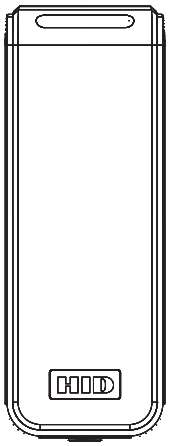
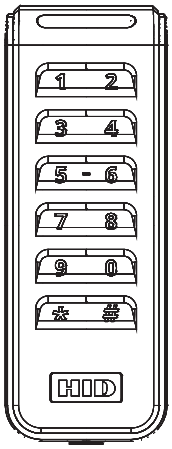
Installation Instructions



SN



Series
SN200 Wiegand
SN210 OSDP
ML2000 Series
Mortise Locks

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

Experience a safer and more open world

Table of Contents

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.

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

WARNING: 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.

3) Specifications

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

*UL294, S319, & BHMA A156.25 not applicable to SN200 with Non-UL294 Configuration 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

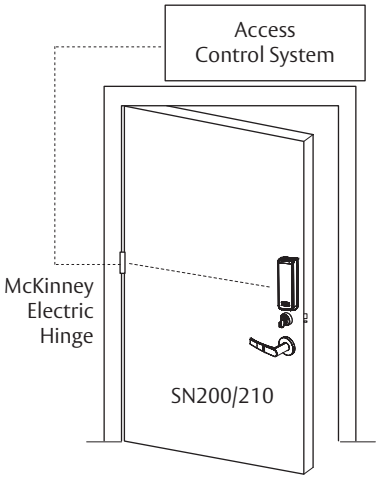
12/24VDC System

	12V		24V	
	Average	Peak	Average	Peak
Reader**	75mA	250mA	n/a	n/a
Actuator	15mA	500mA	15mA	500mA

**Maximum AVG - RMS current draw during continuous card reads Not evaluated by UL.

Peak - highest instantaneous current draw during RF communication

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



OSDP** and Wiegand Wire Specifications

Total One-Way Length of Wire Run (ft)	Wire Gauge Chart 12VDC — Load Current @ 12VDC							
	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	—	—	—	—	—	—	—

Total One-Way Length of Wire Run (ft)	Wire Gauge Chart 24VDC — Load Current @ 24VDC							
	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	—	—	—	—	—	—

†Recommended wire specifications for OSDP: Four (4) conductor twisted pair overall shield such as UL approved, Belden 3107A or equivalent is recommended to remain fully TIA-485 compliant at maximum supported baud rates and cable distances. Belden 82842, Liberty Wire & Cable 24-29_P485-WHT, West Penn Wire D254852, and CAT6 cable have been found to be suitable in typical applications and installations, including lower baud rates and cabling distances.

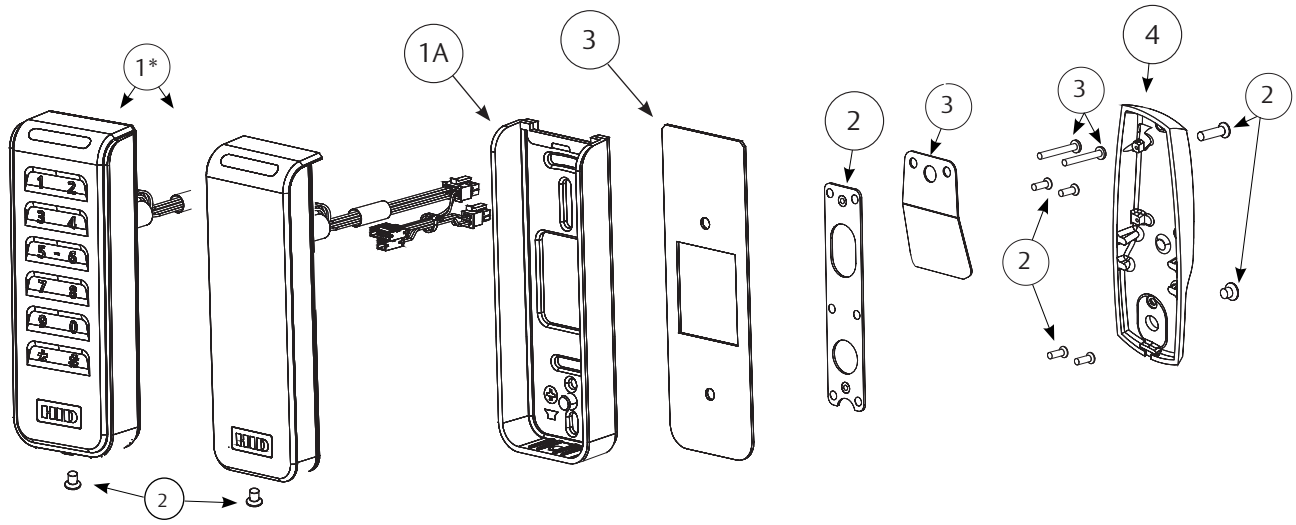
This product is not intended for outside wiring as covered by Article 800 in the National Electrical Code, NFPA 70.

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.

Both reader and actuator current must be taken into account when determining wire length and gauge. OSDP installations may be more limited due to fewer cable options.

For OSDP cable lengths greater than 200 ft (61 m) or EMF interference, install 120Ω +/- 2Ω resistor across RS-485 termination ends.

4) Product Illustrations



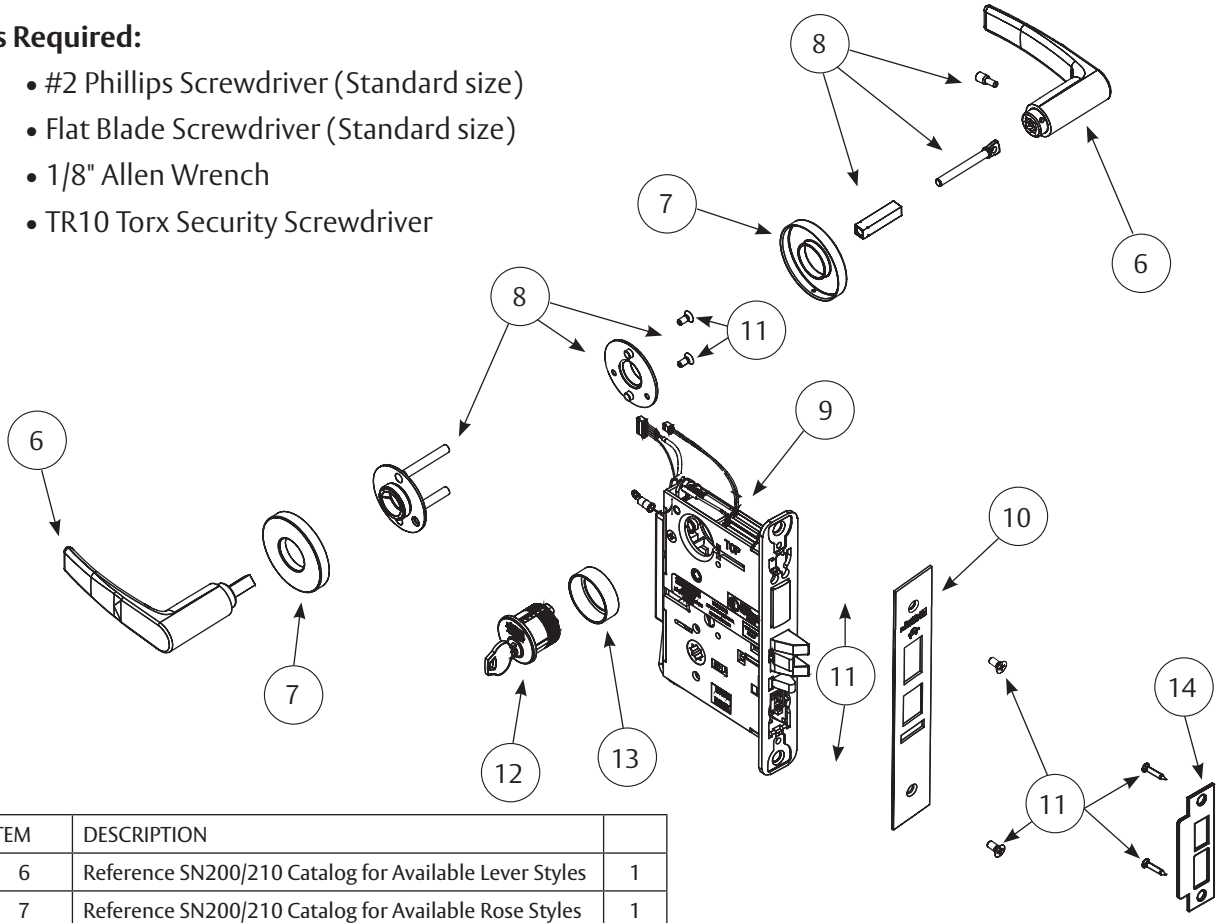
ITEM	Description	Req.
1	Reader & Harness Assembly	1
1A	Signo Reader Back Plate	1
2	Mounting Packet	1
3	Fire Plate Packet	1
4	Inside Escutcheon	1

See document FM643 for part numbers

4) Product Illustrations (Continued)

Tools Required:

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



ITEM	DESCRIPTION	
6	Reference SN200/210 Catalog for Available Lever Styles	1
7	Reference SN200/210 Catalog for Available Rose Styles	1
8	Trim Pack - Standard Levers	1
	DL Trim Pack - Museo® (not shown)	
9*	Lock Body	1
10	Outside Faceplate	1
11	Lock Body and Strike Screw Pack	1
12	Cylinder, A01 Cam	1
13	Cylinder Collar	1
14	Strike	1

*For EOL (End-of-Line Resistor) and PHR locks, please consult factory

See document FM643 for part numbers

5) 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: SN200/210 Lockset, ElectroLynx wire Color / Function assignments												
	12VDC (Reader)		Communication Type		RX	RX	EGND	Function*	12/24 VDC (LOCK RELAY)		DPS	DPS
SN200 (UL294)	NEG	POS	WIEGAND DATA_1	WIEGAND DATA_0	NO	COM	EGND	TAMPER	NEG	POS	NC	COM
SN200								GREEN LED				
SN210			OSDP RS-485B	OSDP RS-485A				n/a				

*Diagrams on following pages

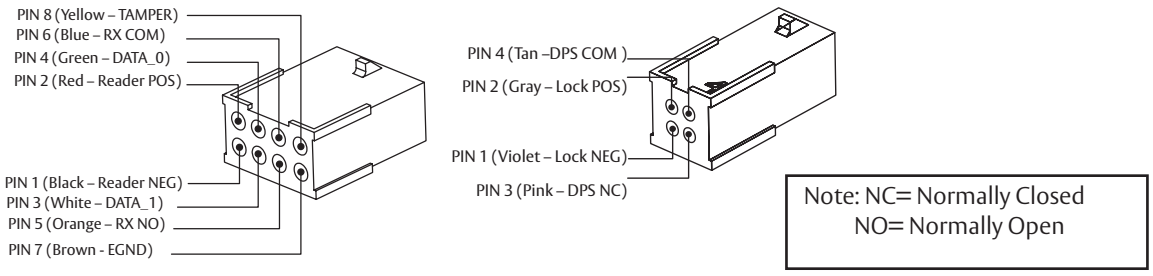
If your lock is configured with End of Line Resistors, reference instruction sheet FM406 for the wiring of RX & DPS outputs.

Wiegand Operation Mode:

- Red LED 'ON' when powered.
- Presenting a compatible credential causes LED to briefly turn green and then return to red state.

UL294 / TAMPER Configuration:

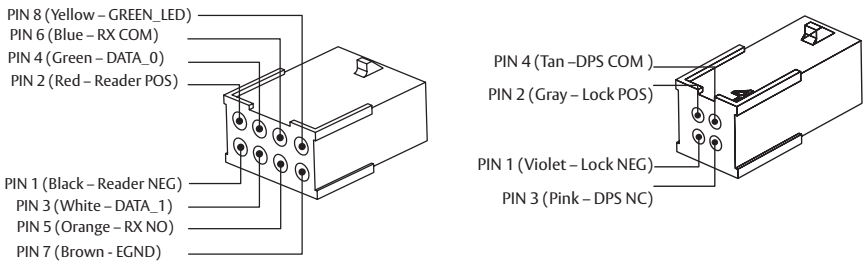
- Connect Yellow TAMPER wire from ElectroLynx cable to desired EAC panel control line. Reference Diagram #1.
- As appropriate, use the configuration card to activate desired mode on reader.



Note: NC= Normally Closed
NO= Normally Open

Non-UL294 Configuration:

- 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.



5) Wiring Diagrams (Continued)

SN200 Wiegand UL294/TAMPER Configuration Application Diagram #1

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

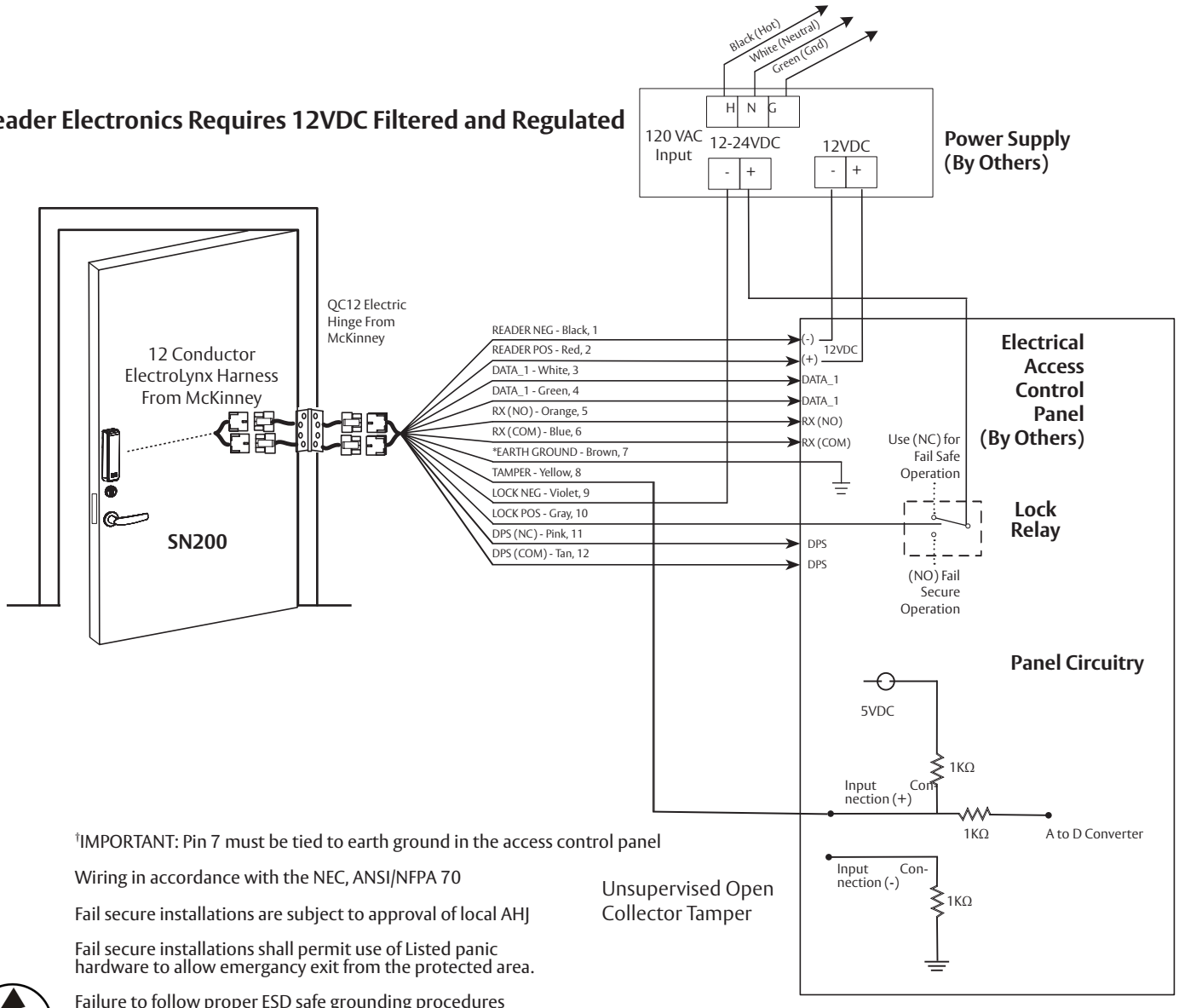
12/24VDC System

	12V		24V	
	Average	Peak	Average	Peak
Reader*	75mA	250mA	n/a	n/a
Actuator	15mA	500mA	15mA	500mA

*Maximum AVG - RMS current draw during continuous card reads
Not evaluated by UL.

Peak - highest instantaneous current draw during RF communication

Reader Electronics Requires 12VDC Filtered and Regulated



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 emergancy 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.

5) Wiring Diagrams (Continued)

SN200 Wiegand Non-UL294 Configuration Application Diagram #2

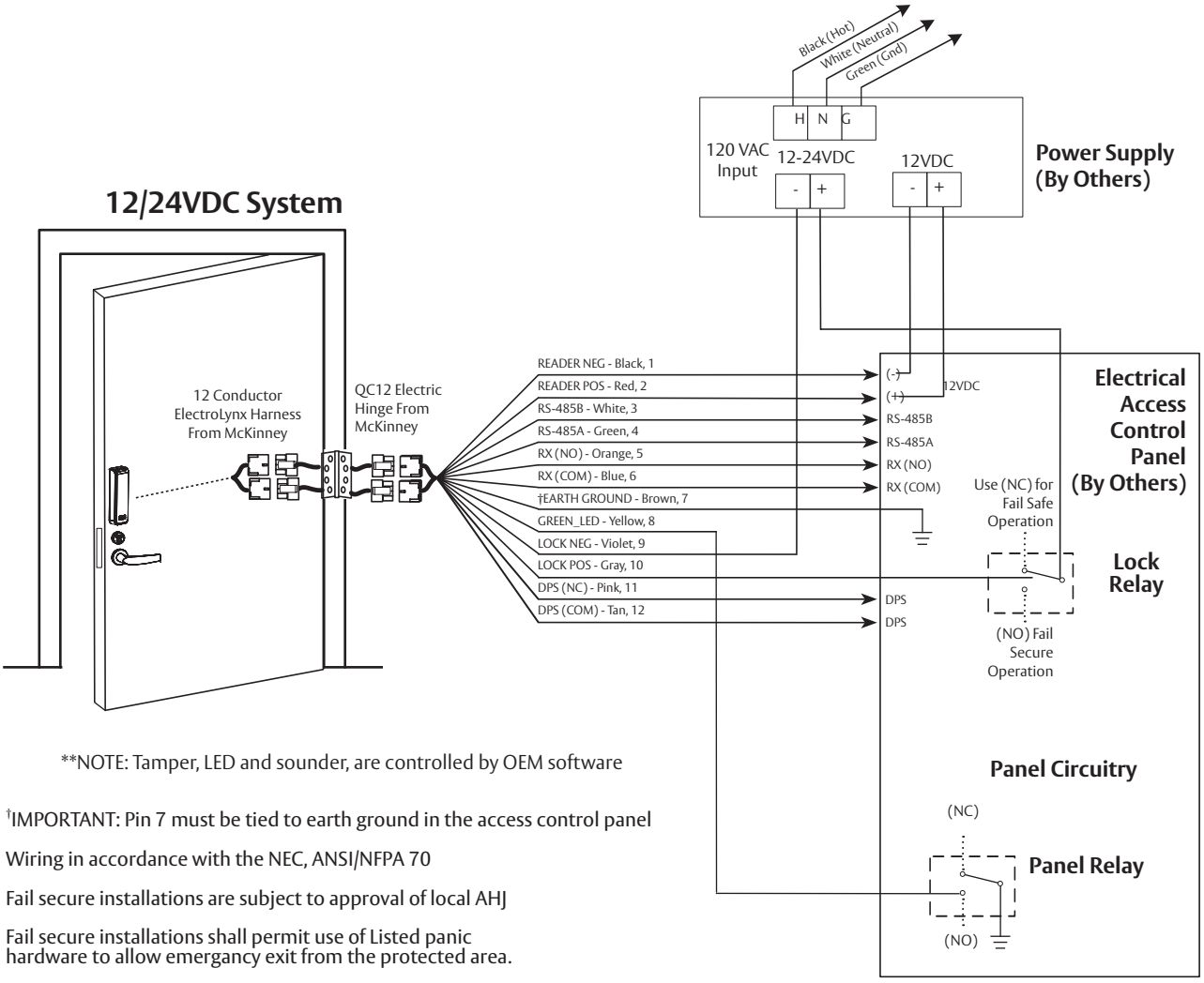
Connect GREEN_LED input to switch controlled by panel. Shorting GREEN_LED to READER_NEG (Black) with panel switch will override reader LED to keep it green

12/24VDC System

	12V		24V	
	Average	Peak	Average	Peak
Reader*	75mA	250mA	n/a	n/a
Actuator	15mA	500mA	15mA	500mA

*Maximum AVG - RMS current draw during continuous card reads Not evaluated by UL.

Peak - highest instantaneous current draw during RF communication



**NOTE: Tamper, LED and sounder, are controlled by OEM software

†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 emergancy 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.

5) Wiring Diagrams (Continued)

SN210 OSDP Application Diagram #3 (12/24VDC System)

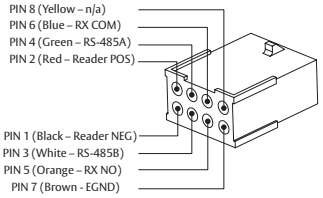
OSDP Operation Mode*:

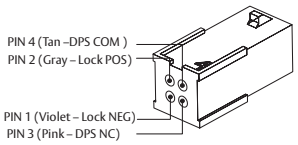
*LED/Sounder control and Tamper status communicated over OSDP serial protocol

	12V		24V	
	Average	Peak	Average	Peak
Reader*	75mA	250mA	n/a	n/a
Actuator	15mA	500mA	15mA	500mA

**Maximum AVG - RMS current draw during continuous card reads
Not evaluated by UL

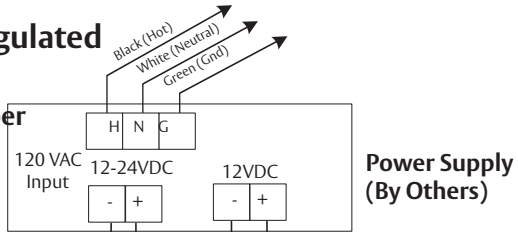
Peak - highest instantaneous current draw during RF communication



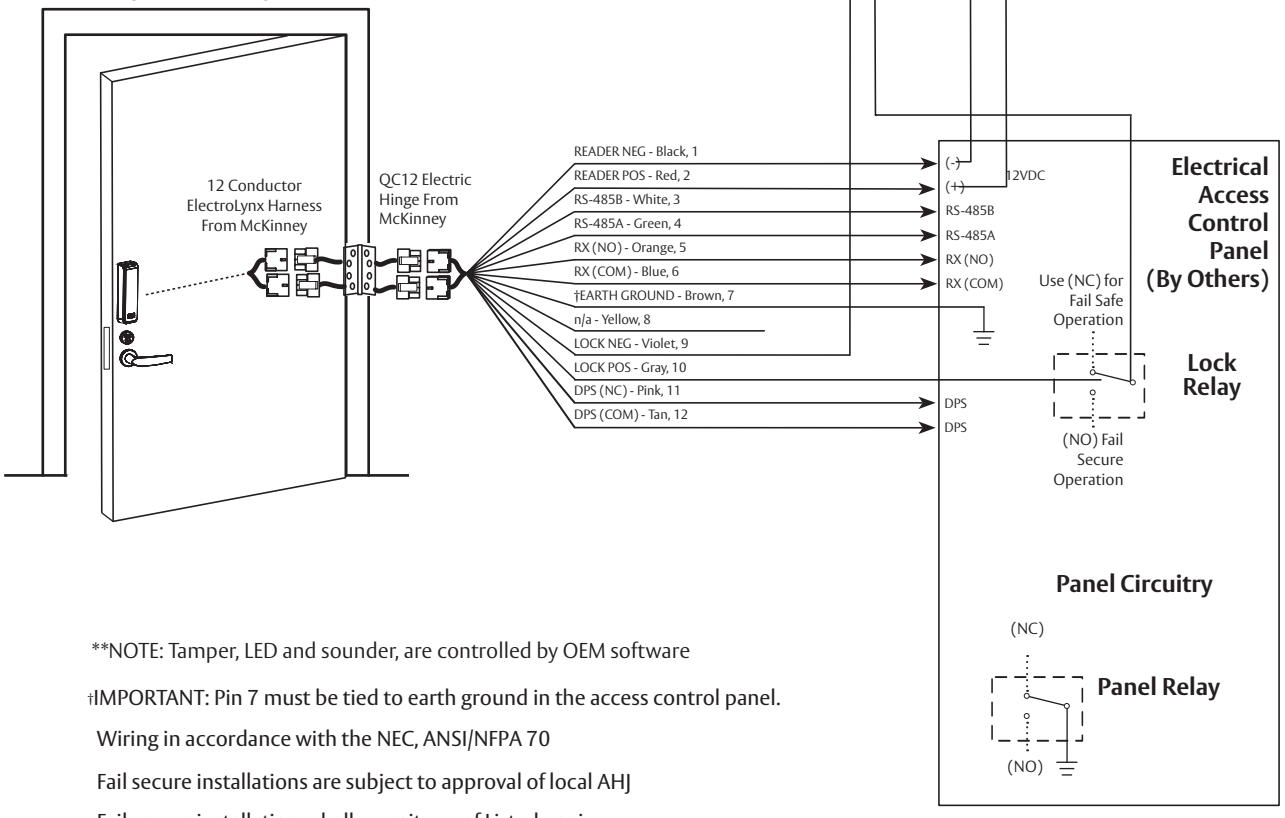


Reader Electronics Requires 12VDC Filtered and Regulated

Tamper will trigger when reader is removed from door and tamper monitoring is enabled at the panel**



12/24VDC System



**NOTE: Tamper, LED and sounder, are controlled by OEM software

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

Wiring in accordance with the NEC, ANSI/NFPA 70

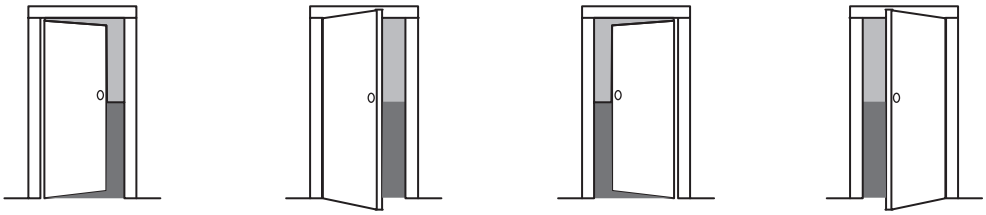
Fail secure installations are subject to approval of local AHJ

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.

6) 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"

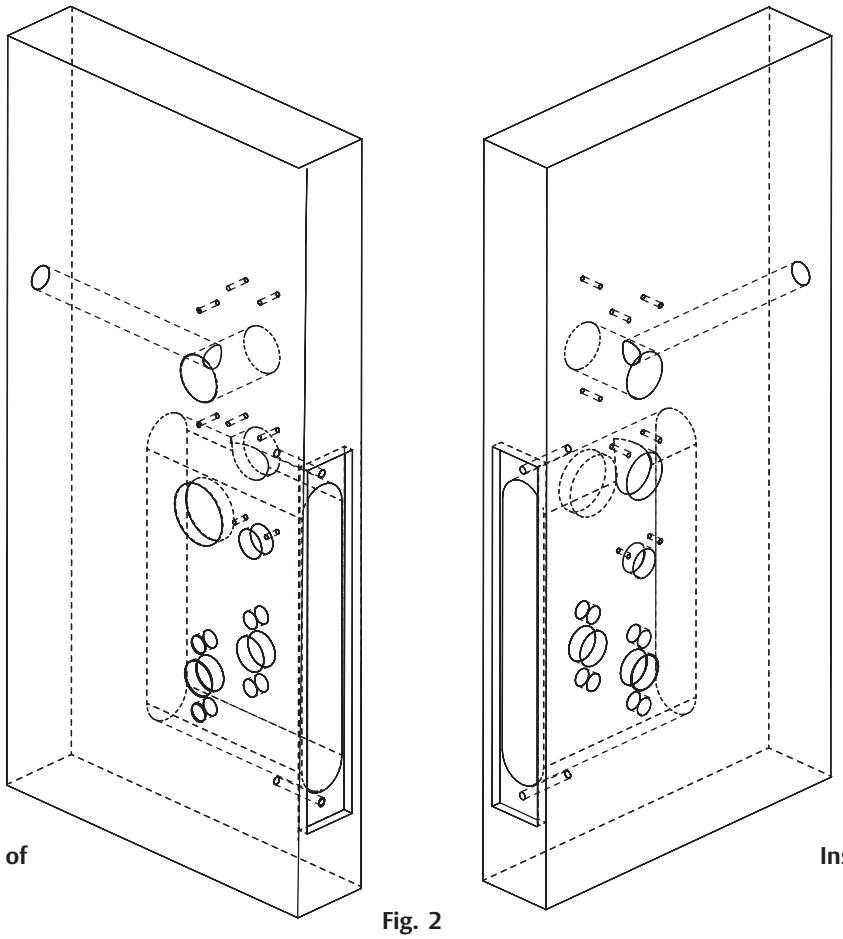
Left Hand
Reverse Bevel
Hinges Left.
Open Outward
"LHRB"

Right Hand
Hinges Right.
Open Inward.
"RH"

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

Fig. 1

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

6) 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 screwdriver (Fig. 3a)

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

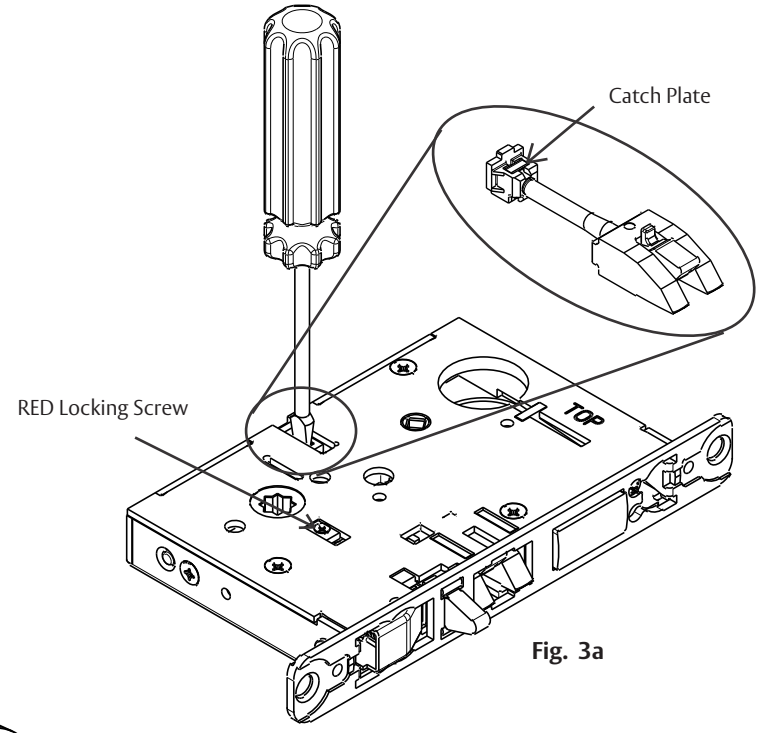


Fig. 3a

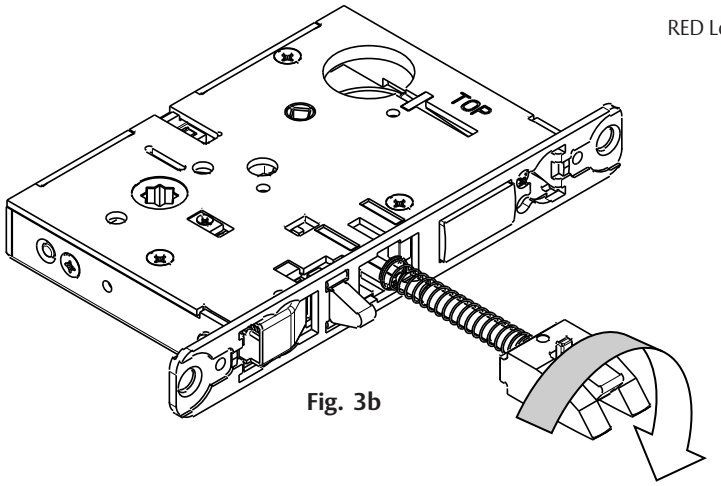


Fig. 3b

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

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

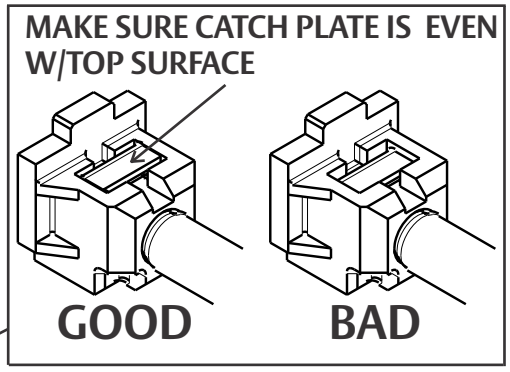


Fig. 3d

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

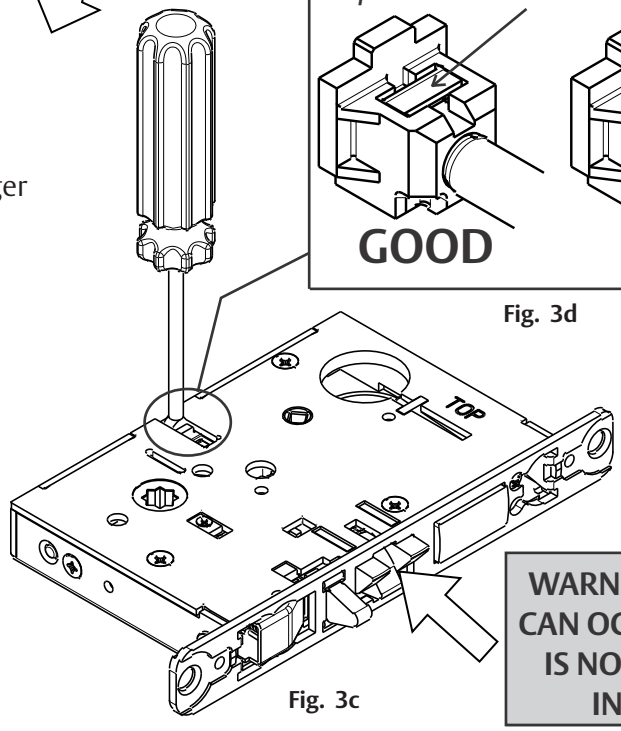


Fig. 3c

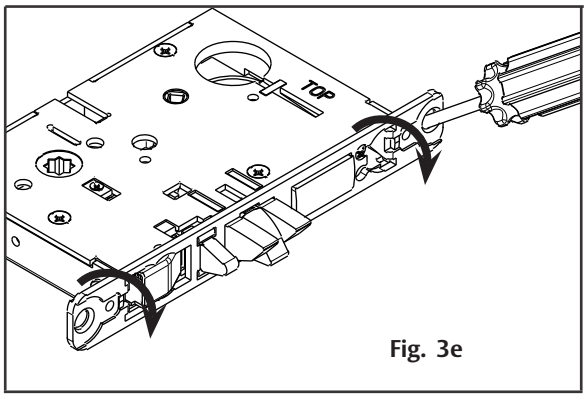


Fig. 3e

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

6) 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.

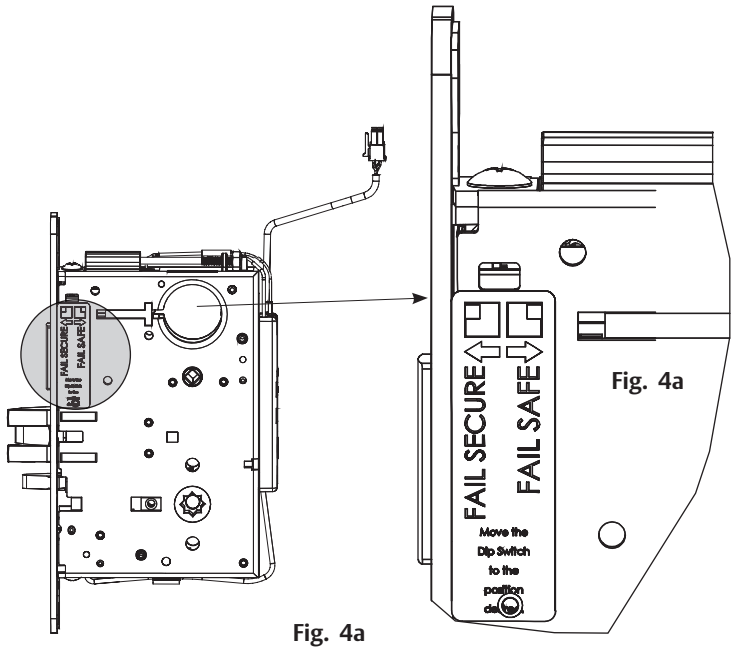


Fig. 4a

Fig. 4a

⚠

Check polarity:
Verify + (red) wire

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

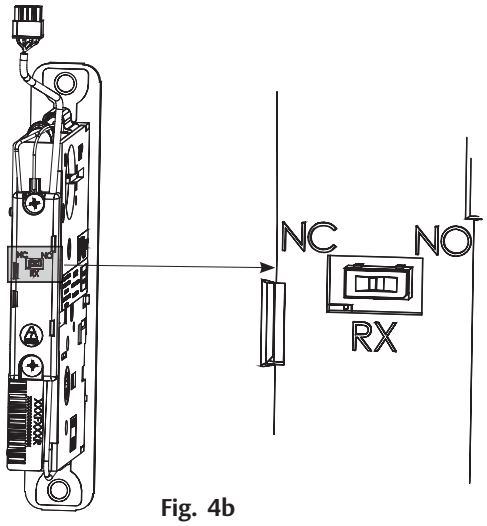


Fig. 4b

6) 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).

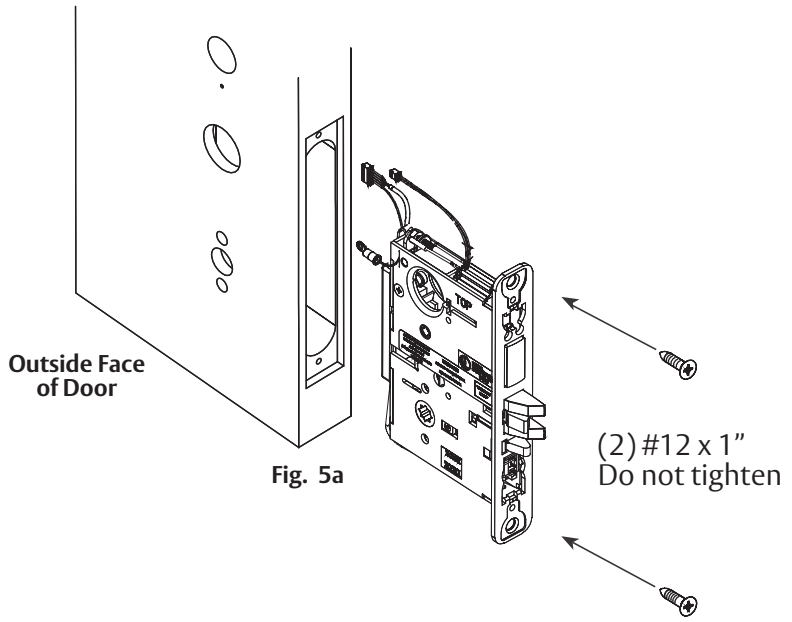


Fig. 5a

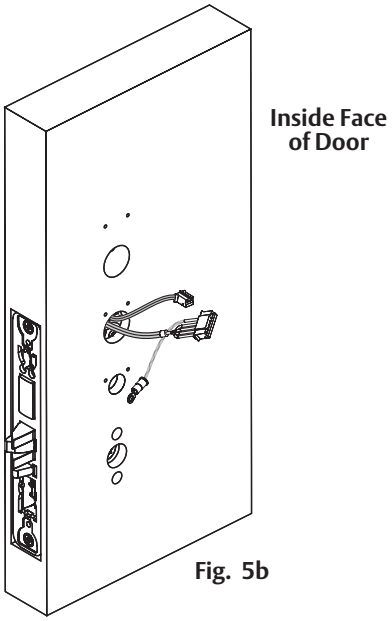


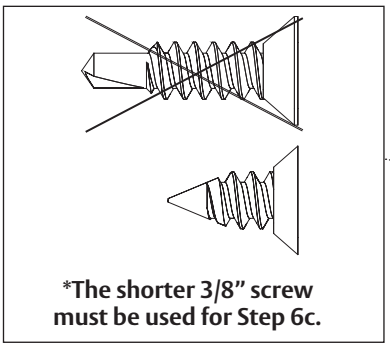
Fig. 5b

6. Install Inside Mounting Plate

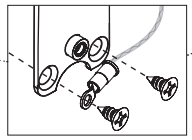
a. Feed lockbody wires through mounting plate (Fig. 6a).

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).



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



Detail

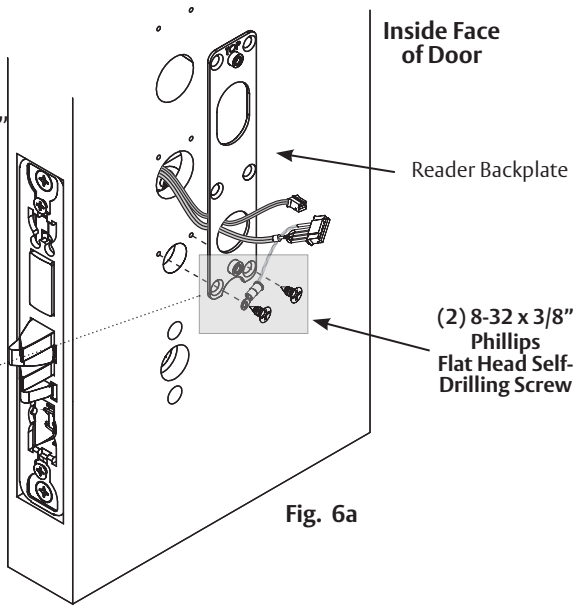


Fig. 6a

6) Installation Instructions (Continued)

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

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. 7).

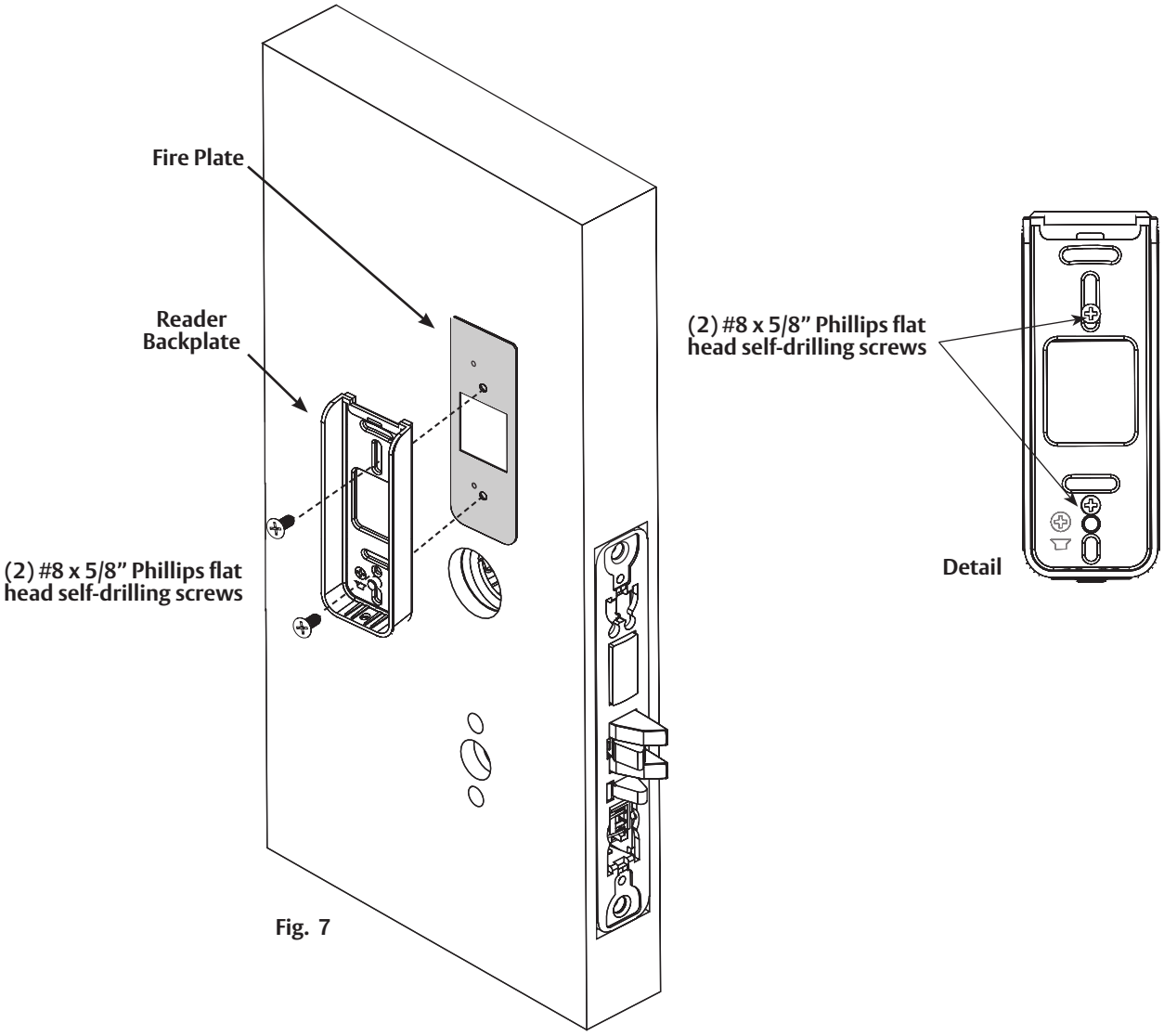


Fig. 7

6) Installation Instructions (Continued)

8. Install SN200/210 Reader

1. Feed reader harness through door (Fig. 8a, c)
2. Hook the top of the reader on the top of the mounting plate.
3. Align the bottom of the reader with the bottom of the mounting plate.
4. Secure the reader to the mounting plate using the supplied 6-32 x 3/8" T10 security Torx machine screw (Fig. 8b).

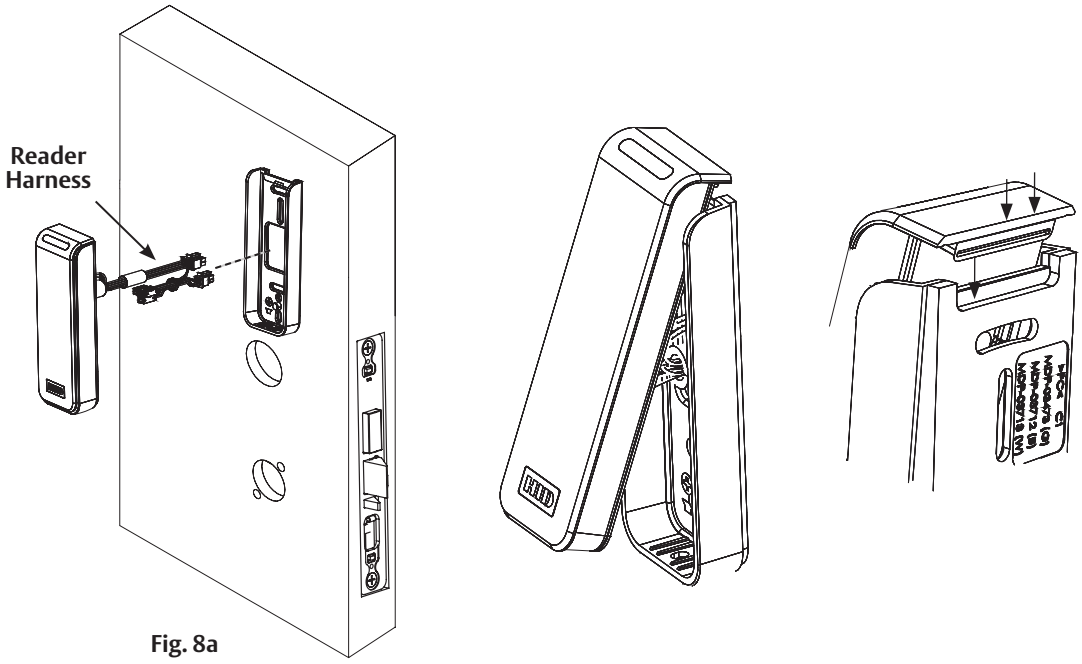


Fig. 8a

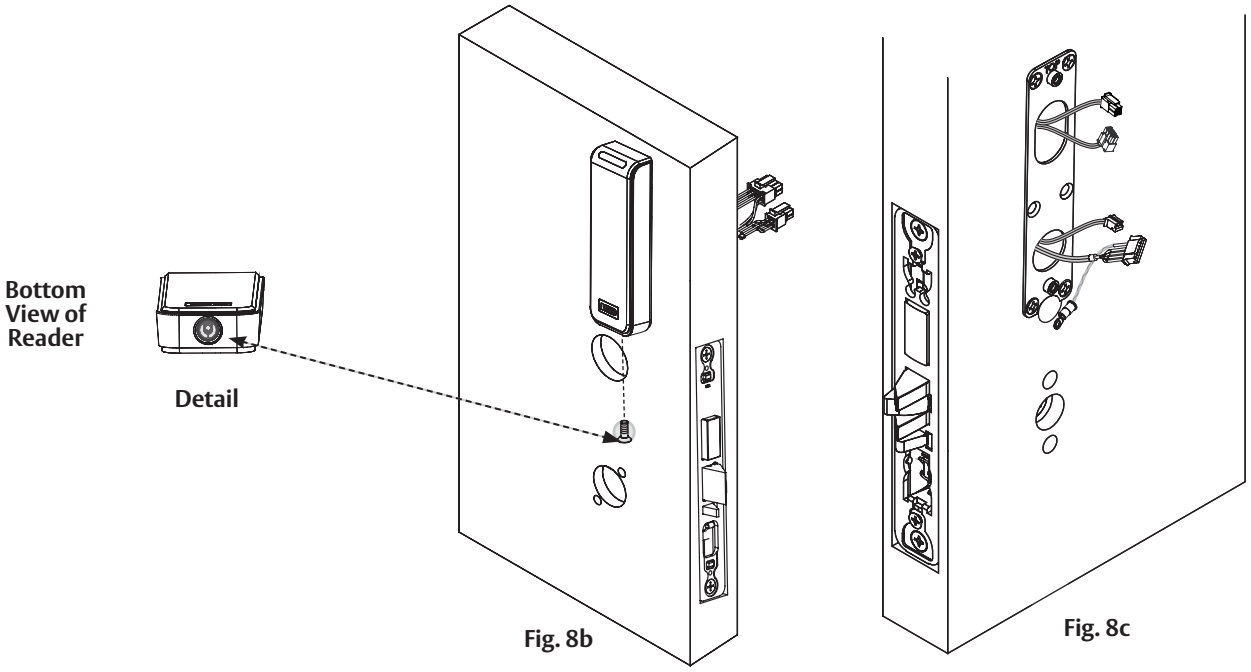


Fig. 8b

Fig. 8c

6) 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).

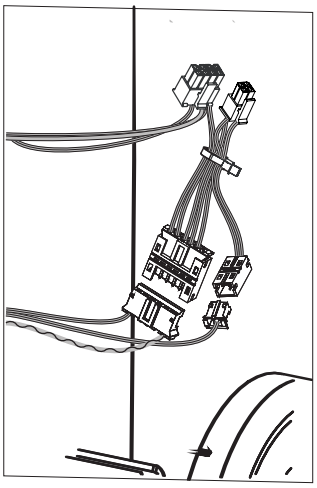


Fig. 9a

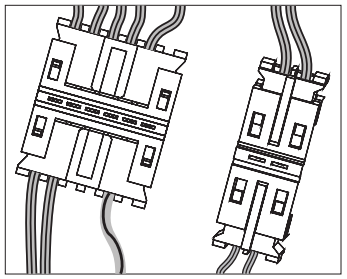


Fig. 9b

c. Connect ElectroLynx 4- and 8-pin connectors from the door harness to (black) 4- and 8-pin connectors of the SN200/210 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.

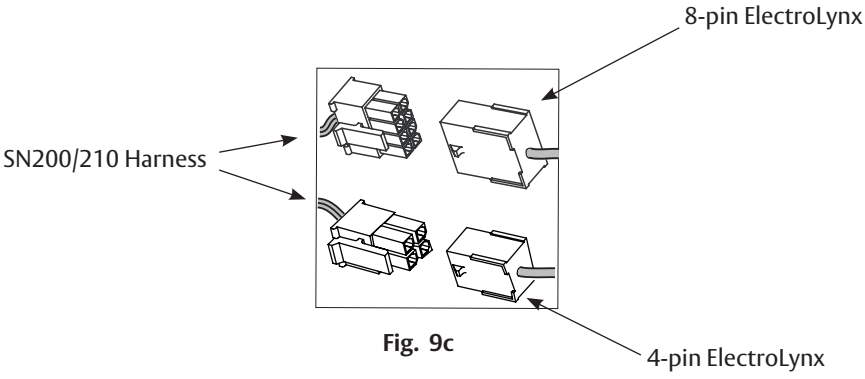


Fig. 9c

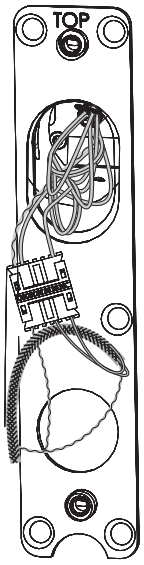


Fig. 9d

6) 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.

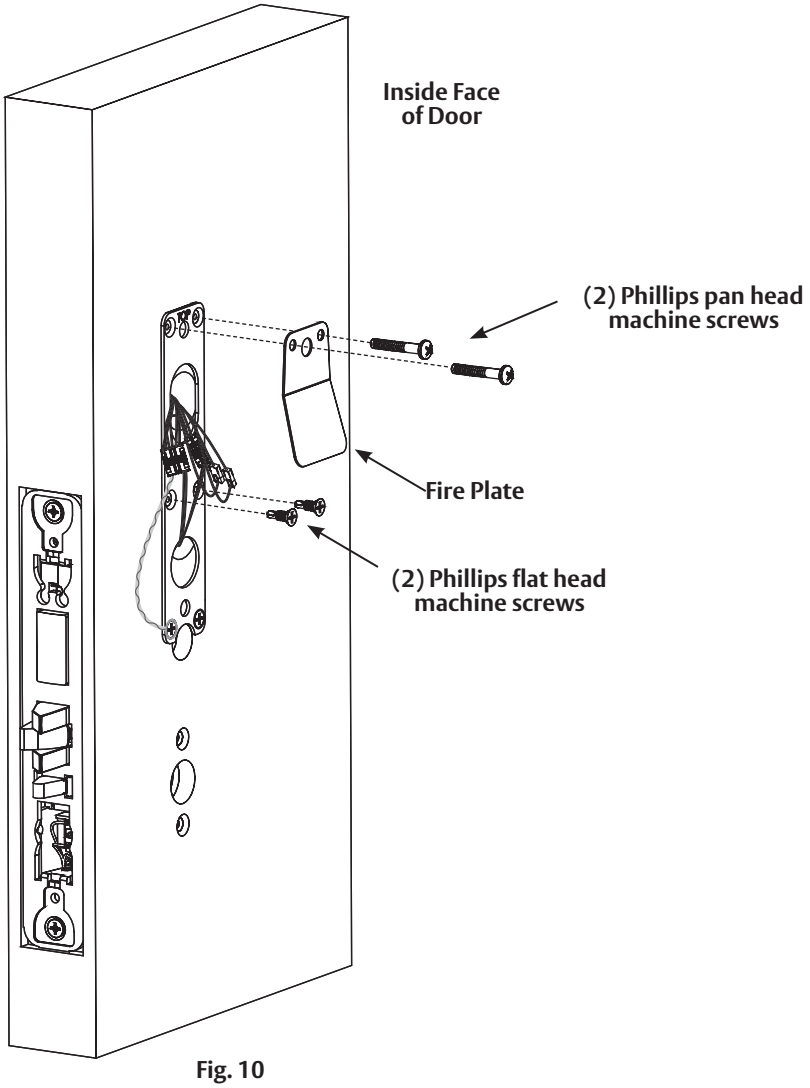


Fig. 10

6) Installation Instructions (Continued)

11. Install Cylinder:

a. Slide cylinder through collar. 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).

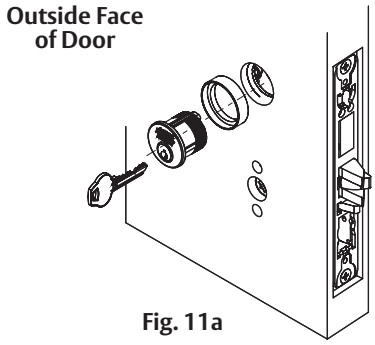


Fig. 11a

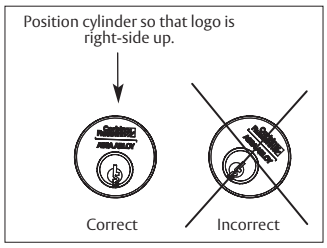


Fig. 11a1

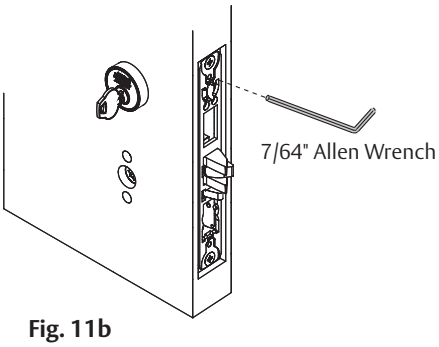


Fig. 11b

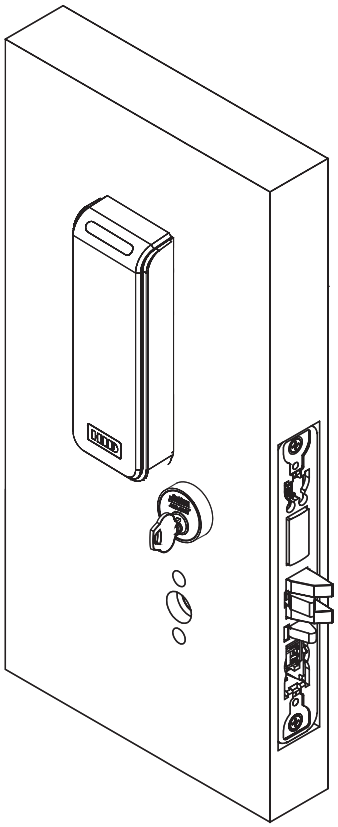


Fig. 11c

6) 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.

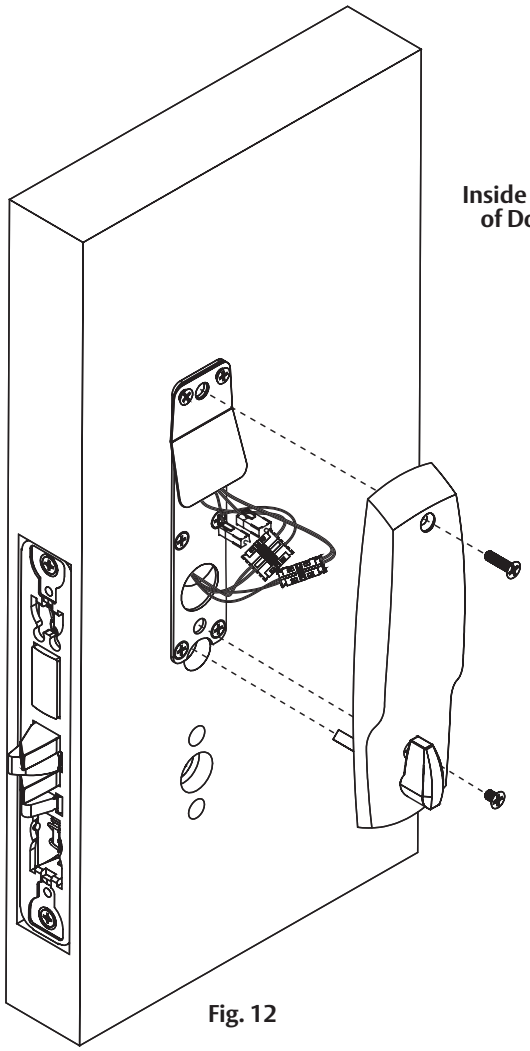


Fig. 12

6) Installation Instructions (Continued)

13a. Install Standard Lever Trim:

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

Step 1a

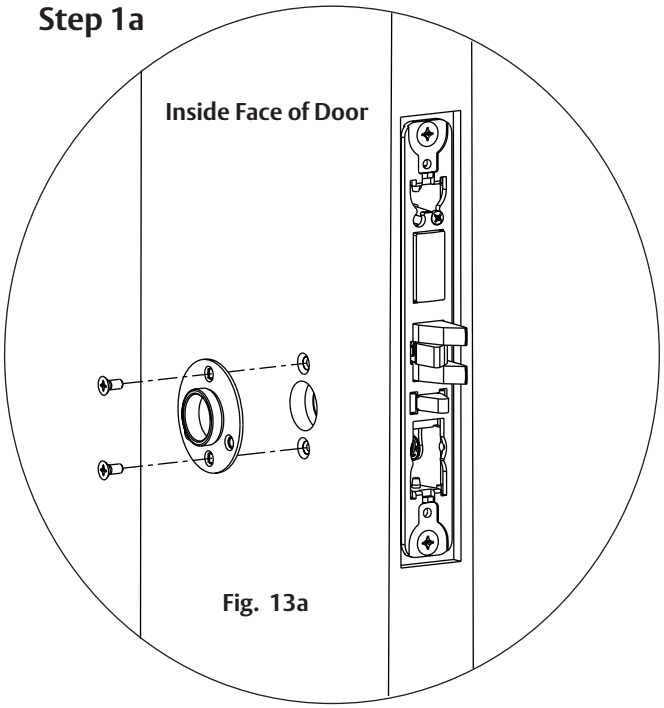


Fig. 13a

Step 1b

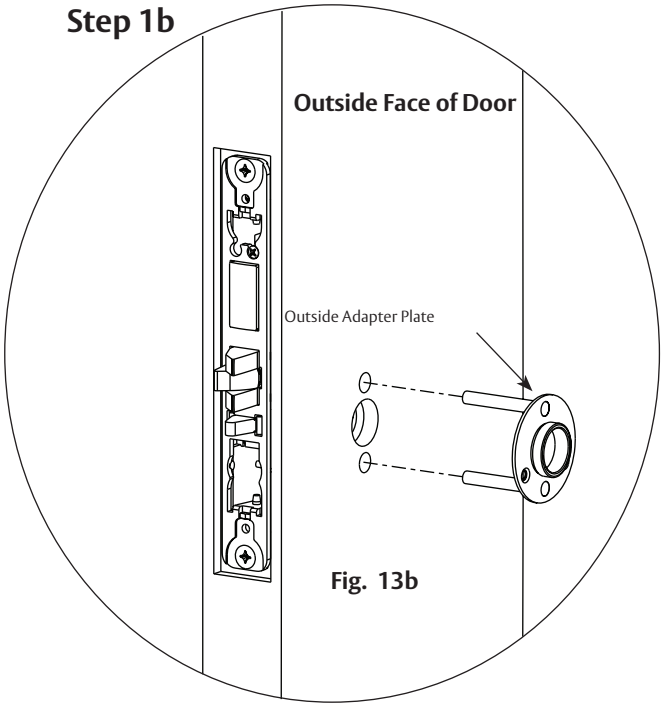


Fig. 13b

Step 2

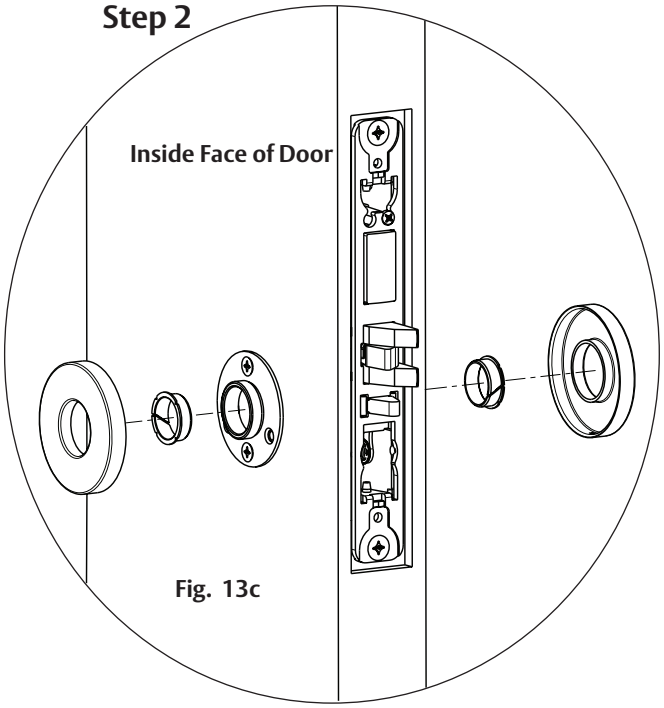


Fig. 13c

Step 3

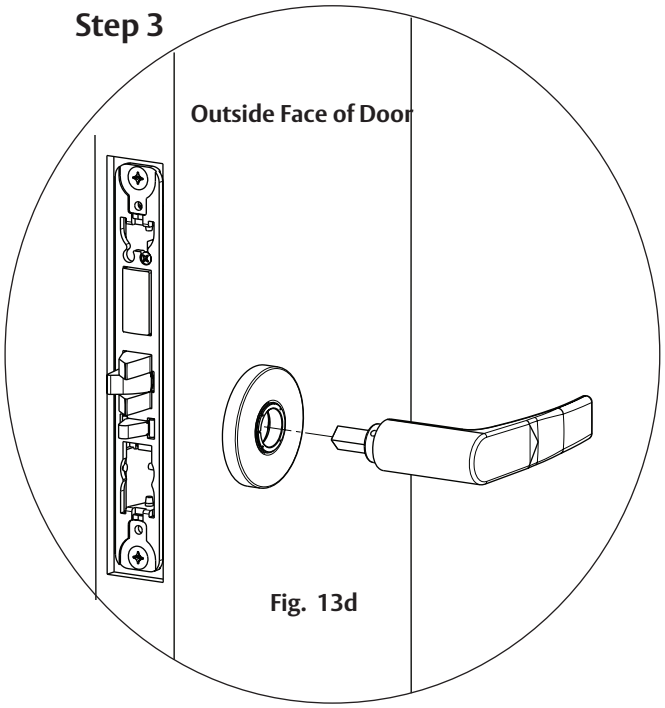


Fig. 13d

6) Installation Instructions (Continued)

Step 4

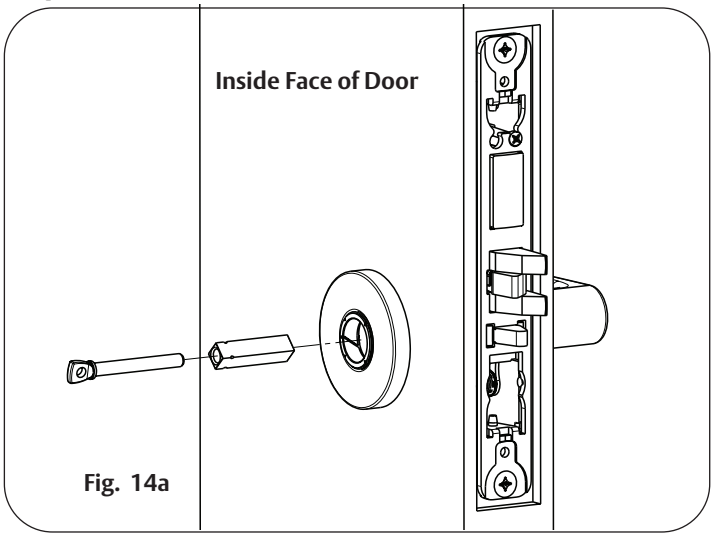


Fig. 14a

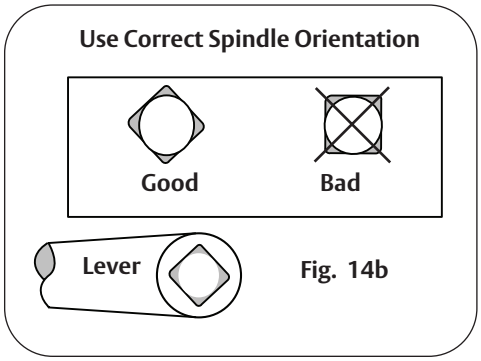


Fig. 14b

Step 5 Align adjustment bolt with threaded hole in lever

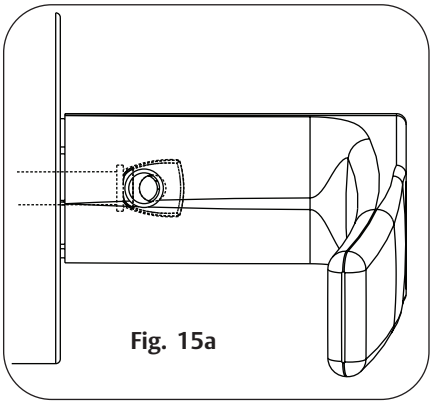


Fig. 15a

Adjustment bolt needs to be threaded in farther.

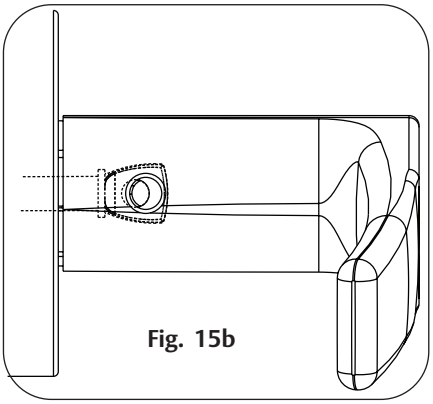


Fig. 15b

Adjustment bolt needs to be unthreaded.

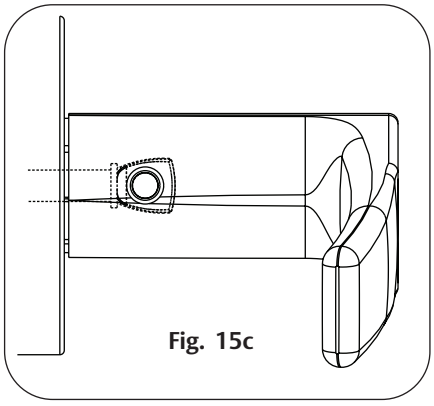


Fig. 15c

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.

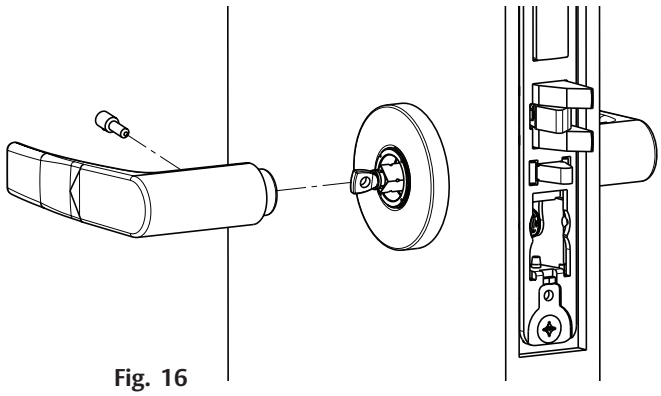


Fig. 16

6) Installation Instructions (Continued)

13b. Install Museo® Trim:

Step 1

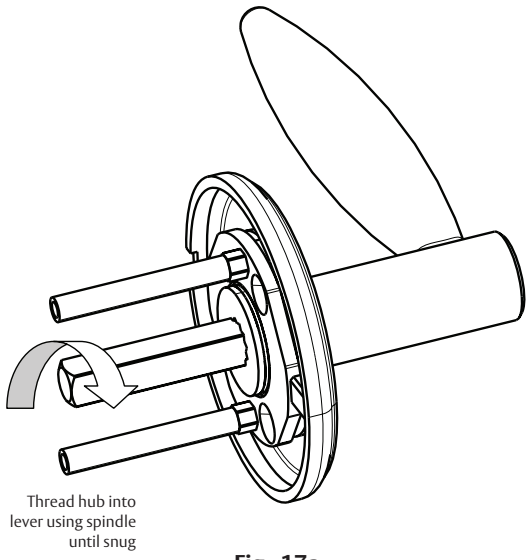


Fig. 17a

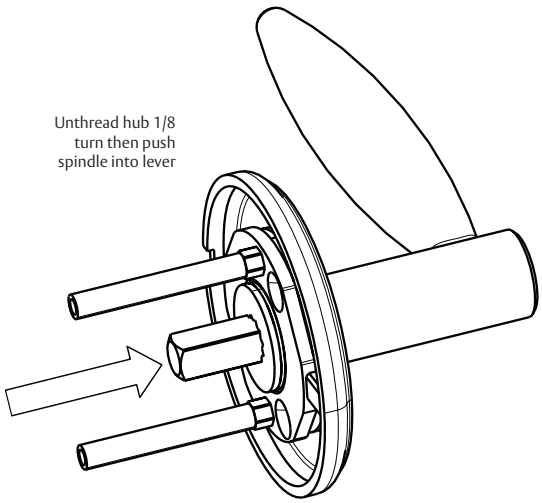


Fig. 17b

Step 2

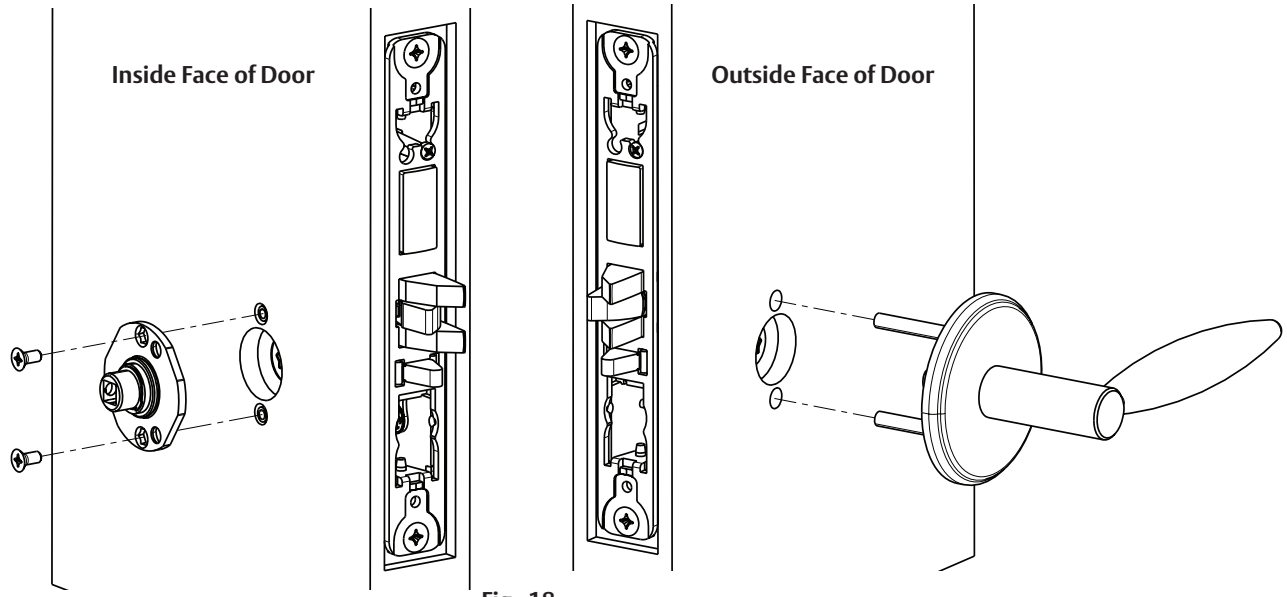


Fig. 18

6) 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

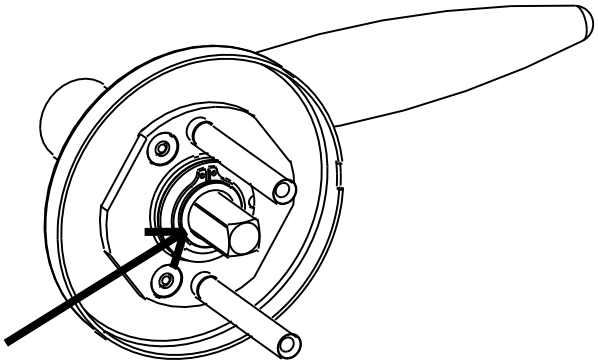


Fig. 19

Step 4 Align adapter plate hub with square hole in lever; keeping hub as tight as possible

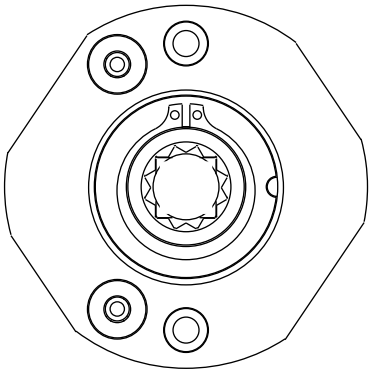


Fig. 20

Step 5 Install O/S trim assembly

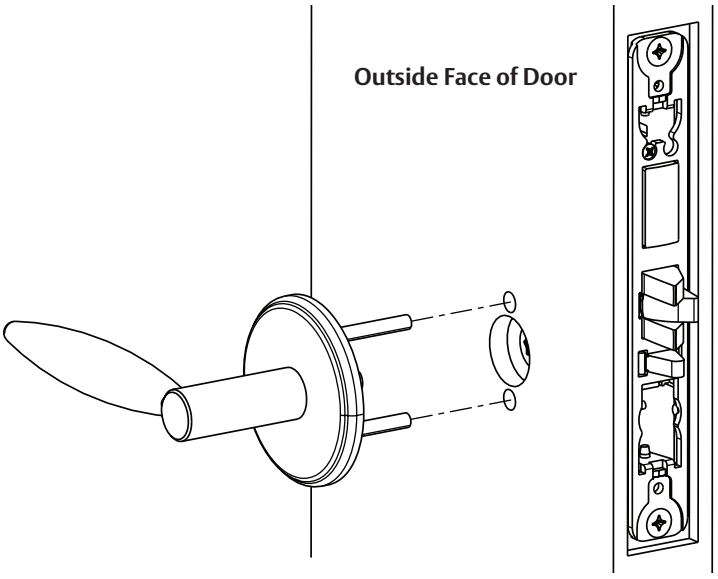


Fig. 21

Step 6 Install I/S adapter plate

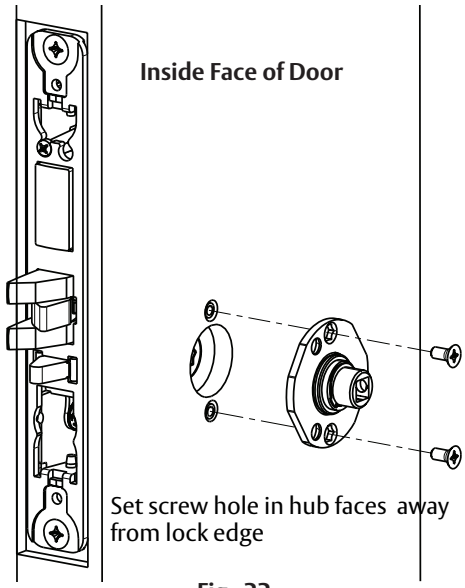


Fig. 22

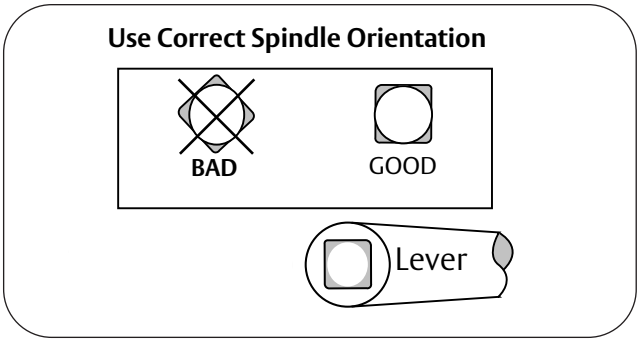


Fig. 23

6) Installation Instructions (Continued)

Step 7 Install I/S spindle and rose

Align studs on rose with
bushings in adapter plate

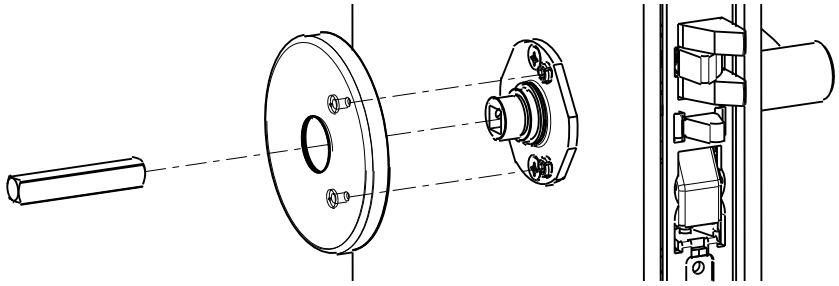


Fig. 24

Step 8 Install I/S lever with set screw

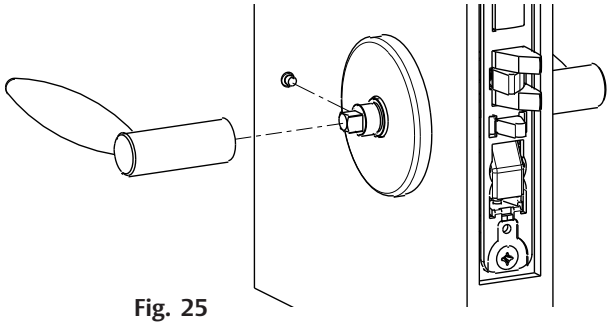


Fig. 25

Step 9 Install Armored FrontPlate

a. Securely tighten (2) lock body screws.

b. Attach armored front with two #8 x ¼" screws.

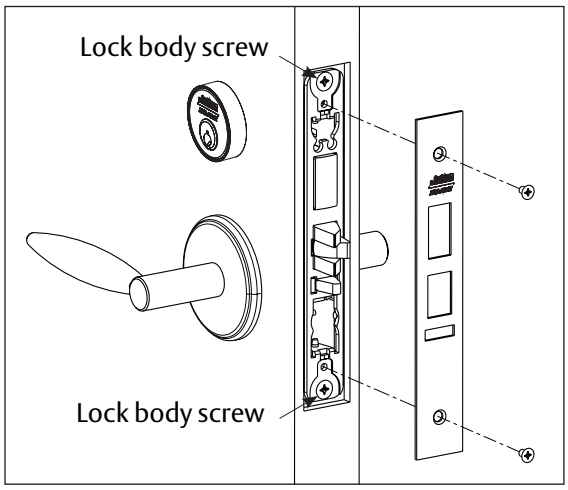


Fig. 26

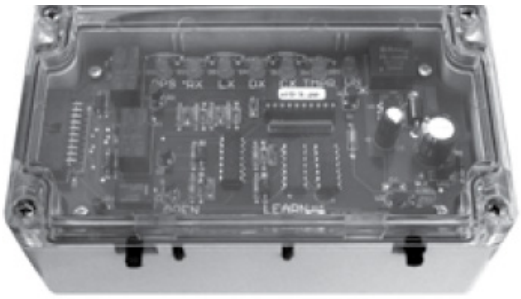
7) Operational Check

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 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
Displays key-press data from keypad readers†		X



Wiegand Test Unit - WT1

Wiegand Test Unit - WT2

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

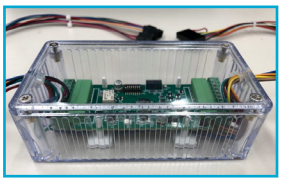
**SN200/210 keypad version works only with WT2

† WT2 unit with 1.03 firmware or later is required

The SNT1 is an adapter harness assembly that connects and converts OSDP lock signaling to work with a Wiegand Test Box (WTB).

If using the OSDP adapter, the WT1 will unlock on credential read or any key press, regardless of what credential is learned (OSDP reader only).

When connected to a Wiegand reader or using OSDP adapter: the WT2 will unlock on credential read and display credential value. Credentials can be learned, as usual. Individual key press will be displayed for any key press, but they cannot be learned.



(SNT1) WTB OSDP adapter wiring harness

7) Operational Check (Continued)

For mortise locks with cylinders:

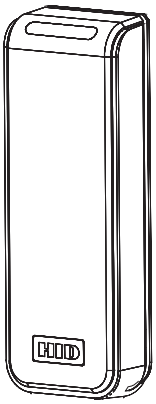
a. Insert key into cylinder and rotate: There should be no friction against lock case, wire harness or any other obstructions.

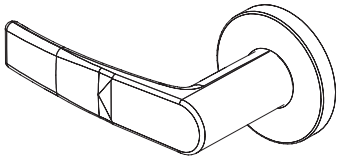
b. The key will retract the latch: Key should rotate freely.

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.





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

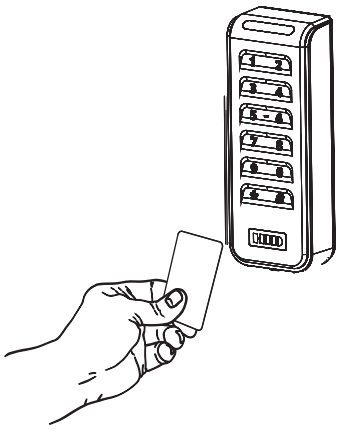
a. Turn power ON.

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.



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ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, mechanical and smart locks, access control and service.

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