Installation Instructions
SE LP10 ML20600 Mortise Lock

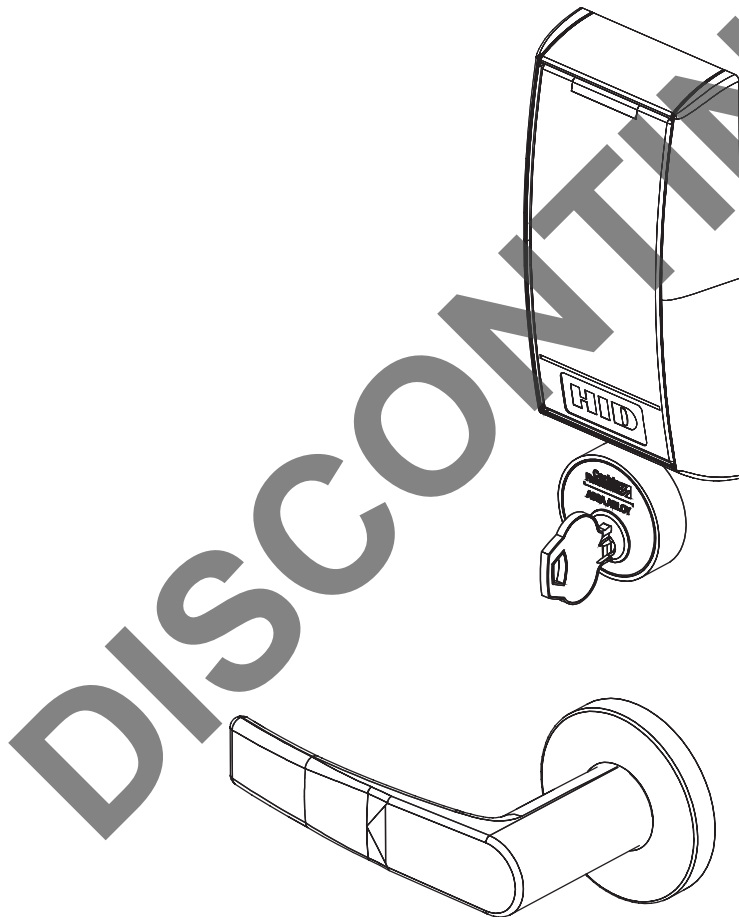**Corbin Russwin**
ASSA ABLOY

FM383 06/20

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.

DISCONTINUED

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

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SE LP10 ML20600 Mortise Lock

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1) Regulatory Compliance

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.

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.

Industry Canada:
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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter 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 définies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et votre corps. Cet émetteur ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

Under Industry 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'Industrie 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.

2) 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**.
Ce produit peut vous exposer au plomb qui, dans l'état de la Californie, est reconnu pour causer le cancer, des anomalies congénitales ou d'autres problèmes de reproduction.
Pour plus d'informations, visitez: **www.P65warnings.ca.gov**.

Any retrofit or other field modification to a fire rated opening can potentially impact the fire rating of the opening, and Corbin Russwin 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.

ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES
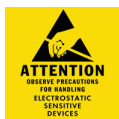
To avoid possible damage from electrostatic discharge (ESD), some basic precautions should be used when handling electronic components:

- 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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3) General Description

The Corbin Russwin SE LP10 brings flexibility to our Integrated Wired access control solutions. Featuring multiCLASS SE® Technology from HID Global®, the SE LP10 is ideal for mixed credential environments and enables easy migration to higher security credentials and mobile access.

Backed by Corbin Russwin's Grade 1 hardware, the SE LP10 mortise lock features Request to Exit (RX) and Door Position (DPS) monitoring inside the lock body and is available in 12 or 24VDC. The SE LP10 reader provides visual (LED) and audible indicators of lock state (locked/unlocked).

4) Specifications / Features

- Latch - Stainless steel 3⁄4" projection two-piece with anti-friction insert
- Deadbolt - One-piece hardened stainless steel
- Guardbolt - Stainless steel, non-handed
- Handed - Easily field reversible without opening the case
- Case - 12 gauge heavy duty wrought steel
- Fail safe or Fail secure operation - must specify but can easily be field-configured
- UL fire listed and labeled (up to 3-hour fire-rated openings)
- Wire from EAC Panel to door must be plated with a drain. Drain terminated at EAC Panel controller.
- Complete monitoring of door includes request to exit and door position monitoring with optional end-of-line resistors
- Wires directly to EAC Panels
- Supports multiple credential formats:

  - **2.4 GHz credential compatibility**
    - Secure Identity Object™ (SIO) on Mobile IDs (Bluetooth Smart)

  - **13.56 MHz credential compatibility:**
    - Secure Identity Object™ (SIO) on iCLASS Seos, iCLASS SE/SR, MIFARE DESFire EV1/EV2 and MIFARE Classic (on by default)
    - Standard iCLASS Access Control Application, ISO14443A (MIFARE) CSN, ISO14443B CSN, and ISO15693 CSN
    - ISO14443A/B (PIV-compatible Transparent FASC-N read) available with SE LP10-F (**not available with Alternate Indicator Configuration**)
    - NFC-enabled mobile phones

  - **125 kHz credential compatibilty:**
    - HID Prox®, AWID, EM4102
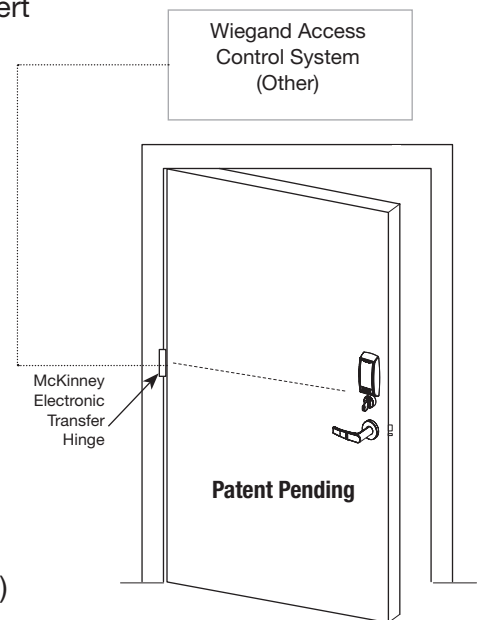
  For Mobile Credential-Enabled versions of this electronic lock
  (Indicated by "BIPS" in the product order string):
  - Mobile Credentials are transmitted to the lock via Bluetooth Smart or NFC ISO/IEC14443 and must use a mobile device enabled with these technologies.
  - Credential and mobile device versions are specified by the credential provider.
  - User must acquire the latest HID "Mobile Access" application available from Apple iStore or Android PlayStore.

Wiegand Access Control System (Other)

McKinney Electronic Transfer Hinge

Patent Pending

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4) Specifications / Features

- UL Listed* - UL 294 Indoor Use
- CUL Listed - S319: Class 1
- ANSI/BHMA A156.25 Listed Grade 1 Compliant

  *UL294, S319, & BHMA A156.25 currently not applicable to Alternate Indicator option

- **UL 294 Access Control Ratings**:

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

UL testing was conducted on product powered by UL Listed model 9001GR/AC injector; manufactured by Microsemi Corp.

Electrical Specifications

12/24VDC System

	12V		24V	
	Average	Peak	Average	Peak
Reader	100mA	220mA	n/a	n/a
Actuator	15mA	500mA	15mA	500mA

The reader requires 12VDC for power, while the lock accepts either 12 or 24VDC.

Wiegand Access Control System

McKinney Electric Hinge

SE LP10
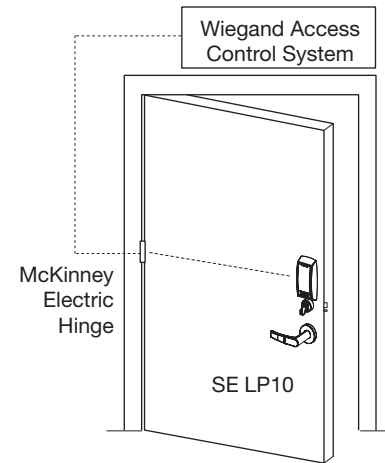
Wire Gauge Chart 12VDC — Load Current @ 12VDC

Total One-Way Length of Wire Run (ft)	1/4A	1/2A	3/4A	1A	1-1/4A	1-1/2A	2A	3A
100	20	18	16	14	14	12	12	10
150	18	16	14	12	12	12	10	—
200	16	14	12	12	10	10	—	—
250	16	14	12	10	10	10	—	—
300	16	12	12	10	10	—	—	—
400	14	12	10	—	—	—	—	—
500	14	10	10	—	—	—	—	—
750	12	10	—	—	—	—	—	—
1,000	10	—	—	—	—	—	—	—
1,500	10	—	—	—	—	—	—	—

Wire Gauge Chart 24VDC — Load Current @ 24VDC

Total One-Way Length of Wire Run (ft)	1/4A	1/2A	3/4A	1A	1-1/4A	1-1/2A	2A	3A
100	24	20	18	18	16	16	14	12
150	22	18	16	16	14	14	12	10
200	20	18	16	14	14	12	12	10
250	18	16	14	14	12	12	12	10
300	18	16	14	12	12	12	10	—
400	18	14	12	12	10	10	—	—
500	16	14	12	10	10	—	—	—
750	14	12	10	10	—	—	—	—
1,000	14	10	10	—	—	—	—	—
1,500	12	10	—	—	—	—	—	—

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.

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

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## 5) Product Illustrations

Outside　　　　　　**Inside**
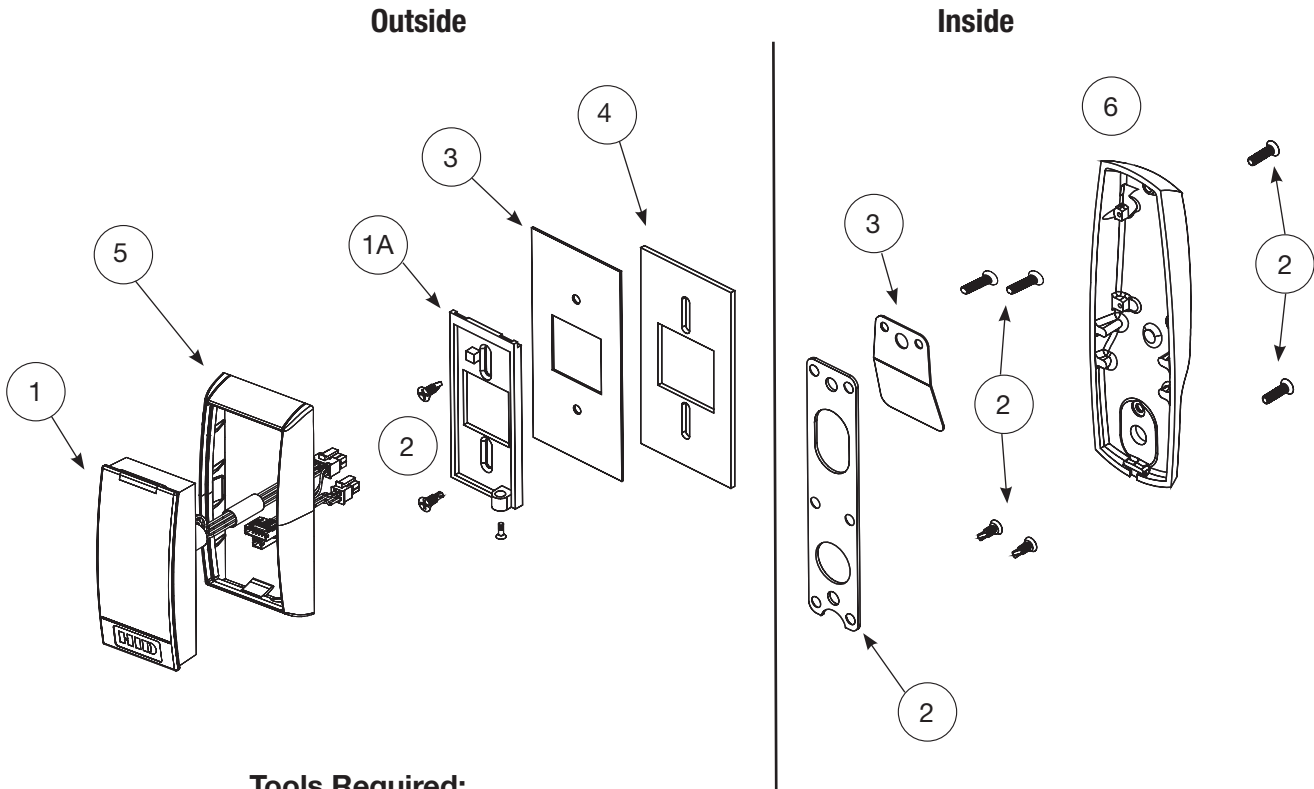
Tools Required:

- #2 Phillips Screw Driver (Standard size)
- Flat Blade Screw Driver (Standard size)
- 1/8" Allen Wrench
- TR10 Torx Security Screw Driver

ITEM	PART #	DESCRIPTION	
1	763F809	BIPS-B03 Reader and Harness Assembly - Bluetooth (Standard Indicator Configuration)	1
	763F649	FIPS-B03 Reader & Harness Assembly - 200 bit Wiegand output	
	763F669	FIPS-B04 Reader & Harness Assembly - 75 bit Wiegand output	
	763F629	IPS-B03 Reader & Harness Assembly (Standard Indicator Configuration)	
	784F869	IPS-B0E Reader & Harness Assembly - (Alternate Indicator Configuration)	
	784F879	BIPS-B0E Reader & Harness Assembly - Bluetooth (Alternate Indicator Configuration)	
1A	--	SE Reader Mounting Plate	1
2	763F89M FIN	Mounting Packet	1
3	763F719	Fire Plate Packet	1
4	764F319	Gasket (for non fire-rated doors)	1
5	852F269	Trim Bezel- Black	1
6	763F79M FIN	Inside Escutcheon with Thumbturn	1
	743F27M FIN	Inside Escutcheon without Thumbturn	1

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5) Product Illustrations (Continued)
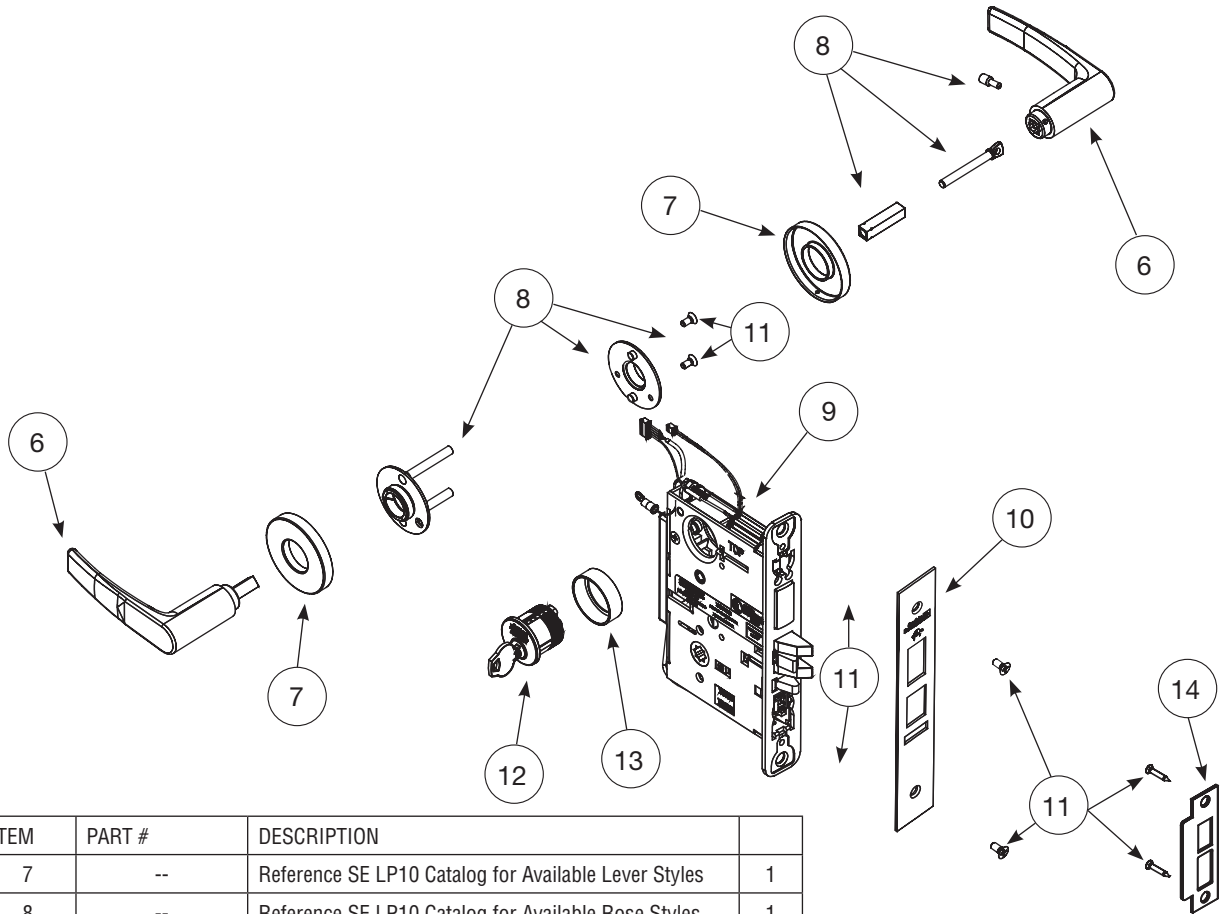
ITEM	PART #	DESCRIPTION	
7	--	Reference SE LP10 Catalog for Available Lever Styles	1
8	--	Reference SE LP10 Catalog for Available Rose Styles	1
9	466F418	Trim Pack - Standard Levers	1
	807F328	DL Trim Pack - Museo® (not shown)	
10*	816F008** 26D	ML20606/07 SAF	1
	816F018** 26D	ML20606/07 SEC	1
	816F028** 26D	ML20608/09 SAF (with Deadbolt)	1
	816F038** 26D	ML20608/09 SEC (with Deadbolt)	1
11	402F30M FIN	Outside Faceplate w/ Deadbolt	1
	624F49M FIN	Outside Faceplate w/o Deadbolt (not shown)	1
12	429F41M FIN	Lock Body and Strike Screw Pack	1
13	--	Cylinder, A01 Cam	1
14	--	Cylinder Collar	1
15	236L72M018 FIN	Strike (w/ Deadbolt)	1
	236L73M018 FIN	Strike (w/o Deadbolt) - not shown	1
16	FM380	Inside Field Prep Template (Not shown)	1
17	T31213	Door Manufacturer Template (Not shown)	1
18	FM383	Installation Instructions (Not shown)	1
19	FM388	Outside Field Prep Template (Not shown)	1

*For EOL (End-of-Line Resistor) and PHR locks, please consult factory
**Replace with handing (L, LR, R, or RR)

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6) Wiring Diagrams

Product	8 PIN CONNECTOR								4 PIN CONNECTOR			
	1-Black	2-Red	3-White	4-Green	5-Orange	6-Blue	7-Brown	8-Yellow	1-Violet	2-Gray	3-Pink	4-Tan
	ACCESS CONTROL DEVICES: SE LP10 Mortise, ElectroLynx wire Color / Function assignments											
SE LP10 Mortise	12VDC (Reader)		WIEGAND	WIEGAND	RX	RX	EGND	TAMPER	12/24 VDC (LOCK RELAY)		DPS	DPS
								GREEN_LED*				
	NEG	POS	DATA_1	DATA_0	NO	COM	EGND	OPEN COLLECTOR	NEG	POS	NC	COM
								INPUT				

*Diagrams on following pages

If your lock is configured with End of Line Resistors, reference instruction sheet A8191 for the wiring of RX & DPS outputs.

Default Operation Mode:

- Red LED 'ON' when powered.
- Presenting a 13.56MHz or 125 kHz credential causes LED to briefly turn green and then return to red state.
- Presenting a FIPS 201 PIV credential causes LED to turn amber as credential is authenticated. Reader emits a short beep when credential is successfully read. Reference Diagram #1.

Optional TAMPER Operation Mode:

- Connect Yellow TAMPER wire from ElectroLynx cable to desired EAC panel control line. Reference Diagram #1.
- As appropriate, use the configuration card to activate desired mode on reader.

PIN 8 (Yellow – TAMPER)
PIN 6 (Blue – RX COM)
PIN 4 (Green – Data 0)
PIN 2 (Red – Reader POS)
PIN 1 (Black – Reader NEG)
PIN 3 (White – Data 1)
PIN 5 (Orange – RX NO)
PIN 7 (Brown - EGND)

PIN 4 (Tan –DPS COM)
PIN 2 (Gray – Lock POS)
PIN 1 (Violet – Lock NEG)
PIN 3 (Pink – DPS NC)
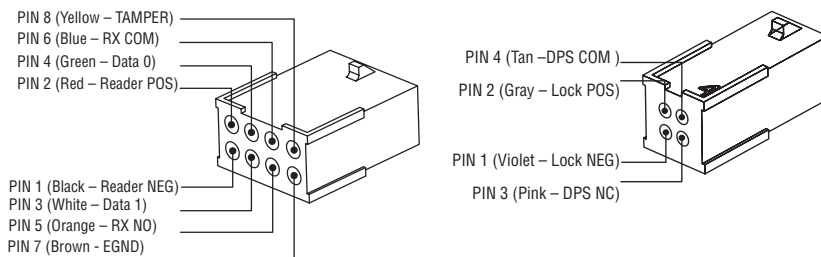
Note: NC= Normally Closed
NO= Normally Open

Optional Alternate Indicator Mode:

- Connect GREEN_LED input to switch controlled by panel. Shorting GREEN_LED to READER_NEG (Black) with panel switch will override reader LED to keep it green.

PIN 8 (Yellow – Green LED)
PIN 6 (Blue – RX COM)
PIN 4 (Green – Data 0)
PIN 2 (Red – Reader POS)
PIN 1 (Black – Reader NEG)
PIN 3 (White – Data 1)
PIN 5 (Orange – RX NO)
PIN 7 (Brown - EGND)

PIN 4 (Tan –DPS COM)
PIN 2 (Gray – Lock POS)
PIN 1 (Violet – Lock NEG)
PIN 3 (Pink – DPS NC)

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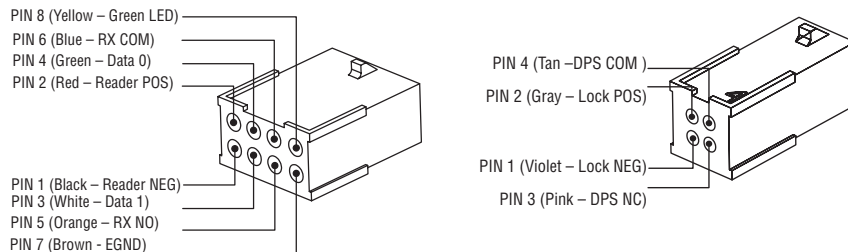
6) Wiring Diagrams (Continued)

Typical (UL294-Compliant) SE LP10 Mortise Application Diagram #1

Tamper will trigger when reader is removed from door and tamper wiring is connected at the panel.

	12V		24V	
	Average	Peak	Average	Peak
Reader	100mA	220mA	n/a	n/a
Actuator	15mA	500mA	15mA	500mA

12/24VDC System

Black (Hot)
White (Neutral)
Green (Gnd)

H N G

120 VAC Input   12-24VDC   12VDC   **Power Supply (By Others)**

- +   - +

12 Conductor ElectroLynx Harness From McKinney

QC12 Electric Hinge From McKinney

READER NEG - Black, 1
READER POS - Red, 2
DATA 1 - White, 3
DATA 0 - Green, 4
RX (NO) - Orange, 5
RX (COM) - Blue, 6
*EARTH GROUND - Brown, 7
TAMPER - Yellow, 8
LOCK NEG - Violet, 9
LOCK POS - Gray, 10
DPS (NC) - Pink, 11
DPS (COM) - Tan, 12

SE LP10

(-)   12VDC
(+)
DATA 1
DATA 0
RX (NO)
RX (COM)

DPS
DPS

Electrical Access Control Panel (By Others)

Use (NC) for Fail Safe Operation

Lock Relay

(NO) Fail Secure Operation

Panel Circuitry

5VDC

$1K\Omega$

Input Connection (+)

$1K\Omega$ A to D Converter

Input Connection (-)

$1K\Omega$

Unsupervised Open Collector Tamper

*IMPORTANT: Pin 7 must be tied to earth ground in the access control panel.

Wiring in accordance with the NEC, ANSI/NFPA 70

Fail secure installations are subject to approval of local AHJ

Fail secure installations shall permit use of Listed panic hardware to allow emergency exit from the protected area.

Failure to follow proper ESD safe grounding procedures could lead to equipment failure.

*UL294 is a United States based standard.

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6) Wiring Diagrams (Continued)

Alternate Indicator Application Diagram #2 (12/24VDC System)

Connect GREEN_LED input to switch controlled by panel. Shorting GREEN_LED to READER_NEG (Black) with panel switch will override reader LED to keep it green.

Reader Electronics Requires 12VDC Filtered and Regulated

NOTE:

If your lock is configured with End of Line Resistors, reference instruction sheet FM for the wiring of RX & DPS outputs.
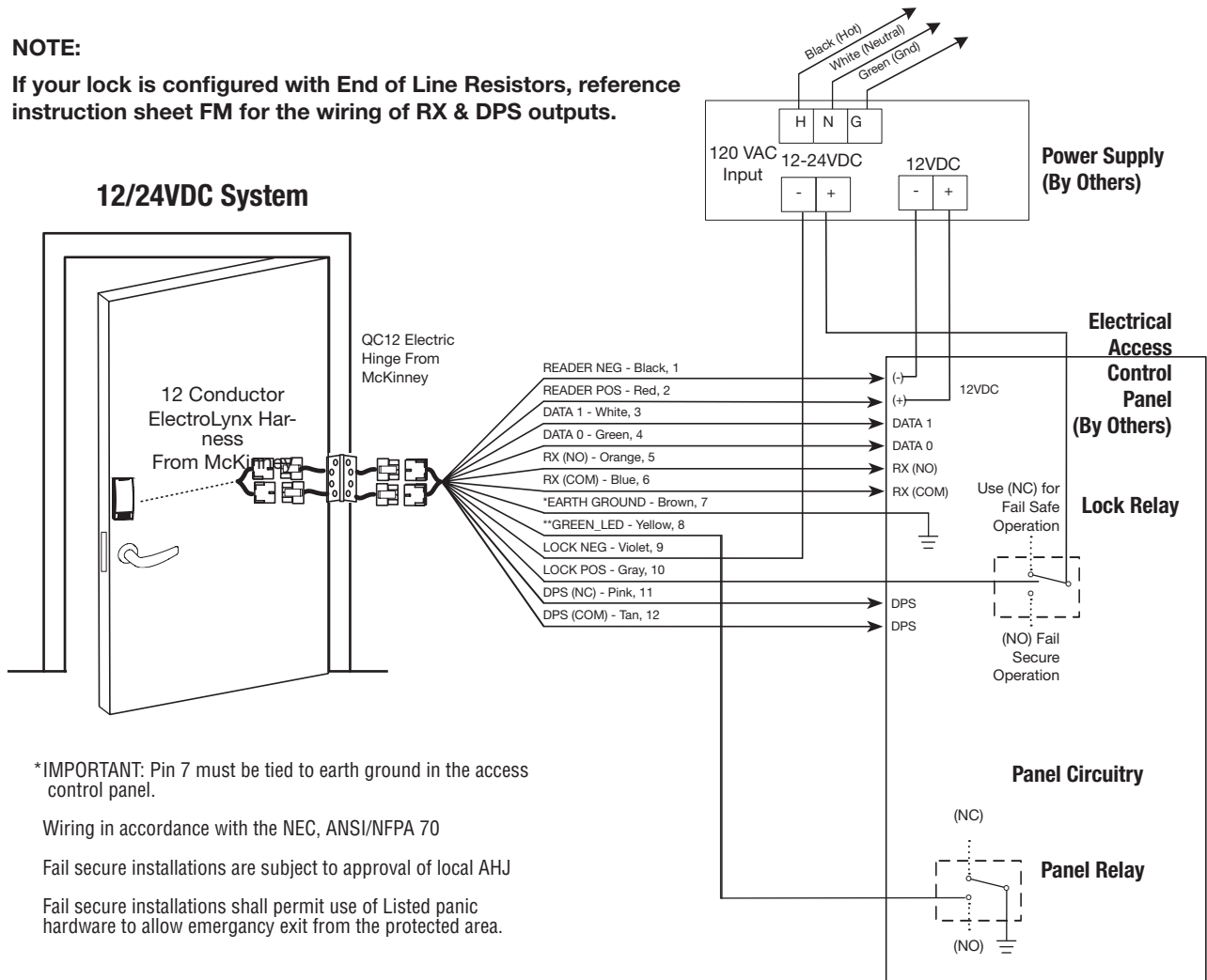
Black (Hot)
White (Neutral)
Green (Gnd)

H   N   G

120 VAC Input   12-24VDC   12VDC
- +   - +

Power Supply (By Others)

12/24VDC System

12 Conductor ElectroLynx Harness From McKinney

QC12 Electric Hinge From McKinney

READER NEG - Black, 1
READER POS - Red, 2
DATA 1 - White, 3
DATA 0 - Green, 4
RX (NO) - Orange, 5
RX (COM) - Blue, 6
*EARTH GROUND - Brown, 7
**GREEN_LED - Yellow, 8
LOCK NEG - Violet, 9
LOCK POS - Gray, 10
DPS (NC) - Pink, 11
DPS (COM) - Tan, 12

(-)   12VDC
(+)
DATA 1
DATA 0
RX (NO)
RX (COM)

DPS
DPS

Electrical Access Control Panel (By Others)

Use (NC) for Fail Safe Operation

Lock Relay

(NO) Fail Secure Operation

Panel Circuitry

(NC)

Panel Relay

(NO)

*IMPORTANT: Pin 7 must be tied to earth ground in the access control panel.

Wiring in accordance with the NEC, ANSI/NFPA 70

Fail secure installations are subject to approval of local AHJ

Fail secure installations shall permit use of Listed panic hardware to allow emergency exit from the protected area.

Failure to follow proper ESD safe grounding procedures could lead to equipment failure.

**UL294, S319, & BHMA A156.25 currently not applicable to Alternate Indicator option

7) 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"

Fig. 1

Right Hand
Hinges Right.
Open Inward.
"RH"

Right Hand
Reverse Bevel
Hinges Right.
Open Outward
"RHRB"
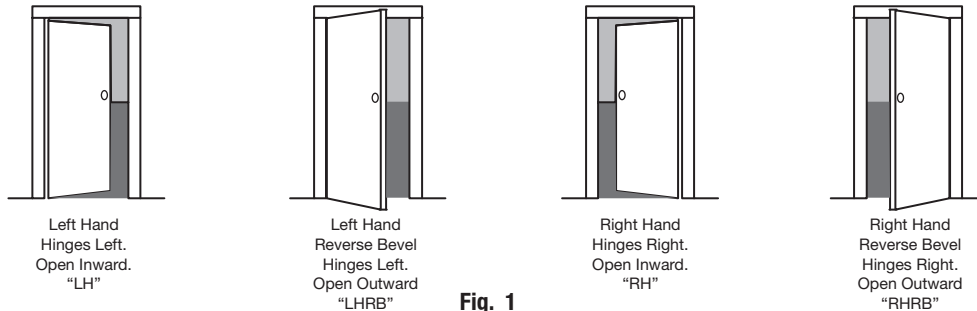
2. Prep door according to supplied door markers (FM380 & FM388). For door manufacture templates visit www.corbinrusswin.com and reference template # T31213.

Outside Face of Door

Inside Face of Door

Fig. 2

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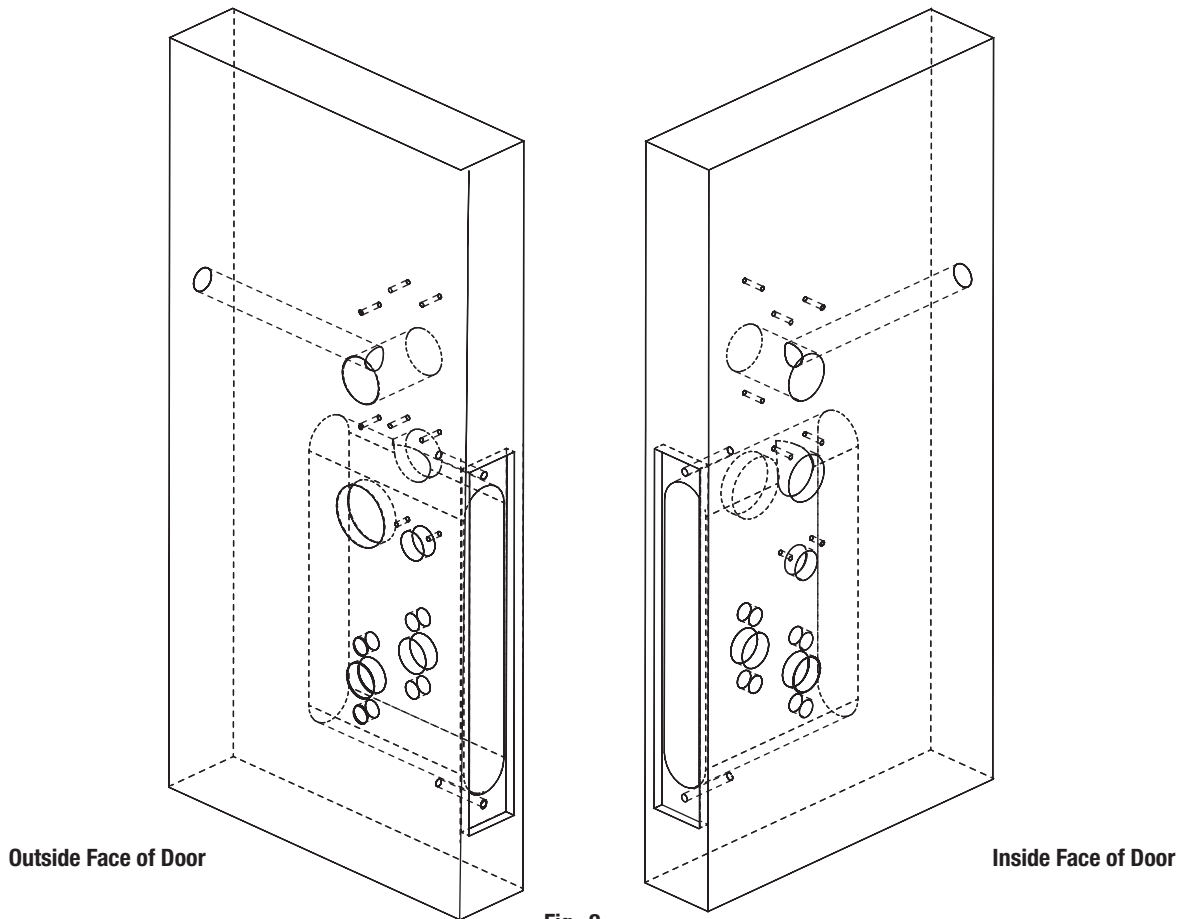
7) Installation Instructions (Continued)

3. Handing of Lock Body

Step 1) Move the red locking screw to side of lock body being locked (Fig. 3a)

Step 2) Push in latch then depress catch plate with screw driver (Fig. 3a)

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

Catch Plate

RED Locking Screw
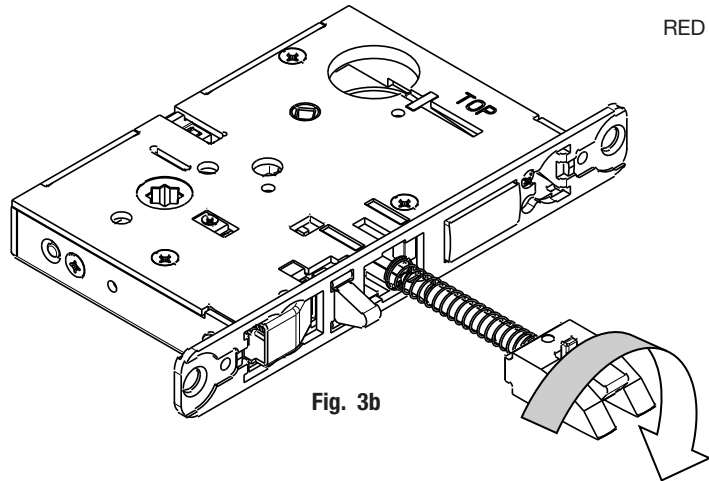
Fig. 3a

Fig. 3b

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

Note: Push in latch until catch plate is no longer depressed (Fig. 3d)

Step 5) Rotate lock front to match bevel of door as shown (Fig. 3e)

MAKE SURE CATCH PLATE IS EVEN W/TOP SURFACE

GOOD   **BAD**
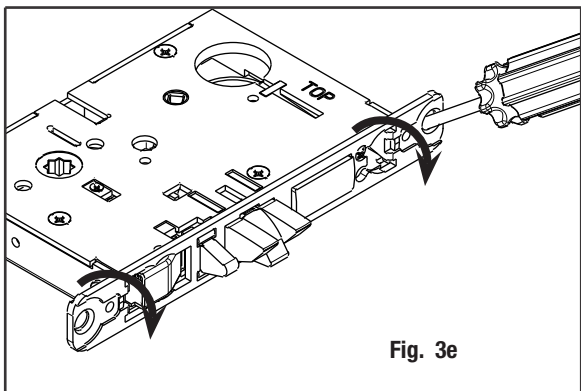
Fig. 3d

Fig. 3c

Fig. 3e
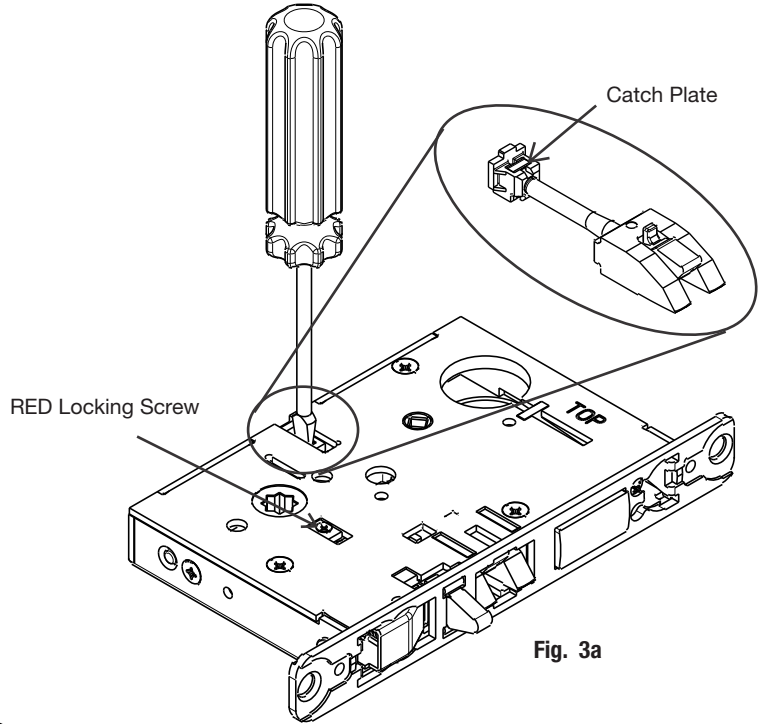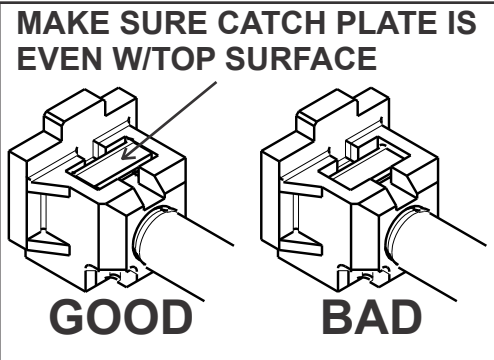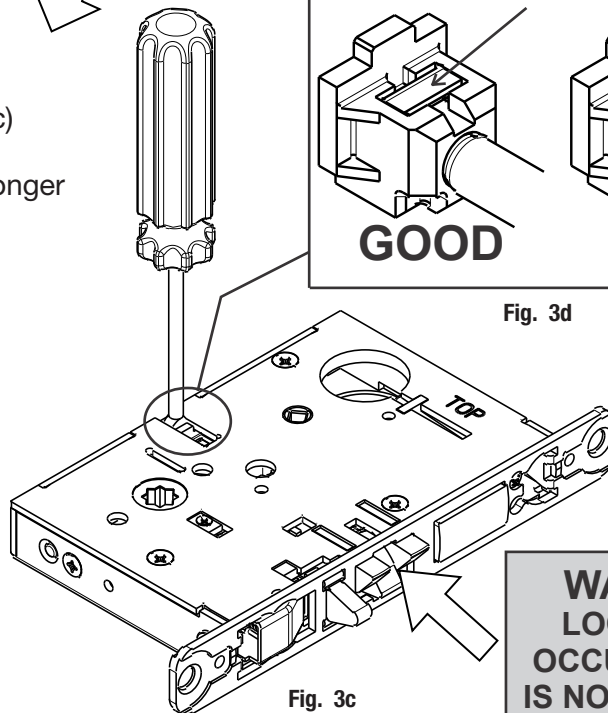
WARNING:
LOCK-IN CAN OCCUR IF LATCH IS NOT PROPERLY INSTALLED

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12

7) Installation Instructions (Continued)

4. Configuring the Fail Safe/Fail Secure and RX* DIP switch settings:

Please note that the lock must be electrically cycled once in order for setting changes to take effect.

FAIL SECURE

FAIL SAFE

Move the
Dip Switch
to the
position
desired

Fig. 4a

Fig. 4a

⚠️
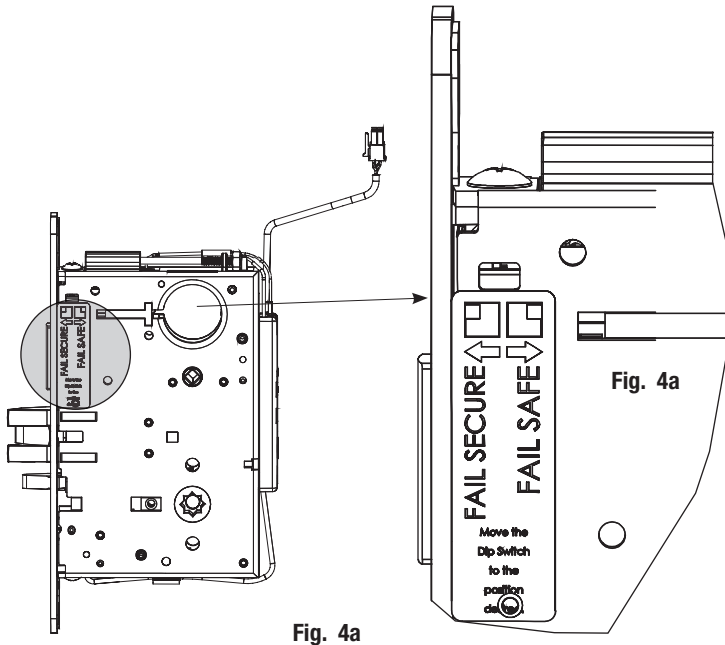
Check polarity:
Verify + (red) wire

*RX output only configurable for locks with end-of-line resistance monitoring. Default is normally open (NO).

NC   NO

RX

Fig. 4b

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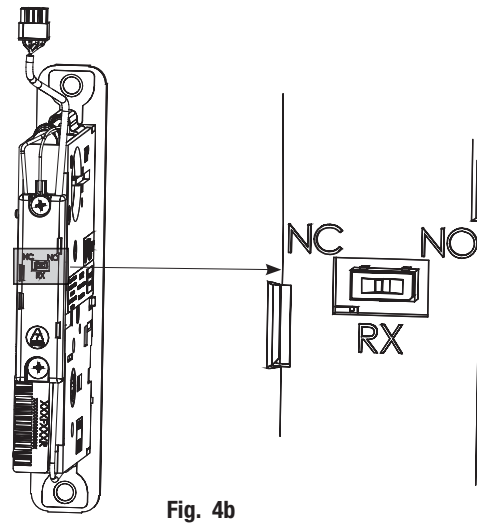
7) Installation Instructions (Continued)

5. Install Lock Body in Door:

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

a. Feed wires through 1-5/16" diameter hole on INSIDE of door while installing lock body (Fig. 5a).

b. Pull wires through hole while inserting lockbody. DO NOT push wires back into cylinder hole (Fig. 5b).

c. Install, but do not tighten two #12 x 1" combination screws through lock body (Fig. 5a).

Outside Face of Door

Fig. 5a

(2) #12 x 1"
Do not tighten

Inside Face of Door

Fig. 5b
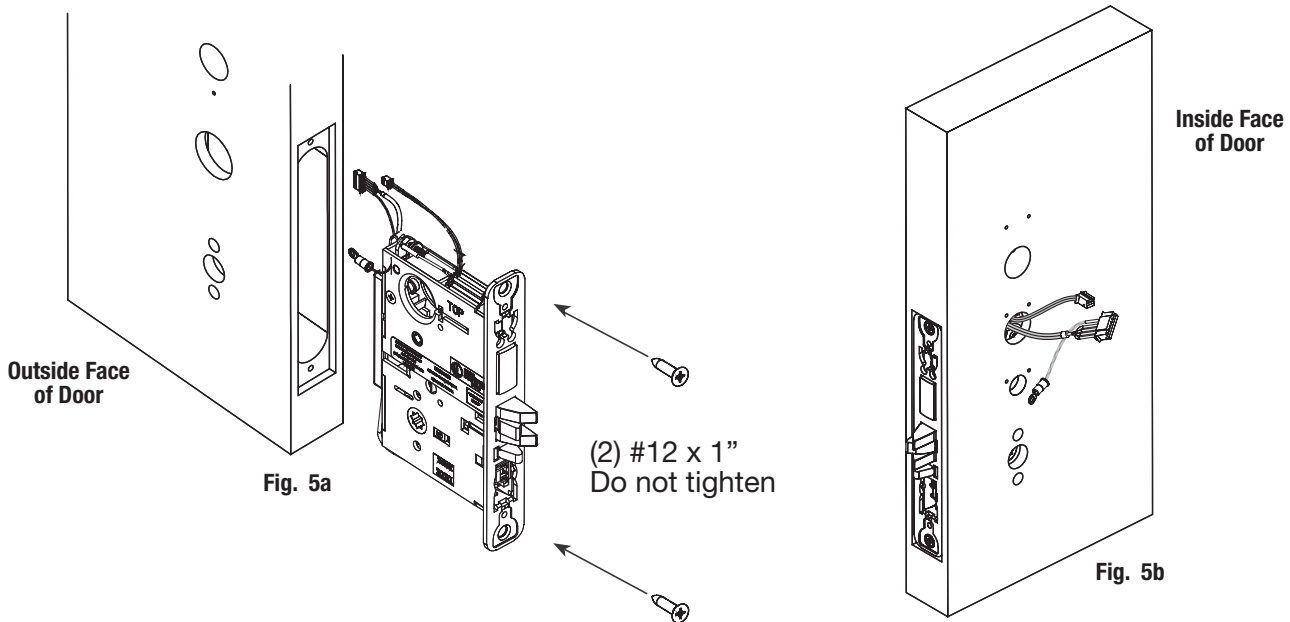
6. Install Inside Mounting Plate

a. Feed lockbody wires through mounting plate (Fig. 6a).

b. Place ground wire eyelet between lower left mounting plate hole and flat head machine screw when securing mounting plate to door (Fig. 6a).

c. Insert (2) #8 x 3/8" flat head screws into pre-drilled 1/8" diameter holes (Fig. 6a).

Inside Face of Door

Reader Backplate

(2) 8-32 x 3/8" Phillips Flat Head Self- Drilling Screw

The shorter 3/8" screw must be used for Step 6c.

Detail

Fig. 6a

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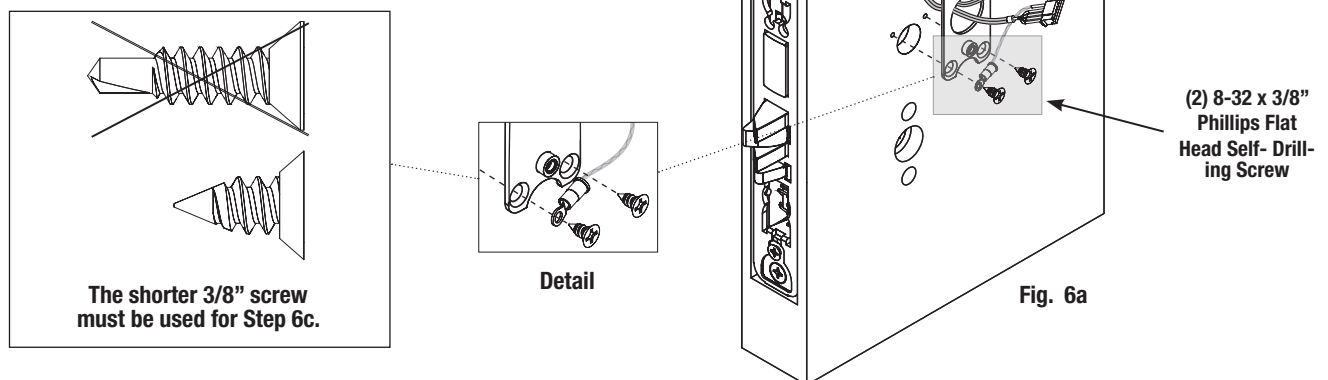
7) Installation Instructions (Continued)

7. Install Reader Backplate and (Optional*) Fire Shield or Gasket

    a. For fire-rated doors only, install reader backplate and fire shield to door using two (2) #8-18 x 5/8" Phillips flat head self-drilling screws (Fig. 7a).

    b. For exterior doors, install reader backplate and gasket (Fig. 7b using two (2) #8-18 x 5/8" Phillips flat head self-drilling screws.

    c. For non-fire rated interior doors, no fire shield or gasket is required; simply install backplate using two (2) #8-18 x 5/8" Phillips flat head self-drilling screws.

Fire Plate

Reader Backplate

(2) #8 x 5/8" Phillips flat head self-drilling screws

Gasket (for exterior doors)

Fig. 7b

Fig. 7a

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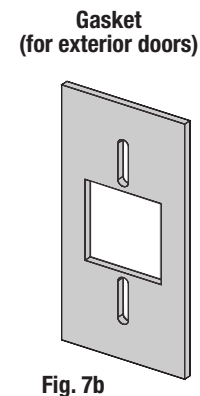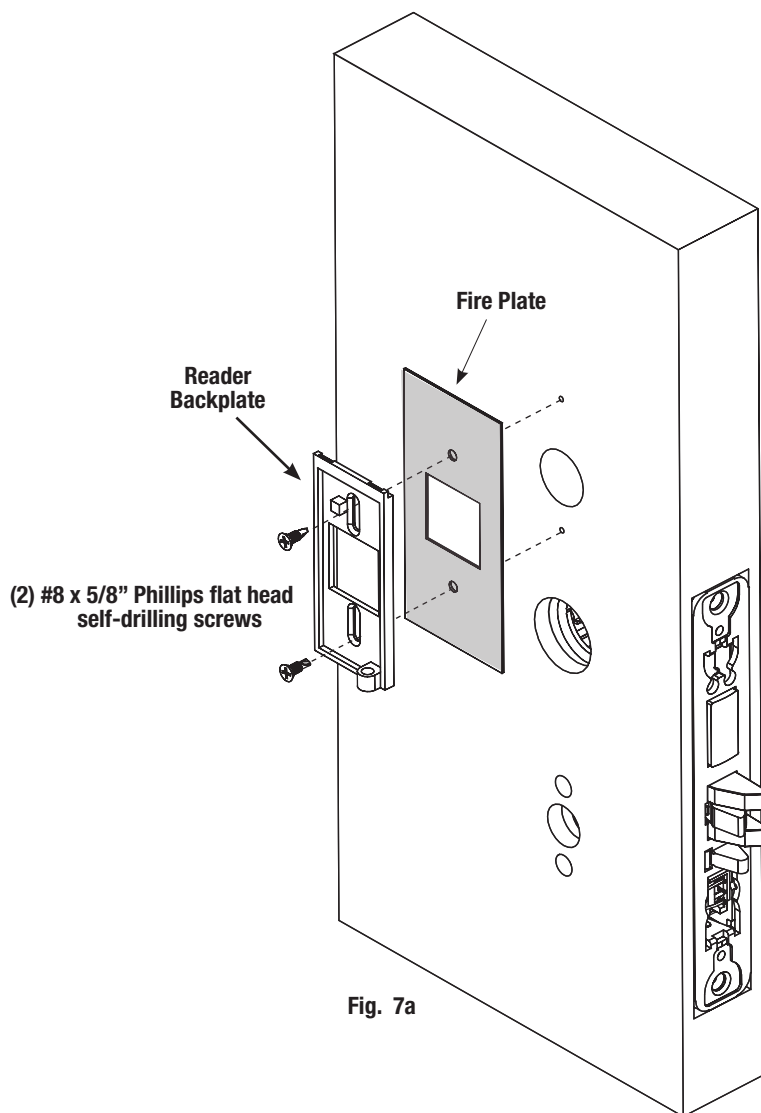
7) Installation Instructions (Continued)

8. Install Reader and Trim Bezel:

⚠ Observe precautions for handling electrostatic sensitive devices.

Ensure reader is powered down when inserting/removing the harness; do not "hot-plug" (i.e., remove/insert) harness while reader is powered as it may damage reader.

a. Fit trim bezel around the reader. Ensure access hole in the bezel aligns with screw hole on reader. The reader should be mounted so holes face bottom of door (Fig 8b).

b. Align top of reader with top of backplate. Pivot the reader down until seated. Guide wires as needed to avoid pinching.

c. Secure the reader with (1) #6-32 x 3/8" Phillips or anti-tamper security torx screw to the mounting plate (Fig 8c).

Fig. 8a

Reader Harness

Fig. 8b

Fig. 8c

Detail

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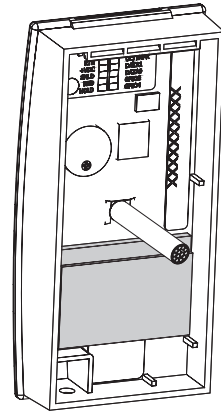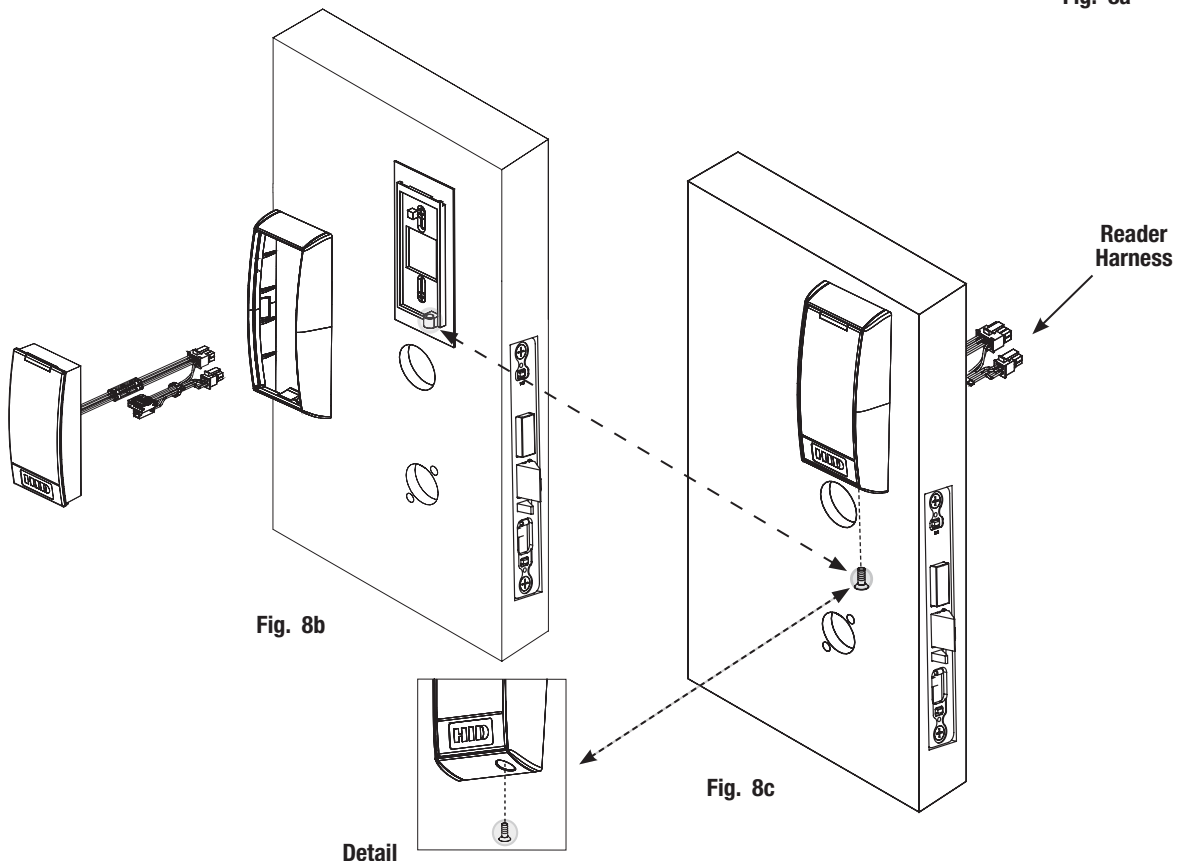
7) Installation Instructions (Continued)

9. Connector Attachments:

a. Connect 6-pin connector from lock body to 6-pin connector on reader harness (Fig. 9a, b).

b. Connect 2-pin connector from lock body to 2-pin connector on reader harness (Fig. 9a, b).
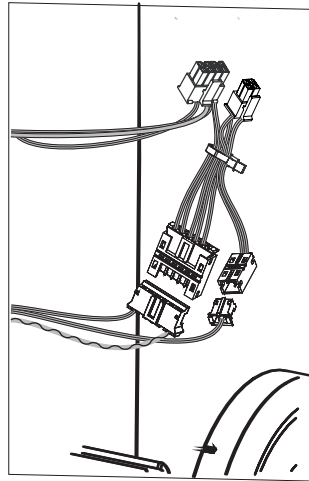
Fig. 9b

Fig. 9a
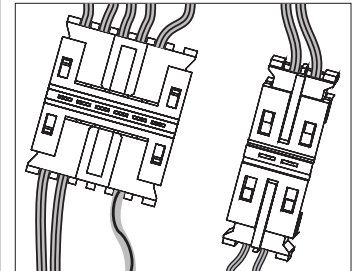
c. Connect ElectroLynx 4- and 8-pin connectors from the door harness to (black) 4- and 8-pin connectors of the SE LP10 harness (Fig. 9c).

Carefully tuck connected harnesses into one-inch hole in door.

NOTE: Neatly fold the wires into the remaining space to prevent pinching wires when mounting inside escutcheon (Fig. 9d).

Do not offset connectors and ensure that they are completely seated.

8-pin ElectroLynx

SE LP10 Harness

Fig. 9c

4-pin ElectroLynx

Fig. 9d

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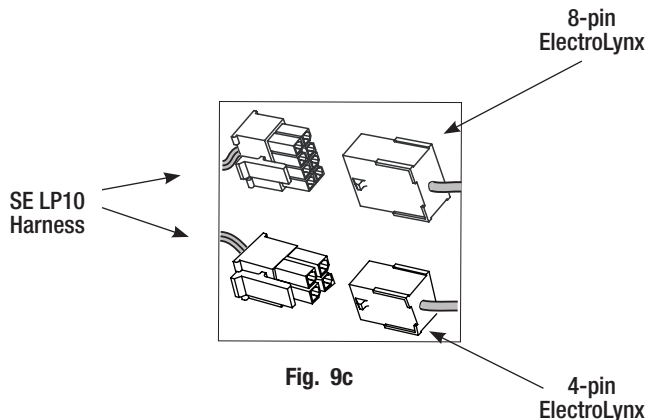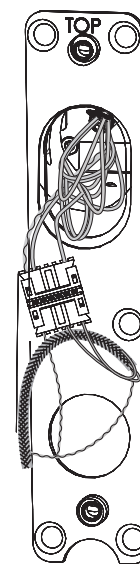
7) Installation Instructions (Continued)

10. Install Mounting Plate and Fire Plate:

a. NOTE: Fire plate must be installed for fire-rated doors. The fire plate is not required for non-fire rated doors.

b. Complete securing mounting plate (and fire plate if necessary) to the door using the (2) remaining Phillips flat head machine screws provided (Fig 10). Ensure wires from reader are properly routed under flap of fire plate. Fully tighten all six (6) mounting plate screws.

Inside Face of Door

(2) Phillips pan head machine screws

Fire Plate

(2) Phillips flat head machine screws

Fig. 10

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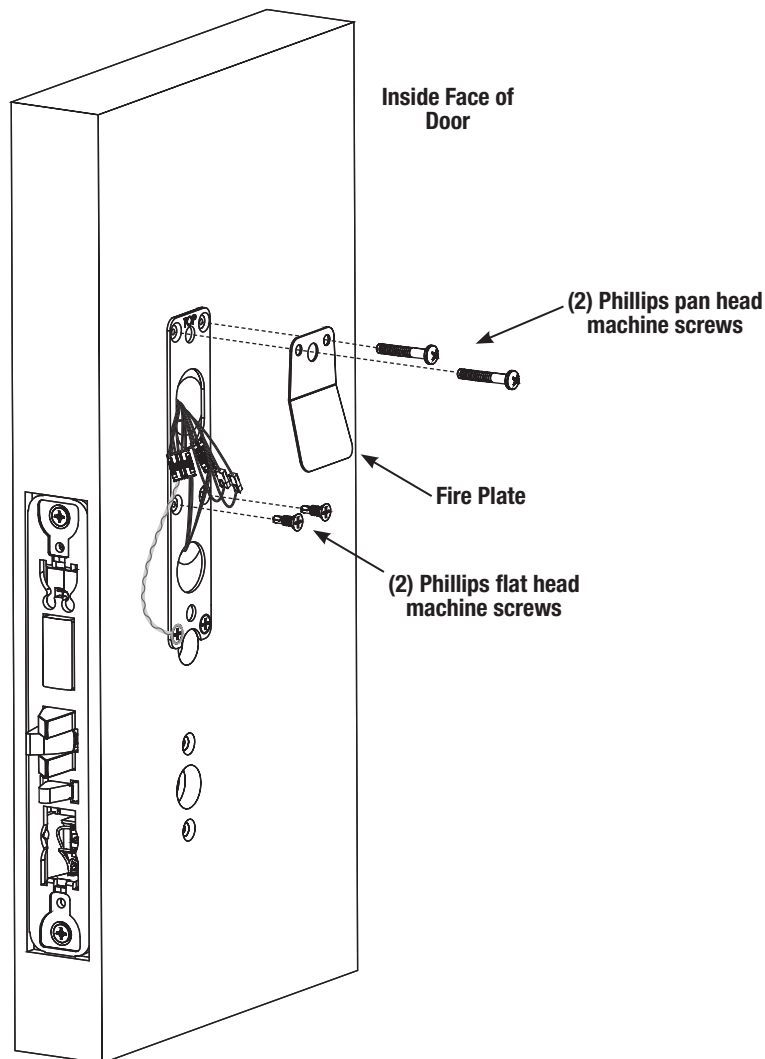
7) Installation Instructions (Continued)

11. Install Cylinder:

a. Thread cylinder into lock body (Fig. 11a).

b. Insert key 75% of the way and utilize the key to rotate the cylinder into the rest of the cylinder hole. Note: Make sure cylinder is oriented correctly (Fig. 11a1).

c. Tighten cylinder clamp using 7/64" allen wrench (provided) (Fig. 11b).

d. Turn the key to make sure that lock functions correctly (latch, deadbolt and key).

Outside Face of Door

Fig. 11a

Position cylinder so that logo is right-side up.

Correct   Incorrect

Fig. 11a1

Fig. 11b

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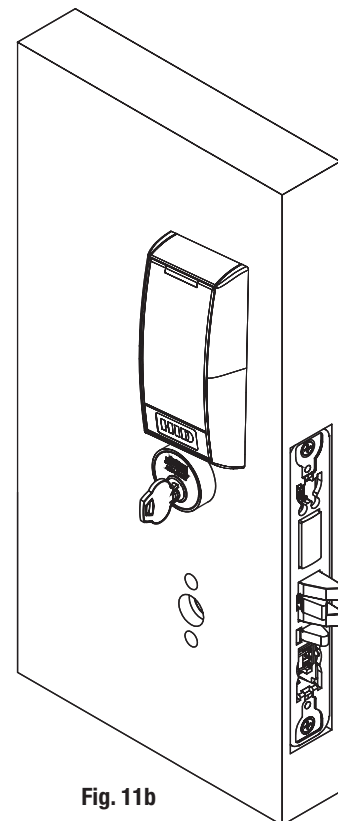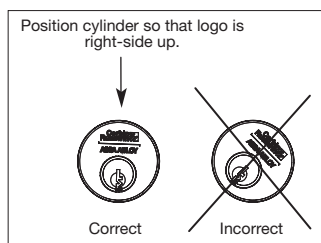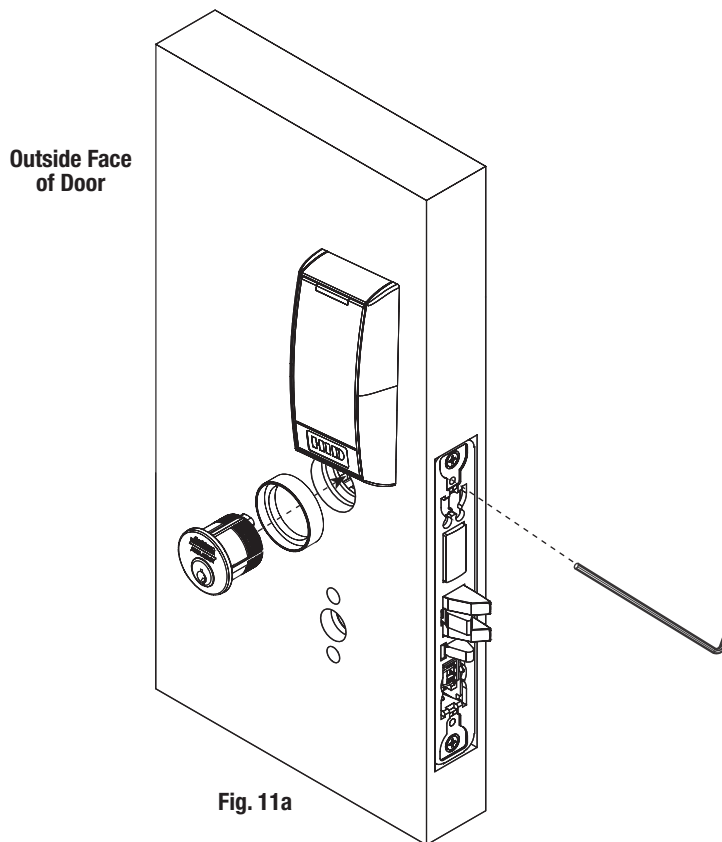
7) Installation Instructions (Continued)

12. Install Inside Escutcheon:

    a. Feed excess ElectroLynx® and reader wires into door prep. Tuck excess body wire harness under escutcheon.

    b. Tighten the inside escutcheon securely to the mounting plate using the 8-32 x 5/8" screw for the top of the escutcheon and the 8-32 x 1/4" screw for the bottom of the escutcheon located under the turn lever (Fig, 12). **Be careful not to pinch wires under escutcheon when tightening screws.**

    c. Be sure the turn assembly is functional and, if equipped with a deadbolt, that the deadbolt functions properly.

Inside Face of Door

Fig. 12

SE LP10 ML20600 Mortise Lock
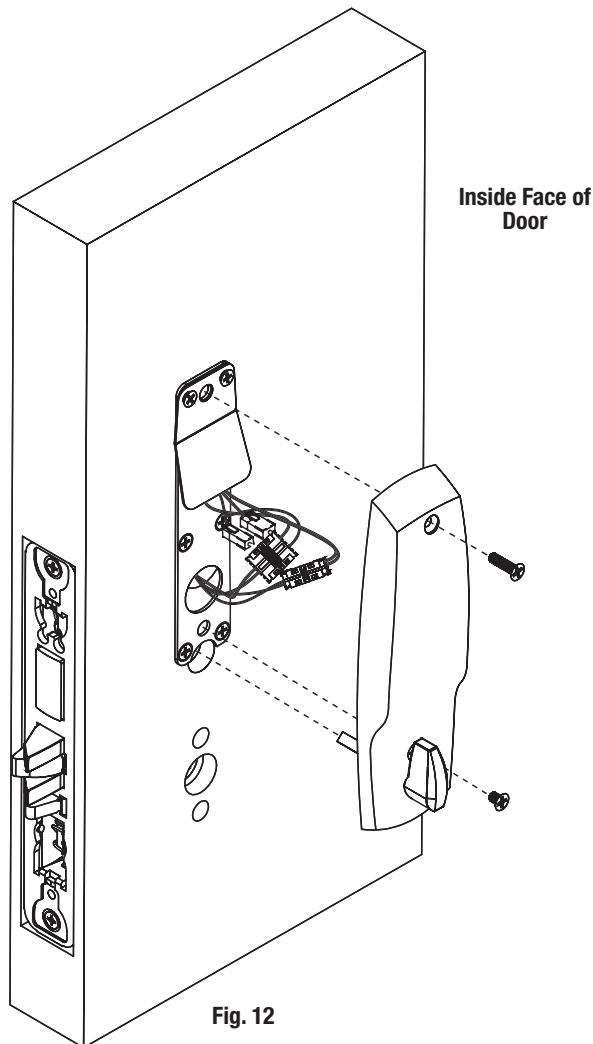
13a. Install Standard Lever Trim:

(Refer to section **13b.** of following pages for Museo® Trim):

Step 1a

Inside Face of Door

Fig. 12a

Step 1b

Outside Face of Door

Outside Adapter Plate

Fig. 12b

Step 2

Inside Face of Door

Fig. 12c

Step 3

Outside Face of Door

Fig. 12d

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7) Installation Instructions (Continued)

Step 4

Inside Face of Door

Fig. 4a

Use Correct Spindle Orientation

Good   Bad

Lever   Fig. 4b
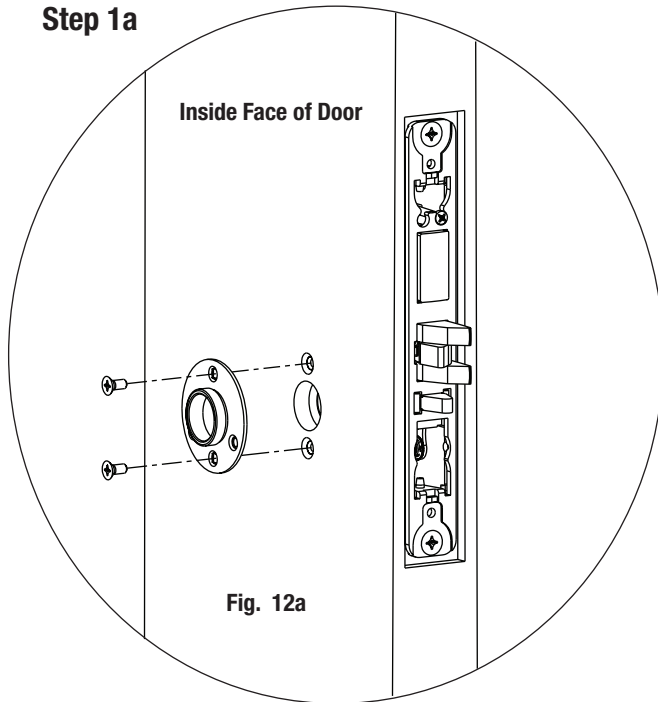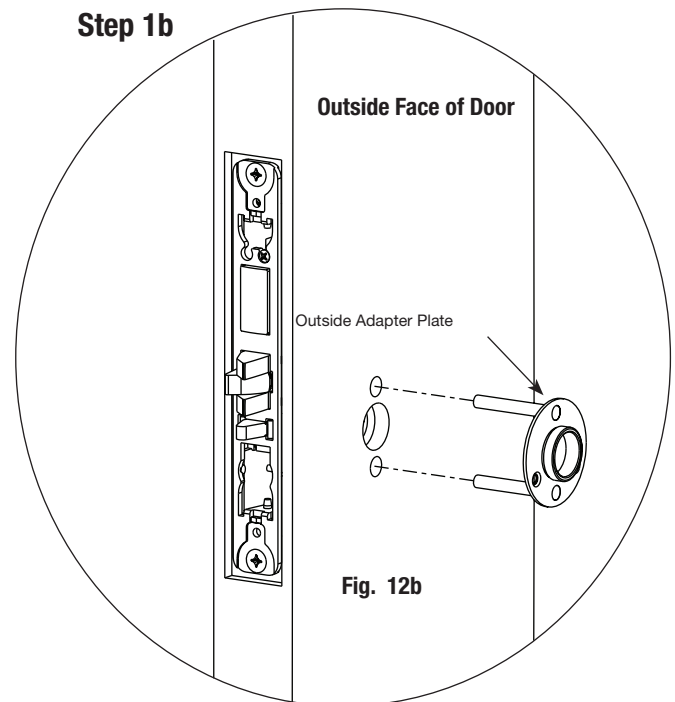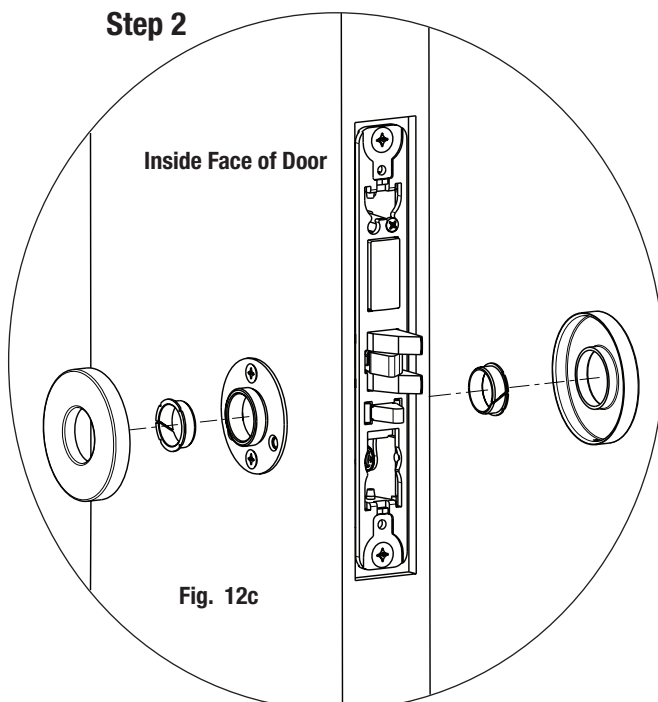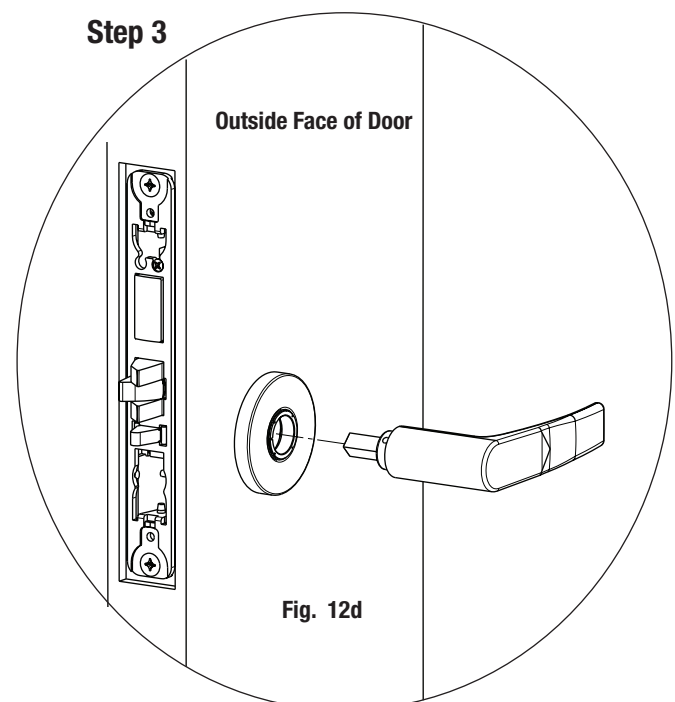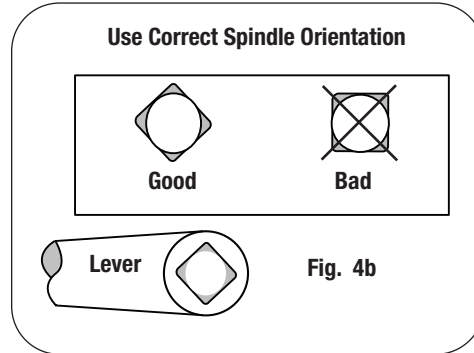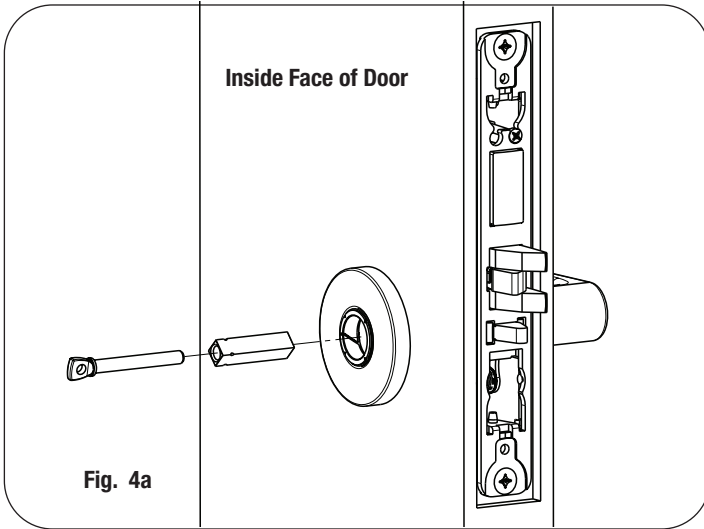
Step 5   Align adjustment bolt with threaded hole in lever
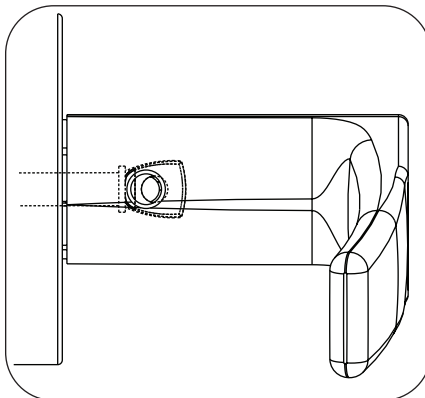
Adjustment bolt needs
to be threaded in farther.
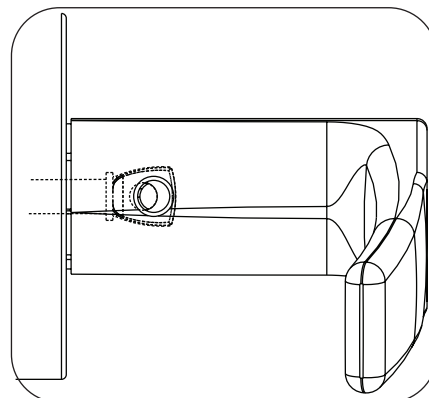
Adjustment bolt needs
to be unthreaded.
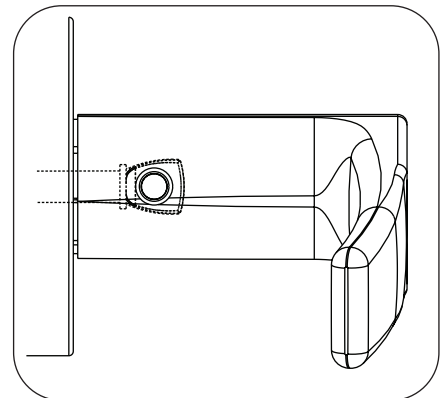
Adjustment bolt fully aligned.

Step 6   Install I/S lever with set screw:

Notes:
- 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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SE LP10 ML20600 Mortise Lock
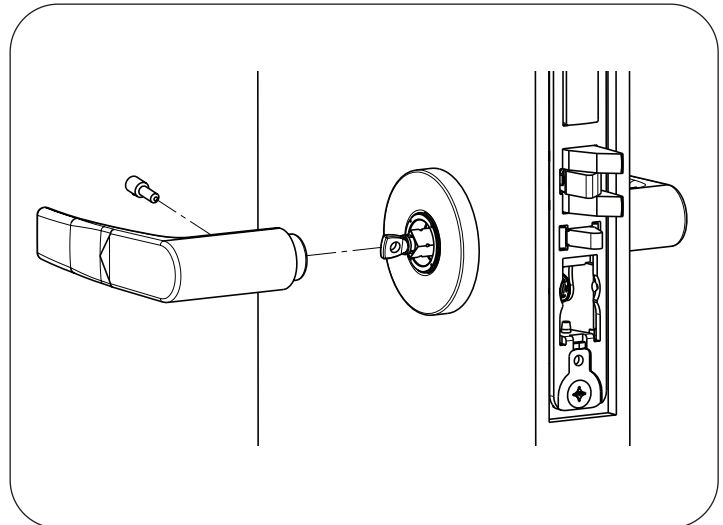
13b. Install Museo® Trim:

Step 1

Thread hub into lever using spindle until snug

Unthread hub 1/8 turn then push spindle into lever

Step 2

Inside Face of Door

Outside Face of Door

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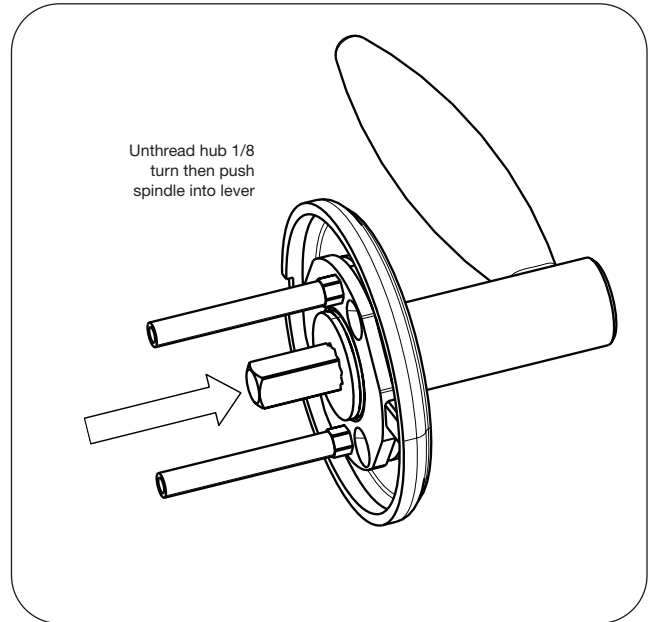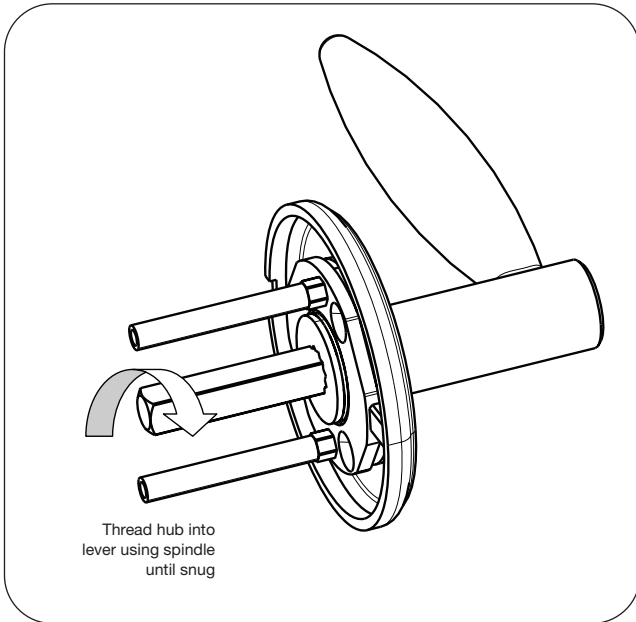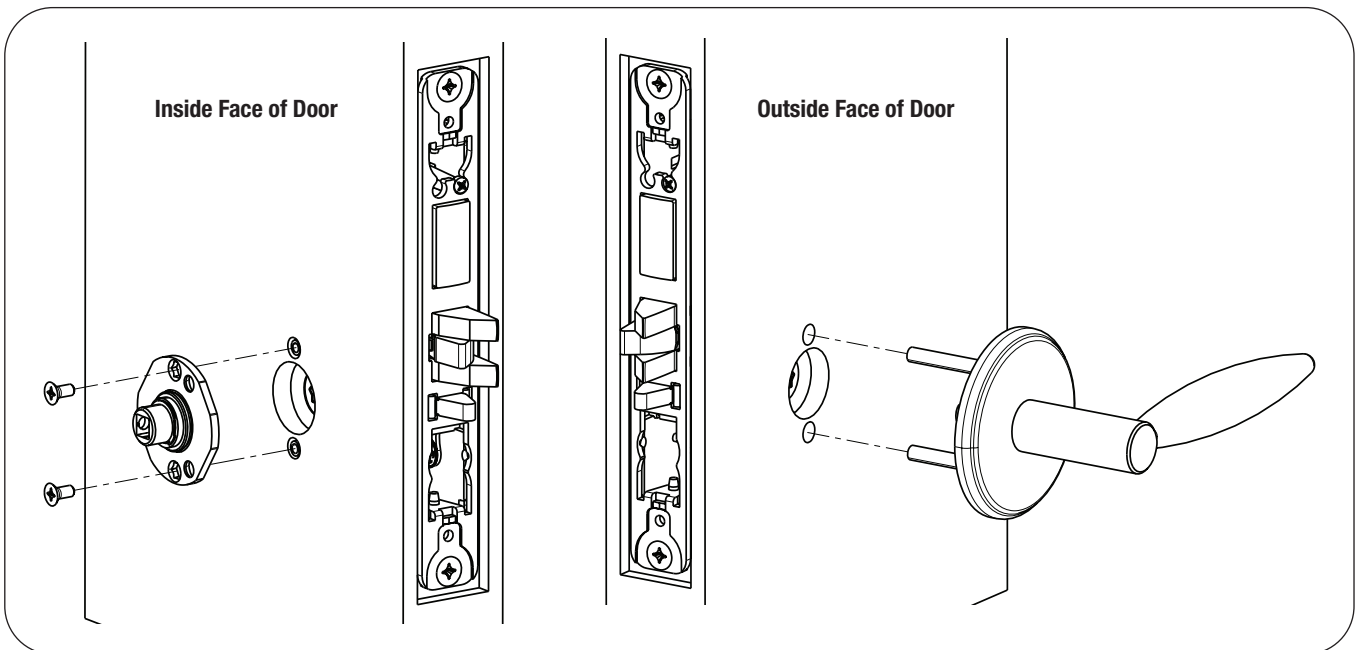
7) Installation Instructions (Continued)

Step 3 Thread adapter plate hub into lever and fully tighten

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

Adapter Plate Hub

Step 4 Align adapter plate hub with square hole in lever; keeping hub as tight as possible
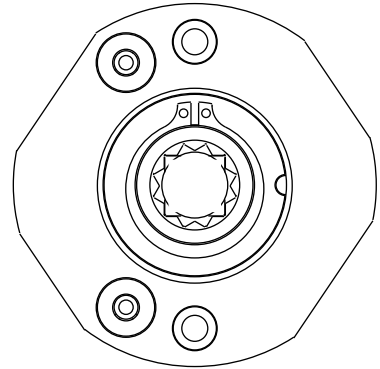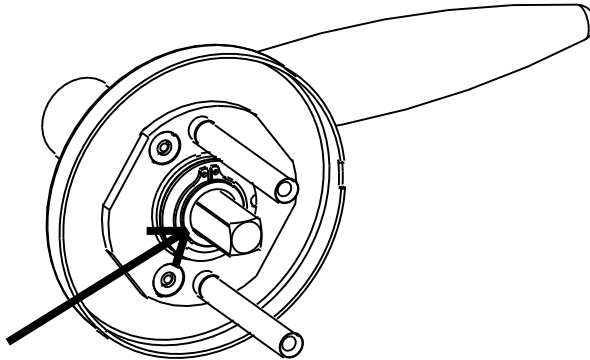
Step 5 Install O/S trim assembly

Outside Face of Door

Step 6 Install I/S adapter plate
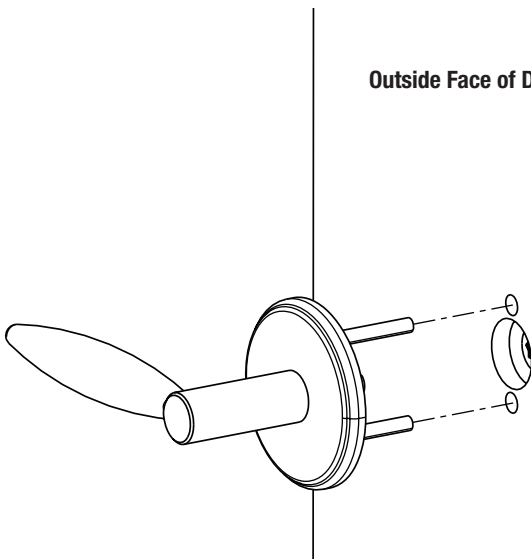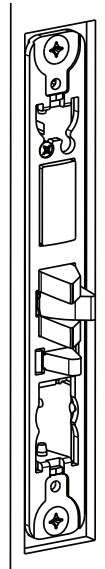
Inside Face of Door
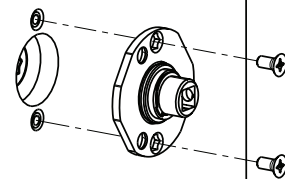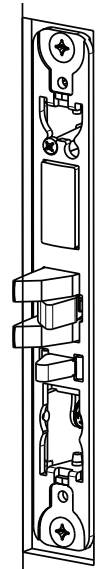
Set screw hole in hub faces away from lock edge

Fig. 13

Use Correct Spindle Orientation

BAD   GOOD

Lever

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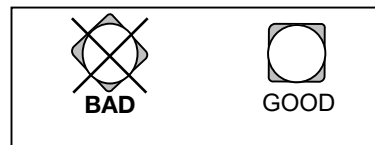
7) Installation Instructions (Continued)

Step 7 Install I/S spindle and rose

Align studs on rose with
bushings in adapter plate
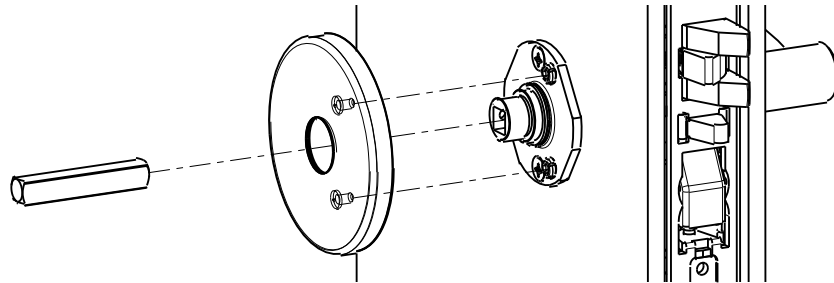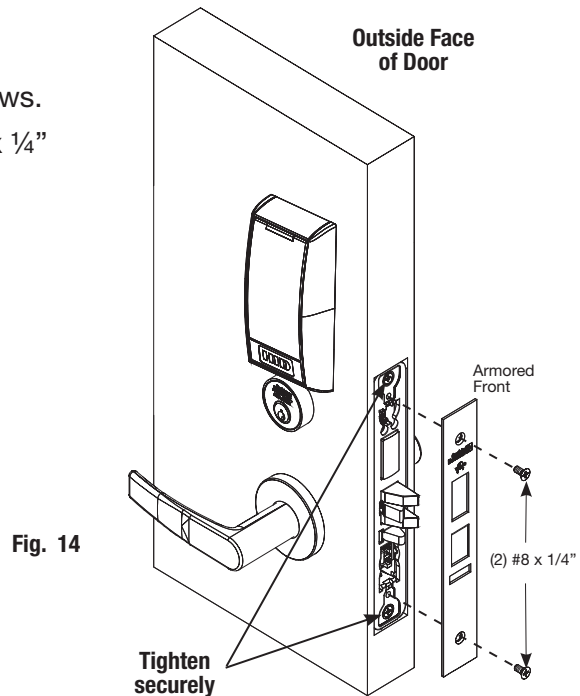
Step 8 Install I/S lever with set screw
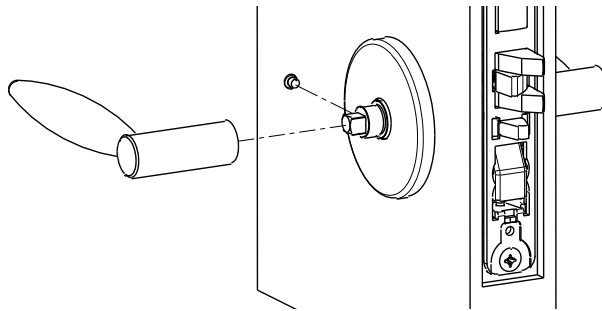
14. Install Armored Front Plate:

      a. Securely tighten (2) lock body screws.

      b. Attach armored front with two #8 x ¼"
         screws (Fig. 14).

**Outside Face
of Door**

Armored
Front

(2) #8 x 1/4"

Fig. 14

**Tighten
securely**

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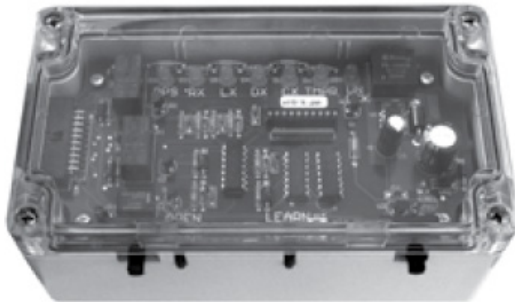## 8) Operational Check

For mortise locks with cylinders:

a. Insert key into cylinder and rotate: There should be no friction against lock case, wire harness or any other obstructions.

b. The key will retract the latch: Key should rotate freely.

c. When the deadbolt is thrown: Ensure that the key retracts both the deadbolt and the latch.

d. Inside lever: When used, ensure it retracts both the latch and deadbolt (if provided).

e. Close door: Ensure latch and deadbolt fully extend and do not bind.
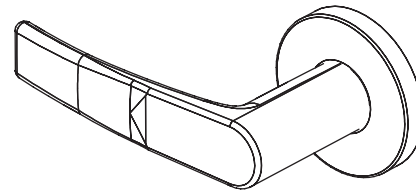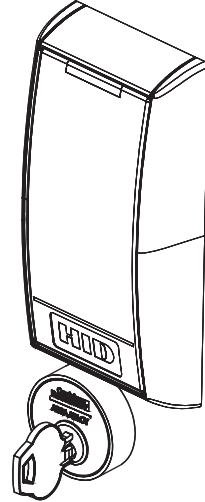
Wiegand Test Unit

The ASSA ABLOY Wiegand Test Unit verifies your installation in the field*. The test unit checks for proper wiring, card reader data integrity, lock functionality including lock/unlock, door position status, and request-to-exit (REX) status.

In addition, this tool provides product demonstration abilities to highlight the product's features and capabilities.

Feature	WT1	WT2
12 or 24VDC solenoid lock voltage adjustable	x	x
Operates as Fail Safe or Fail Secure	x	x
"Learn" mode allows testing of specific cards without programming at panel level	x	x
Card reader data integrity is validated at test unit	x	x
Displays detailed Wiegand data, including hexadecimal string and total bits received		x
Displays measured end-of-line resistor values (if applicable)		x

*For directions on use, see operating instructions provided with unit.

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SE LP10 ML20600 Mortise Lock

Electrical Operation Check

Note: Once electrical wiring has been successfully completed according to proper application, perform the following:

a. Turn power ON.

b. Verify LED located on reader is ON (Red or Green) depending on reader configuration

c. Present valid credential and verify LED and sounder activity.

d. Verify valid card read at EAC Panel.

e. Verify system operation functions; i.e., when valid credential is presented to reader the door unlocks.
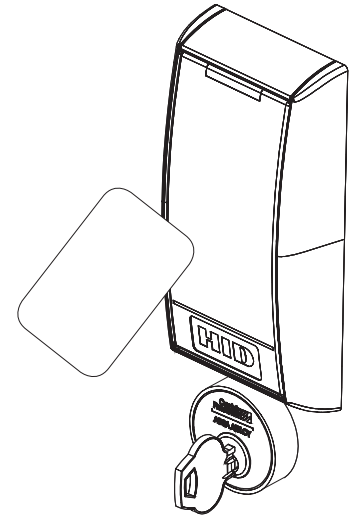
NOTE: Ensure LED operates as <u>configured</u>*:

- LED remains green when panel asserts GREEN_LED signal

*For configurations with GREEN LED override enabled; see Application Diagram #2 in Section 6.

If the lock fails to operate when DC voltage is applied:

A. Remove power.

B. Confirm the polarity of the supply (i.e., '**+**' is positive).

If the lock is functioning opposite to the desired fail-safe or fail-secure operation:

A. Remove power and check the "Fail" condition by attempting to rotate the outside lever (e.g. if fail-secure, the outside lever should be rigid with power removed).

B. If the function is incorrect, remove the lock and repeat **section 6, step 3** (DIP Switch configuration).

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