

FM405 05/20

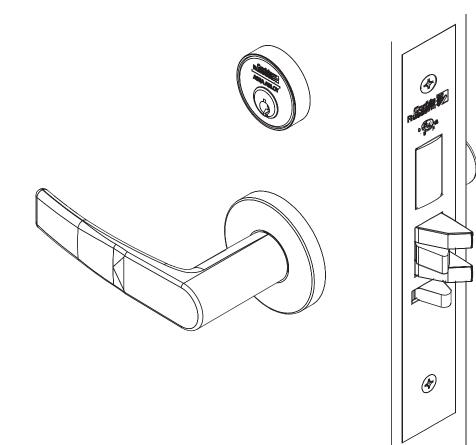
#### **Attention Installer**

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.



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



#### **Table of Contents**

| 1) Regulatory Compliance     | 3  |
|------------------------------|----|
| 2) Warning                   | 3  |
| 3) General Description       | 4  |
| 4) Specifications / Features | 4  |
| 5) Product Illustrations     | 5  |
| 6) Wiring Diagrams           | 6  |
| 7) Installation Instructions | 15 |
| 8) Operational Check         | 16 |

# Corbin Russwin

#### 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.





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



#### **3) General Description**

The NAC- mortise lock provides increased security over typical electrified mortise locks with dead bolt, dead bolt monitoring, request to exit monitoring, and door status monitoring built into a single lock. This lock can also be specified with factory installed and tested end-of-line resistors monitoring the request to exit and door position outputs.

The high security monitoring options of our industry-leading Integrated Wired locks are now available in a mortise lock that can be used as a stand-alone electrified lock or in conjunction with a wall reader.

Every NAC lock is shipped with door position and request to exit monitoring installed. NAC locks ordered with deadbolt are supplied with deadbolt monitoring.

#### 4) Specifications / Features

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

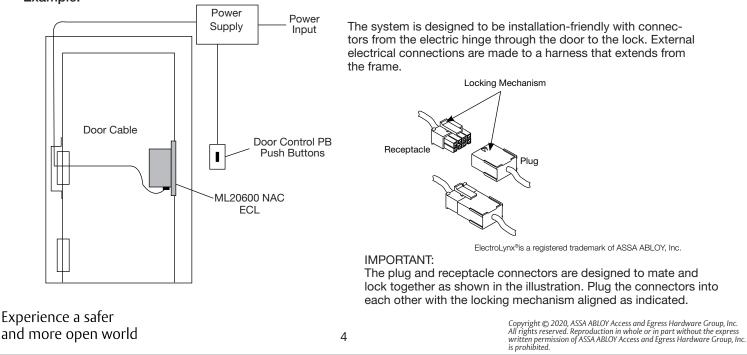
- Latch Stainless steel, 3/4" projection
- Deadbolt Stainless steel, 1" projection
- Guardbolt Stainless steel, non-handed
- Handed Easily field reversible without opening case
- Case 12 gauge heavy duty wrought steel
- Fail safe or fail secure operation (specified when ordering or easily field-configurable)
- Operates from 12-24VDC
- UL and CUL listed for use on Fire Doors

#### **Electrical Specifications**

12/24VDC System

- Actuator draw = .015 Amp continuous
- Maximum 2 locks per 1 Amp power supply (1/2 Amp peak current draw)

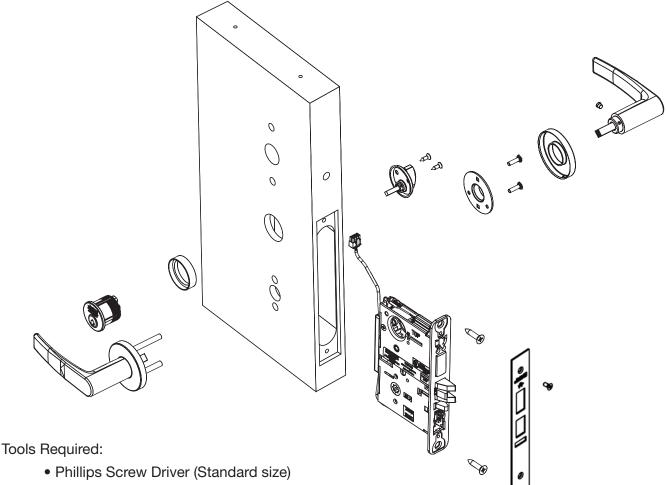
#### Example:



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#### EcoFlex<sup>™</sup> Electrified Mortise Locks (NAC-) with High-Security Monitoring Options Installation and Wiring Instructions

**5) Product Illustration** 

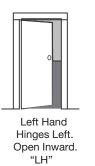


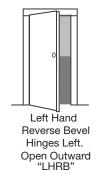
- Flat Blade Screw Driver (Standard size)
- 1/8" Allen Wrench

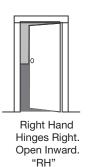




1. Verify Hand and Bevel of door. Illustrations shown are as viewed from the outside or secure side of opening.





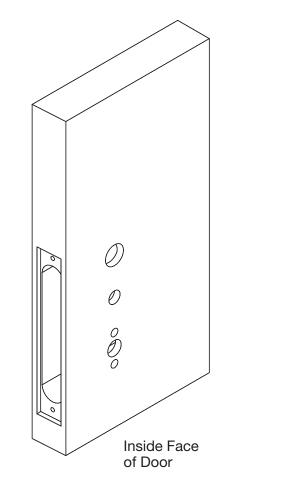


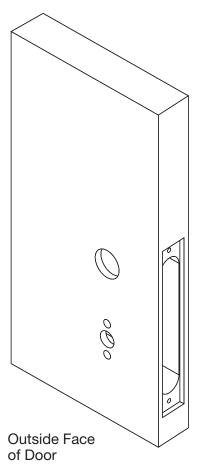


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2. Prep door according to supplied door marker. For door manufacturer templates, visit www.corbinrusswin.com.





#### ASSA ABLO 6) Installation Instructions (Continued) 3. Handing of Lock Body 1. Move the red locking screw to side of Catch Plate lock body being locked (Fig. 1) 2. Push in latch then depress catch plate with screw driver (Fig. 1) 3. Pull latch out of lock body and turn latch over (Fig. 2) **RED Locking Screw** ØØ Ð Figure 1 MAKE SURE CATCH PLATE IS Figure 2 EVEN W/TOP SURFACE Step 4) Push in latch while holding screw driver behind latch tail (Fig. 3) Note: Push in latch until catch plate is no longer depressed (Fig. 4) GOOD BAD Step 5) Rotate lock front to match Figure 4 bevel of door as shown (Fig. 5) A $\bigcirc$ 6 ${}^{\varnothing}{}^{\varnothing}$ E 0 WARNING: LOCK-IN CAN OCCUR IF LATCH IS NOT PROPERLY IN-

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Figure 5

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**STALLED** 

Figure 3

# EcoFlex<sup>™</sup> Electrified Mortise Locks (NAC-) with High-Security Monitoring Options Installation and Wiring Instructions

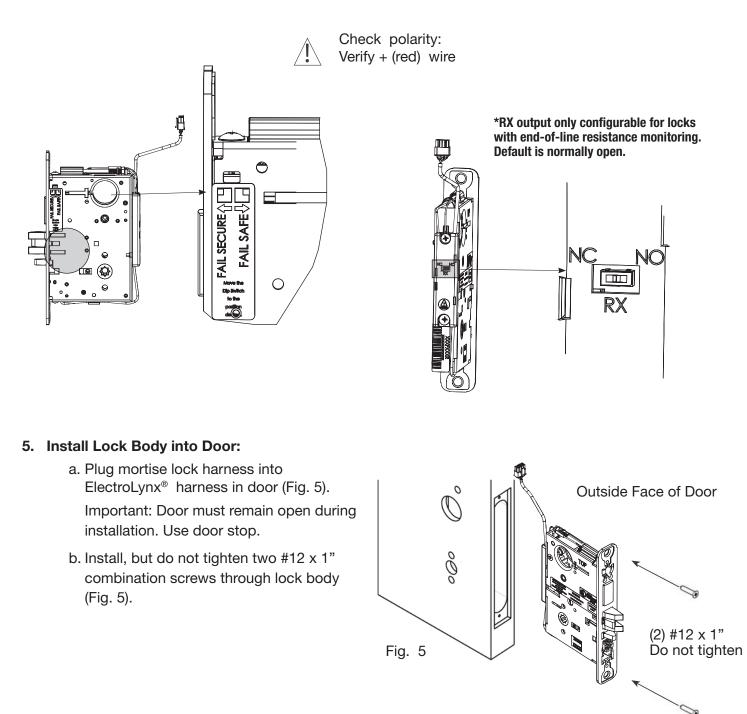




#### 6) Installation Instructions (Continued)

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

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



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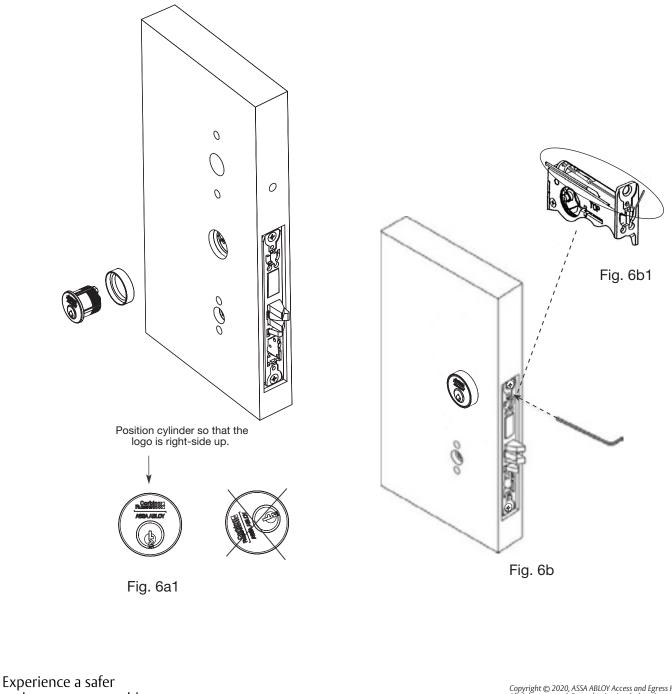
6) Installation Instructions (Continued)

#### 6. Install Cylinder:

a. Thread cylinder into lock body (Fig. 6a).

Note: Make sure cylinder is oriented correctly (Fig. 6a1).

- b. Tighten cylinder clamp using 7/64" allen wrench (provided) (Fig. 6b).
- c. Turn the key to make sure that lock functions correctly (latch, deadbolt, and key).

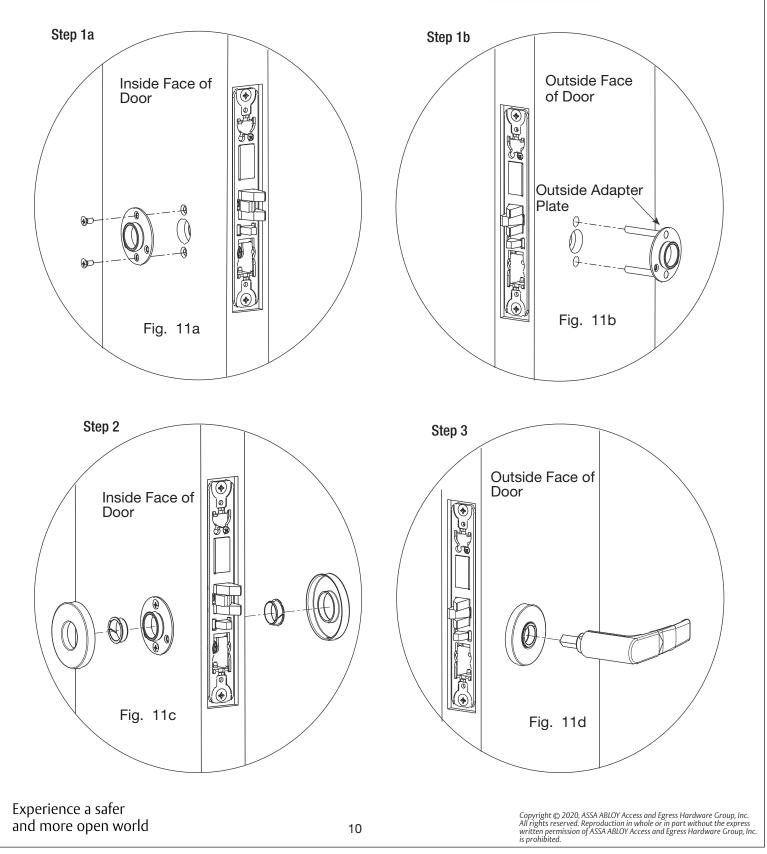


6) Installation Instructions (Continued)

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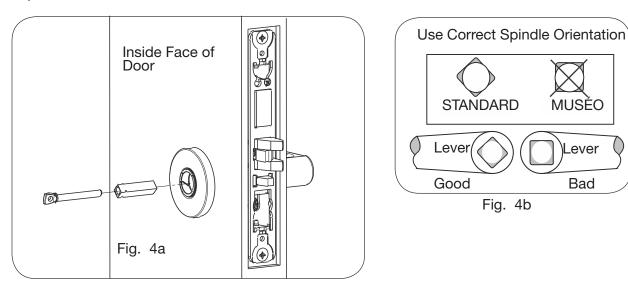
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7a. Install Standard Lever Trim. Refer to 7b on following pages for MUSEO. Trim:



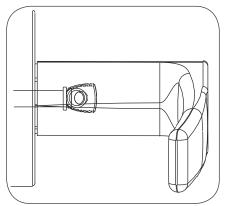
6) Installation Instructions (Continued)

#### Step 4



Step 5

Align adjustment bolt with threaded hole in lever

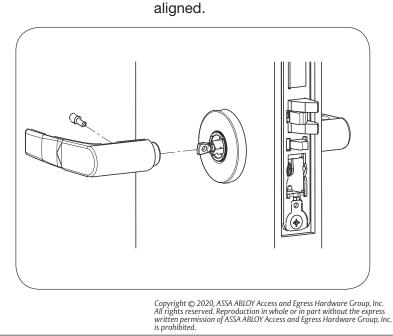


Adjustment bolt needs to be threaded in farther.

Step 6

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.



Adjustment bolt fully

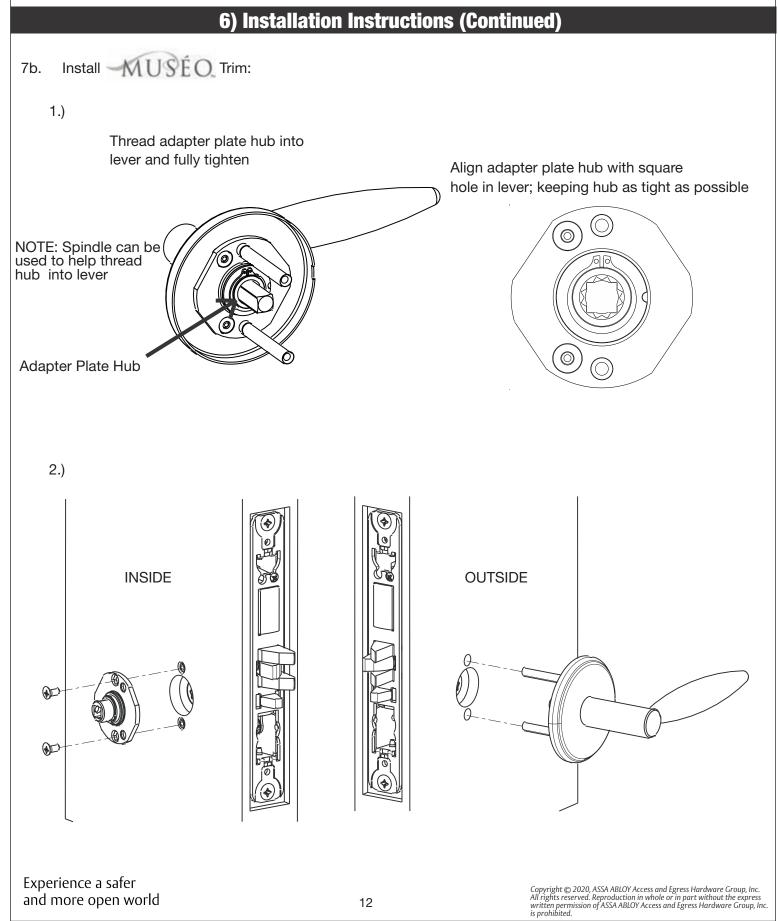
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Adjustment bolt needs to be

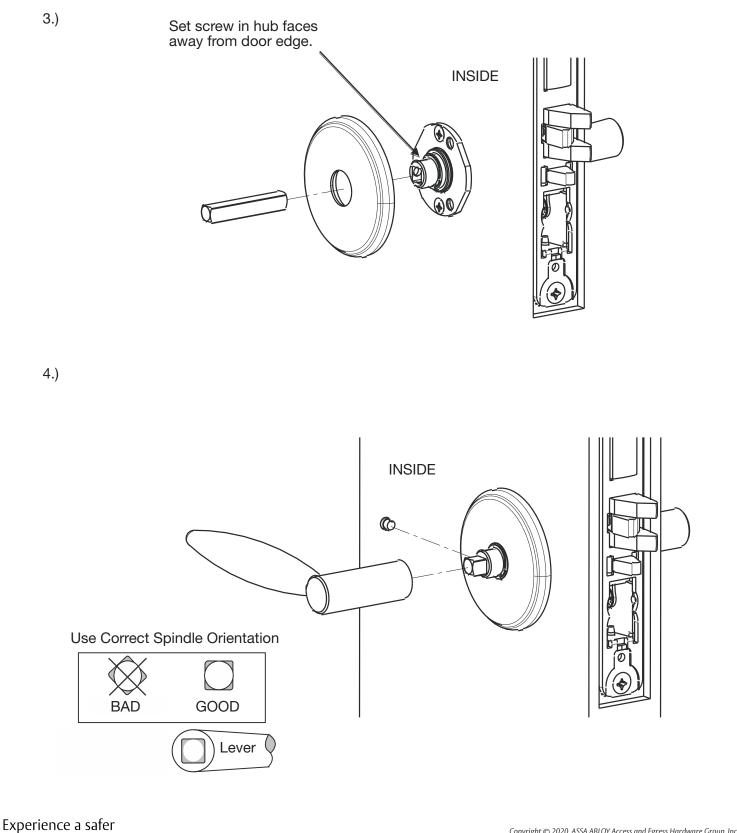
unthreaded.







6) Installation Instructions (Continued)



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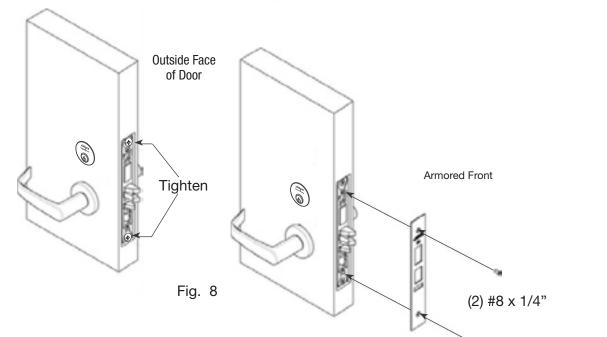
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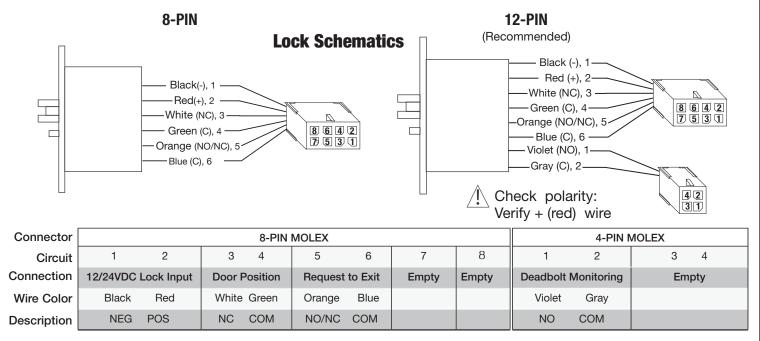
#### 6) Installation Instructions (Continued)

#### 8. Install Armored Front:

- a. Tighten (2) screws through lock body.
- b. Attach armored front with two #8 x 1/4" screws (Fig. 8).



#### 7) Wiring Diagrams



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

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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. Inside lever: Ensure it retracts the latch.
- d. Close door: Ensure latch fully extends and does not bind.
- e. Ensure that dead bolt can be projected and retracted by key and inside turn (if present).

#### Lock/UnLock Check:

- a. Turn power ON.
- b. Send unlock signal from control panel.
- c. Verify lock unlocks and re-locks at desired intervals.

#### **Switch Signal Check:**

- d. Monitor switch signals at control panel and verify each switch activates correctly based on chosen wiring configuration (NO/NC).
- e. If end-of-line resistors are present on the RX (request-to-exit) and door status outputs, verify correct signaling by referencing instruction sheet FM406.

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.



#### PHR Function Check (if ordered):

- f. Check powered lock and unlock function.
- g. Throw dead bolt.

The lock should not lock or unlock (from outside of door) when dead bolt is projected.

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Feature

Fail Secure

unit

12 or 24VDC solenoid

lock voltage adjustable

Operates as Fail Safe or

"Learn" mode allows

testing of specific cards

without programming at the panel level

Card reader data inte-

Works with SE LP10

**Displays** detailed Wiegand data, including

grity is validated at test

hexadecimal string and total bits received

Displays measured end-

of-line resistor values (if applicable)

WT2

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The ASSA ABLOY Group is the global leader in access solutions. Every day, we help billions of people experience a more open world.

**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, locks, perimeter fencing, access control and service.





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