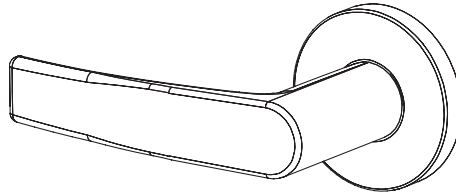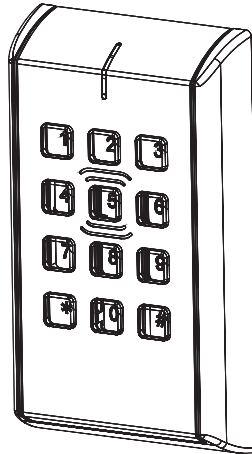# Installation Instructions

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ASSA ABLOY

IN120 WiFi / IN220 PoE

FE6600, BL6600, MP6600 Series Multi-Point Lockset

Attention Installer:

Please read these instructions carefully to prevent missing important steps. Improper installations may result in damage to the lock and void the factory warranty. 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 specific security information, please contact your local ASSA ABLOY Door Security Solutions sales consultant or call 800-810-9473.

For installation assistance contact Corbin Russwin
1-800-810-9473 • techsupport.corbinrusswin@assaabloy.com

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1. Warning

> Changes or modifications to this device not expressly approved by ASSA ABLOY could void the user's authority to operate the equipment.

FCC:

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 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 radio/TV technician for help.

- The card reader shall be installed and used such that parts of the user's body other than the hands are maintained at a distance of approximately 20 cm (8 inches) or more.

Innovation, Science and Economic Development Canada:

Under Innovation, Science and Economic Development Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. Conformément à la réglementation d'Innovation, Sciences et Développement économique Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

General Regulatory Compliance:

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.
Ce dispositif contient des émetteurs/réceptuers exemptés de licence conformes aux RSS d'Innovation, Sciences et Développpment économique Canada. L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée a le dispositif.

This equipment complies with FCC and IC radiation exposure limits set forth for general population (uncontrolled environment). This device must not be co-located or operating in conjunction with any other antenna or transmitter.
Cet équipement est conforme aux limites d'exposition aux radiations de la FCC et IC définies pour la population générale (environnement non contrôlé). Cet appareil ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

CAUTION: When using hard power, DO NOT install batteries.
AVERTIR: Ne pas installer de batteries si vous utilisez l'alimentation électrique.

CAUTION: Risk of Explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.
AVERTIR: Risque d'explosion si la batterie est remplacée par un type incorrect. Jetez le batteries usagées conformément aux instructions.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and SARGENT Manufacturing makes no representations or warranties concerning what such impact may be in any specific situation. When retrofitting any portion of an existing fire rated opening, or specifying and installing a new fire-rated opening, please consult with a code specialist or local code official (Authority Having Jurisdiction) to ensure compliance with all applicable codes and ratings.
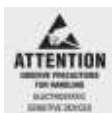
To avoid possible damage from electrostatic discharge (ESD), some basic precautions should be used when handling electronic components:
- Minimize build-up of static by touching and/or maintaining contact with unpainted metal surfaces such as door hinges, latches, and mounting plates especially when mounting electronic components such as readers and controllers onto the door.

- Leave components (reader and controller) protected in their respective anti-static bags until ready for installation.

- Do not touch pins, leads or solder connections on the circuit boards.

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Installation Instructions

2. Regulatory and Power Specifications

Electronic Authentication Specifications (Mobile Credentials)

- Mobile Credentials are transmitted to the lock via Bluetooth Smart or NFC ISO/IEC14443 and must use a mobile device enabled with these technologies.

- Credential and mobile device versions are specified by the credential provider.

- User must acquire the latest HID Mobile Access application (if applicable) available from Google Play or on the App Store.

This product is not intended for outside wiring as covered by Article 800 in the National Electrical Code, NFPA 70.

Compliance with IEEE 802.3 (at or af) specifications was not verified as part of UL294/B

The system shall not be installed in the fail-secure mode unless permitted by the local authority having jurisdiction and shall not interfere with the operation of listed panic hardware.

- UL Listed - UL 294 Outdoor Use
- CUL Listed - ULC-60839-11-1, Grade 1, Environmental Class: Outdoor Use
- UL 294 Access Control Ratings:

Destructive Attack	Level 1
Line Security	Level 1
Endurance	Level 4
Standby Power	Level 1

Reader with HID® OMNIKEY® reader core technology offers support for the following credentials:

High Frequency (13.56 MHz):

- HID iCLASS®
- HID iCLASS SE® (SIO-enabled)
- HID iCLASS® Seos™
- HID MIFARE® SE
- HID DESFire® EV1 SE
- HID MIFARE Classic SE
- DESFire EV1
- DESFire EV2/EV3 (EV1 Compatibility)

NFC & BLE-enabled Mobile Phones:

- HID Mobile Access® (BLE and NFC)
- Supports the use of employee badge and/or Student ID in Apple Wallet
- Android Wallet (MIFARE 2GO)

Low Frequency (125 kHz):

- HID Prox®

PIV/PIV-1:

- 40-bit BCD
- 64-bit BCD
- 75-bit output
- 128-bit output
- 200-bit output

Optional Keypad:

- PIN-only usage or dual authentication

Power Supply Specifications

IN120 (WiFi version):

- Battery Power:
  Alkaline AA Batteries (6): 9V, 300mA
  To comply with Fire Listed doors, batteries must be replaced with alkaline batteries only

- Optional Hard Power (UL 294 Listed Power Supply Required):
  9-24VDC, 200mA

  CAUTION: When using Hard Power, DO NOT install batteries.

  CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

IN220 (PoE version):

- Power over Ethernet: Use UL 294 Listed, PoE Injector or Class 2 power limited power supply (55VDC, 90mA)

- UL testing was conducted on product powered by UL listed model POE20U-560(G) PoE Injector, manufactured by Phihong

Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), CSA 22.1, Canadian Electrical Code (CEC), Part I, Safety Standard for Electrical Installations, local codes and the authorities having jurisdiction. Equipment installed in outdoor use applications shall employ NEC Class 3 wiring methods.

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3. Product Illustrations

IN120/IN220 Assembly
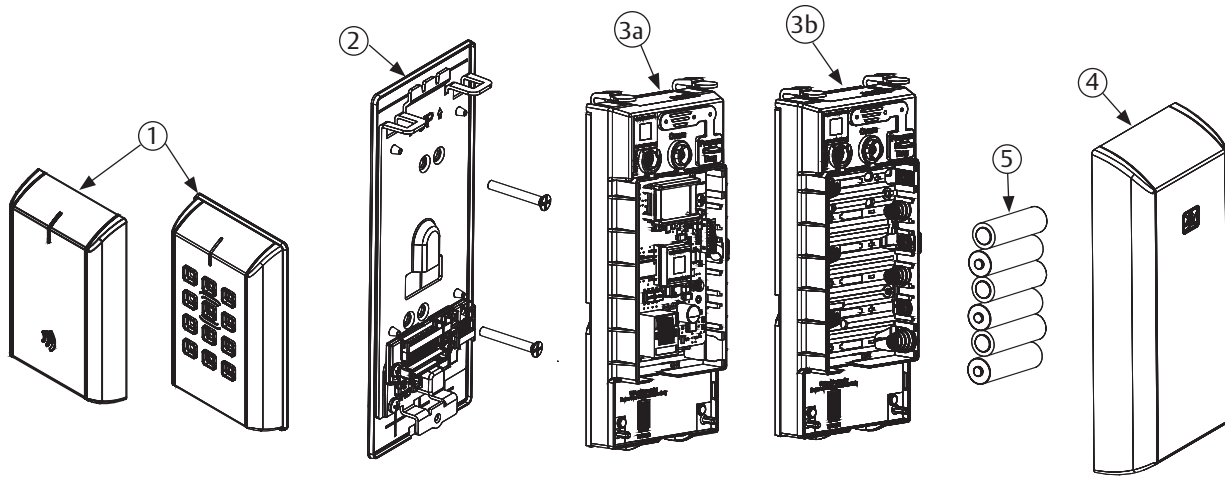
Tools Required:

- #2 Phillips screwdriver
- Flat head screwdriver
- Security hex key

Item No.	Description
1	Outside Escutcheon Assembly
2	Inside Mounting Plate Assembly (includes Gasket)
3a	PoE Controller Assembly
3b	WiFi Controller Assembly (batteries included)
4	Inside Escutcheon Assembly with Privacy Button
5	AA alkaline batteries (6)

Prior to installation, please confirm receipt of all parts.

See document FM644 for part numbers.

3. Product Illustrations (continued)

Mortise Lock Assembly

Outside Trim

Inside Rose

Inside Lever
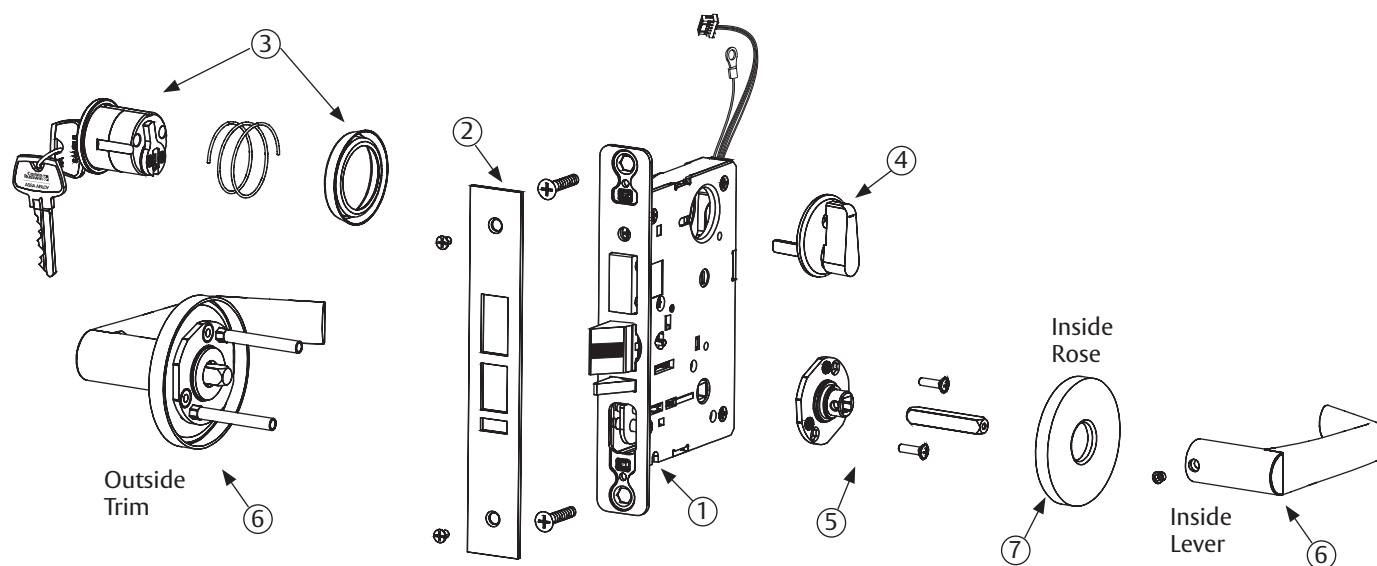
Item No.	Description
1	Lock Body
2	Lock Front
3	Cylinder and Cylinder Rosette
4	Thumb Turn Lever
5	Trim Pack
6	Reference Catalog for available Lever Styles
7	Reference Catalog for available Rose Styles

For mechanical parts string refer to FE6600/BL6600/MP6600 Parts Manual 45499 & 45611

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4. Check and Prepare Door

Prior to installation, all holes must be free of burrs, debris and sharp edges.

Ensure door is the correct size and hand for opening.

Ensure door has been prepared according to appropriate template (see website **www.intelligentopenings.com**).

- Door Manufacturer's Template: 4740 (Multi-Point Lock) and 4713 (IN120/IN220)
- FE6600, BL6600, MP6600 Series Installation Instructions FM440 (ships with product)
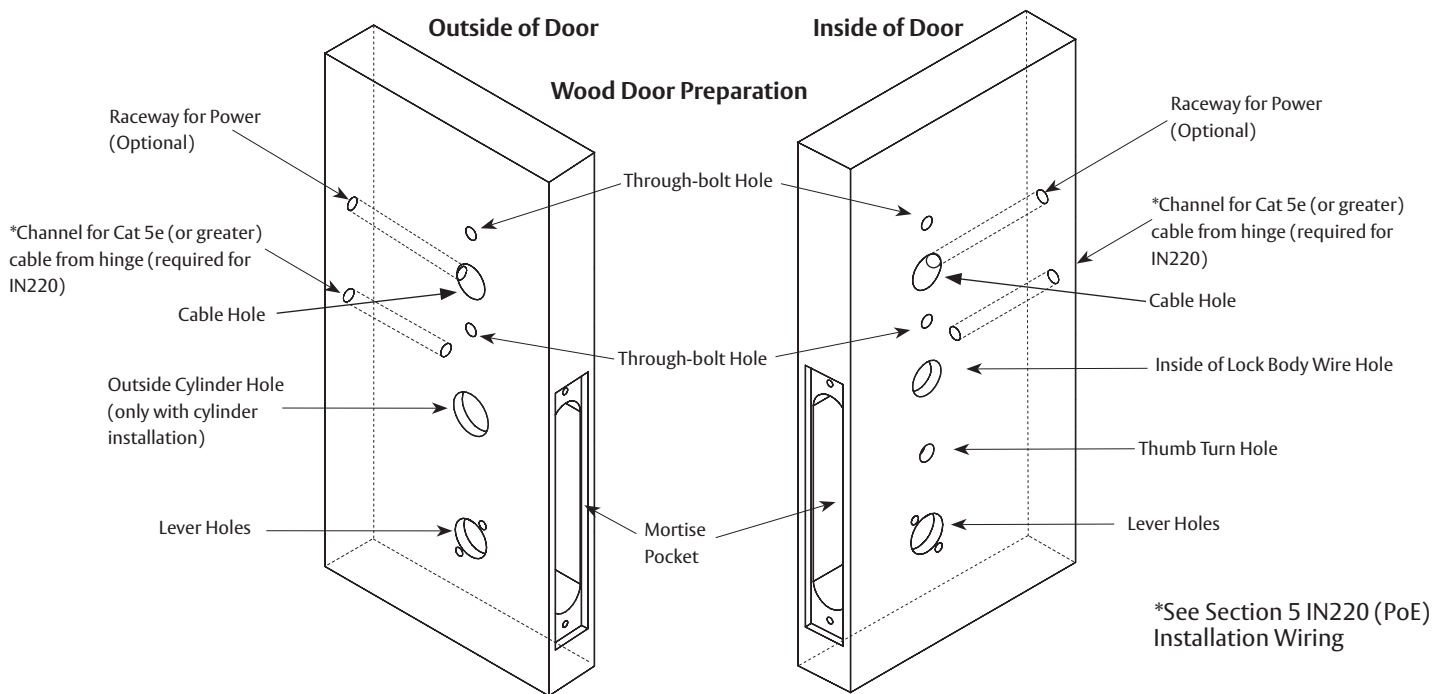
Outside of Door   **Inside of Door**

Wood Door Preparation

Raceway for Power (Optional)

Through-bolt Hole

Raceway for Power (Optional)

*Channel for Cat 5e (or greater) cable from hinge (required for IN220)

*Channel for Cat 5e (or greater) cable from hinge (required for IN220)

Cable Hole

Cable Hole

Outside Cylinder Hole (only with cylinder installation)

Through-bolt Hole

Inside of Lock Body Wire Hole

Thumb Turn Hole

Lever Holes

Mortise Pocket

Lever Holes

*See Section 5 IN220 (PoE) Installation Wiring

Figure 4

IMPORTANT:

If measurements are not correct, DO NOT PROCEED WITH INSTALLATION. Contact door manufacturer.

If installing door with an IN220 (Power over Ethernet) lock, follow the instructions in the next step for IN220 (PoE) Installation Wiring.

If installing door with an IN120 (WiFi) lock, skip to Section 6.

5. IN220 (PoE) Installation Wiring

Overview

Corbin Russwin IN220 PoE Typical Application

Network Cable

Network Switch (802.3af)

Surface Mount RJ45

EAC Software System:

A. PoE frame harness assembly

B. PoE data hinge from McKinney

C. PoE door harness* from McKinney

D. IN220 PoE Lock

E. For locks with external DPS
   (Door Position Switch)

 * Door width determines length
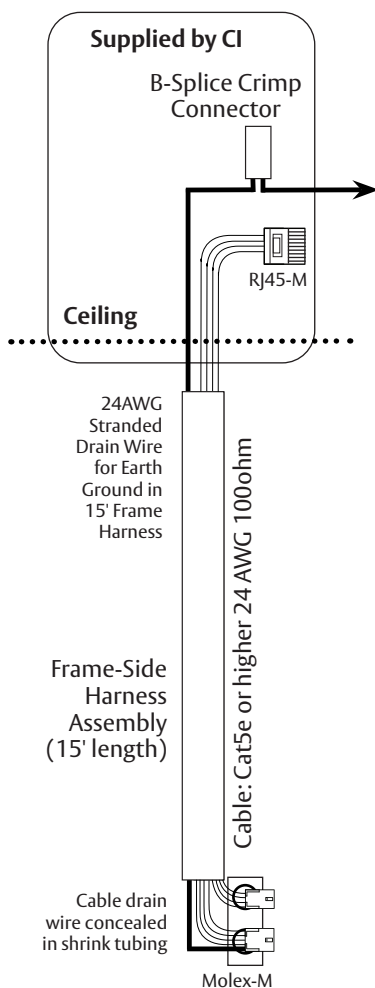
Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), CSA 22.1, Canadian Electrical Code (CEC), Part I, Safety Standard for Electrical Installations, local codes, and the authorities having jurisdiction.

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5. IN220 (PoE) Installation Wiring (continued)

Supplied by CI

Supplied by End User

Certified Integrator (CI) supplies and terminates
the B-Splice connector and the male RJ45 connector
from harness to end user provided facility cable

B-Splice
Crimp Connector

PoE Switch

Patch Cable
Patch Panel to
PoE Switch

To building or electrical ground

PoE Switch is
Terminated to
Earth Ground

RJ45-M

RJ45-F Jack   Cable: Cat5e or higher 24 AWG

Ceiling

Patch Panel
Drain Wire Terminated on Rack

24AWG
Stranded
Drain Wire
for Earth
Ground in
15' Frame
Harness

Cable: Cat5e or higher
24 AWG, 100ohm

Frame-Side
Harness
Assembly
(15' length)

Approved Software

Cable: Cat5e or higher,
26 AWG stranded, 100ohm

Ⓓ

**PoE
Lock**

RJ45-M

Cable
drain wire
concealed in
shrink tubing

Molex-M   Molex-F   Molex-F Molex-M

Ⓐ   Ⓑ

Ⓒ

Ground

Ring Terminal
Secured to Lock
Mounting Plate

NOTES:

- Connectors go on only one way.
  They cannot be placed in an
  incorrect position.

- Do not force and do not offset
  connectors.

- Be sure they are completely
  seated (flush).

- PoE power source cannot be
  connected to a receptacle
  controlled by a switch.

Wiring to TIA/EIA 568-B Standard

FE6600, BL6600, MP6600 Series Multi-Point Lockset

Installation Instructions

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5. IN220 (PoE) Installation Wiring (continued)

A   Frame Harness Installation

Supplied by CI

B-Splice Crimp Connector

RJ45-M

Ceiling

24AWG Stranded Drain Wire for Earth Ground in 15' Frame Harness

Cable: Cat5e or higher 24 AWG 100ohm

Frame-Side Harness Assembly (15' length)

Cable drain wire concealed in shrink tubing

Molex-M

Components and wire harness supplied by McKinney. Suggested installation:

Cut end / ceiling-side PoE harness:

TIA/EIA 568-B Standard Wiring

1 2 3 4 5 6 7 8

1 pin 8   8 pin 1
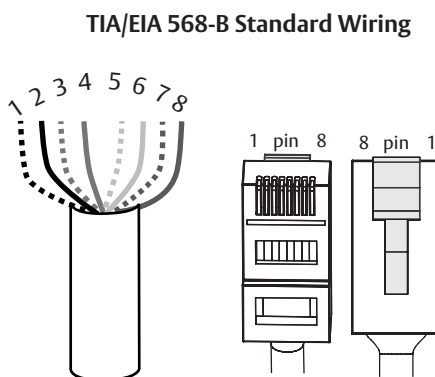
PIN	Wire	Pair Number
1	White/Orange	2
2	Orange	2
3	White/Green	3
4	Blue	1
5	White/Blue	1
6	Green	3
7	White/Brown	4
8	Brown	4

Do not confuse pair numbers with pin numbers. A pair number is used for reference only (e.g.: 10BaseT Ethernet uses pairs 2 & 3). The pin numbers indicate actual physical locations on the plug and jack.

Hinge side of PoE (Frame) harness:

1. Feed cut end of harness into hole on hinge-side through single access hole.

2. Push one connector back through the hole and feed into the other access hole.

Each of the hinge-side harness connectors should end up threaded through a different access hole and matched to the same size pin connector from the door harness:

• 4-pin male Molex connector

• 6-pin male Molex connector with ground wire

B   PoE Data Hinge
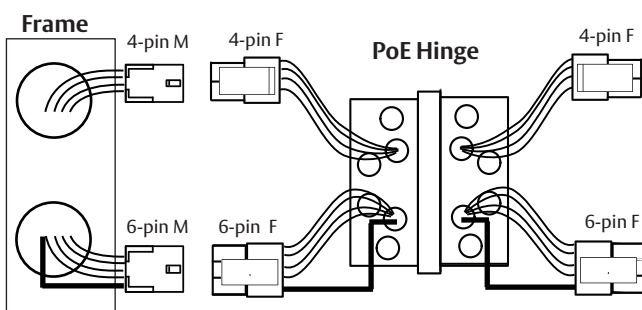
Frame

4-pin M   4-pin F   **PoE Hinge**   4-pin F

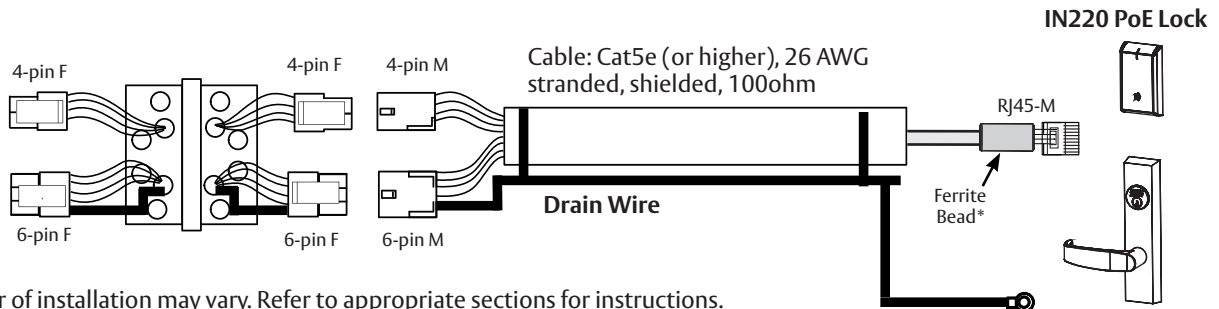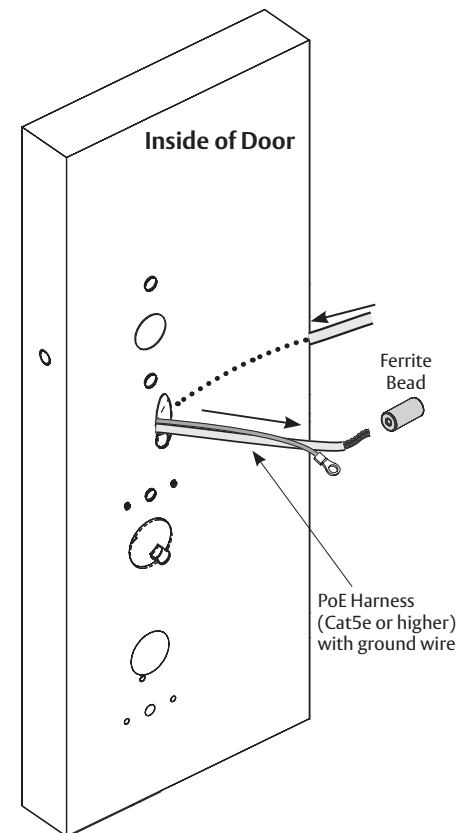6-pin M   6-pin F   6-pin F

Hinge-side harness connectors:

• 4-pin female Molex connector

• 6-pin female Molex connector with ground wire

Lock-side harness connectors:

• 4-pin female Molex connector

• 6-pin female Molex connector with ground wire

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5. IN220 (PoE) Installation Wiring (continued)

C PoE Door Harness

4-pin F   4-pin F   4-pin M   Cable: Cat5e (or higher), 26 AWG stranded, shielded, 100ohm

IN220 PoE Lock

RJ45-M

6-pin F   6-pin F   6-pin M   **Drain Wire**

Ferrite Bead*

Order of installation may vary. Refer to appropriate sections for instructions.

Hinge-side harness connectors:

- 4-pin male Molex connector
- 6-pin male Molex connector with ground wire

Lock-side harness connectors:

- Ring terminal
- Male RJ45 connector (crimped after cable is fed through door)

Notes:

- Connectors go on only one way. They cannot be plugged to incorrect position.
- Do not force and do not offset connectors.
- Be sure they are completely seated (flush).

D PoE Lock

Order of installation may vary. Refer to appropriate sections for instructions.

1. Prop door open.
2. Using the ring terminal, carefully route the assembly through the door channel toward the lock.

ATTENTION: Do not terminate PoE harness (with RJ45 M) until cable has been routed through door and inside mounting plate assembly. See Section 7, step 13 - Installation of Connectors.

Inside of Door

Ferrite Bead

PoE Harness (Cat5e or higher) with ground wire

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Installation Instructions

6. Door Installation

IMPORTANT: Follow the Door Installation instructions in the appropriate Multi-Point Lock instruction manual FM440.

NOTE: Follow the instructions below to install the IN120/IN220 mortise lock body and reader/controller installation.

7. IN120/IN220 Mortise Lock Installation

1. Door Preparation

Remove the two (2) #12-24x1" flat head mounting screws. (Figure 7-1A)
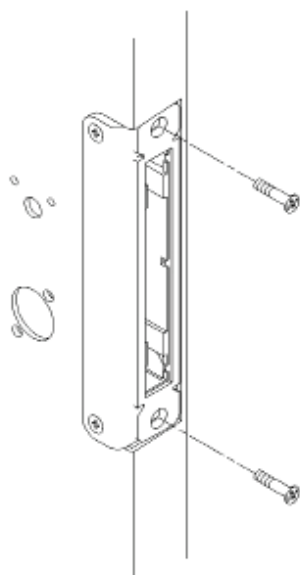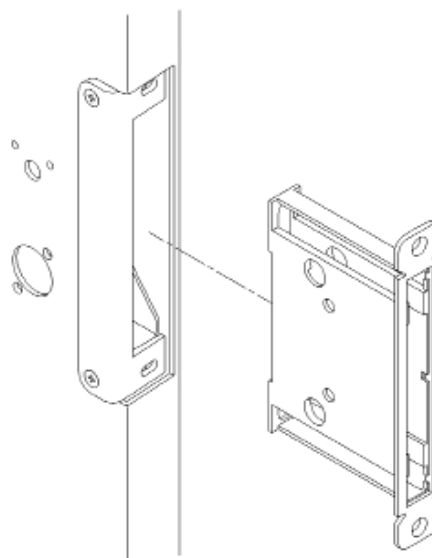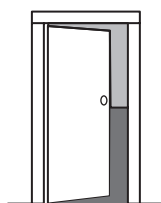
Next, remove the mortise lock filler and discard. (Figure 7-1B).

Figure 7-1A

Figure 7-1B

2. Verify Hand and Bevel of Door

Stand on outside of locked door when determining door hand.

LH	LHRB	RH	RHRB
Left Hand	Left Hand	Right Hand	Right Hand
Hinges Left	Reverse Bevel	Hinges Right	Reverse Bevel
Open Inward	Hinges Left	Open Inward	Hinges Right
	Open Outward		Open Outward
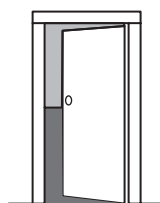
Figure 7-2

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7. IN120/IN220 Mortise Lock Installation (continued)

3. Prepare Lock Body

A. Reverse Lock Hand (If Required)

Red surface of locking piece must face the outside/locked side of door. To rotate locking piece (Figure 7-3A):

1. Position lock body with red surface of locking piece visible.

2. Insert blade type screwdriver into locking piece slot to rotate locking piece toward back of lock body.

3. Rotate the locking piece 180° until RED surface is on opposite side.

NOTE: Red indicates locked side (outside).

Right Hand Lock Shown

Locking Guide Slot: Red color indicates locked side.

Push In
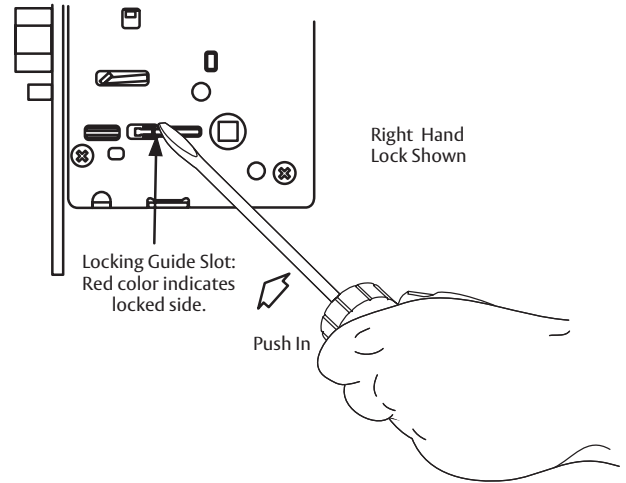
Figure 7-3A

B. Reverse Latch

Beveled surface of latch must face strike (Figure 7-3B).

The deadlatch is self adjusting.

To change hand of latchbolt:

1. Insert screwdriver into spade (triangular) shaped slot.

2. Rotate screwdriver 90° to push latch out until back of latch clears lock front; then rotate latch 180°.

Latch will then re-enter lock body.
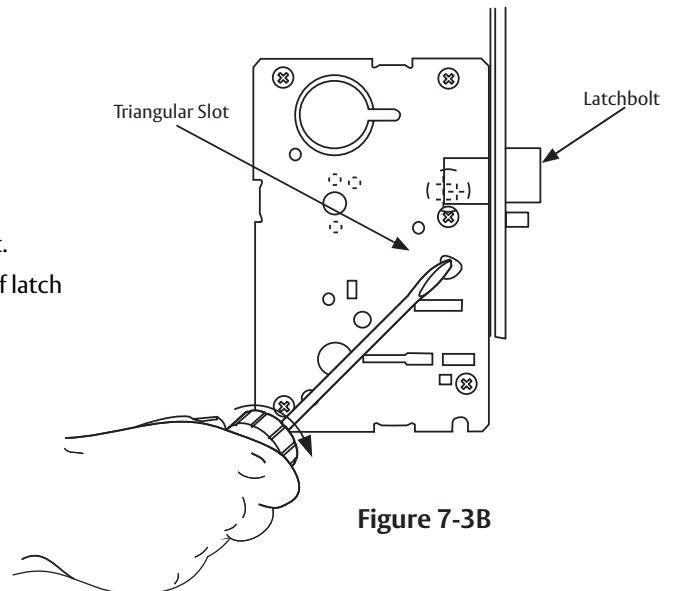
NOTE: Latch cannot be unscrewed.

Triangular Slot

Latchbolt

Figure 7-3B

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7. IN120/IN220 Mortise Lock Installation (continued)

4. Install Lock Body

NOTE: Do not pull the lock into the multi-point cassette using the harness alone. Ensure that the wire harness is not pinched between the lock body and the multi-point cassette.

1. Feed the wire harness into the mortise pocket and through inside preparation hole. (Figure 7-4)

2. Carefully push the lock body into the multi-point cassette while lightly applying tension to the wire harness.

3. Insert two (2) #12-24 screws into the lock body and tighten slightly with a screwdriver. DO NOT fully tighten screw until cylinder and levers are installed and properly aligned.

Inside of Door

Ground Wire

Ground Wire

IN220 PoE cable and Ground Wire (from hinge)**

(2) #12-24 screws
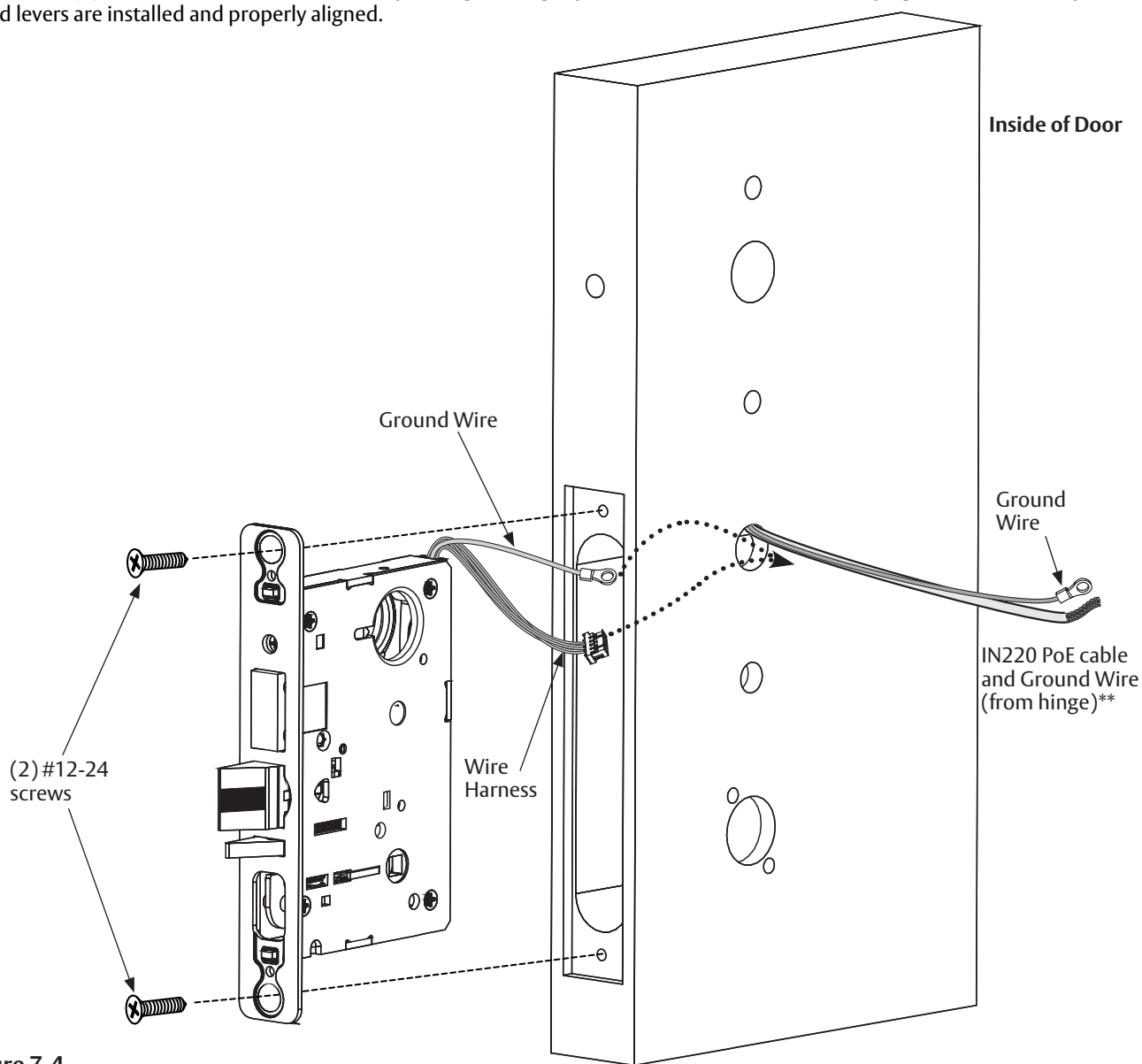
Wire Harness

Figure 7-4

** For more detail, refer to Section 5 IN220 (PoE) Installation Wiring, Frame Harness Installation.

For installation assistance contact Corbin Russwin
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7. IN120/IN220 Mortise Lock Installation (continued)

5. Outside Cylinder Installation

1. Slide the spring and the rosette onto the cylinder. (Figure 7-5A)

2. Insert the cylinder into cylinder hole and rotate using fingers to secure the cylinder.

3. Insert key 75% of the way and utilize the key to rotate the cylinder further into the cylinder hole. **NOTE:** Do not attempt to tighten all the way.

4. Verify that orientation of cylinder has the Corbin Russwin logo as depicted in Figure 7-5B.

5. Hand tighten the cylinder clamp screw with Phillips screwdriver to prevent unscrewing of the cylinder. (Figure 7-5C)

6. Test cylinder function, as applicable:

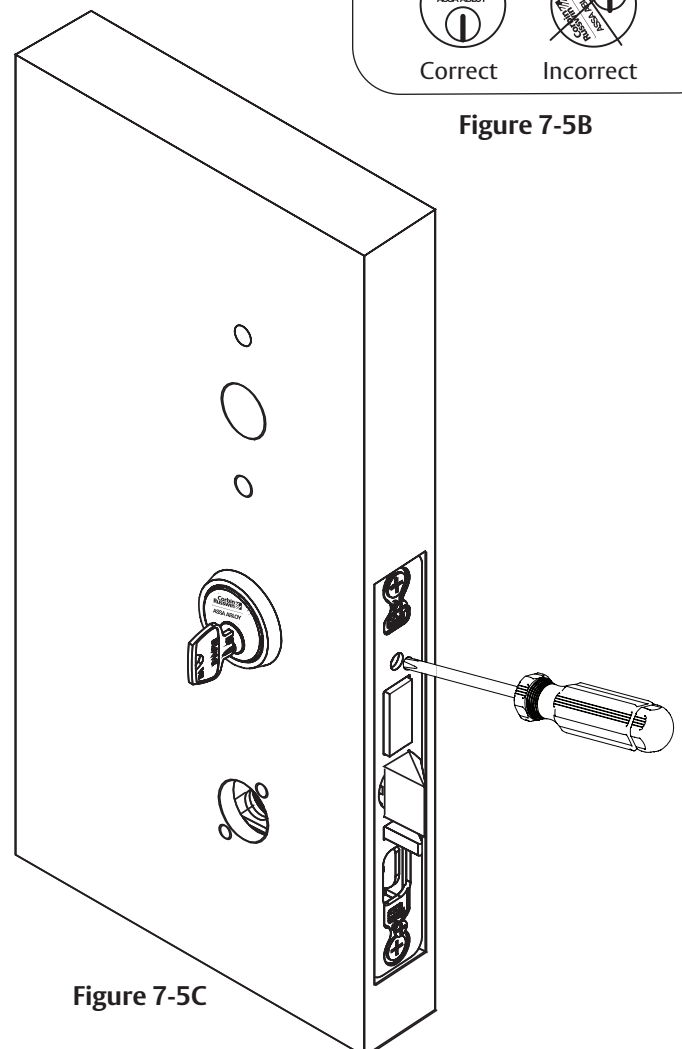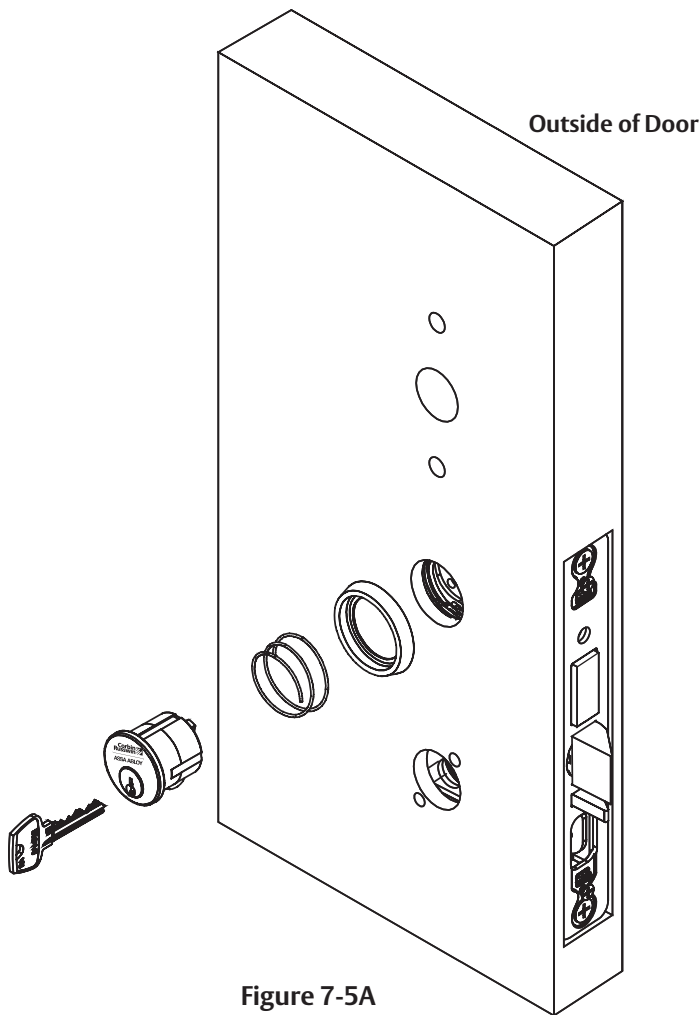   • Key retracts latchbolt and deadbolt

   • Key retracts latchbolt

IMPORTANT: Position cylinder so that the Corbin Russwin logo is positioned correctly.

Correct   Incorrect

Figure 7-5B

Outside of Door

Figure 7-5A

Figure 7-5C

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Corbin Russwin

ASSA ABLOY
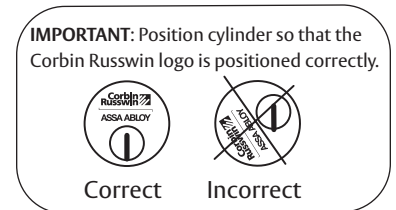
7.   IN120/IN220 Mortise Lock Installation (continued)

6.   Assemble Outside Trim

1. With outside lever horizontal, insert the mounting posts through outside of door and lock body. Make certain the lever spindle is properly engaged inside the lock body. (Figure 7-6A)

2. On the inside of the door, insert spindle into square hole of mortise lock. (Figure 7-6B)

3. Slide inside adapter and plate assembly over spindle and secure with two (2) 8-32 x 5/8" Phillips oval head and lock washer machine screws.

NOTE: Ensure that position of set screw hole on inside adapter is oriented to match location of hole in inside lever handle.

Outside of Door   **Inside of Door**

Outside Trim

Lever Detail

Spindle

Outside Trim

Figure 7-6A

Ground Wire

IN220 PoE cable

Wire Harness (From Lock Body)

*Set Screw Hole See Note above.

Spindle

Figure 7-6B
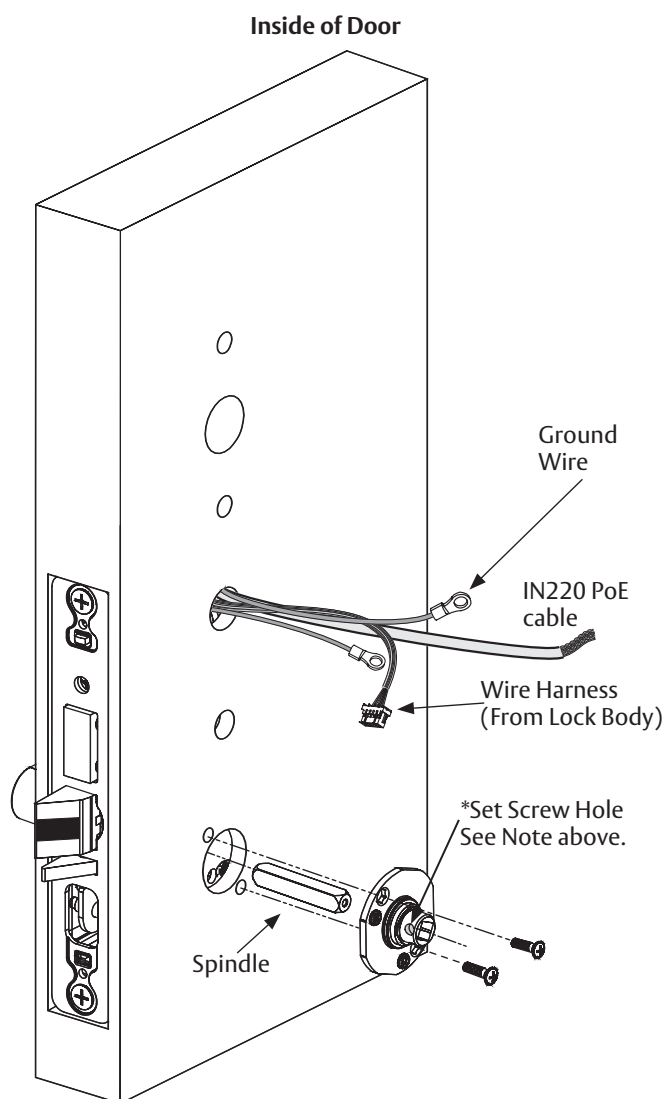
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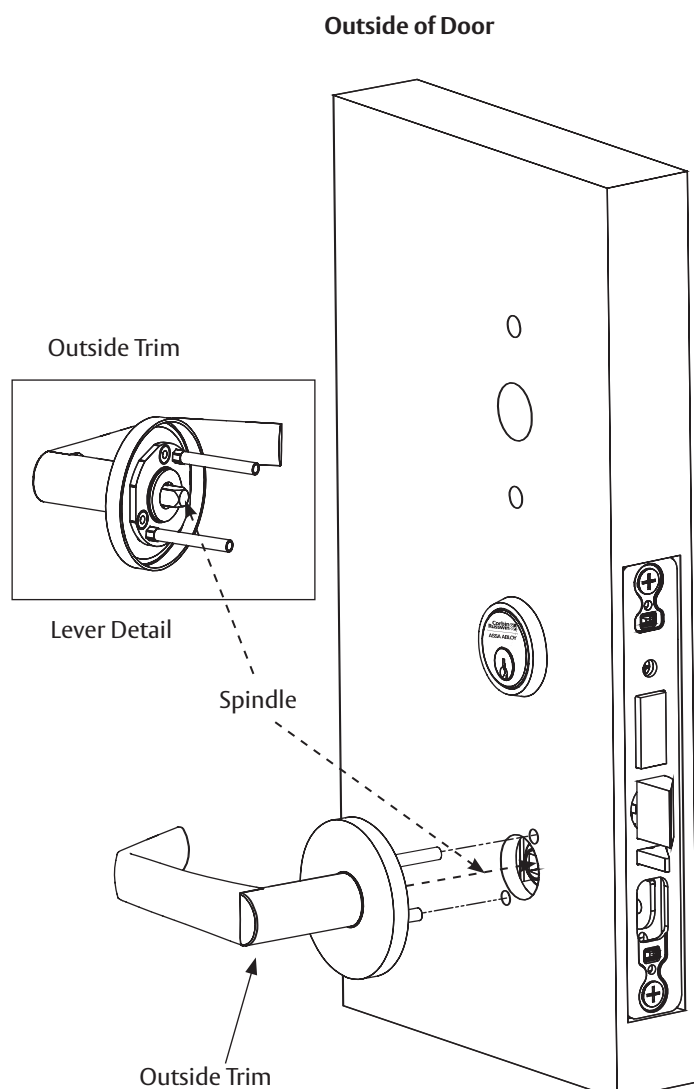
7. IN120/IN220 Mortise Lock Installation (continued)

7. Install Inside Rose and Inside Lever Assembly

1. Place inside rose flush against door surface and rotate first counter-clockwise to seat the threads, then clockwise to securely tighten.

2. Slide lever onto spindle until fully seated. Be sure handle is horizontal and facing the hinge side of the door. Push lever onto spindle so minimum gap is visible.

3. Tighten the set screw securely with a T20 Torx® driver.

4. Finish securely tightening two (2) #12-24 lock body screws.

5. Before closing the door, test that the lever is functional and ensure smooth operation of the latchbolt.

Inside of Door

Cat 5e cable and ground wire from hinge for IN220 (PoE)

#12-24 screws

Spindle

Rose

Inside Lever

Set Screw

Figure 7-7

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ASSA ABLOY
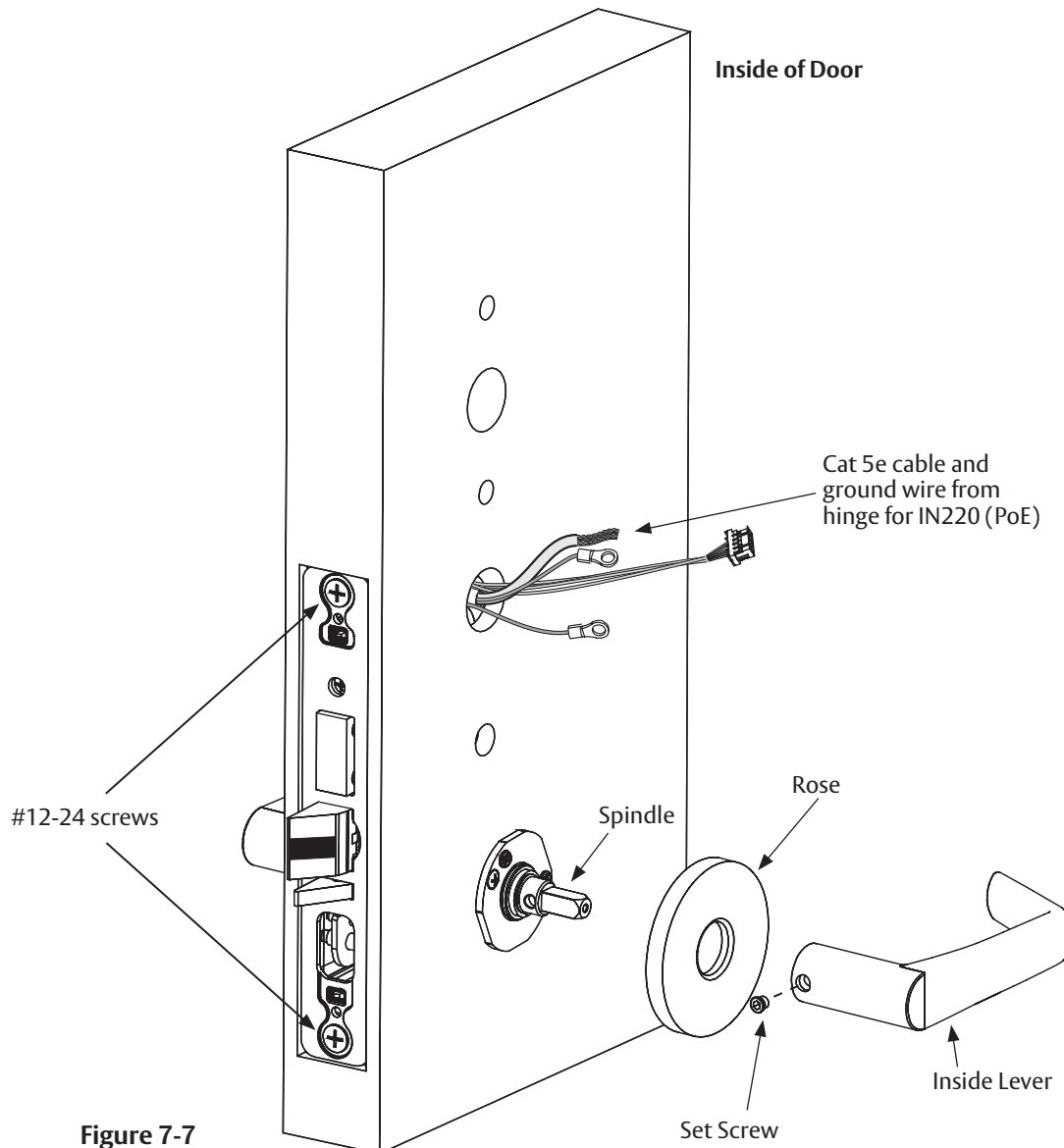
7.   IN120/IN220 Mortise Lock Installation (continued)

8. Install Thumb Turn

1. Insert thumb turn into preparation hole and engage slot in lock body.

2. Orient mounting plate so screw hole is vertical and aligned with preparation holes.

3. Secure plate with Phillips screw provided.

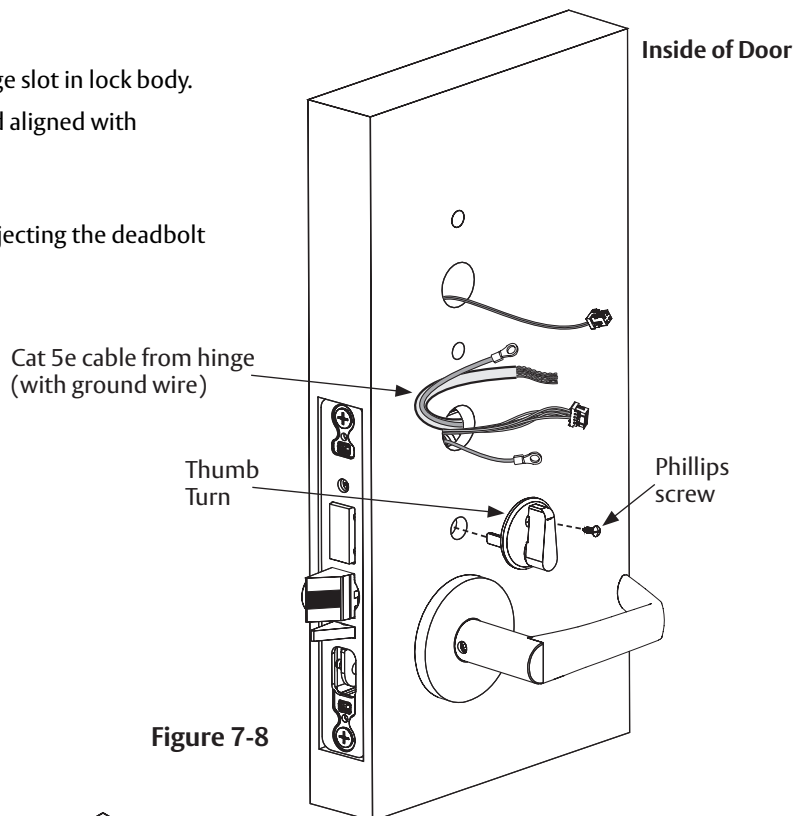4. Test thumb turn for function by retracting and projecting the deadbolt (if applicable).

Inside of Door

Cat 5e cable from hinge (with ground wire)

Thumb Turn

Phillips screw

Figure 7-8

9. Attach Front Plate

Attach front plate with two (2) Phillips head screws.

Outside of Door

Two (2) Phillips head screws

Figure 7-9

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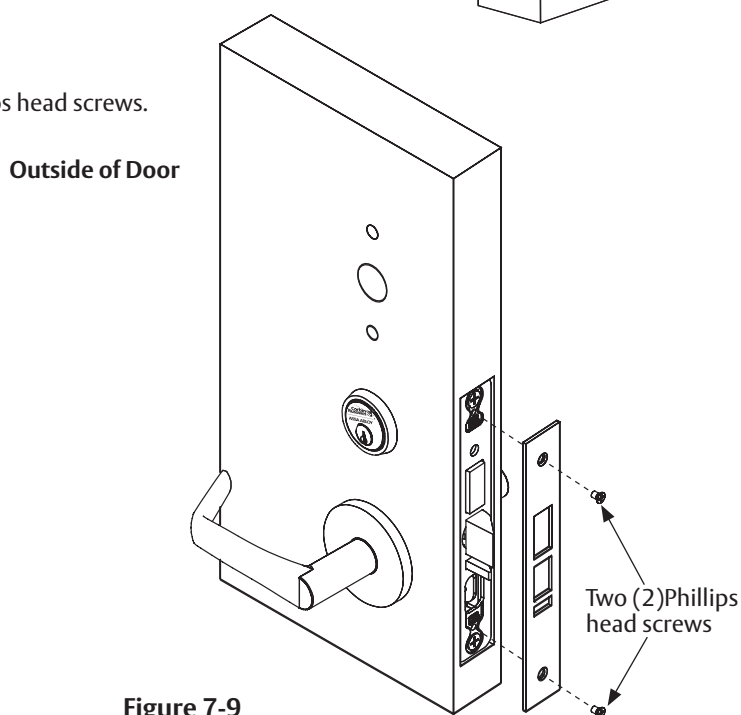
7. IN120/IN220 Mortise Lock Installation (continued)

10. Install IN120 / IN220 Outside Reader

1. Orient reader/keypad so LED lens is at the top.

2. Feed the cable/connector through the door (from outside to inside).

3. Install reader to the outside of the door by aligning mounting posts with the door preparation holes. Hold reader flush against door while ensuring proper alignment.

Figure 7-10A

Figure 7-10B

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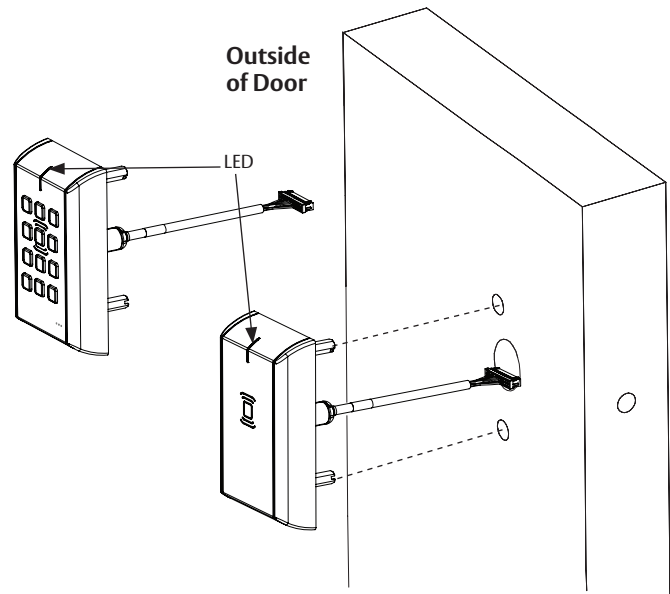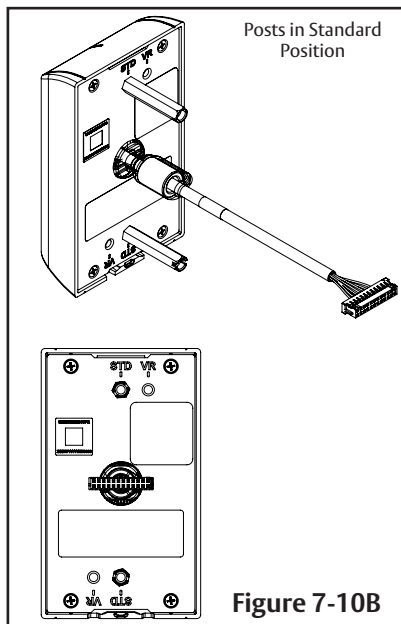
7. IN120 / IN220 Mortise Lock Installation (continued)

11. Install Mounting Plate Assembly

1. Feed cables/connectors through the inside controller mounting plate assembly (and gasket if required*).

2. Insert and partially tighten two (2) through-bolts prior to installation of connectors.

3. Secure ground lug(s) with #6-32 machine screw (Figure 7-11B).

*Gasket is required for outdoor installations.

If installing with gasket, separate gasket from controller mounting plate to feed cables/connectors through holes as indicated (Figure 7-11A). Once cables/connectors are fed through, reattach gasket to controller mounting plate.

Figure 7-11A

Figure 7-11B
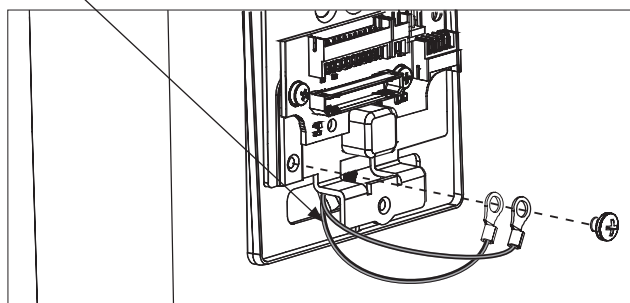
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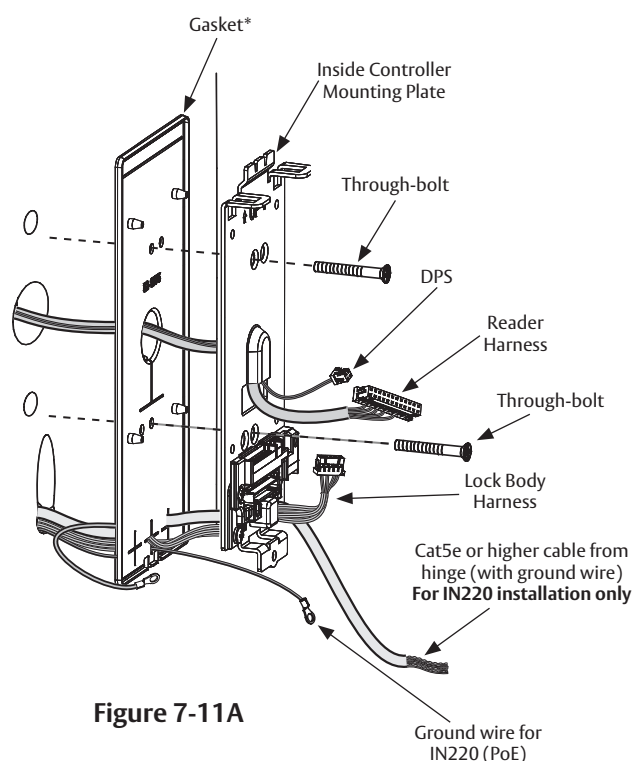
7. IN120 / IN220 Installation (continued)

12. Preparation of Connectors

CAUTION: Do not touch or allow debris to enter connector contacts.

- Ensure connectors are covered with silicone dielectric compound (grease)*

- Snip end of packet to dispense grease.

- Ensure all connector pins and contacts are covered
  DO NOT overfill or over-apply**

Figure 7-12

*Supplied tube contains 5 grams of silicone dielectric compund (grease).

**Evenly distribute grease, wiping away excess; full application requires approximately 2.5 grams.

IMPORTANT: Do not run wires through bottom hole in plate (Figure 7-12). It will damage wires and the controller connectors. Route wires around flange, do not route wires through the flange hole.
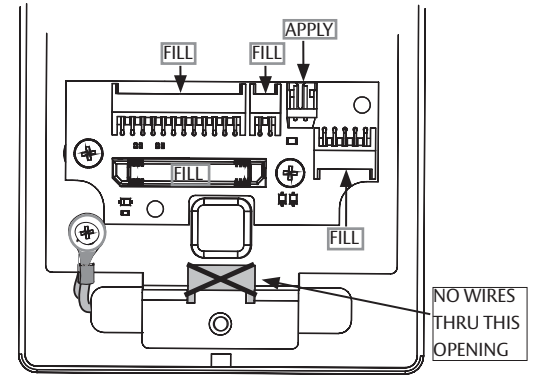
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7. IN120 / IN220 Installation (continued)

13. Installation of Connectors

To install the connectors, do the following (refer to Figures 7-13A and 7-13B):

1. Attach the 10-pin lock body assembly connector A.

2. Tuck the excess cable into the wire hole on the inside of the door.

3. Secure the Mounting Assembly while ensuring proper alignment of outside reader. Fully tighten the two (2) through-bolts on the inside of the door to secure the reader and plate to the door.

4. Attach the 24-pin reader connector B.

5. Ensure all openings on back of secured reader connector are covered completely with grease. (Figure 7-13B)
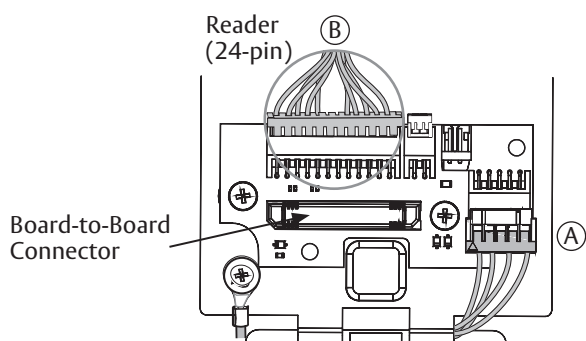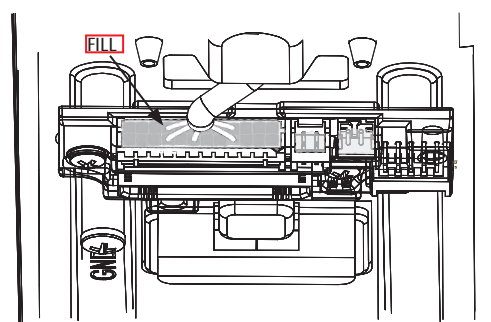

Figure 7-13A

Figure 7-13B

To install the IN220 (PoE), do the following (refer to Figure 7-13C):

1. Pull 5 1/2 inches of ethernet cable from hole. Strip cable jacket back 3 1/2 inches.

2. Separate (untwist) and straighten eight (8) ethernet wires before carefully feeding through ferrite bead.

3. Crimp RJ45 (male) connector on end of wires.

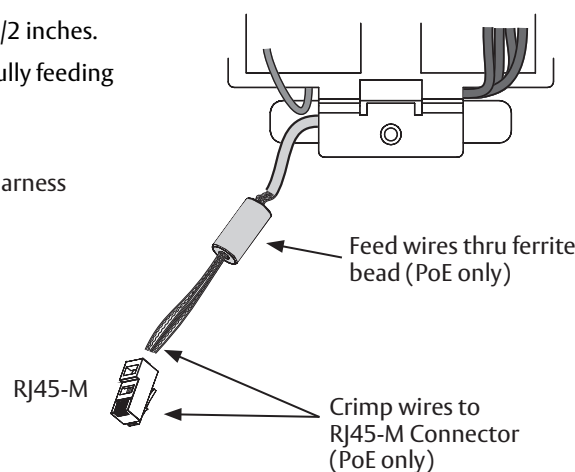For more detail, refer to Section 5 IN220 (PoE) Installation Wiring, Frame Harness Installation.

Feed wires thru ferrite bead (PoE only)

RJ45-M

Crimp wires to RJ45-M Connector (PoE only)

Figure 7-13C

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7. IN120 / IN220 Installation (continued)
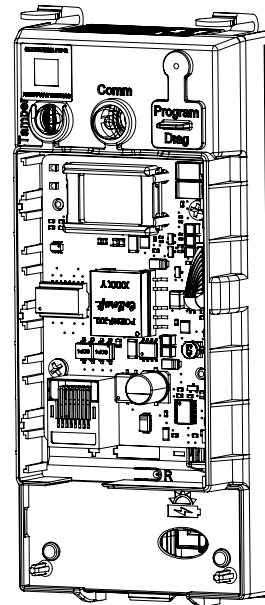
14. Installing the Controller

IMPORTANT: Before installing the controller apply dielectric grease to connector* located on the back of the controller (refer to Figure 7-14B).

CAUTION: Do not allow debris to enter connector contacts.

To install the controller, do the following:

1. Insert bottom tab of controller (ensure a clear path) into slot on mounting plate. (Figure 7-14C)

2. Ensure proper alignment of board-to-board connectors while pivoting controller toward door until two tabs on top click securely into place on mounting plate. (Figure 7-14D)

CAUTION: To avoid possible damage to board-to-board connectors, care should be taken when securing controller to mounting plate. If there is resistance when securing, detach controller to determine cause before re-attaching controller.

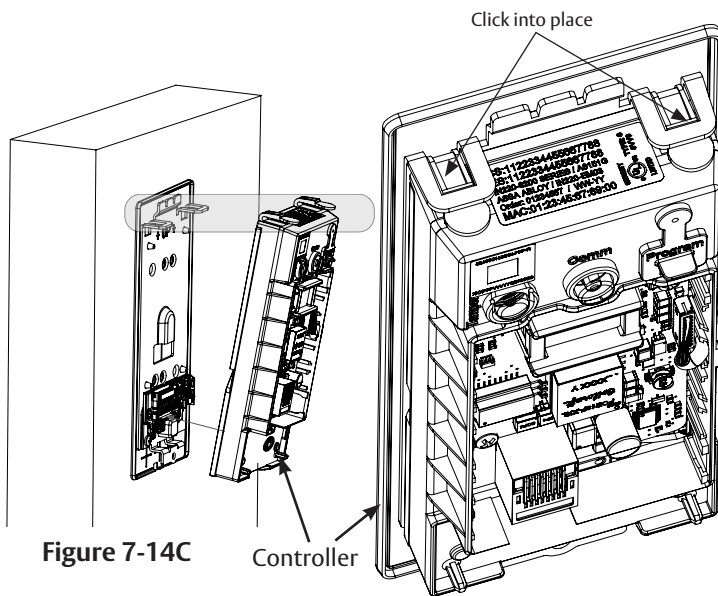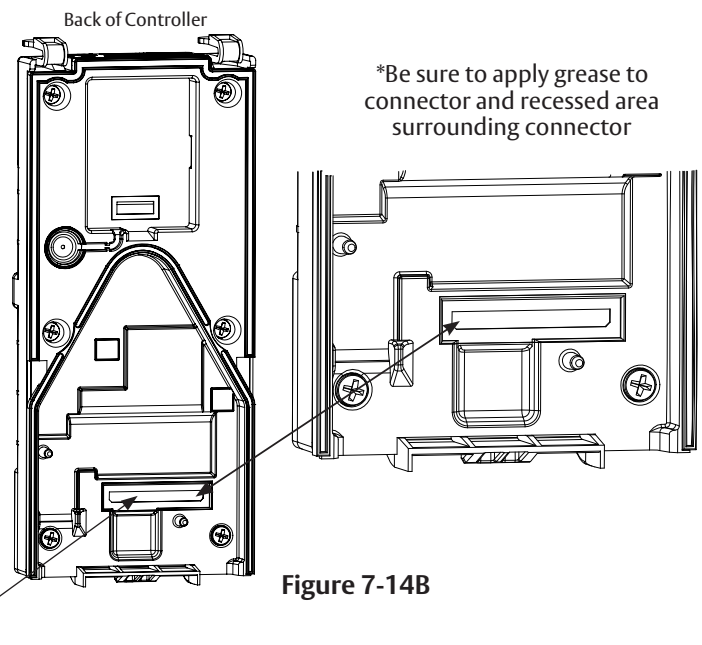Front of controller (PoE shown)

Figure 7-14A

Click into place

Back of Controller

*Be sure to apply grease to connector and recessed area surrounding connector

Figure 7-14C

Controller

Figure 7-14D

Connect

Figure 7-14B

7.　IN120 / IN220 Installation (continued)

15.　Supplying Power to the Controller

IN220 (PoE)

IMPORTANT: Before inserting PoE plug into PoE connector, apply dielectric grease to top of plug, covering the pin area (Figure 7-15A).

1. Once controller is securely in place, connect RJ45 male connector to female RJ45 port on controller board (Figure 7-15A).

2. If power is enabled, LED flashes and lock motor cycles.

IN120 (WiFi)

1. Once controller is securely in place, insert six (6) AA alkaline batteries into the compartment, being careful to align polarity properly.

2. After all batteries are installed, there is a slight delay and then an audible "beep" sounds and the lock motor cycles.
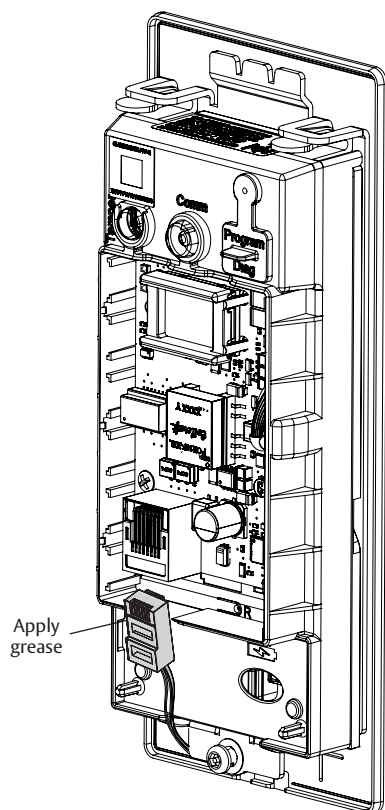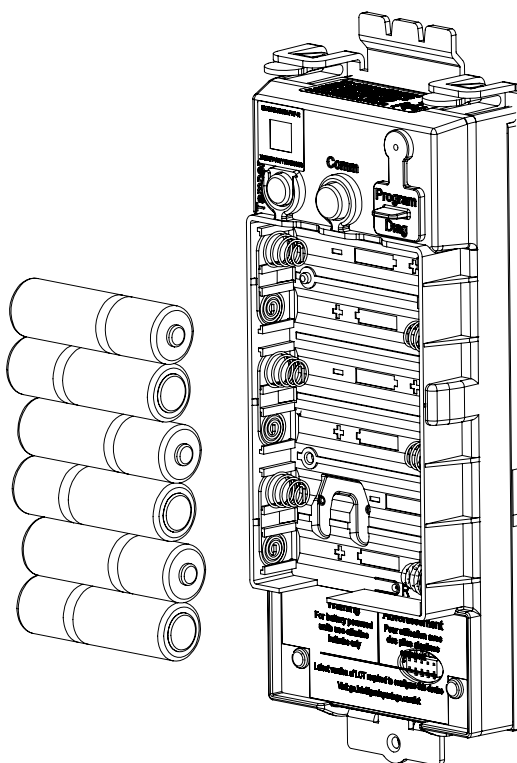

Apply grease

Figure 7-15A

Figure 7-15B

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7. IN120 / IN220 Installation (continued)

16. Inside Cover Installation

1. Assemble cover by hooking top edge on inside mounting plate, taking care not to pinch gasket (top edge goes between plate and gasket). (Figures 7-16A, 7-16B)

2. Carefully press bottom of cover toward door without pinching any wires.

NOTE: Be aware of the location of installed ferrite bead (IN220 PoE) and excess wires. (Figure 7-16D)

3. Secure the cover with a Security Allen Key. (Figure 7-16C)

Figure 7-16B

Figure 7-16D

Figure 7-16A

Security Allen Key
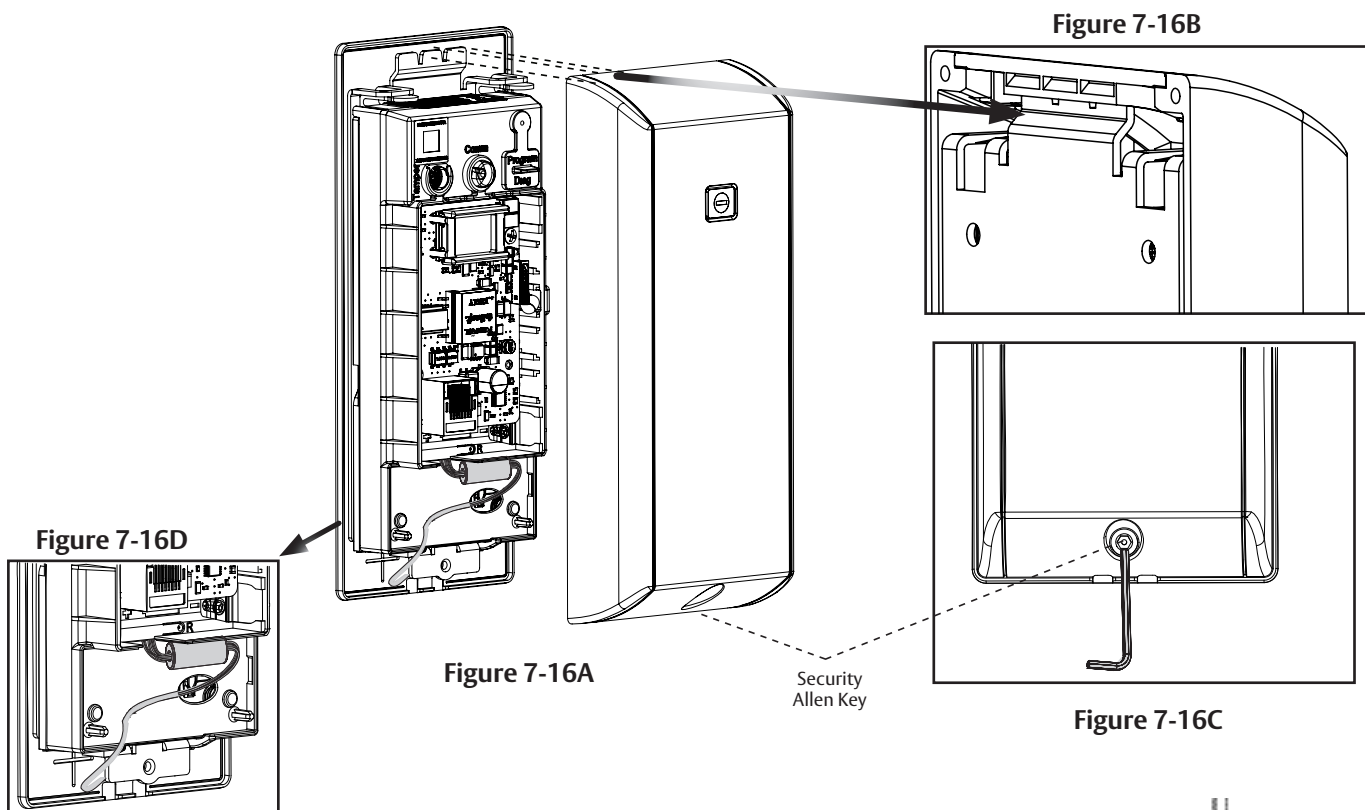
Figure 7-16C

17. Install Shield

1. Install shield (provided) over inside controller (Figure 7-17).

2. Drill and tap door for #8-32 machine screws (provided).
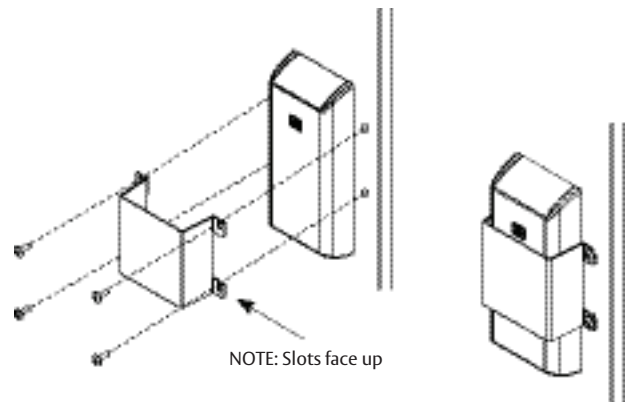
3. Secure shield with the four (4) #8-32 machine screws.

NOTE: Slots face up

Figure 7-17

8. Operational Check

IMPORTANT: Be sure to test functions prior to closing door
For mortise locks with cylinders, perform the following checks:

1. Insert key into cylinder and rotate. There should be no friction against lock case, wire harness, or any other obstruction. If friction or binding occurs, readjust cylinder and wiring harness to eliminate issues.
2. Check that key retracts the latch. The key should rotate freely.
3. Throw the deadbolt (if present). Check that the key retracts both the deadbolt and the latch.
4. Try the inside lever. Ensure it retracts latch and deadbolt (if present).
5. For units without a keypad, add card using LCT software and then test.
6. For units with a keypad, add pin and card using LCT software and then test.

LED signaling:

- After using a valid credential a green flash followed by motor unlock indicates normal operation (lock unlocks).
- After using a valid credential a green flash followed by 4 beeps and 4 fast purple flashes – indicates low power. Check the input voltage.
- If the input voltage is low, disconnect lock from power source and check power source voltage. If power source voltage is correct, inspect lock wiring for a possible short.

  If the lock loses power, it will flash rapid blue for approximately one minute. Lock will default to programmed fail safe or fail secure.

  After that, the lock will no longer be functional.

When you have completed the tests, close the door, ensuring latchbolt fully extends into strike plate without binding.

NOTE: The credential should approach the inscription on the reader as indicated to ensure that the credential is read properly.

Do not wave credential.
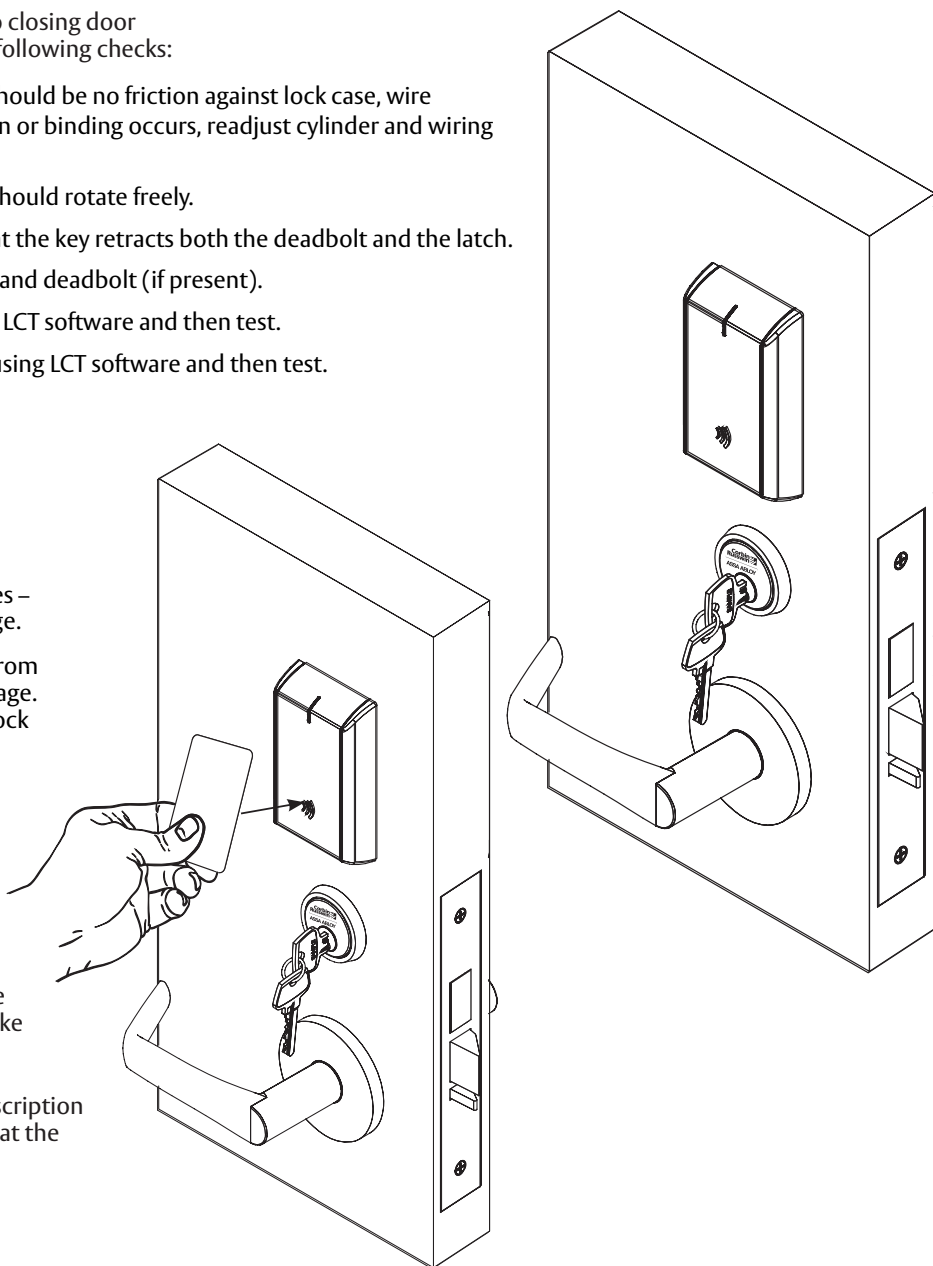
9. Continued Installation

Continue installation by referring to the mechanical multi-point lock instructions:

- FE6600, BL6600, MP6600 Series Installation Instructions FM440

Start with the section titled *Deadbolt Label installation (FM7300 only)* or *Key Override with Deadbolt Function Operation Check*.

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