Mortise Lockset IN100 WiFi Installation Instructions

۲



۲

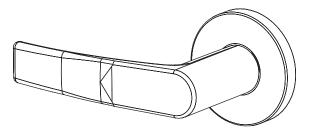
Attention Installer

۲

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)

Copyright © 2016 Corbin Russwin, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Corbin Russwin, Inc. is prohibited.

ASSA ABLOY, the global leader in door opening solutions

Corbin 7

((()

Table of Contents

۲

| 1) Warning | 2 |
|------------------------------|----|
| 2) General Description | 3 |
| 3) Specifications / Features | 3 |
| 4) Product Illustrations | 4 |
| 5) Installation Instructions | 6 |
| 6) Operational Check | 20 |
| 7) LED Indications | 21 |

1) Warning

Warning: 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.

This device complies with Part 15 of the FCC Rules. 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.

Note: 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 the 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 technician for help

The term "IC:" before the radio certification number only signifies that Industry Canada technical specifications were met. 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.



()

To comply with "Fire Listed" doors, the batteries must be replaced with alkaline batteries only.



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

2

2) General Description

۲

The Corbin Russwin[®] IN100 mortise lock with Aperio[™] Technology makes it easy and cost-effective to bring access control to more doors. It uses local wireless communication between the lock and an Aperio hub to connect to an access control system, eliminating the greatest cost and inconvenience of traditional access control – the wiring at the door. The IN100 utilizes HID[®] 125 kHz prox or 13.56 MHz iCLASS[®] smart card technology, and all technology features are supported by the physical security of Corbin Russwin ANSI/BHMA Grade 1 hardware.

This product is operated by six (6) "AA" alkaline batteries. Corbin Russwin mortise locks are designed with quality components to provide high security, performance and durability.

3) Specifications / Features

Hardware Specifications

- Latch Stainless Steel (Easily field reversible without disassembling lock body)
- Deadbolt Stainless Steel
- Auxiliary Latch Stainless steel, non-handed
- Door Thickness 1-3/4" Standard; can be furnished for other door thicknesses upon request. Consult factory.
- Case 12 gauge heavy duty wrought steel

Electronic Specifications

۲

- Input Power: DC 9V, 1.5A (6 AA alkaline batteries)
- Optional hard-power 12VDC to 24VDC
- HID[®] multiCLASS SE[®] technology offers support for the following credentials:
 - High Frequency (13.56 MHz):
 - HID iCLASS[®]
 - HID iCLASS SE® (SIO-enabled)
 - HID iCLASS[®] Seos[™]
 - HID MIFARE[®] SE
 - HID DESfire[®] EV1 SE
 - MIFARE Classic
 - DESfire EV1
 - Low Frequency (125 kHz):
 - HID Prox[®]
 - NFC-enabled Mobile Phones

- Outside lever controlled by reader or key retracts latch
- Inside Lever produces REX (request to exit) signal and retracts latch and deadbolt*
- UL fire listed
- May be used for both indoor and exterior applications

ASSA ABLOY

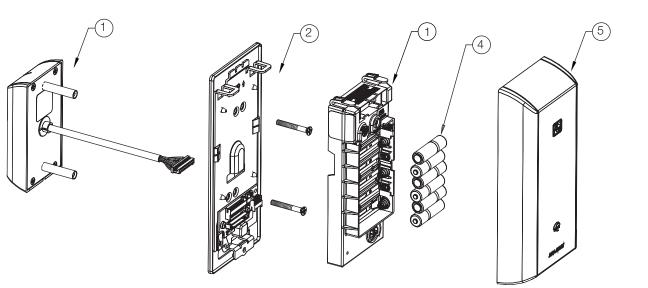
- A weather-protective gasket is required for exterior applications
- Uses low-rate wireless personal area networks (IEEE 802.14.4)
- Multiple time zone and holiday access scheduling
- First-in unlock or automatic unlock configuration, based on specified time schedule
- Uses AES 128-bit wireless encryption**
- Privacy button

**For specific security information, please contact your local ASSA ABLOY Door Security Solutions sales consultant or call 800-810-WIRE.

3

4) Product Illustrations

۲



| ITEM | PART NUMBER/ORDER STRING | DESCRIPTION | COLOR/TRIM | QTY |
|------|---|---|-----------------------|-----|
| 1 | IN-100-EM01[locktype]*-IP-B | -100-EM01[locktype]*-IP-B HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones | | 1 |
| | IN-100-EM01[locktype]*-IP-W | HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones | White | 1 |
| | IN-100-EM01[locktype]*-IP-MB-[finish]** | HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones | Black with metal trim | 1 |
| | IN-100-EM01[locktype]*-IP-MW-[finish]** | HID iCLASS®, HID iCLASS SE® (SIO-enabled), HID iCLASS® Seos™, HID MIFARE® SE, HID DESfire® EV1 SE, HID Prox®, NFC-enabled mobile phones | White with metal trim | 1 |
| | IN-100-EM01[locktype]*-IPS-B | All credentials supported by the IP option plus MIFARE Classic and DESfire EV1 | Black | 1 |
| | IN-100-EM01[locktype]*-IPS-W | All credentials supported by the IP option plus MIFARE Classic and DESfire EV1 | White | 1 |
| | IN-100-EM01[locktype]-IPS-MB-[finish]** | All credentials supported by the IP option plus MIFARE Classic and DESfire EV1 | Black with metal trim | 1 |
| | IN-100-EM01[locktype]-IPS-MW-[finish]** | All credentials supported by the IP option plus MIFARE Classic and DESfire EV1 | White with metal trim | 1 |
| 2 | 782F718 | Inside Mounting Kit (mounting plate & hardware) | | 1 |
| 3 | N/A | AA battery | | 6 |
| 4 | 820F489 | Inside Escutcheon | Black | 1 |
| | 820F499 | Inside Escutcheon | White |] |
| | 820F525 FIN* | Inside Escutcheon | Black with metal trim |] |
| | 820F535 FIN* | Inside Escutcheon | White with metal trim | |
| 5 | FM355 | Field prep template (not shown) | | 1 |
| 6 | T31202 | Door manufacturers template (not shown) | | 1 |
| | FM403 | Instructions (this manual) | | 1 |

* ML20133/36 (example: IN-100-EM01ML20136-IP-B)

** Specify finish

۲

Corbin

ASSA ABLOY

۲

۲

۲



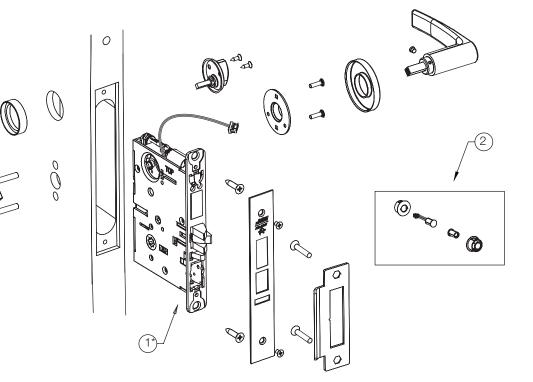
۲

4) Product Illustrations (Continued)

۲

Tools Required:

- Phillips Screw Driver #2, #3
- Flat Blade Screw Driver (Standard size)
- 1/8" Security Allen Wrench (supplied
- 7/64" Allen Wrench (supplied)



| ſ | 1 | 784F848[handing]*26D | ML20133/ML20134 Lock Case (No Deadbolt)** | 1 |
|---|---|----------------------|---|---|
| | | 784F858[handing]*26D | ML20135/ML20136 Lock Case (With Deadbolt)** | |
| Γ | 2 | 820F609 | DPS (Door Position Switch) Kit | 1 |

*Replace with handing (L, LR, R, RR)

**Escape return functionality is not available with the IN100 ML201xx mortise lock.

For parts not listed, refer to ML2000 Parts and Service Manual

۲

5) Installation Instructions

Corbin

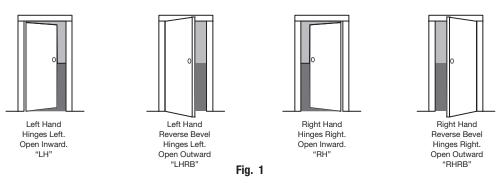
ASSA ABLOY

۲

۲

1. Verify Hand and Bevel of door

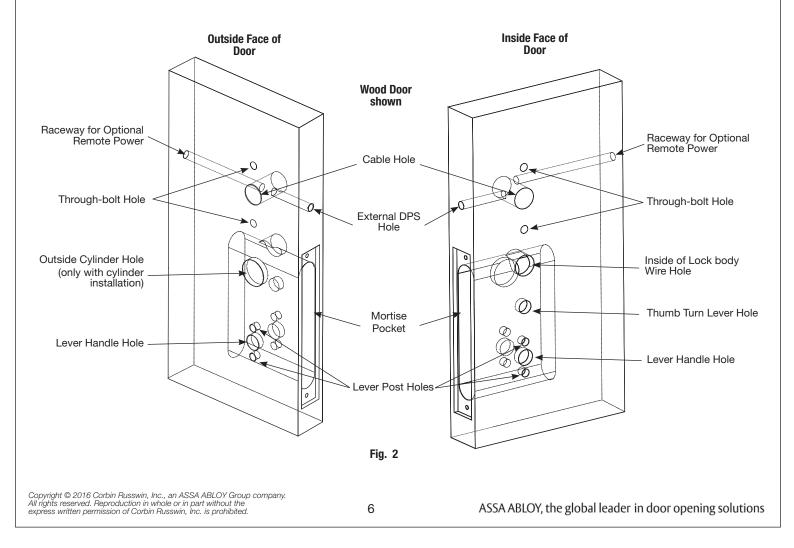
Illustrations shown are as viewed from the outside or secure side of opening.



2. Door Preparation

۲

Prep door according to supplied door marker (FM355). For door manufacturer templates visit **www.corbinrusswin.com** and reference template # T31202.



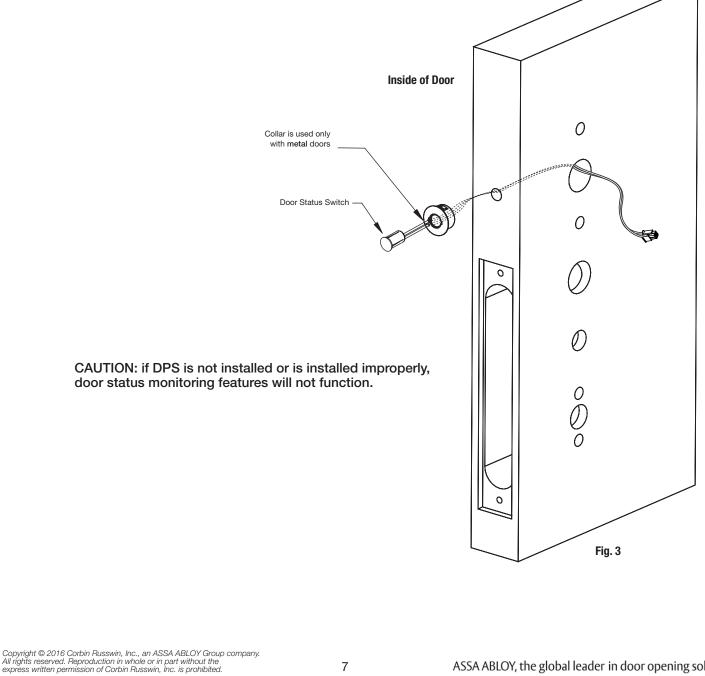
IN100 Mortise Lock 5) Installation Instructions (Continued)

Install Door Position Switch (DPS) 3.

- a. Push wires through raceway toward lock prep.
- b. Push DPS firmly into place by hand. Note: DO NOT TAP SWITCH WITH ANY TOOL.
- c. Install magnet into door frame. Push firmly into place by hand. See instruction A7983.

*Only required on the ML201xx lock body (ML202xx has an integrated DPS)

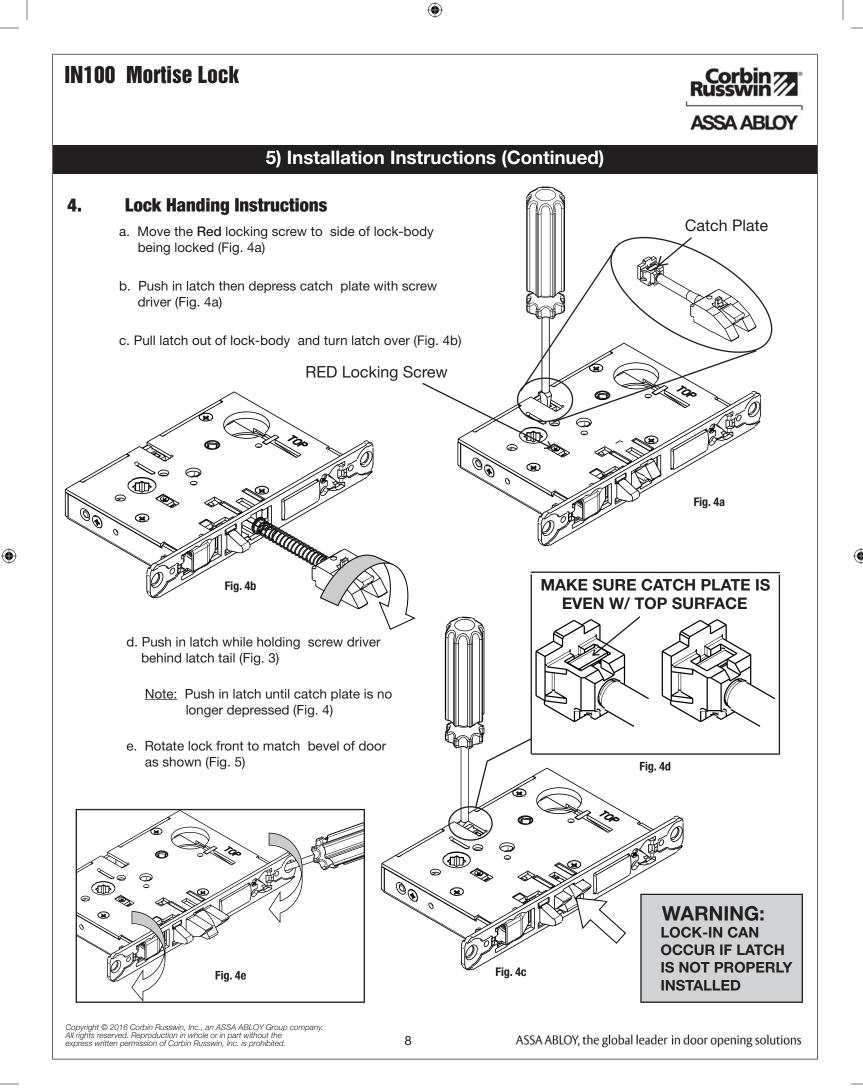
۲



۲

Corbin

ASSA ABLOY



۲

6.



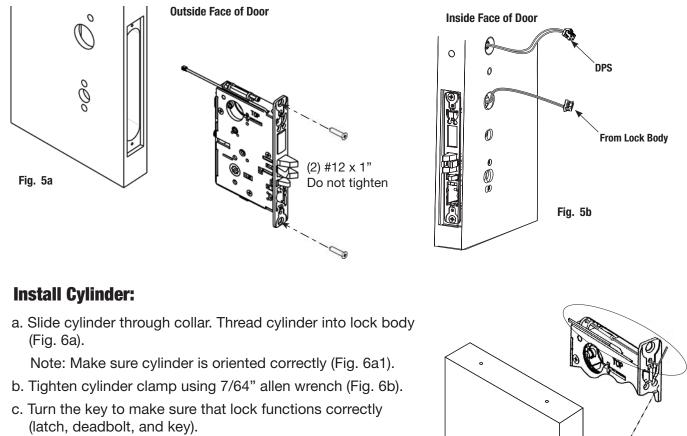
(

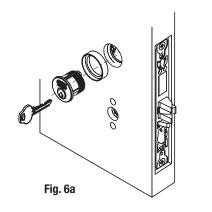
5) Installation Instructions (Continued)

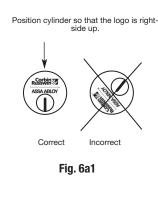
۲

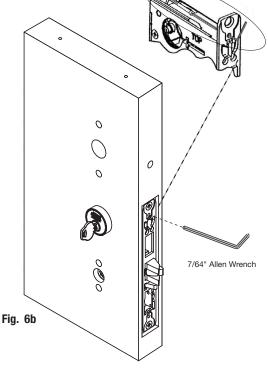
5. Install Lock Body in Door:

- 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 lock body. DO NOT push wires back into cylinder hole (Fig. 5b). Important: Door must remain open during installation. Use door stop.
- c. Install, but do not tighten two #12 x 1" combination screws through lock body (Fig. 5a).





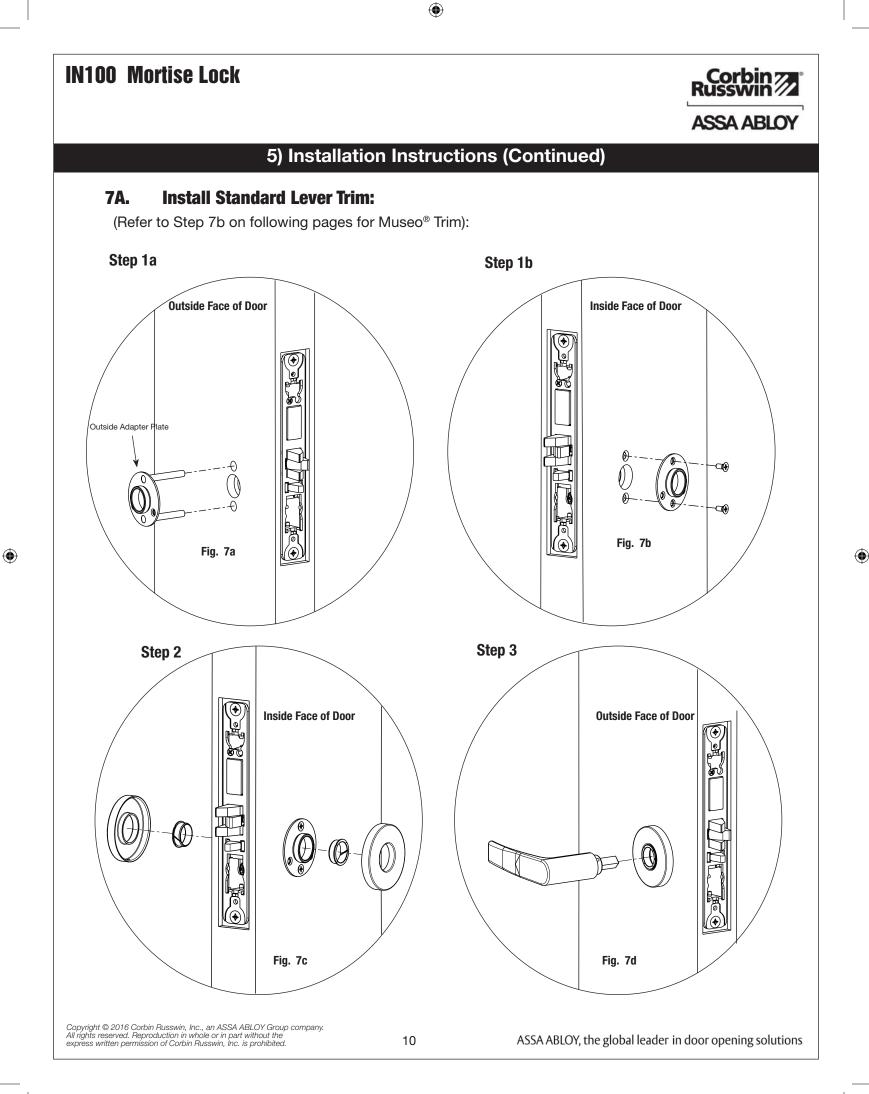




Copyright © 2016 Corbin Russwin, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Corbin Russwin, Inc. is prohibited.

9

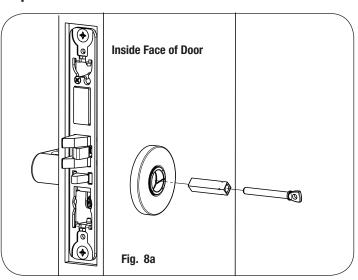
ASSA ABLOY, the global leader in door opening solutions

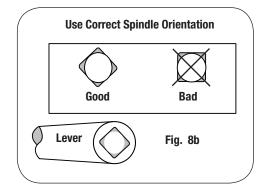




۲

Step 4



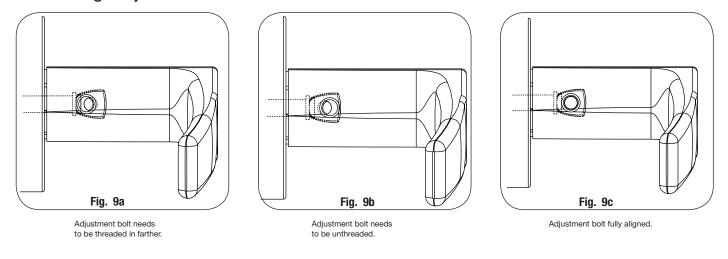


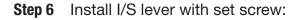
Corbinz

ASSA ABLOY

۲

Align adjustment bolt with threaded hole in lever Step 5

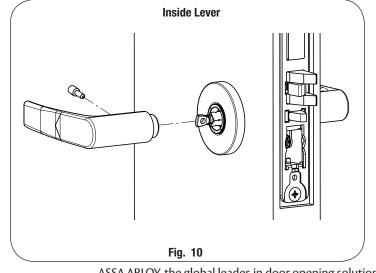




Notes:

۲

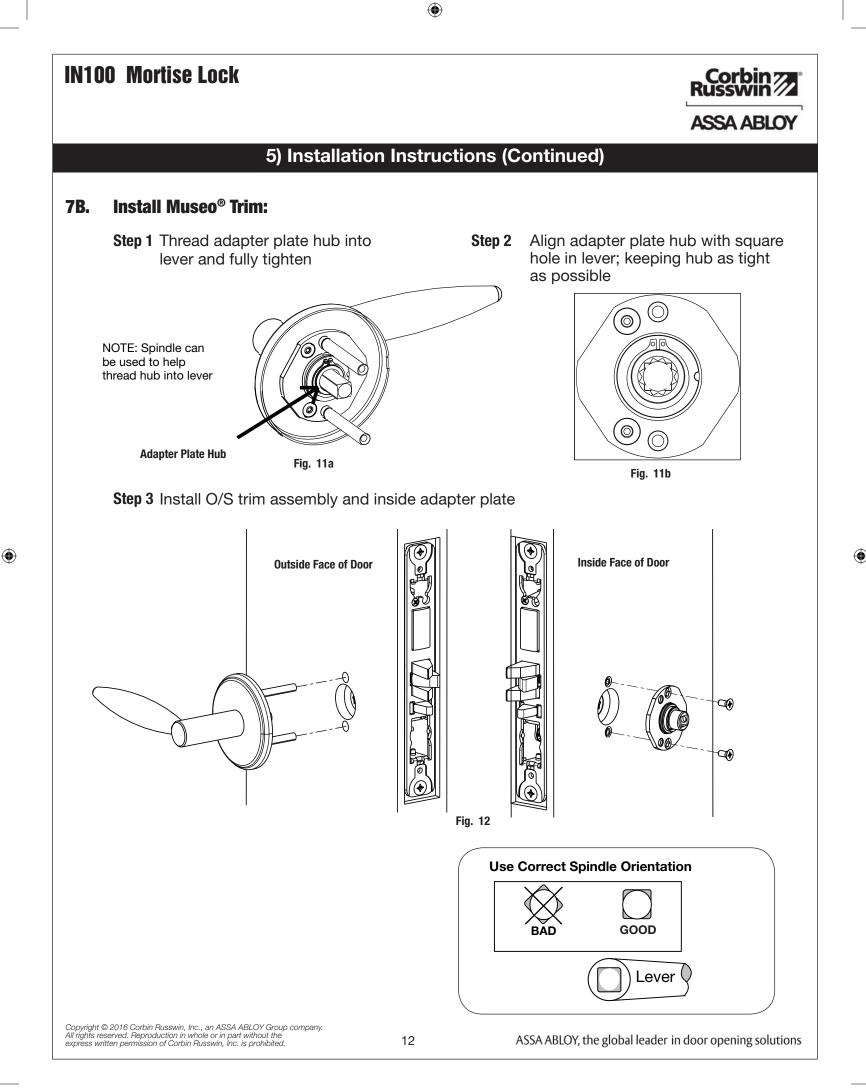
- Unthread adjustment bolt approximately four turns • for a good starting point (after being fully tightened).
- Make sure O/S lever is fully inserted into adapter plate before aligning adjustment bolt.



Copyright © 2016 Corbin Russwin, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Corbin Russwin, Inc. is prohibited.

11

ASSA ABLOY, the global leader in door opening solutions



(

5) Installation Instructions (Continued)

۲

Step 4 Install Spindle and Rose:

a. Align studs on rose with bushings in adapter plate.

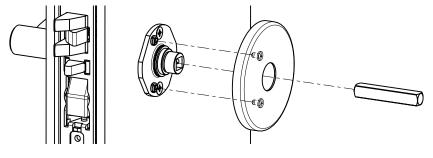
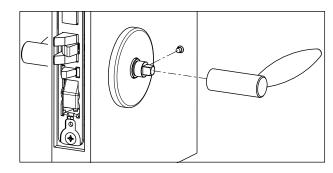


Fig. 13a

Step 5 Install I/S lever with set screw:



Corbin

ASSA ABLOY

(

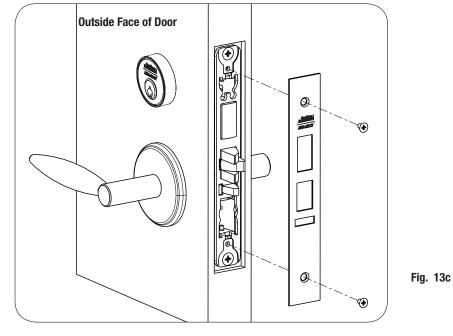
Fig. 13b

Step 6 Install Armored Front:

۲

a. Tighten (2) screws through lock body.

b. Attach armored front with two #8 x 1/4" screws (Fig. 13c).



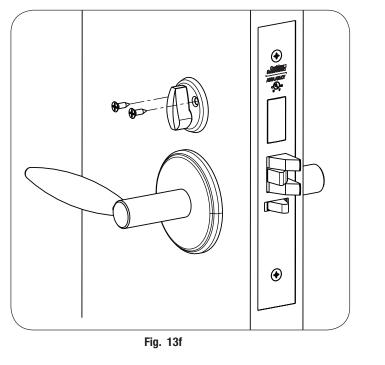
Copyright © 2016 Corbin Russwin, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Corbin Russwin, Inc. is prohibited.

ASSA ABLOY, the global leader in door opening solutions

۲

IN100 Mortise Lock Corbin ASSA ABLOY 5) Installation Instructions (Continued) **Install Turn Piece:** 8. Step 1 Step 2 \square ۲ Fig. 13d Fig. 13e Step 3

۲



Copyright © 2016 Corbin Russwin, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Corbin Russwin, Inc. is prohibited.

۲

14

۲

ASSA ABLOY, the global leader in door opening solutions

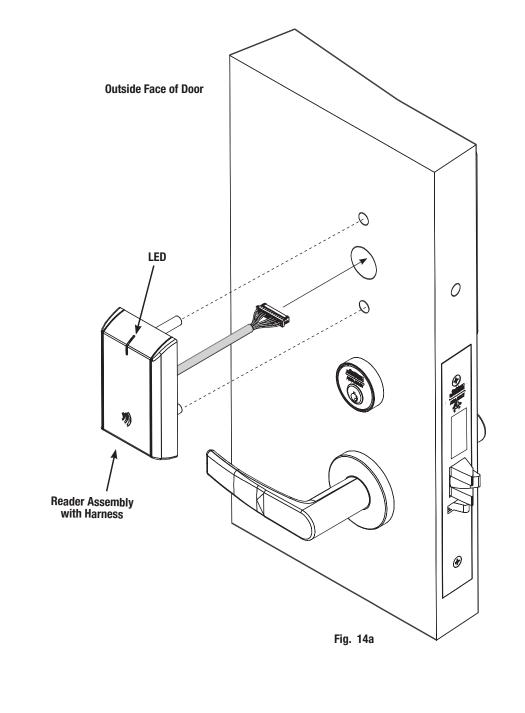
۲

5) Installation Instructions (Continued)

۲

9. Install Outside Reader and Inside Mounting Plate:

- a. Orient the reader so the LED lens is at the top.
- b. Feed the reader harness through the door (from outside to inside).
- c. Install the reader to the outside of door by aligning the mounting posts with the door preparation holes. Hold the reader flush against door while ensuring proper alignment.

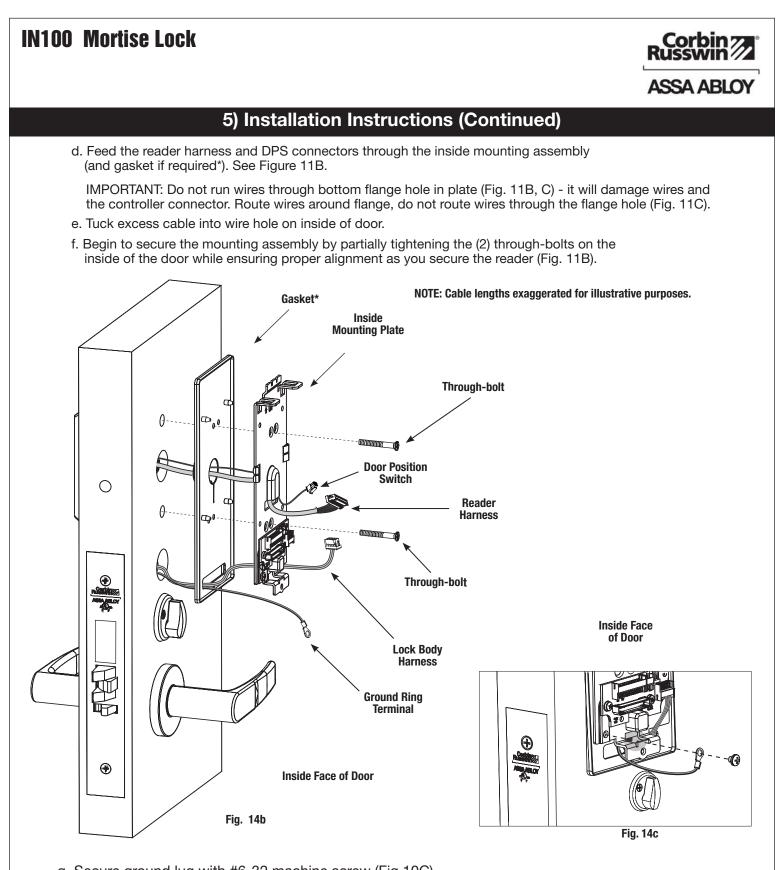


Corbin

ASSA ABLOY

۲

۲



g. Secure ground lug with #6-32 machine screw (Fig.10C).

*Gasket is required for outdoor installations. Do not use gasket for fire-rated openings.

If installing with gasket; separate gasket from mounting plate to feed cables/connectors through holes as indicated (Fig. 14c).

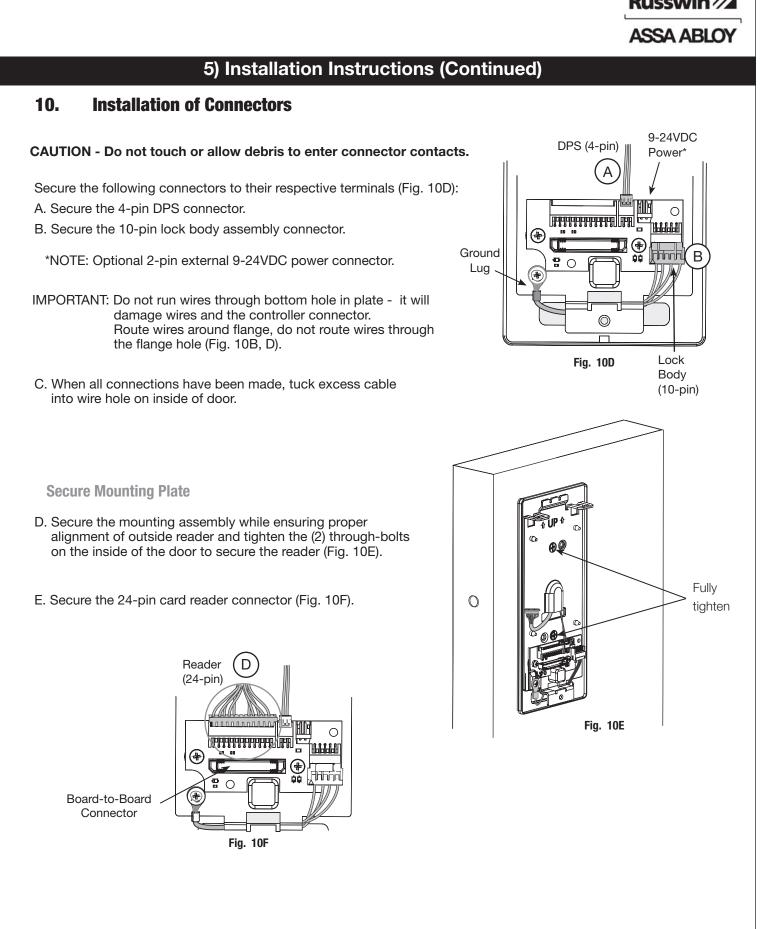
Once cables/connectors are fed through, reattach gasket to mounting plate.

۲

ASSA ABLOY, the global leader in door opening solutions

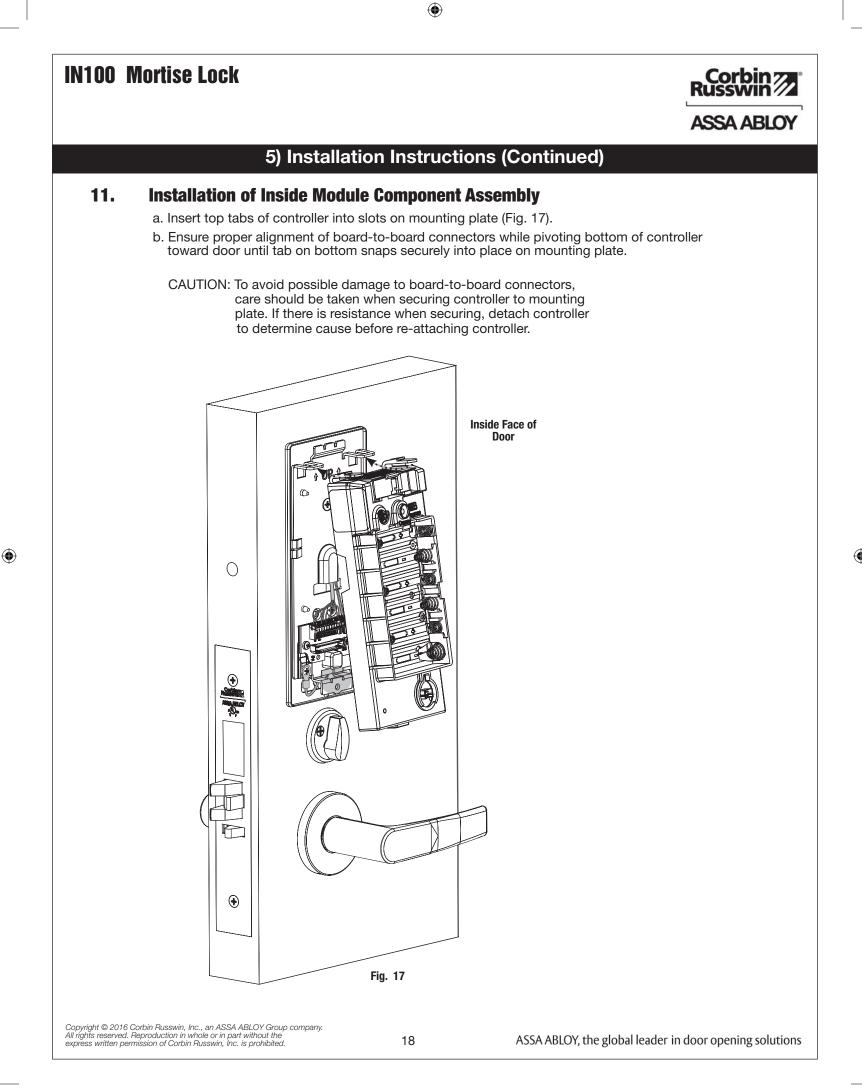
۲

۲



۲

Copyright © 2016 Corbin Russwin, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Corbin Russwin, Inc. is prohibited.



۲



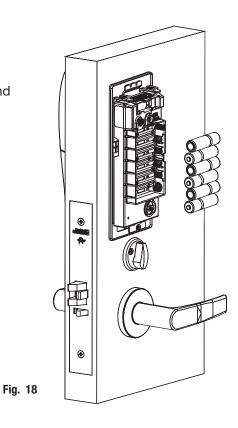
۲

5) Installation Instructions (Continued)

۲

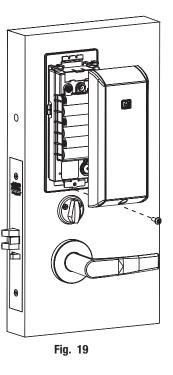
12. Installing Batteries

- a. Place (6) "AA" alkaline batteries in the compartment, being careful to align polarity properly (Fig. 18).
- b. After batteries are installed, there is a slight delay; then red and green flash, audible "beep" and lock motor will cycle.



13. Inside Cover Installation

- a. Assemble cover by hooking top edge on inside mounting plate.
- b. Carefully press bottom of cover toward door with out pinching or damaging any wires.
- c. Fully secure cover by tightening the security screw at bottom of cover (Fig.19), utilizing a security allen wrench.



Copyright © 2016 Corbin Russwin, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Corbin Russwin, Inc. is prohibited.

19

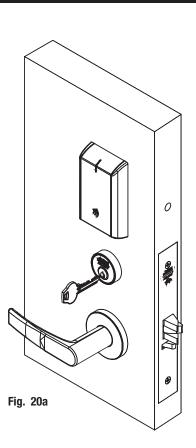
۲

6) Operational Check

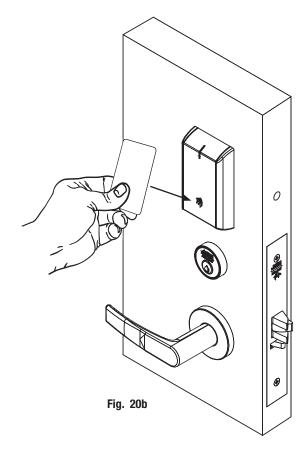
۲

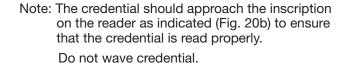
When lock is fully installed, perform the following steps:

- a. Insert key into cylinder and rotate (Fig. 20a).
- b. There should be no friction against lock case, wire harness or any other obstructions.
- c. Check that the key retracts the latch.
- d. The key should rotate freely.
- e. Try the inside lever; ensure it retracts latch.
- f. Present a valid credential* (Fig. 20b) to unlock outside lever; turn lever handle to ensure latch retracts.

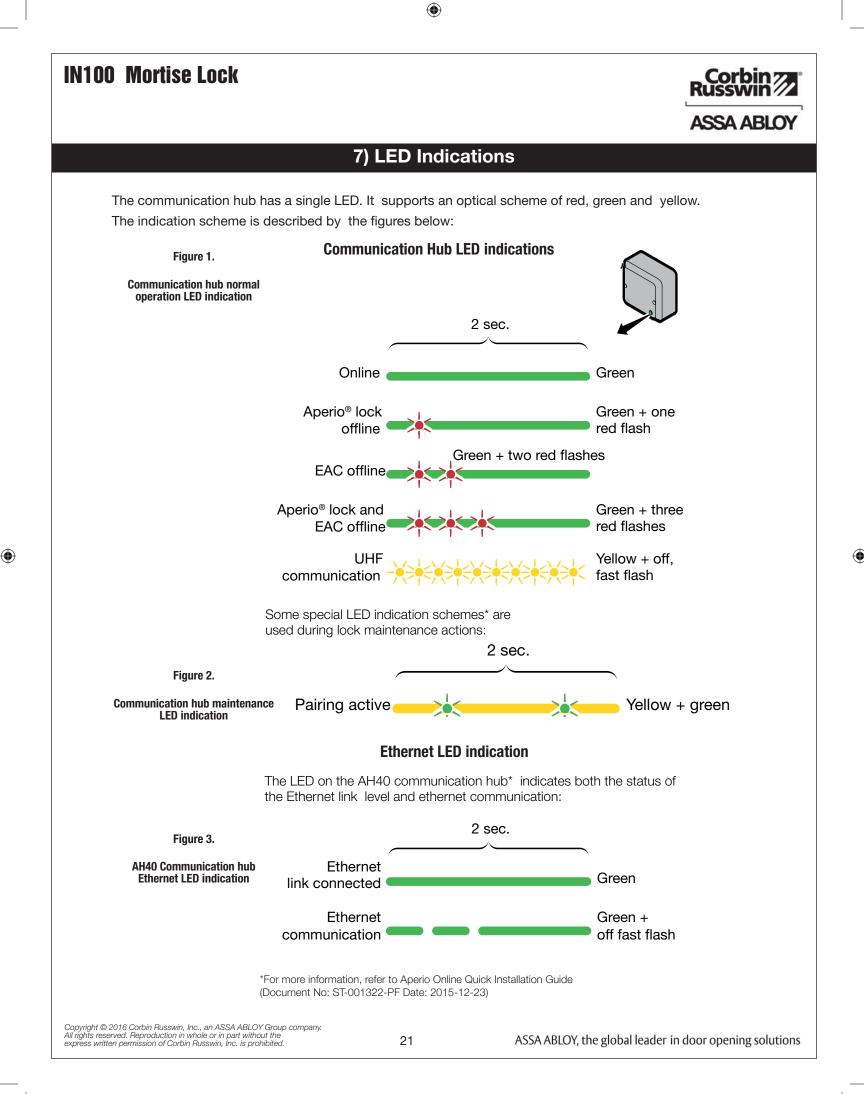


ASSA ABLOY





Copyright © 2016 Corbin Russwin, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Corbin Russwin, Inc. is prohibited.



۲

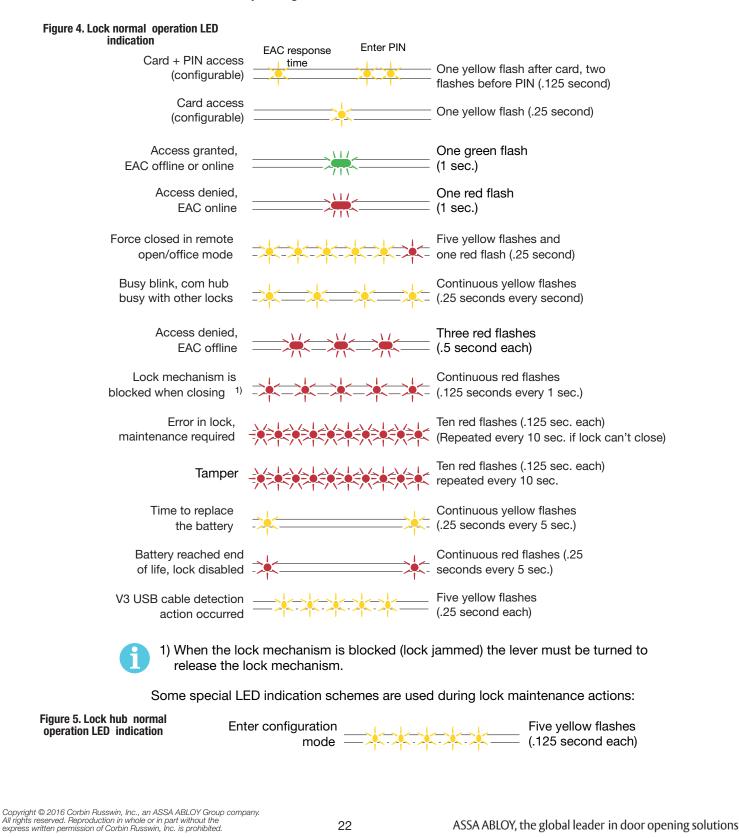
Corbin Russwin

۲

Lock LED indications

The lock has three LEDs. They support an optical scheme with red, yellow and green. The indication scheme is described by the figures below:

۲



| | e Lock | | | | Corbin 7 Russwin 7 |
|-----------|---|--|---|--|--------------------------|
| | | | | | ASSA ABLO |
| Lock Self | -Test LED indicatio | n | | | |
| | ing batteries, a Power on Se ed and green LED flashes a | · · · | | sult is indicated u | using |
| LED indic | ation after power up/rep | placement of the bat | tery | | |
| 8.3.1 | Battery not fully charged | ł | | | |
| rig | rror in lock is an indication - ght voltage or a backward b ot reset or no Power on self | pattery has been installe | | | |
| | Error in lock, maintenance required | ₩ | Ten red fla (Repeated | ashes (.125 sec. ea d every 10 sec. if lo | ach) ock can't close) |
| 8.3.2 | Test pass | | | | |
| | 1 red (1s) + 1 green (1s), Po | ower on self-test passed | l, see table b | elow. | |
| | | | One red, or (1 second) | | |
| 8.3.3 | Test fail | | (| | |
| | Test fail 1 red (1s) + 3 blinks (500) | ms, green or red), at l | | st failed (red), s | see table below. |
| | | d the lock will enter ar | east one tes | | |
| | 1 red (1s) + 3 blinks (500) If a fatal error is detected | d the lock will enter ar | east one tes n Error state | e and continuou | |
| | 1 red (1s) + 3 blinks (500) If a fatal error is detected error and will not read ca | d the lock will enter ar ards nor unlock. | east one tes n Error state 0.5 sec | e and continuou 0.5 sec | usly indicating fatal |
| | 1 red (1s) + 3 blinks (500) If a fatal error is detected error and will not read ca FATAL ERROR | d the lock will enter ar ards nor unlock. 1 sec 0.5 sec | east one tes Error state 0.5 sec | e and continuou 0.5 sec | usly indicating fatal |
| | 1 red (1s) + 3 blinks (500) If a fatal error is detected error and will not read ca FATAL ERROR | d the lock will enter an ards nor unlock. 1 sec 0.5 sec | east one tes n Error state 0.5 sec | e and continuou | usly indicating fatal |
| | 1 red (1s) + 3 blinks (500) If a fatal error is detected error and will not read ca FATAL ERROR | d the lock will enter an ards nor unlock. 1 sec 0.5 sec | east one test n Error state 0.5 sec | and continuou | usly indicating fatal |
| | 1 red (1s) + 3 blinks (500) If a fatal error is detected error and will not read ca FATAL ERROR CABLE ERROR MECHANICAL ERROR | the lock will enter and ards nor unlock. 1 sec 0.5 sec 1 sec 0.5 sec | east one test n Error state 0.5 sec | e and continuou 0.5 sec | usly indicating fatal |

Copyright © 2016 Corbin Russwin, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Corbin Russwin, Inc. is prohibited.

۲

۲





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

۲

Copyright © 2016 Corbin Russwin, Inc., an ASSA ABLOY Group company. All rights reserved. Reproduction in whole or in part without the express written permission of Corbin Russwin, Inc. is prohibited.

۲