Reader, A700 PAC, LCU	1
7	795F449	Mount, LCU	1
8	795F049	Harness, A700 Grounding	1
9	795F019	Harness, A700 Power 9V	1
10	795F009	Harness, A700 PAC, LCU	1
11	795F088	Mounting Plate, I/S A700	1
12	795F809	Electronics Assy, A700 PAC, I/S,	1
13	N/A	Battery Cartridge (part of 795F809)	1
14	795F197	Screw, #8-32x1/2, Torx Pan Head	2
15	323F818	Screw, #8-32x2, Phillips Flat Head Machine	4
16	795F318	Screw, #4-40x1/4, Phillips Pan Head Machine	9

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5) Installation Instructions

1 Verify Hand and Bevel of door. Illustrations shown are as viewed from the outside or secure side of opening.
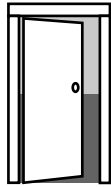
Left Hand
Hinges Left.
Open Inward.
"LH"

Left Hand
Reverse Bevel
Hinges Left.
Open Outward
"LHR"
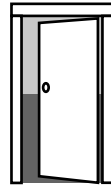
Right Hand
Hinges Right.
Open Inward.
"RH"
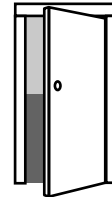
Right Hand
Reverse Bevel
Hinges Right.
Open Outward
"RHR"

**2** Prep door according to door template T31076 visit www.corbinrusswin.com
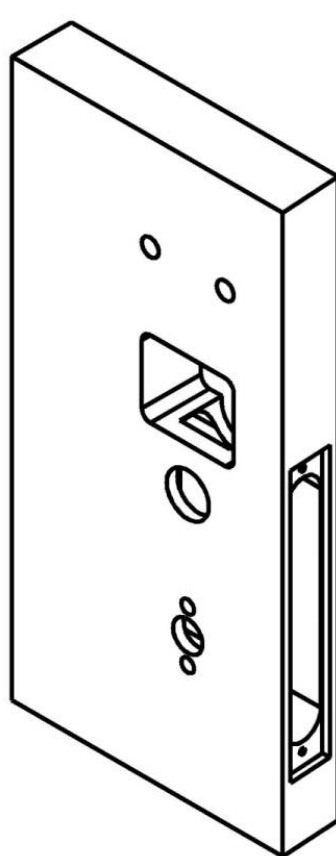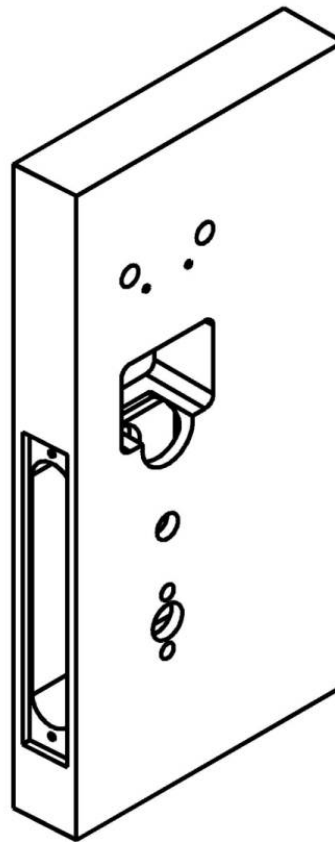
OUTSIDE OF DOOR   **INSIDE OF DOOR**

5) Installation Instructions

3 **Handing of Lock Body**

Step 1) Move the red locking screw to side of lock body being locked (Fig. 1)

Step 2) Push in latch then depress catch plate with screw driver (Fig. 1)

Step 3) Pull latch out of lock body and turn latch over (Fig. 2)

Catch Plate

RED Locking Screw

Figure 1

Figure 2
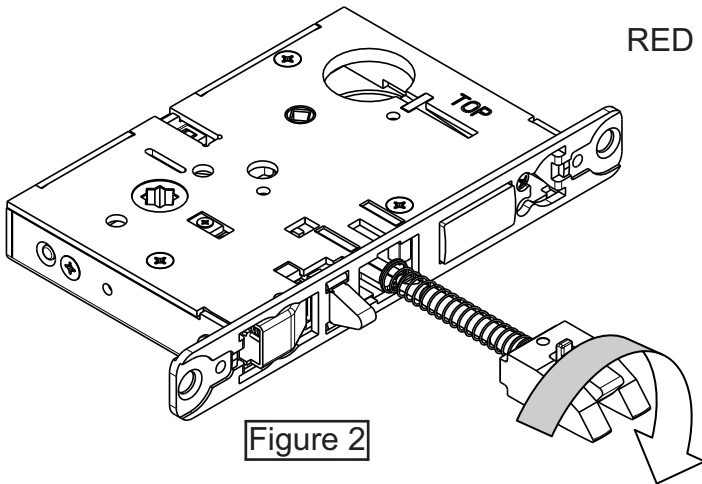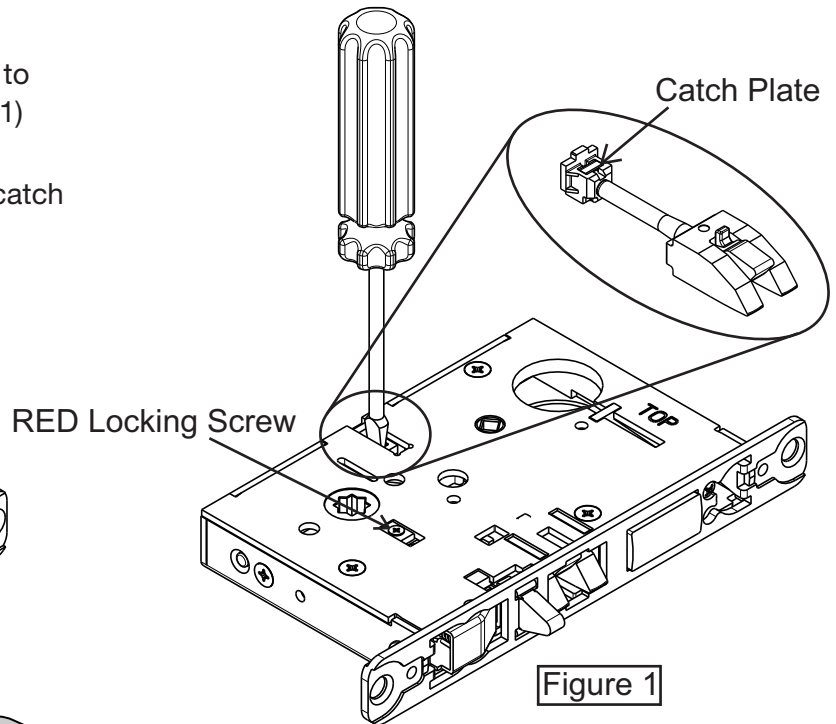
Step 4) Push in latch while holding screw driver behind latch tail (Fig. 3)

Note: Push in latch until catch plate is no longer depressed (Fig. 4)
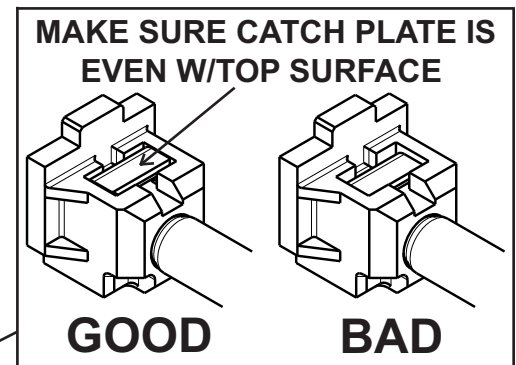
Step 5) Rotate lock front to match bevel of door as shown (Fig. 5)

MAKE SURE CATCH PLATE IS EVEN W/TOP SURFACE

GOOD   **BAD**

Figure 4

Figure 5

Figure 3
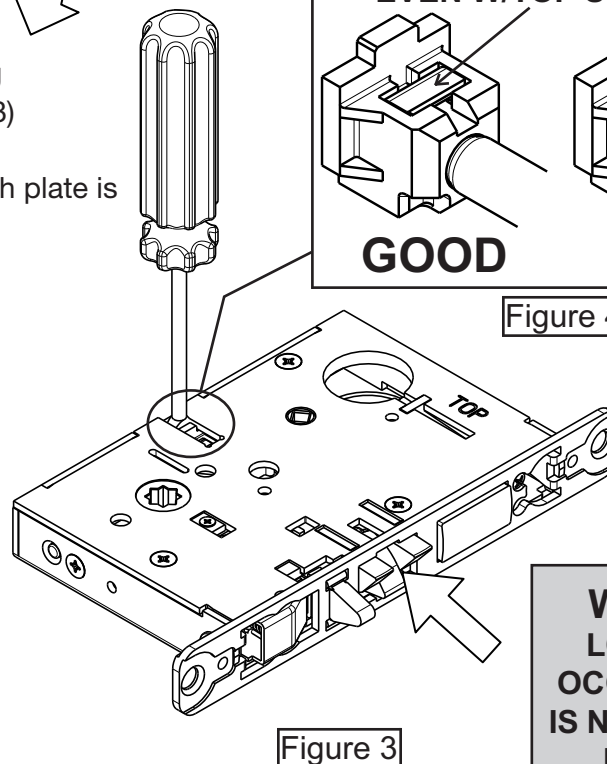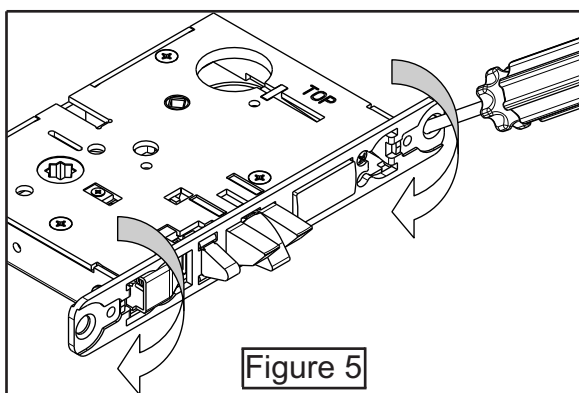
WARNING:
LOCK-IN CAN OCCUR IF LATCH IS NOT PROPERLY INSTALLED

6

5) Installation Instructions

4 **Install Lock Body into Door**

Feed wires through hole as shown. Insert two #12 combination screws.
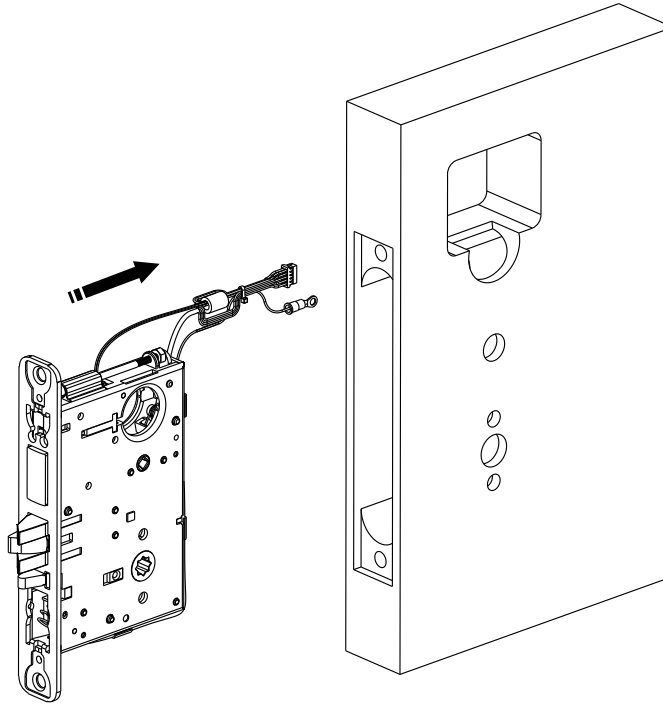
> **IMPORTANT:**
> **Door must remain open**
> **during installation.**
> **Use door stop**

INSTALL TWO
#12 SCREWS
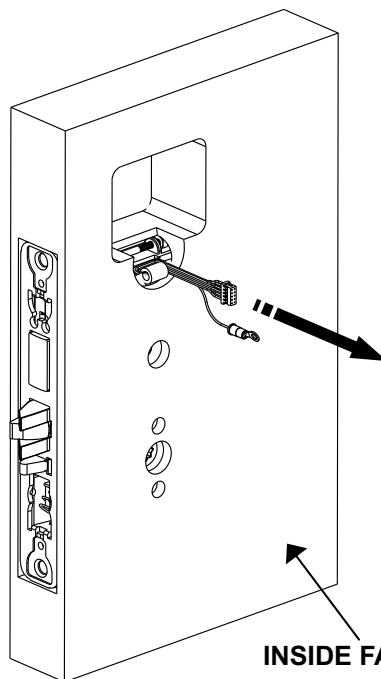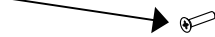
> Pull wires through
> hole while inserting
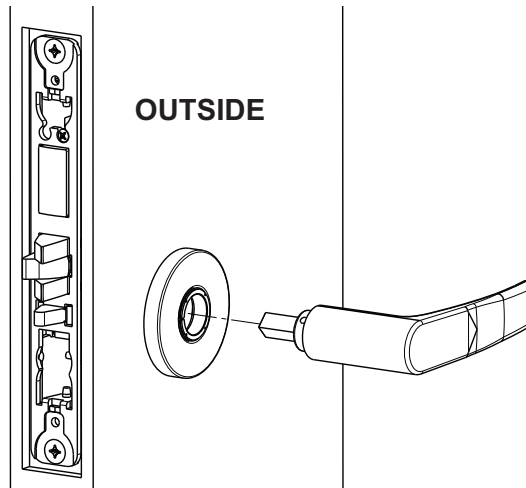> lock body. DO NOT
> push wires back into
> cylinder hole.

INSIDE FACE OF DOOR

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5) Installation Instructions

1.)

INSIDE

OUTSIDE

O/S Adapter Plate

2.)

INSIDE

3.)

OUTSIDE

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5) Installation Instructions

4.)

INSIDE

Use Correct Spindle Orientation

GOOD   BAD
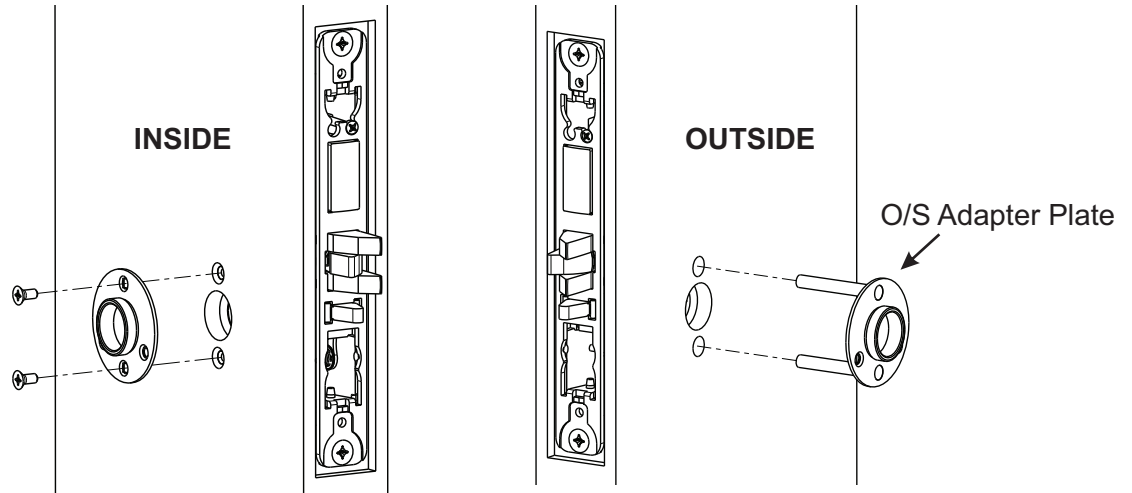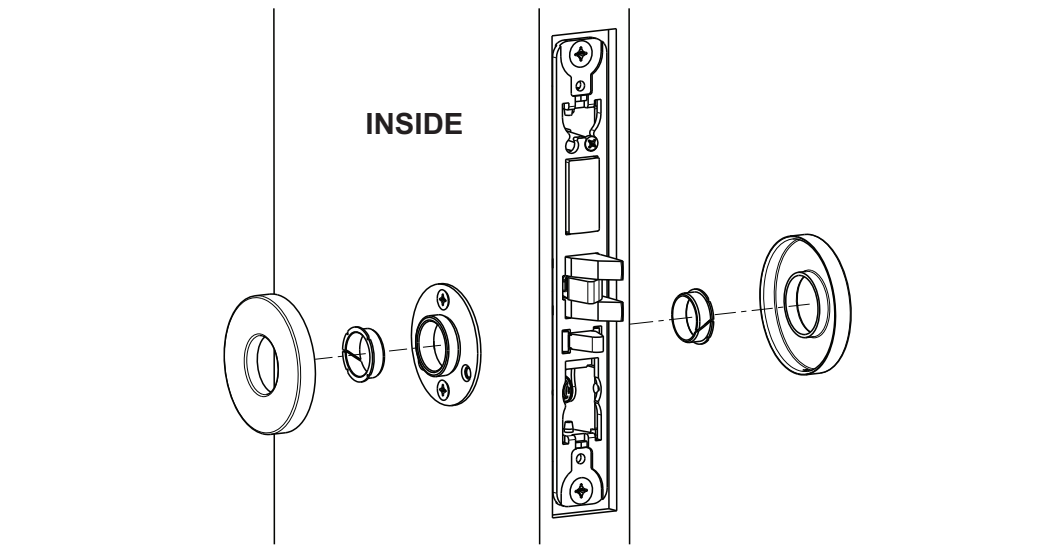
Lever

5.) Align adjustment bolt with threaded hole in lever.
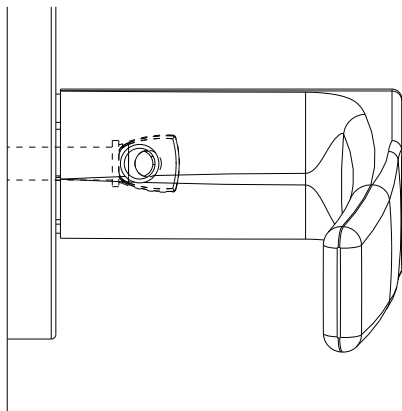
Adjustment bolt needs to be threaded in farther.
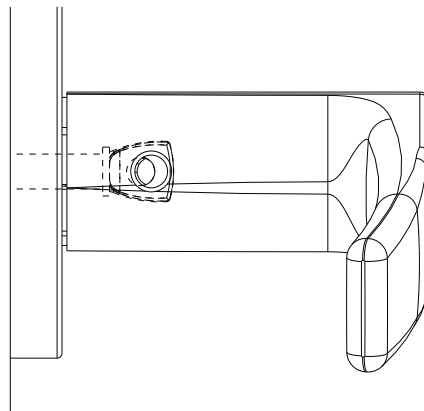
Adjustment bolt needs to be unthreaded.
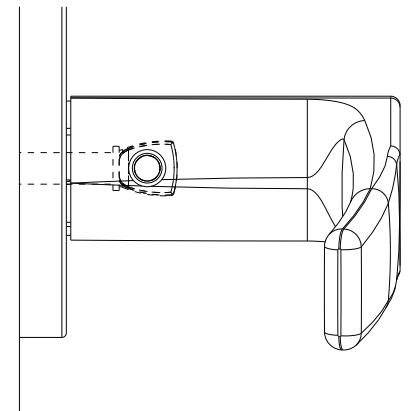
Adjustment bolt fully aligned.

6.)

INSIDE
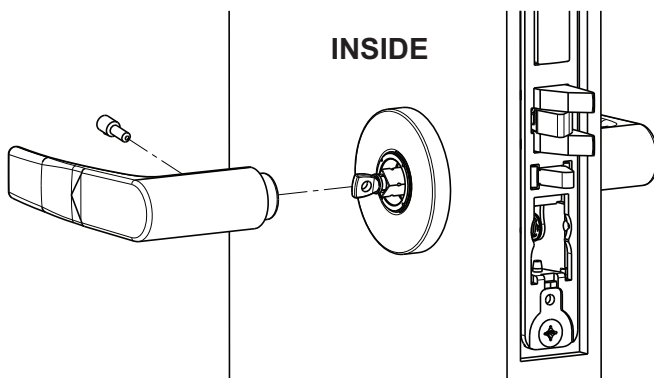
Note:
• Unthread adjustment bolt approximately four turns for a good starting point (after being fully tightened).
• Make sure O/S lever is fully inserted into adapter plate before aligning adjustment bolt.

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5) Installation Instructions

1.)

Thread adapter plate hub into
lever and fully tighten

NOTE: Spindle can be
used to help thread hub
into lever

Adapter Plate Hub

Align adapter plate hub with square
hole in lever; keeping hub as tight as possible
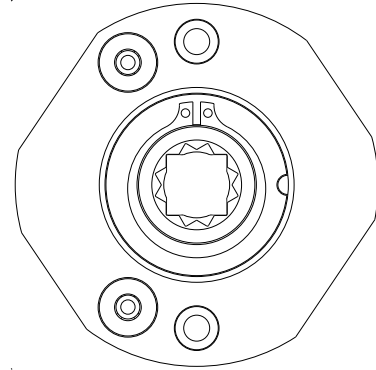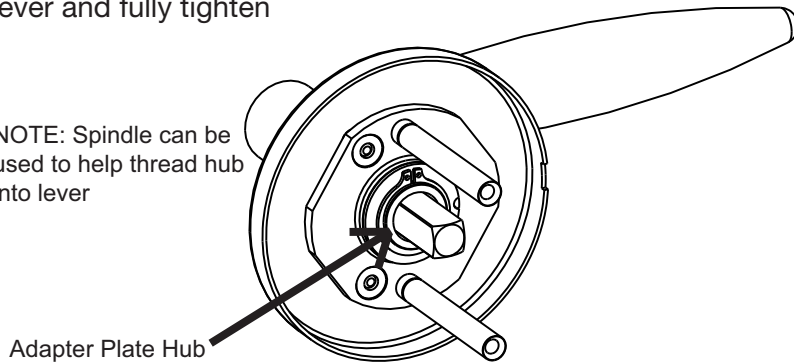
2.)

INSIDE
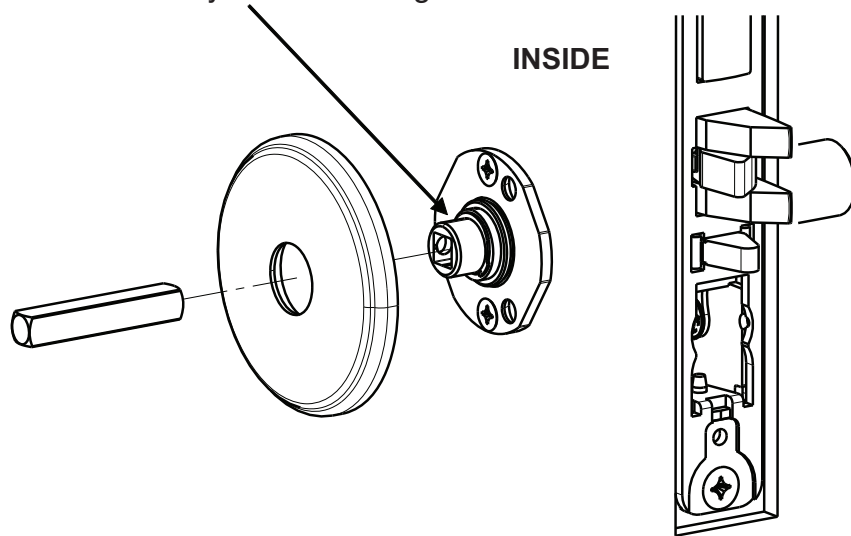
OUTSIDE
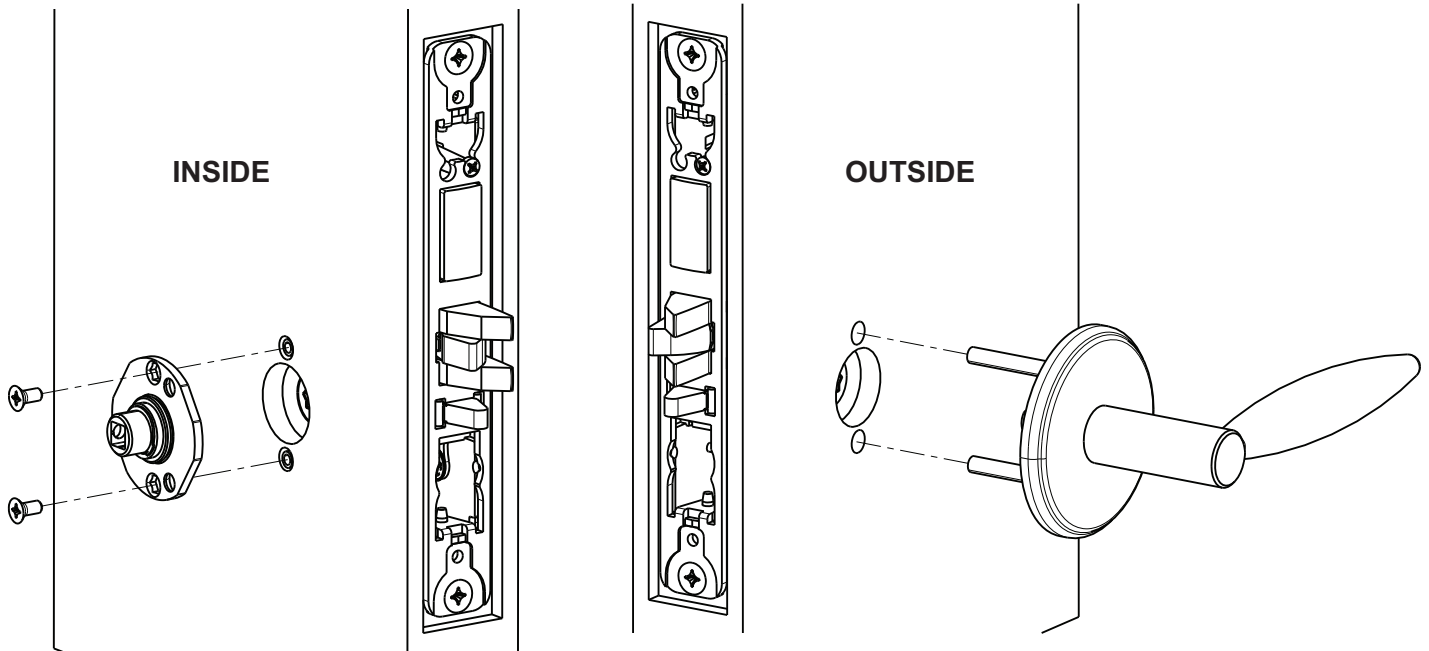
5) Installation Instructions

3.)

Set screw in hub faces away from door edge.

INSIDE

4.)

INSIDE

Use Correct Spindle Orientation

BAD   GOOD

Lever

5) Installation Instructions

1.)

2.)

7/64 Allen Wrench
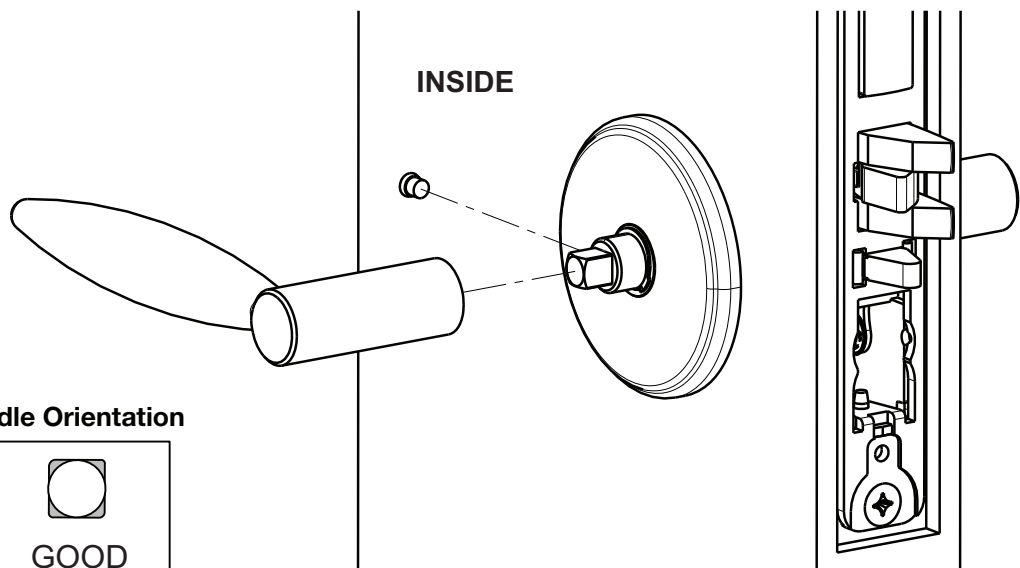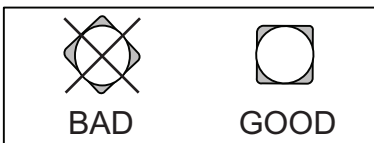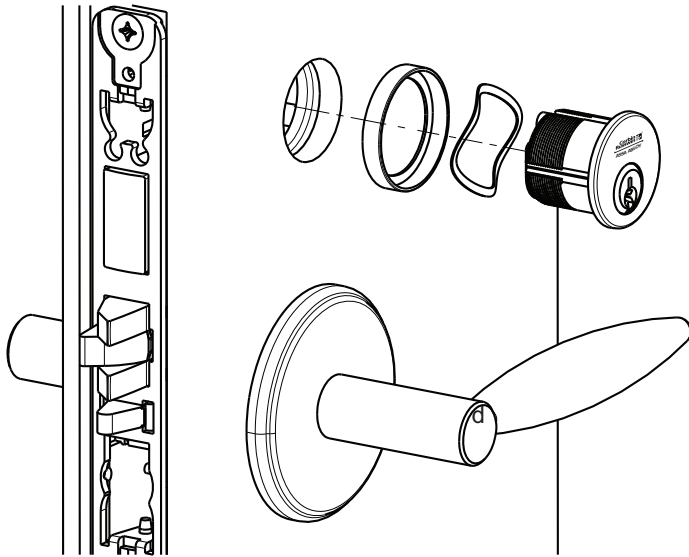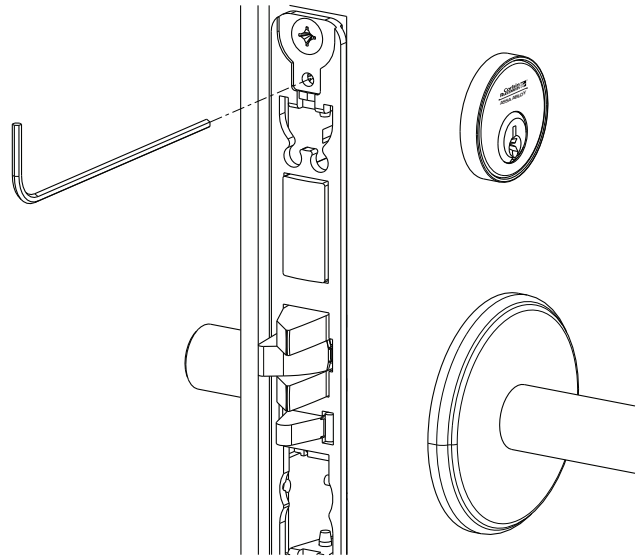
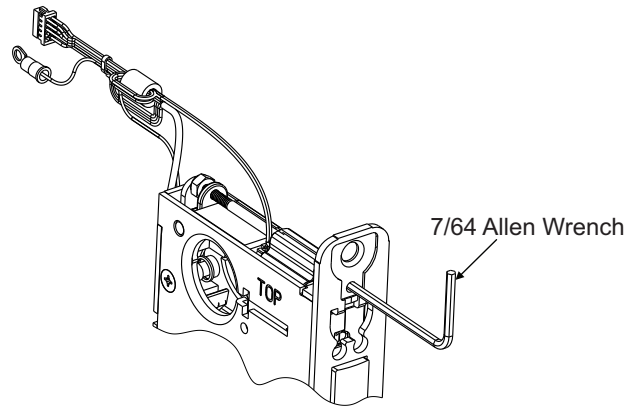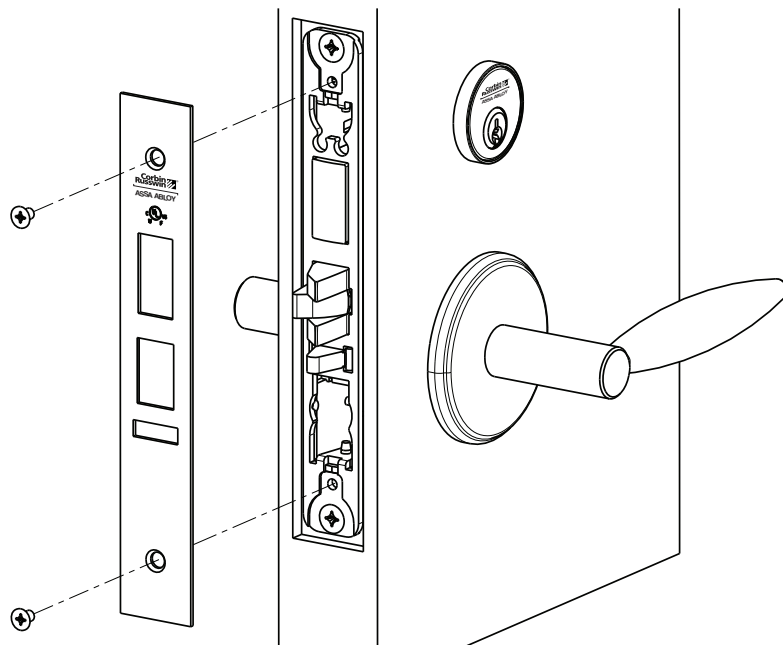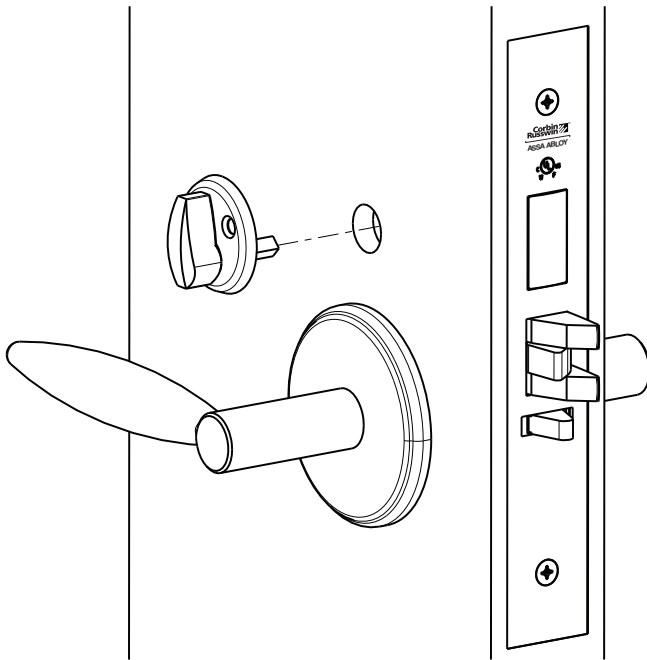**3.)**

NOTE: Key and cylinder must be rotated as shown

Correct   Incorrect
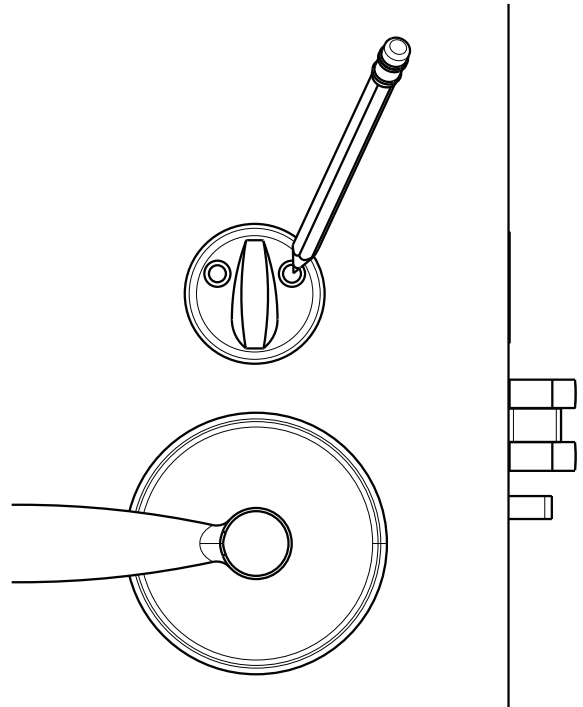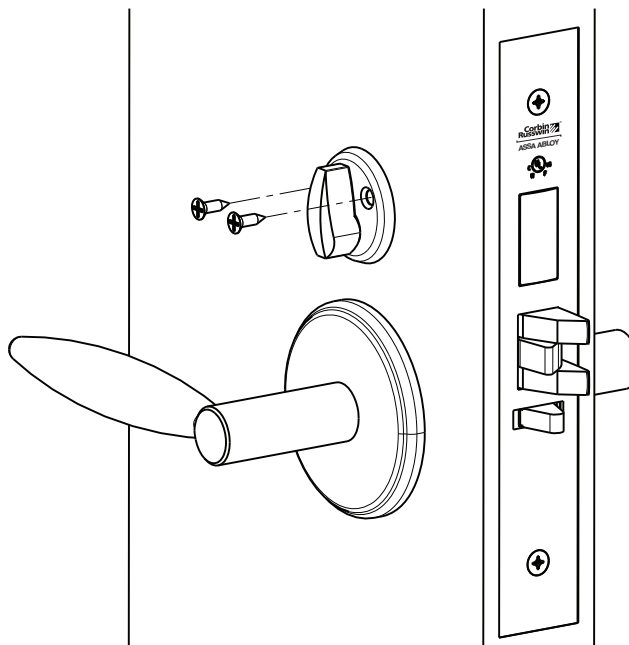
5) Installation Instructions
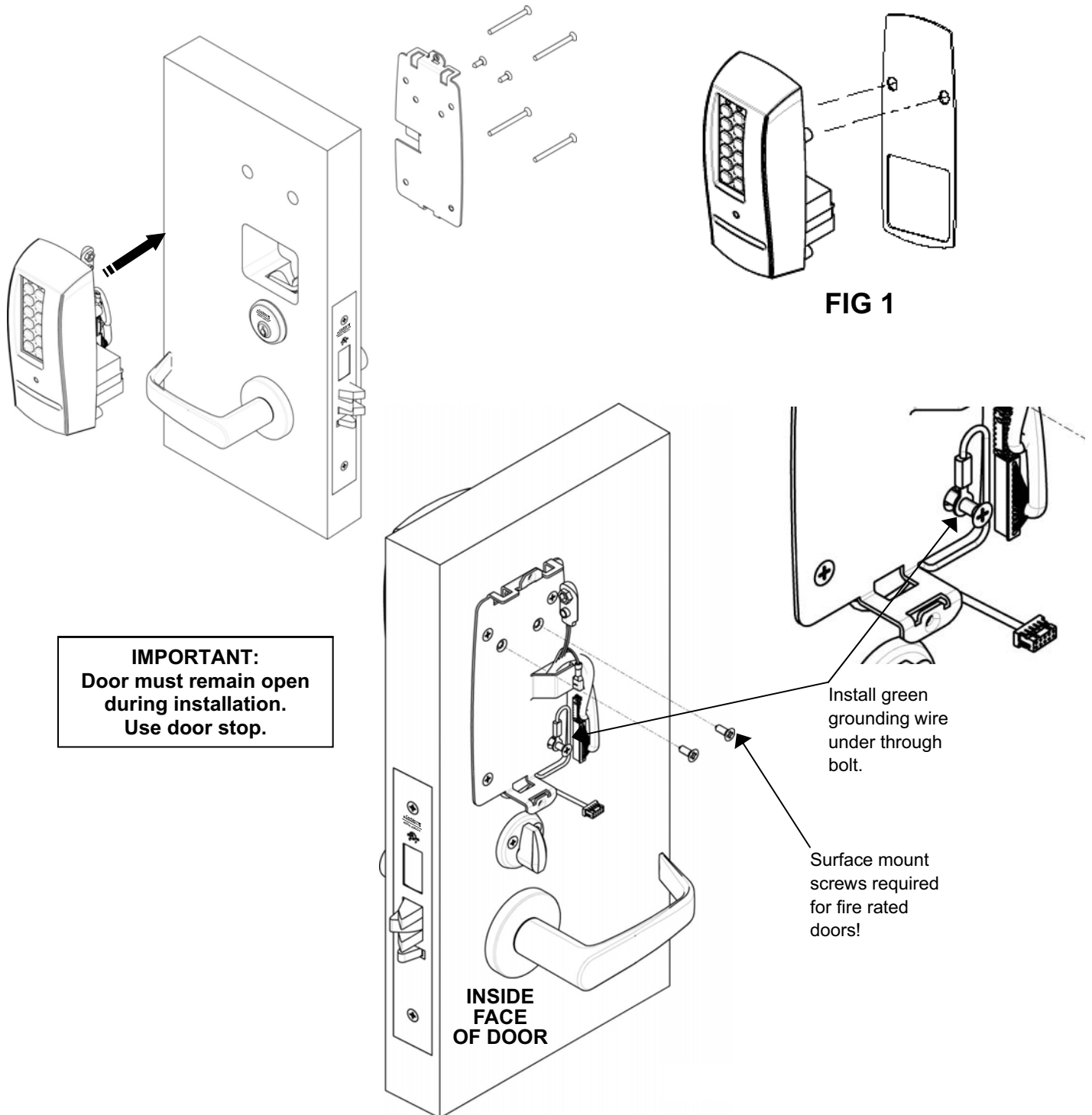
1.)

2.)

3.)

5) Installation Instructions

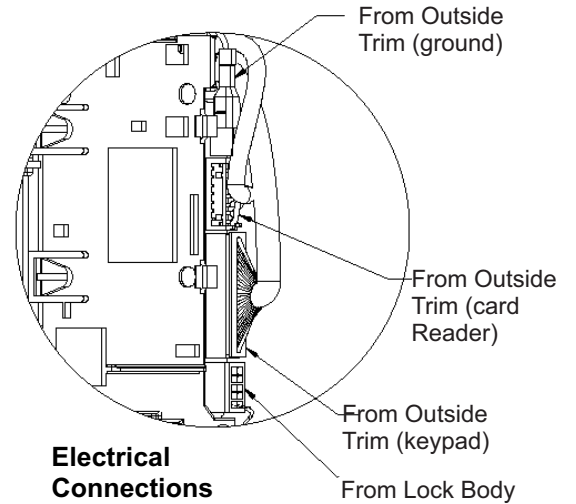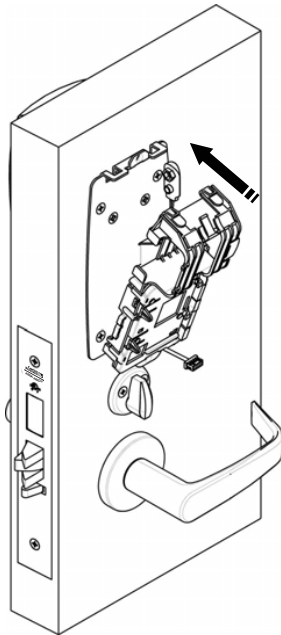**5** **Install Outside Escutcheon and Inside Mounting Plate**

Feed wires as shown. Install four #8-32 machine screws and two #8 surface screws (required for fire rated doors). For exterior applications peel adhesive backing off gasket and stick to escutcheon prior to installation. **(FIG 1)**

FIG 1

IMPORTANT:
Door must remain open
during installation.
Use door stop.

Install green grounding wire under through bolt.

Surface mount screws required for fire rated doors!

INSIDE
FACE
OF DOOR

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5) Installation Instructions

6 **Install Electronics Housing onto Mounting Plate**

Snap in electronics, then make connections shown below.

From Outside
Trim (ground)

From Outside
Trim (card
Reader)

From Outside
Trim (keypad)

**Electrical
Connections**

From Lock Body

IMPORTANT:
Door must remain open during installation. Use door stop.

7 **Battery/Battery Pack Installation**

Place (6) "AA" alkaline batteries into battery pack being careful to align polarity (+/-) properly. Install battery pack as shown and make electrical connection.

Battery Pack

Connect Battery Pack
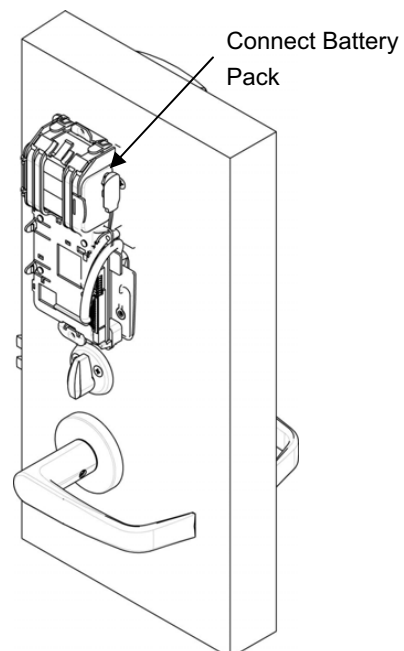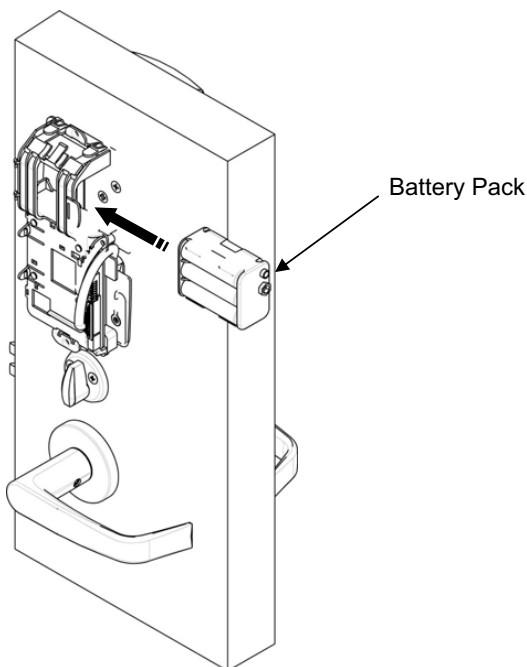
5) Installation Instructions

8 Install Inside Escutcheon

Make sure DIP Switch **(FIG 1)** is set correctly before installing escutcheon. Install escutcheon using two #8-32 T20 Security Torx Screws. **(Be careful not to pinch wires under escutcheon.)**
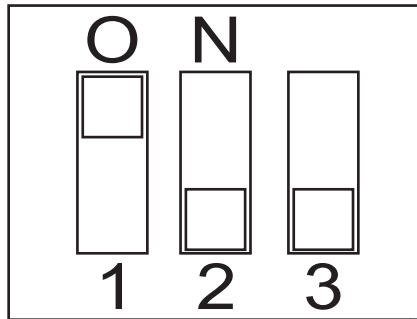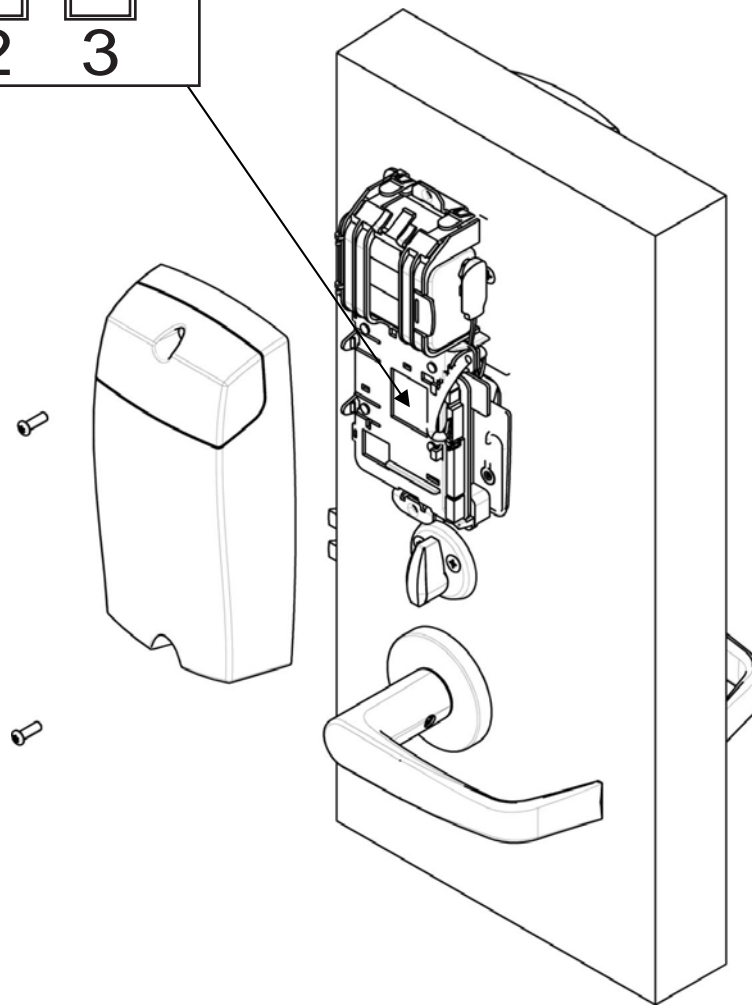
O N

1 2 3

FIG 1

END OF MECHANICAL INSTALLATION – Proceed With Persona™ Programming