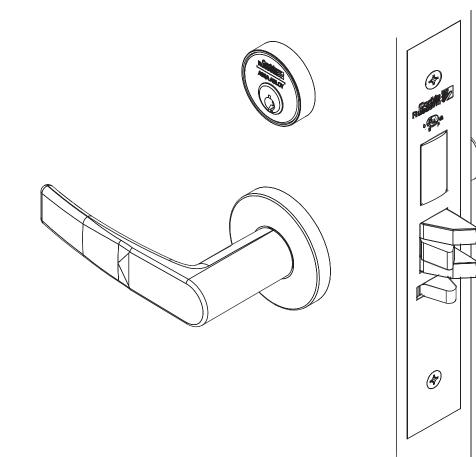


#### **Attention Installer**

Please read these instructions carefully to prevent missing important steps.

Please Note: Improper installations may result in damage to the lock and void the factory warranty.

Important: The accuracy of the door preparation is critical for proper functioning and security of this lock. Misalignment can cause premature wear and a lessening of security.



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



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#### 2) 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 Wiegand 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.

#### 3) Specifications / Features

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

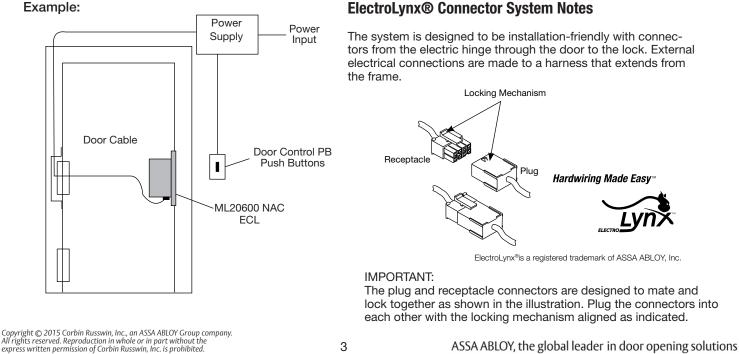
- Latch Stainless steel, 3/4" projection
- Deadbolt Stainless steel, 1" projection
- Guardbolt Stainless steel, non-handed
- Handed Easily field reversible without opening case
- Case 12 gauge heavy duty wrought steel
- Fail safe or fail secure operation (specified when ordering or easily field-configurable)
- 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:

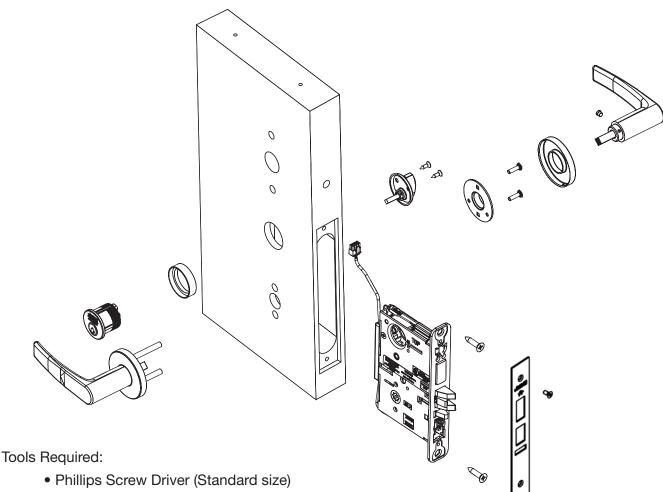


Do NOT force connectors on any other way.

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



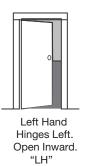


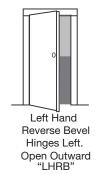
- Flat Blade Screw Driver (Standard size)
- 1/8" Allen Wrench

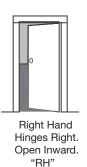


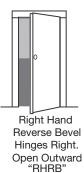


1. Verify Hand and Bevel of door. Illustrations shown are as viewed from the outside or secure side of opening.



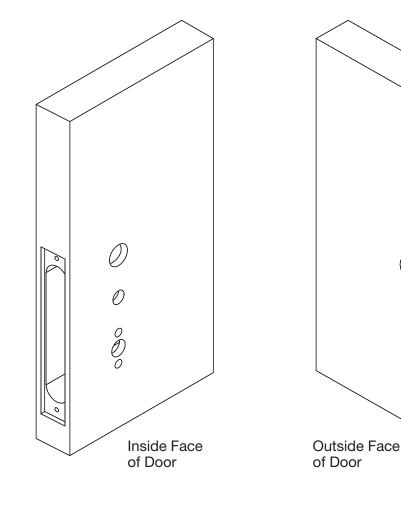






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2. Prep door according to supplied door marker. For door manufacturer templates, visit www.corbinrusswin.com.



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#### 5) 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** 0 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 $\mathscr{O}_{\mathscr{O}}$ E 0 WARNING: LOCK-IN CAN OCCUR IF LATCH IS NOT PROPERLY IN-Figure 3 **STALLED**

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Figure 5

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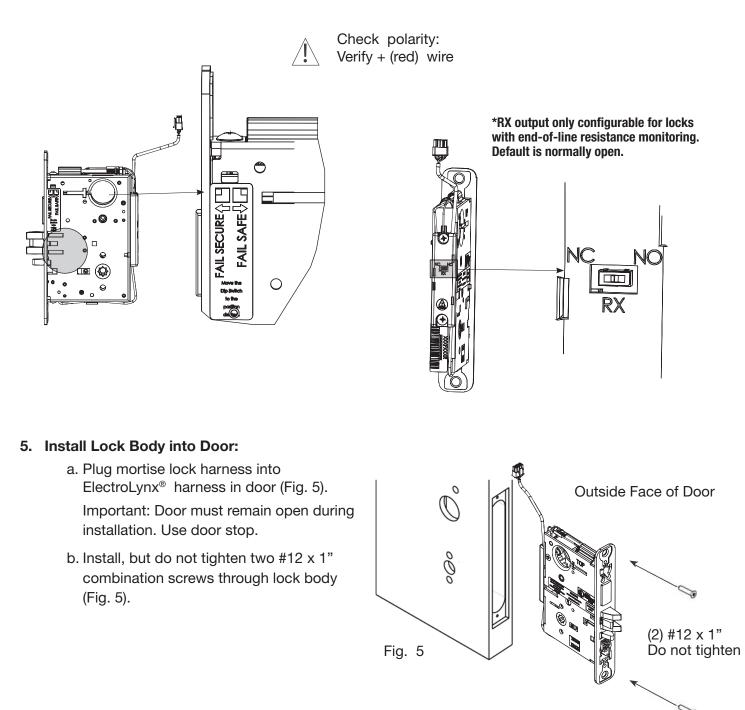
## **EcoFlex<sup>™</sup> Electrified Mortise Locks (NAC-)** with High-Security Monitoring Options **Installation and Wiring Instructions**

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#### 5) 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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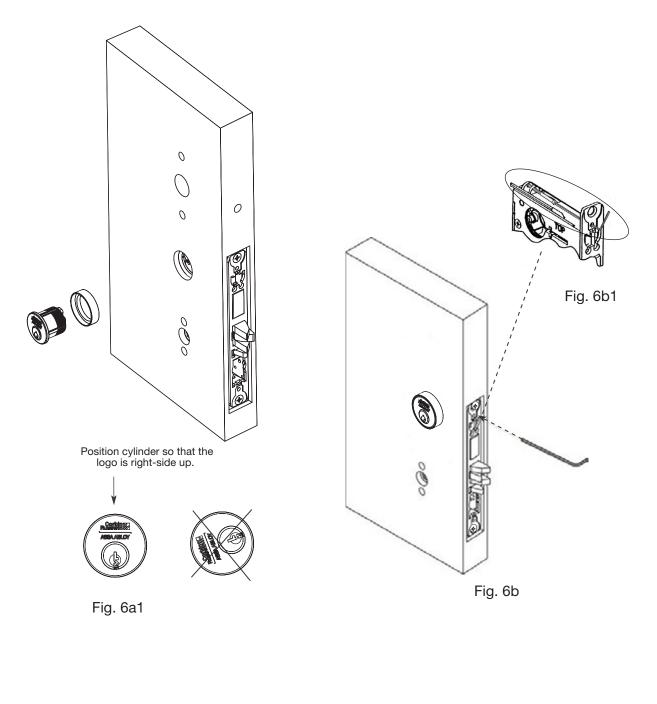
5) Installation Instructions (Continued)

#### 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).

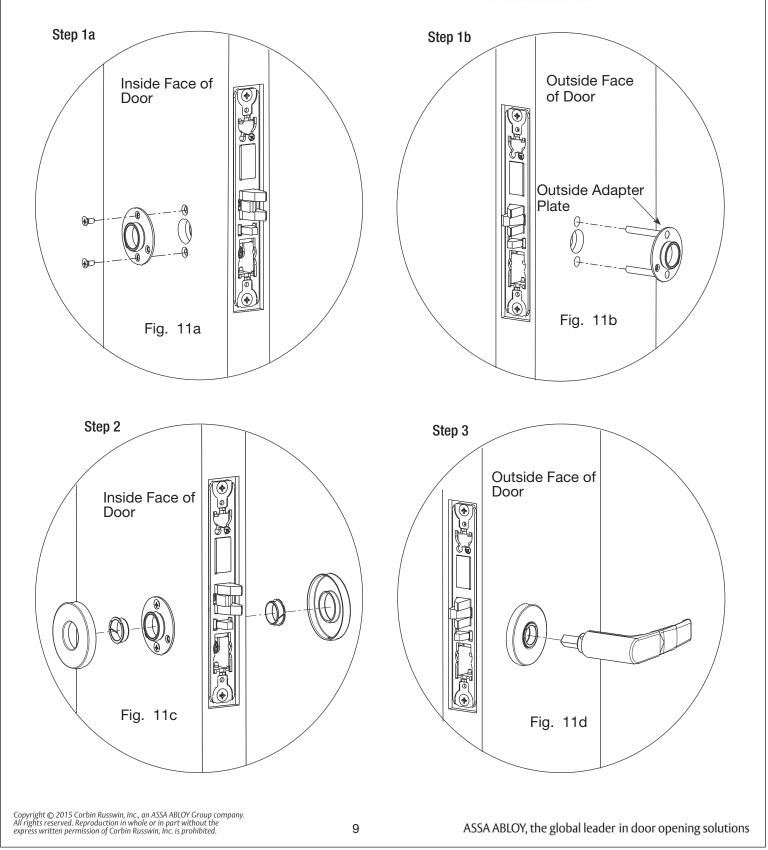


5) Installation Instructions (Continued)

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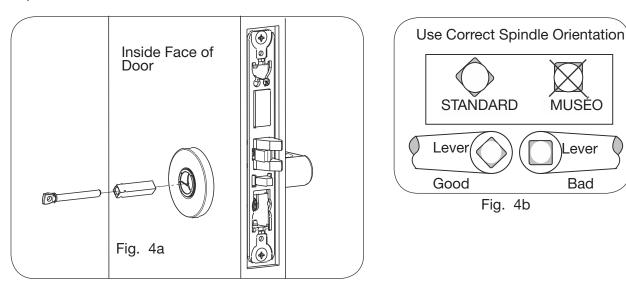
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7a. Install Standard Lever Trim. Refer to 7b on following pages for MUSEO. Trim:



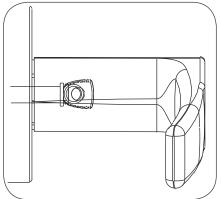
5) Installation Instructions (Continued)

#### Step 4



Align adjustment bolt with threaded hole in lever

unthreaded.

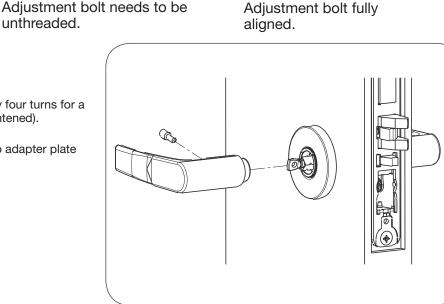


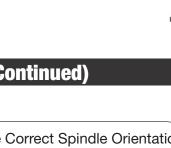
Adjustment bolt needs to be threaded in farther.

Step 6

#### Notes:

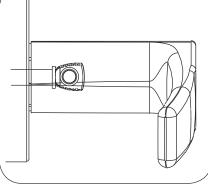
- Unthread adjustment bolt approximately four turns for a good starting point (After being fully tightened).
- Make sure O/S lever is fully inserted into adapter plate before aligning adjustment bolt.





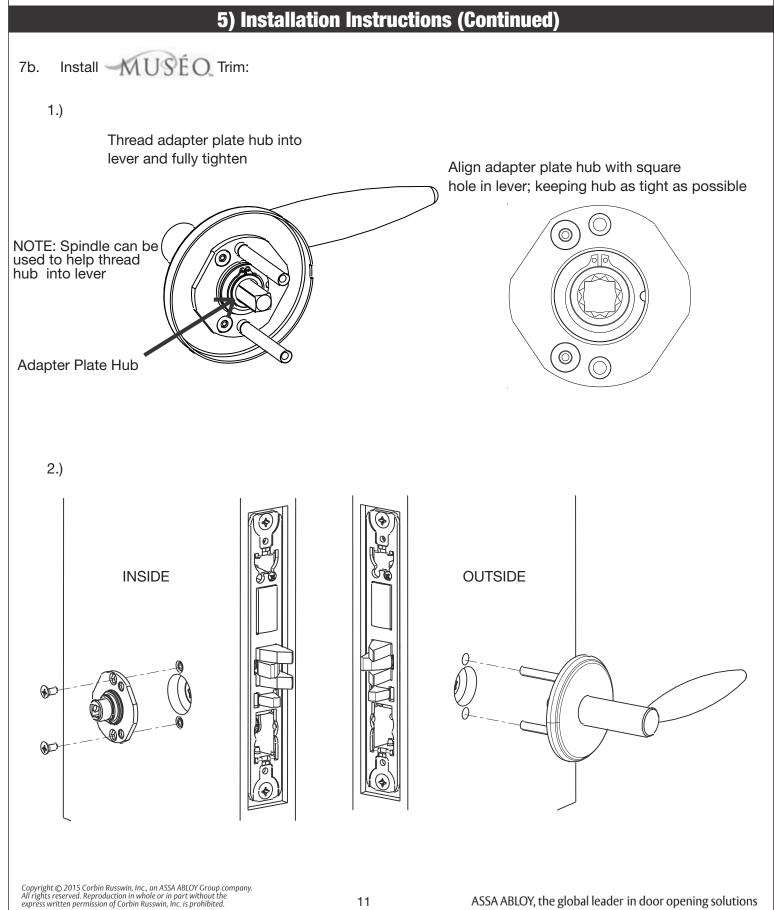
Step 5

Adjustment bolt fully

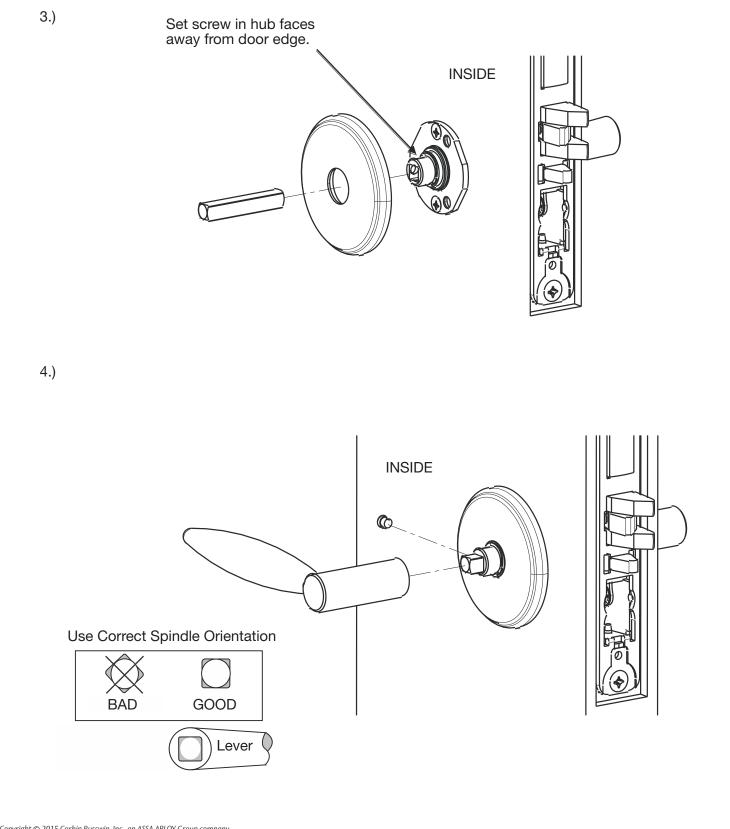


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5) Installation Instructions (Continued)



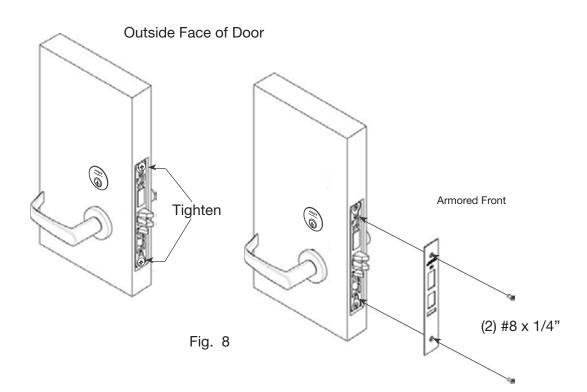
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### 5) Installation Instructions (Continued)

#### 8. Install Armored Front:

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



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#### 6) Wiring Diagrams Check polarity: **Lock Schematics** Verify + (red) wire 8-PIN **12-PIN** (Recommended) - Black (-), 1 - Red (+), 2-Black(-), 1 --White (NC), 3 - $\square$ -Red(+), 2 · 8642 7531 Green (C), 4-White (NC), 3 --Orange (NO/NC), 5-Green (C), 4 · 8642 – Blue (C), 6 -7 5 3 1 Orange (NO/NC), 5-- Violet (NO), 1 Blue (C), 6 -Gray (C), 2-42 31

Connector	8-PIN MOLEX								4-PIN MOLEX			
Circuit	1	2	3	4	5	6	7	8	1	2	3	4
Connection	12/24VDC Lock Input		Door Position Request to Exit		Empty	Empty	Deadbolt Monitoring		Empty			
Wire Color	Black	Red	White	Green	Orange	Blue			Violet	Gray		
Description	NEG	POS	NC	COM	NO/NC	COM			NO	COM		

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



## 7) Mechanical 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).

## 8) Electrical Operational Check

#### 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.

Feature	WT1	WT2
12 or 24VDC solenoid lock voltage adjustable	х	х
Operates as Fail Safe or Fail Secure	х	х
"Learn" mode allows testing of specific cards without programming at the panel level	x	x
Card reader data inte- grity is validated at test unit	х	x
Works with SE LP10	Х	х
Displays detailed Wiegand data, including hexadecimal string and total bits received		x
Displays measured end- of-line resistor values (if applicable)		x



## ASSA ABLOY

ASSA ABLOY is the global leader in door opening solutions, dedicated to satisfying end-user needs for security, safety and convenience.

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