

# **Access 700™ TCPWI1**

**Installation Instructions**  
**CL33700 TCPWI1 Series**  
**Cylindrical Lockset**

**Corbin  
Russwin**

**ASSA ABLOY**

FM323 09/09

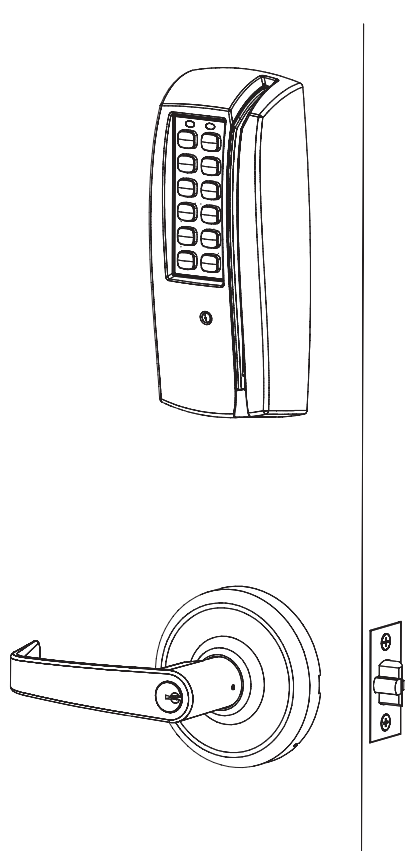
## **Attention Installer**

Please read these instructions carefully to prevent missing important steps.

Please Note: Improper installations 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.



For Technical Assistance call Corbin Russwin at 1-800-810-WIRE (9473)

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## 1) Warning

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 technician for help

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met. This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations. 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.

Cet appareillage numérique de la classe B répond à toutes les exigences de l'interférence canadienne causant des règlements d'équipement. L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence nocive, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée.



To comply with "Fire Listed" doors, the batteries must be replaced with alkaline batteries only.



Observe precautions for handling electrostatic sensitive devices.

## 2) General Description

Designed specifically for the campus market, the Corbin Russwin Access 700 TCPWI1 Series cylindrical lock is a new breed of electronic lock, providing wireless online card/pin access control, as well as detailed audit capabilities. Using WiFi technology and coupled with PERSONA Campus™ software, the PWI online lock offers a complete, integrated access control system.

The Access 700 PWI operates on six (6) “AA” alkaline batteries and may be used for both indoor and outdoor applications. A weather-protective gasket is provided for outdoor applications.

## 3) Specifications / Features

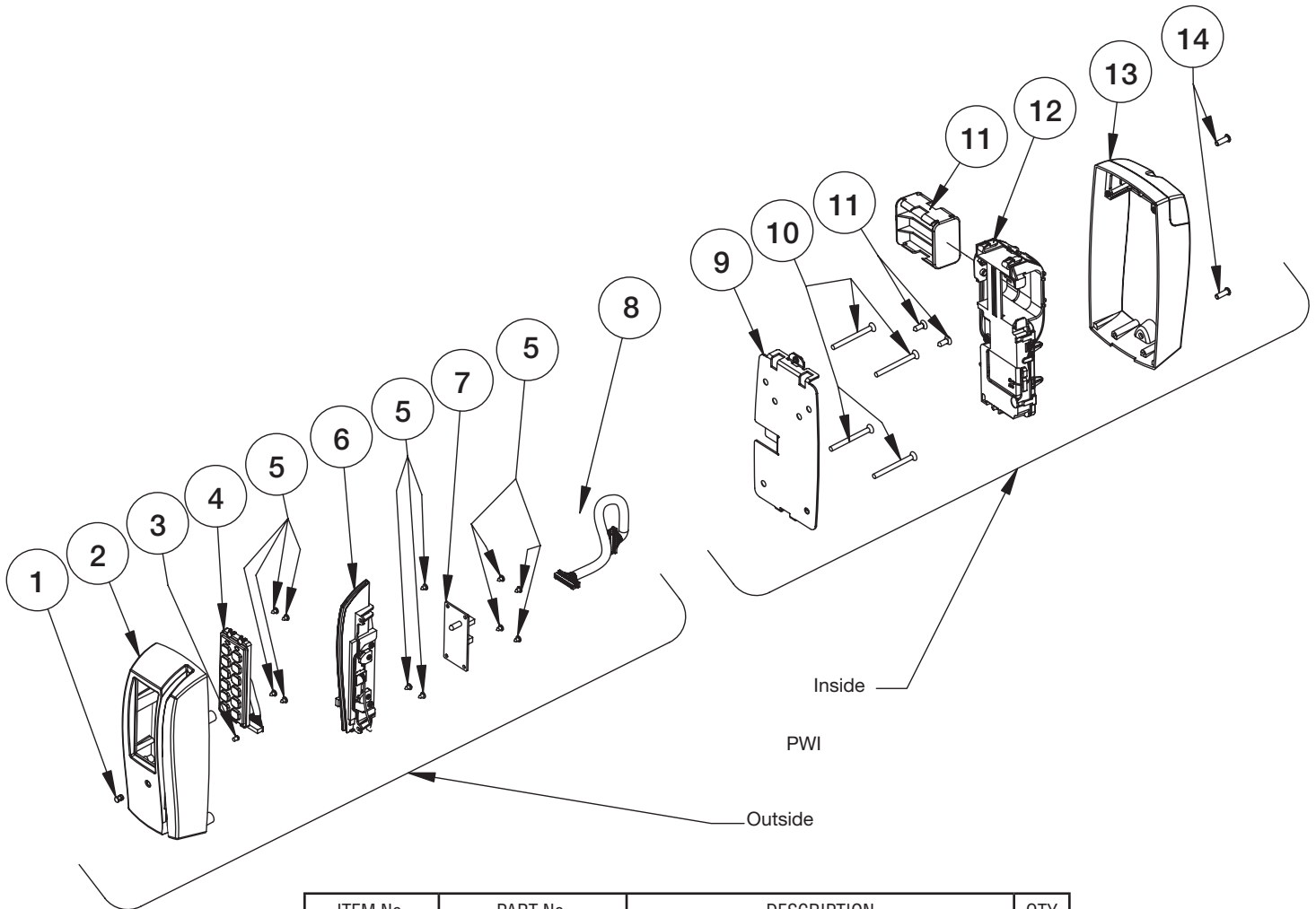
### Hardware Specifications

- Latch – Stainless steel, ½” (13mm) throw  
Optional: ¾” (19mm) throw deadlocking fire latch for pairs of doors
- Deadlocking latch prevents manipulation when door closed
- Door Thickness – 1-3/4” (44mm) to 2” (50mm) Standard  
Optional 2” (50mm) to 2-1/4” (57mm) optional
- Outside lever controlled by keypad/magstripe card, or key retracts latch
- Inside lever retracts latch
- BHMA Grade 1, UL Fire Listed
- Card Coercivity: HiCo (400 Oersted) or LoCo (300 Oersted)

### Electrical Specifications:

- 2400 users per door
- 2400 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)
- 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)

## 4) Product Illustration

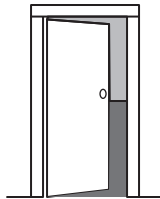


| ITEM No. | PART No.    | DESCRIPTION                         | QTY |
|----------|-------------|-------------------------------------|-----|
| 1        | 795F069     | Light Pipe Lens                     | 1   |
| 2        | 795F145 FIN | Escutcheon, O/S, PWI With Keypad    | 1   |
| 2        | 795F135 FIN | Escutcheon, O/S, PWI Without Keypad | 1   |
| 3        | 795F059     | Light Pipe                          | 1   |
| 4        | 795F039     | Keypad Assy                         | 1   |
| 5        | 795F318     | Screw #4-40x1/4                     | 11  |
| 6        | 795F849     | Swipe Reader                        | 1   |
| 7        | 795F859     | Online Interface PCB                | 1   |
| 8        | 795F079     | Online Harness                      | 1   |
| 9        | 795F088     | Mounting Plate                      | 1   |
| 10       | 323F818     | Screw, #8-32 x 2                    | 4   |
| 11       | 743F768     | Screw, #8 x 3/8                     | 2   |
| 12       | 795F839     | Electronics, Access 700PWI,         | 1   |
| 13       | 795F105 FIN | Escutcheon, I/S                     | 1   |
| 14       | 795F197     | Screw, #8-32 x 1/2" Torx-Pin        | 2   |

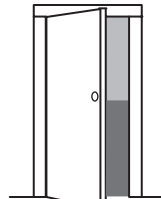
## 5) Installation Instructions

### 1. Verify Hand and Bevel of door:

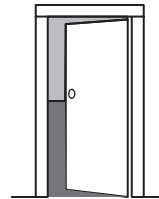
Illustrations shown are as viewed from the outside or secure side of opening.



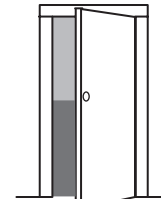
Left Hand  
Hinges Left.  
Open Inward.  
"LH"



Left Hand  
Reverse Bevel  
Hinges Left.  
Open Outward  
"LHRB"

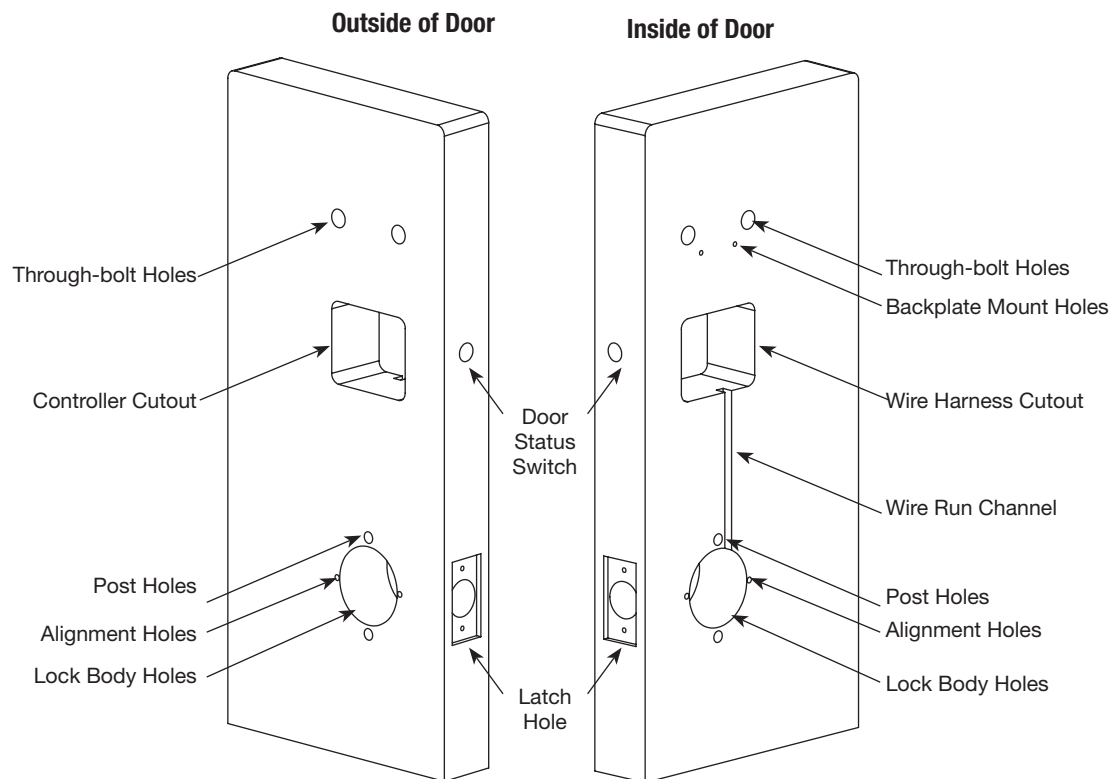


Right Hand  
Hinges Right.  
Open Inward.  
"RH"



Right Hand  
Reverse Bevel  
Hinges Right.  
Open Outward  
"RHRB"

### 2. Prep door according to supplied Door Marker (FM302). For door manufacture templates visit [www.corbinrusswin.com](http://www.corbinrusswin.com) and reference Template # T31077.



### Wood Door Preparation

## 5) Installation Instructions (Continued)

3. Install Latch Bolt:  
Install using two #8 x 3/4" combination screws (Fig. 3a).  
Note: Make sure the beveled bolt is facing the strike.

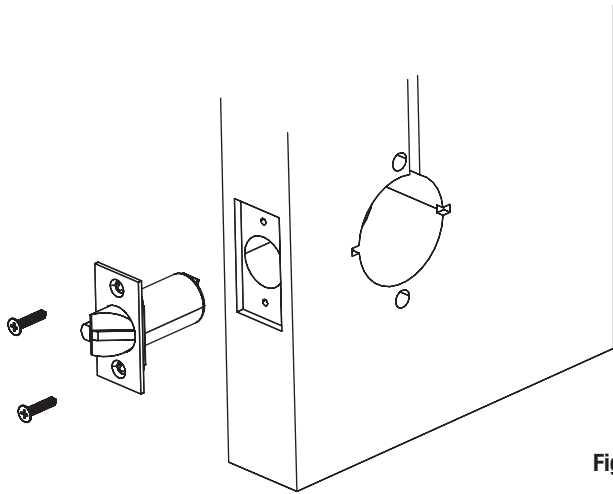


Fig. 3b

4. Install Strike:  
Install using two #12 x 1" combination screws (Fig. 4a).

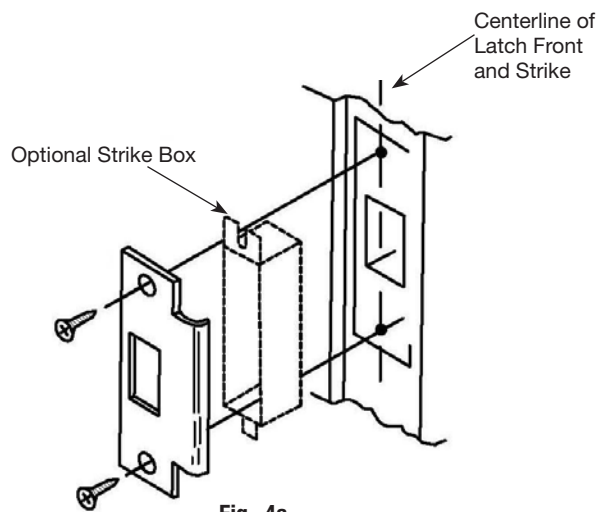


Fig. 4a

## 5) Installation Instructions (Continued)

5. Install Door Status Switch supplied with product:
  - a. Drill 3/4" hole in frame for switch (Fig. 5a and 5b, next page).
  - b. Snap the sensor in place in the frame.
  - c. Insert connector end of DPS harness through raceway on latch edge of door (Fig. 5c).

Note: Use collar in METAL door only.

- d. Push door status switch firmly into place by hand.

**Important:** DO NOT TAP SWITCH WITH ANY TOOL.

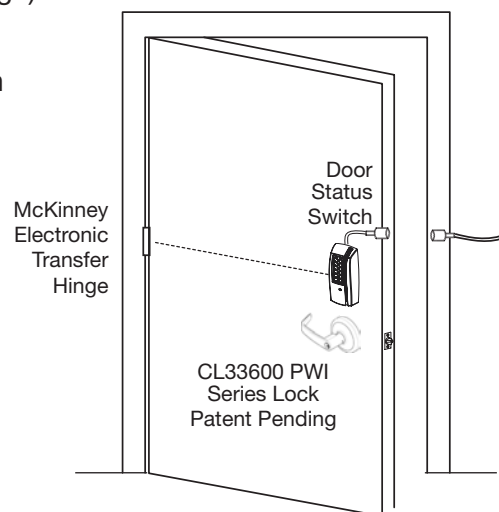


Fig. 5a

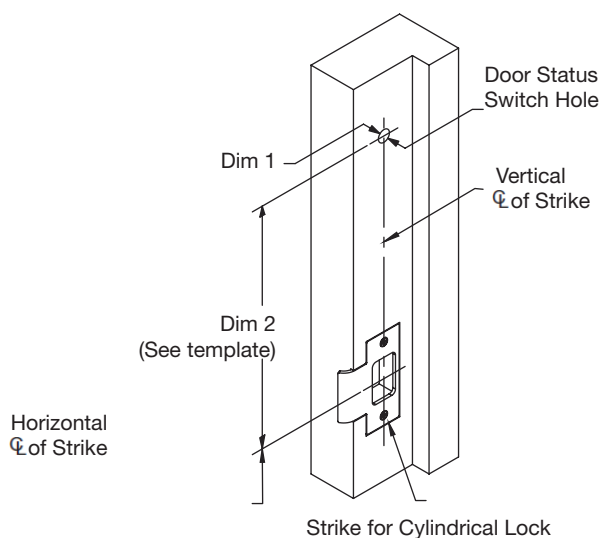


Fig. 5b

|       | Wood Frame  | Metal Frame |
|-------|-------------|-------------|
| Dim 1 | 3/8" $\phi$ | 3/4" $\phi$ |

Inside of Door

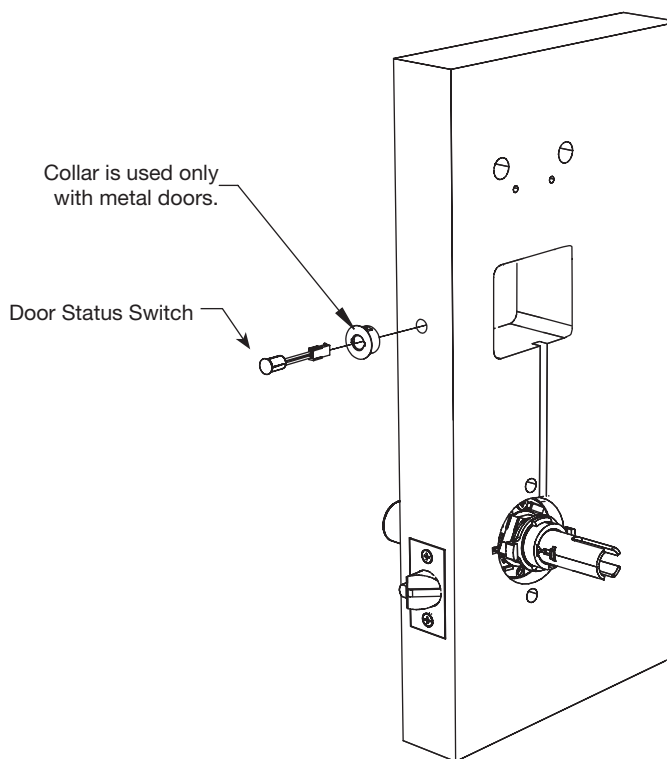


Fig. 5c

## 5) Installation Instructions (Continued)

### 6. Install Lock:

Feed lock body and wires through 2-1/8" diameter hole from outside of door (Fig. 5a).

Be sure latch engages lock body (Fig. 5b).

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

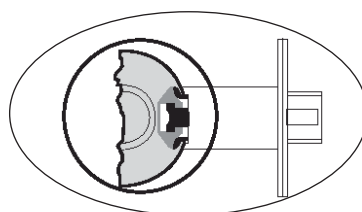


Fig. 6b

### 7. Install Spring Cassette and Route Wires:

a. Plug harness into wire from lock body (Fig. 7a).

b. Route lock body harness and ground wire (Fig. 7b Detail).

c. Install inside spring cassette, and tighten using two #12-24 screws provided (Fig. 6a).

Note: Run wires through slots in edges of spring cassette.  
Do not run wires through center hole and be carefeull not to pinch wires under spring cassette.

Note: There are DOOR EDGE markings on the cassette for orientation.

d. Install the rose over the inside cassette.

Wire Routing: This image shows wood door prep, with wire run channel in inside face of door.

Alternate construction would be a raceway through the door core.

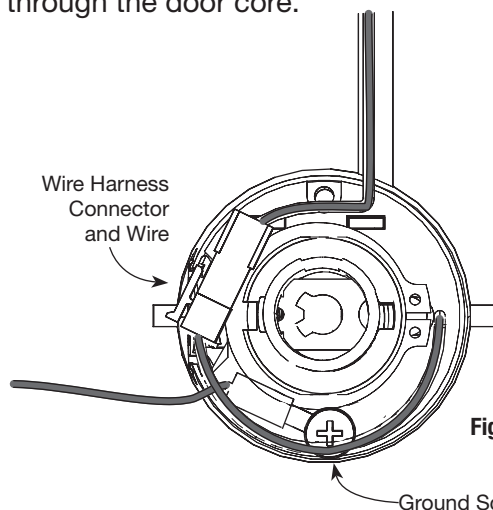


Fig. 7b Detail

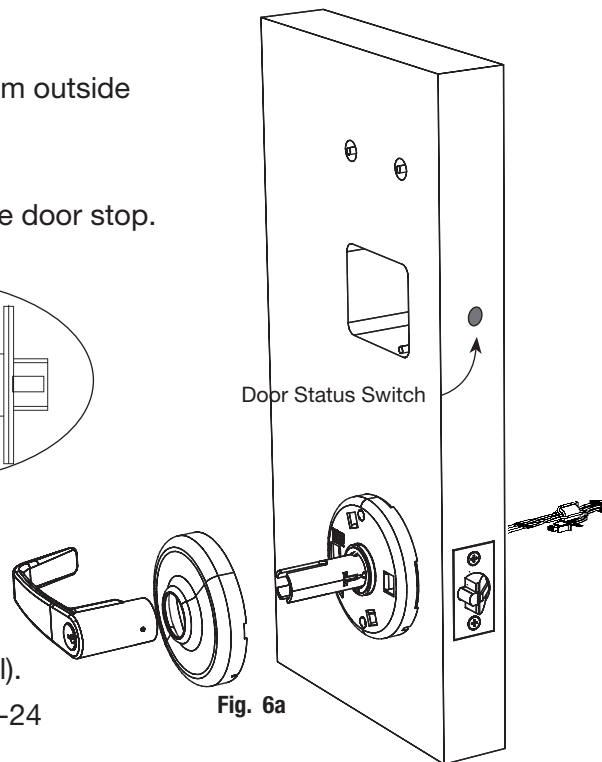


Fig. 6a

Inside Face of Door

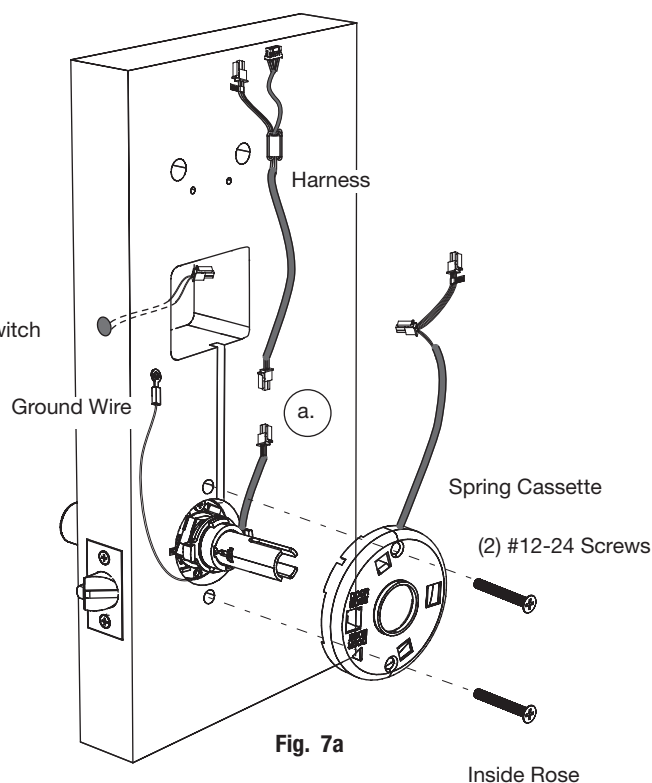
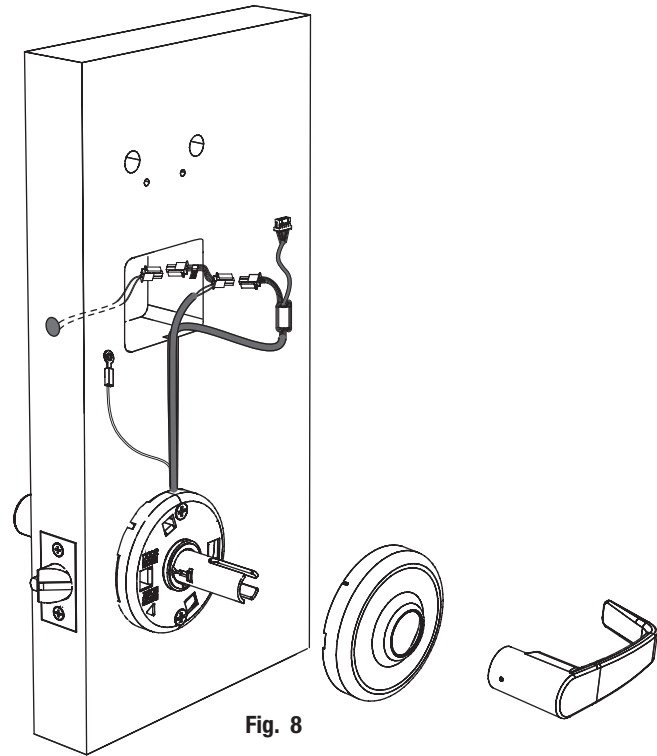


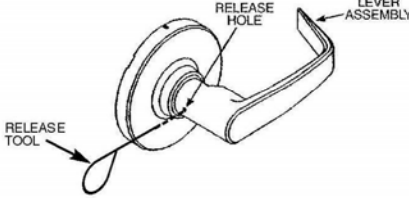
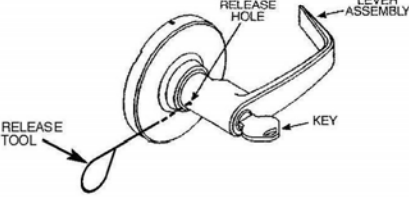
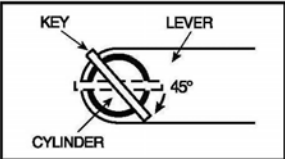
Fig. 7a

5) Installation Instructions (Continued)

8. Connect cables:
- Connectors go on one way. Each connector is mated to prevent connecting incorrectly.
- a. Connect 2-pin wire to Door Status Switch.
  - b. Connect 4-pin connector from harness into wire from lock body.
  - c. Plug Door Status Switch Cable into cable from spring cassette.
  - d. Install the rose over the inside cassette.



9. Installation and Removal of Lever and Standard Cylinders:

| LEVER STYLE                                                                                                      | REMOVAL                                                                                                                                                                                                                             | INSTALL                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>PLAIN LEVER</b></p>     | <p><b>PUSH RELEASE TOOL</b></p> <p>Push release tool<br/>Into release hole,<br/>Remove lever</p>                                                                                                                                    | <p><b>SLIDE LEVER OVER</b></p> <p>Slide lever over<br/>Lever catch<br/>Pull on lever.<br/><i>Make sure lever<br/>will not pull off</i></p>                         |
| <p><b>CYLINDER LEVER</b></p>  | <p><b>ROTATE KEY</b></p> <p>Rotate key 45° clockwise<br/>(from shed position),<br/>Push in release tool into<br/>Release hole, remove lever</p>  | <p><b>INSERT KEY AND ROTATE</b></p> <p>Insert key and rotate<br/>45° (from Shed position),<br/>slide lever on<br/><i>Make sure lever will<br/>not pull off</i></p> |

## 5) Installation Instructions (Continued)

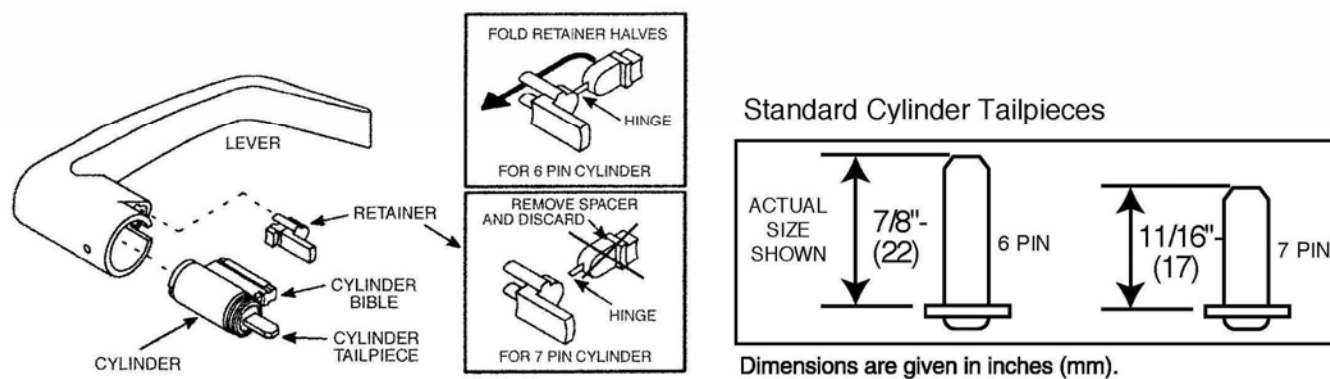
### 8. Installation and Removal of Lever and Standard Cylinders (continueud):

#### Standard Cylinder Installation

Make sure cylinder tailpiece is aligned in same direction as cylinder bible.  
Slide cylinder all the way into the lever.

For 6-pin cylinder: Fold retainer at hinge and press fit retainer halves together as shown.

For 7-pin cylinder: Break retrainer at hinge and discard spacer section. Also remove black cylinder spacer from inside of chassis fallback for clearance.

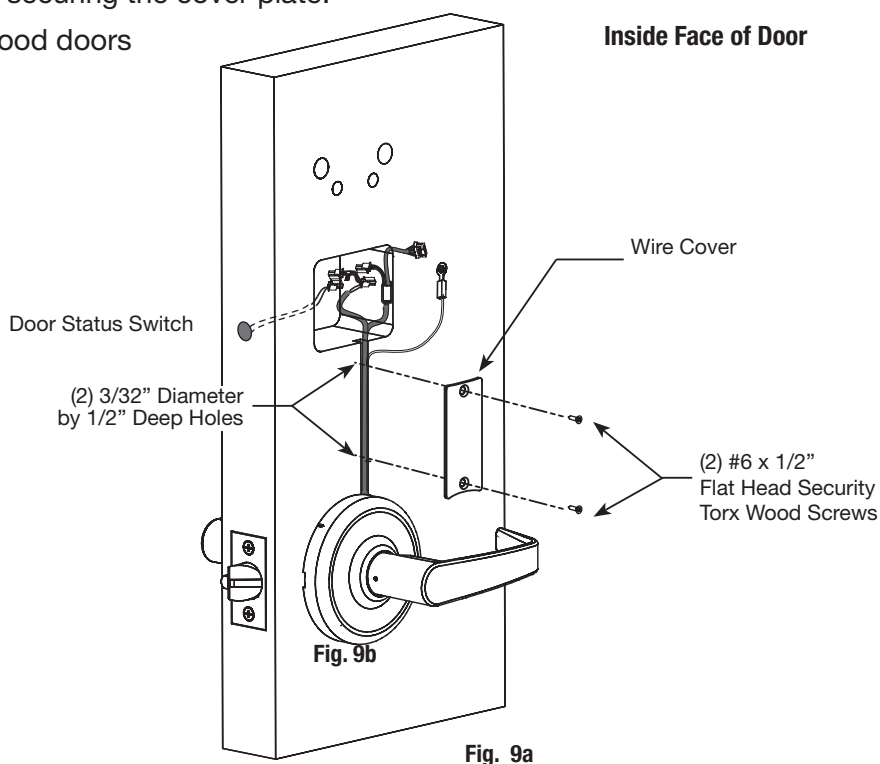
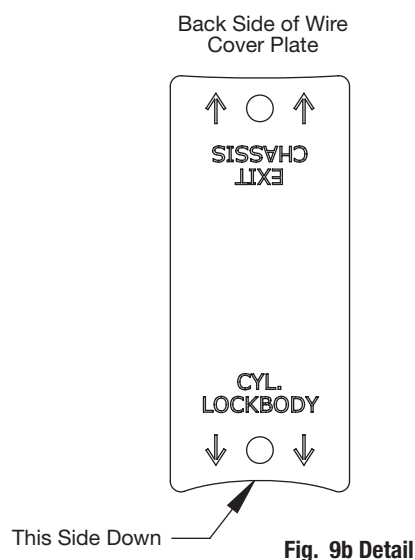


### 9. Install Wire Cover Plate:

Install the wire cover plate to the inside of the door above the lock body (Fig 9a).

Be careful not to pinch the wires when securing the cover plate.

Note: Wire cover is only required for wood doors with the wire run channel on inside face of door.



## 5) Installation Instructions (Continued)

### 10. Install (optional) Weatherseal Gasket:

For non-fire rated door applications, an optional gasket may be used as a weatherseal between the escutcheon and the outside door surface.

Peel off the adhesive backing on the gasket and install the gasket along the edge of the outside escutcheon assembly (Fig. 10a).

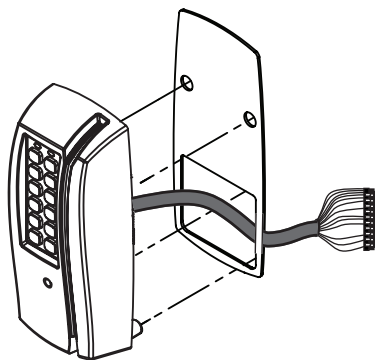


Fig. 10a

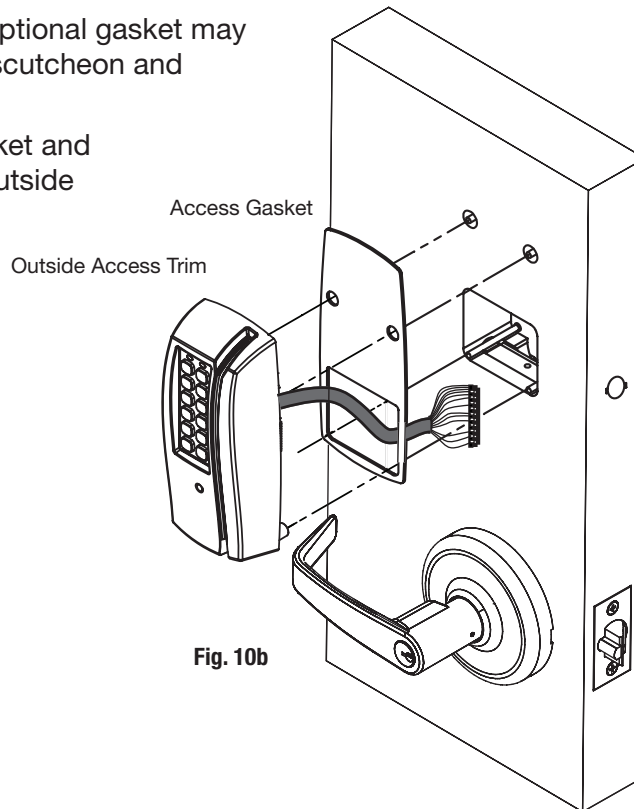
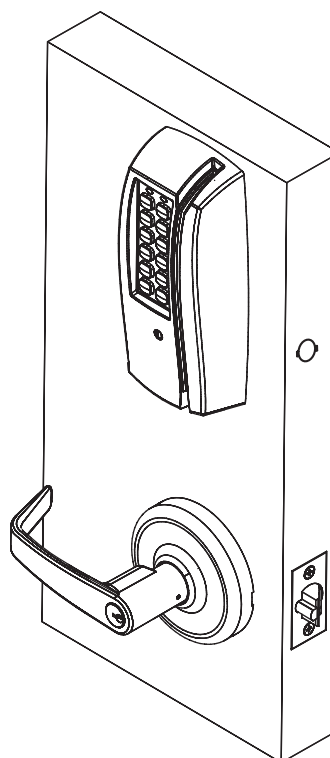


Fig. 10b

### 11. Install Inside Plate:

Install face plate using four #8-32 machine screws.

**IMPORTANT:** For fire rated doors, also use two #8 surface mount screws.



Outside Face of Door

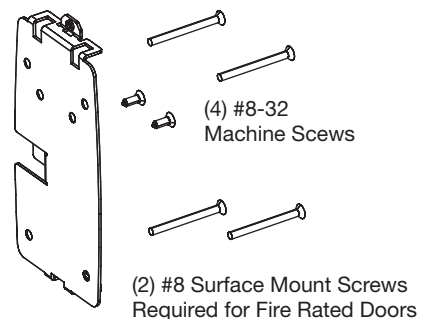


Fig. 11a

## 5) Installation Instructions (Continued)

### 12. Install Outside Escutcheon Assembly and Mounting Plate:

- Feed the wires from the outside escutcheon assembly through the opening in the door.  
Note: Position ferrite bead from lock body under mounting plate (Fig. 12c).
- Position and hold the outside escutcheon assembly while securing the mounting plate to the inside of the door with the hardware provided.
- Correctly position the lock body harness and the ground wire.

**IMPORTANT - Required for fire rated doors:** Surface mount screws required for fire rated doors (Fig. 12b).

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

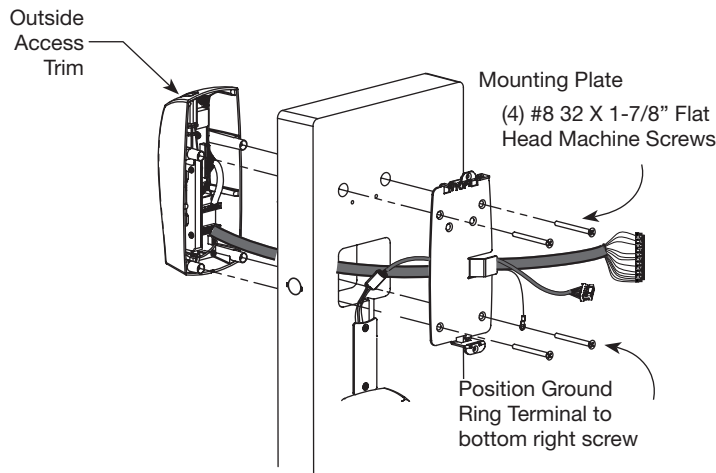


Fig. 12a

Inside Face of Door

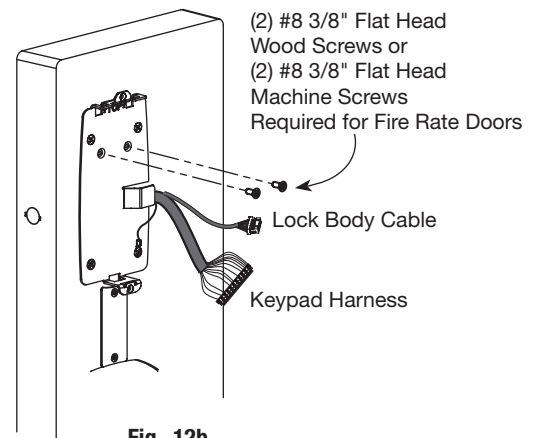


Fig. 12b

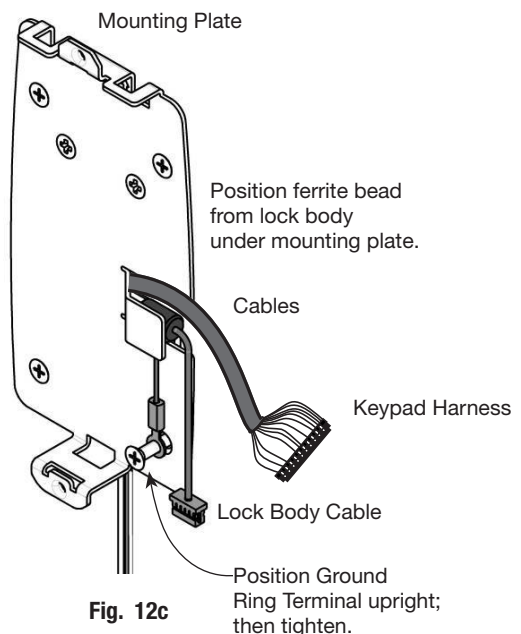


Fig. 12c

## 5) Installation Instructions (Continued)

### 13. Install Electronics Module:

- Insert the single tab on the electronics module into the single tab at the bottom of the mounting plate.
- Tilt the module upward and secure the top two tabs into the mounting plate (Fig. 13a).

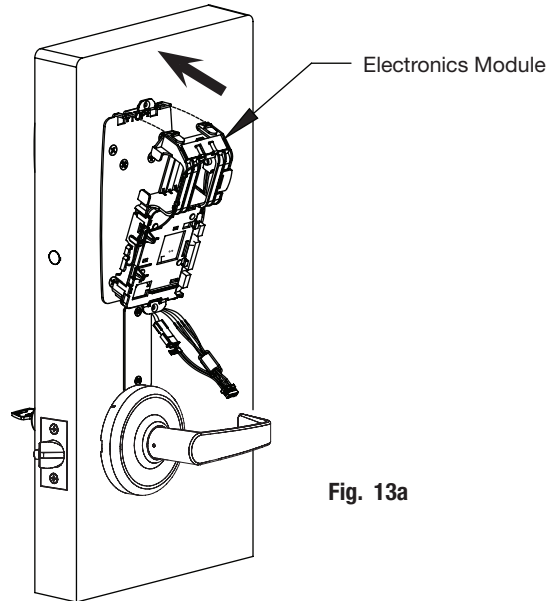


Fig. 13a

### 14. Attach Connectors:

Secure the following connectors to the circuit board as shown (Fig. 14a and 14b Detail).

- Secure the mortise lock body assembly connector (10-pin).
- Secure the mortise keypad/card reader connector (14-pin).

Note: Connectors go on only one way. Do not force and do not offset connector. Be sure they are seated (completely flush).

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

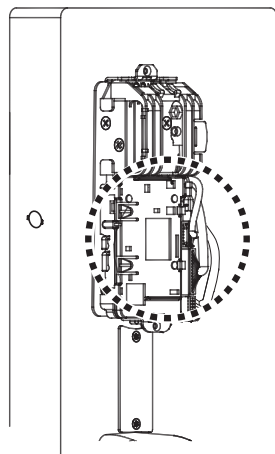


Fig. 14a

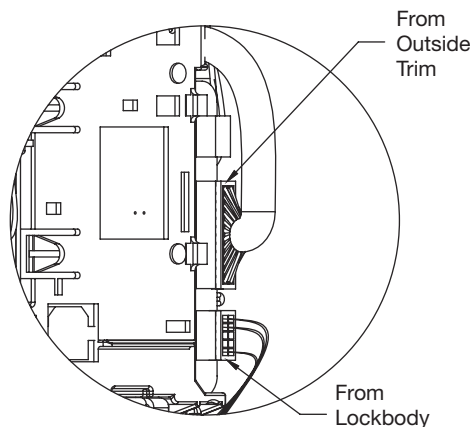
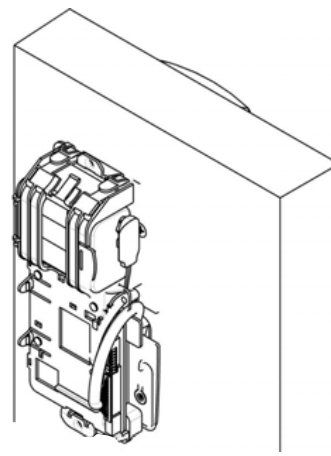
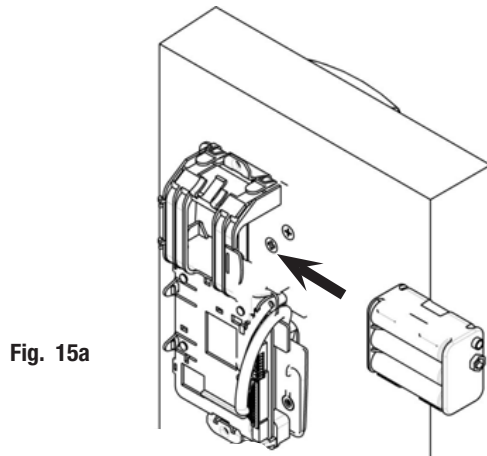


Fig. 14b Detail

## 5) Installation Instructions (Continued)

### 15. Battery/ Battery Pack Installation

- Place (6) "AA" batteries into the compartment being careful to align polarity (- & +) according to case markings (Fig. 15a).
- Insert battery pack and click into place, making sure polarity terminals on the battery pack are oriented upward (Fig. 15b).

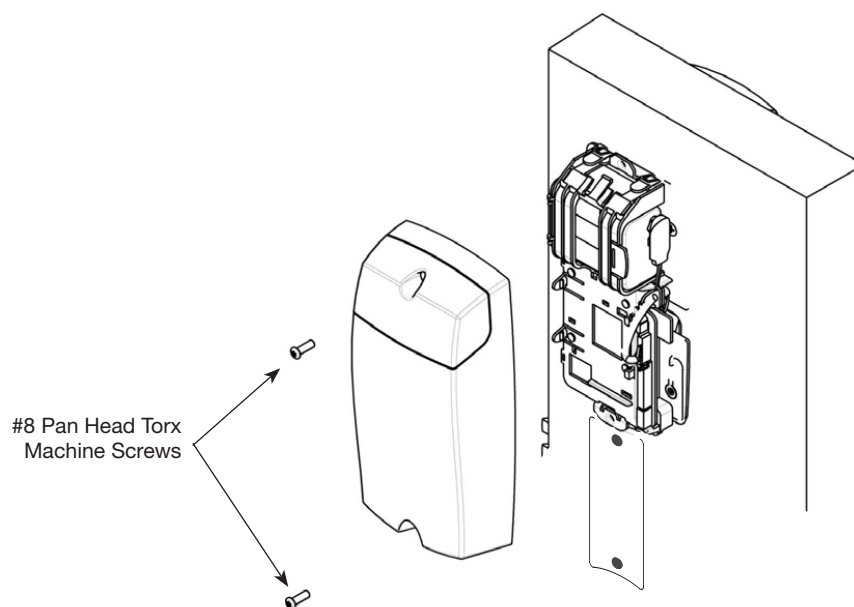


### 16. Install Inside Escutcheon:

Make sure DIP Switch (Fig. 16a) is set correctly before installing escutcheon.

Install escutcheon using two #8-32 T20 Security Torx Screws.

Be careful not to pinch wires under escutcheon.



## 6) Mechanical Operation Check

Note: Before closing door test for function of lock cylinder and inside lever:

1. Insert key into cylinder and rotate.  
Make sure the key retracts the latch. The key should rotate freely.
3. Make sure the inside lever retracts latch.
4. Close door:  
Ensure latch fully extends into strike and does not bind.

## 7) Electronic Operation Check

IMPORTANT: Be sure to test functions prior to closing door.

In all cases, perform the following checks:

1. Ensure that inside lever retracts latch (and deadbolt for deadbolt functions).
  - For devices with cylinders, the following checks apply:  
Insert key into cylinder and rotate:
    - a. There should be no friction against lock case, wire harness, or any other obstructions. If harness friction exists, refer to the section on Installation of Inside Components.
    - b. The key should retract the latch and the key should rotate freely.
    - c. The key should extend and retract the latchbolt.
  - For units without a keypad, the following checks apply:  
Insert test card marked NO PIN and retract:
    - a. Ensure lockset displays a green flash (and no other lights).
    - b. Ensure outside lever retracts latch, the door opens, and that there is no binding against lock case, wire harness or other obstructions.
  - For units with a keypad, the following checks apply:  
Insert test card marked PIN 1234 and retract:
    - a. Ensure lockset displays solid yellow light.
    - b. Type 1, 2, 3, 4 on keypad.
    - c. Ensure outside lever retracts latch, the door opens, and that there is no binding against lock case, wire harness or other obstructions.
    - d. Test again with card marked PIN 5678.
    - e. Test again with card marked PIN 9090.
2. Any rapid yellow or rapid red flashing lights indicate a low power condition.  
Check the battery voltage at the top of the battery pack to check for the required 9V.  
If the voltage is correct, inspect the wiring for a possible short.
3. When you have completed the tests, close the door, ensuring latchbolt and deadbolt fully extend into strike plate without binding.

