Installation Instructions





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 installation assistance contact Corbin Russwin 1-800-810-9473 • techsupport.corbinrusswin@assaabloy.com

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IN120 & IN220 Series PED5000 Series **Exit Devices**

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1

Warning

Changes or modifications to this device not expressly approved by ASSA ABLOY 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.

Innovation, Science and Economic Development Canada:

Under Innovation, Science and Economic Development 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'Innovation, Sciences et Développement économique 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.

General Regulatory Compliance:

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Ce dispositif contient des émetteurs/réceptuers exemptés de licence conformes aux RSS d'Innovation, Sciences et Développment économique Canada. L'opération est sujette aux deux conditions suivantes: (1) ce dispositif peut ne pas causer l'interférence, et (2) ce dispositif doit accepter n'importe quelle interférence reçue, y compris l'interférence qui peut causer l'opération peu désirée a le dispositif.

This equipment complies with FCC and IC radiation exposure limits set forth for general population (uncontrolled environment). This device 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 et IC définies pour la population générale (environnement non contrôlé). Cet appareil ne doit pas être co-localisé ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.



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 SARGENT Manufacturing 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.

3

- Leave components (reader and controller) protected in their respective anti-static bags until ready for installation
- Do not touch pins, leads or solder connections on the circuit boards

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2

Regulatory and Power Specifications

Electronic Authentication Specifications (Mobile Credentials)

For Mobile Credential-Enabled versions of this electronic lock (Indicated by the credential code in the product order string):

- Mobile Credentials are transmitted to the lock via Bluetooth Smart or NFC ISO/IEC14443 and must use a mobile device enabled with these technologies.
- Credential and mobile device versions are specified by the credential provider.
- User must acquire the latest HID "Mobile Access" application available from Apple iStore or Android PlayStore.

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

Compliance with IEEE 802.3 (at or af) specifications was not verified as part of UL 294/B.

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.

- UL Listed UL 294 Indoor Use
- CUL Listed ULC-60839-11-1, Grade 1
- UL 294 Access Control Ratings:

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

Power Supply Specifications

IN120 (Wi-Fi version):



- Battery Power:
 - Alkaline AA Batteries (6): 9V, 300mA

(To comply with "Fire Listed" doors, batteries must be replaced with alkaline batteries only)

Optional Hard Power (UL 294 Listed Power Supply Required):
 9-24VDC, 300mA
 CAUTION: When using Hard Power, DO NOT install batteries.
 CAUTION: Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

IN220 (PoE version):

• Power over Ethernet:

Use UL 294 Listed, PoE Injector or Class 2 power limited power supply (55VDC, 90mA)

• UL testing was conducted on product powered by UL listed model POE20U-560(G) PoE Injector, manufactured by Phihong

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.

For specific security information, please contact your local ASSA ABLOY Door Security Solutions sales consultant or call 800-810-9473.

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Parts Illustrations IN120/IN220

Tools Required:

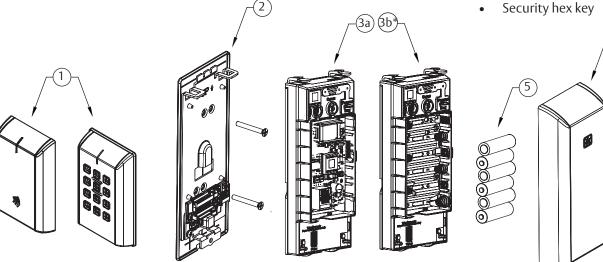
#2 Phillips screwdriver •

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- Flat head screwdriver
- Security hex key



ITEM No.	DESCRIPTION
1	Outside Escutcheon Assembly
2	Inside Mounting Plate Assembly (includes Gasket)
3a	PoE Controller Assembly
3b	Wi-Fi Controller Assembly* (batteries included)
4	Inside Escutcheon Assembly with Privacy Button
5	AA alkaline batteries (6)

See Parts Manual FM644 for part numbers



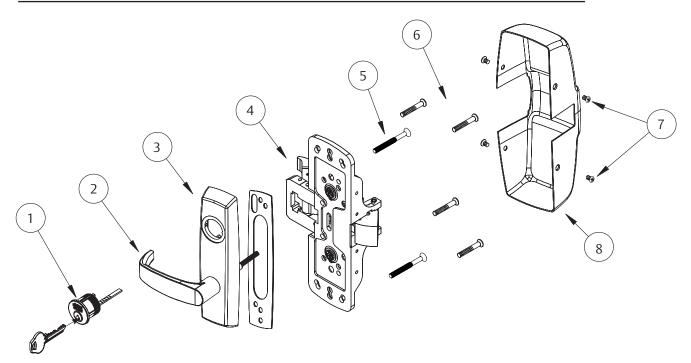
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IN120 & IN220 Series PED5000 Series Exit Devices

3

Parts Illustrations PED5200 Rim Exit Device

33 / 34 Function x Trim x Lever Design



ITEM	DESCRIPTION	REQ'D
1	Cylinder Assembly (Reference Catalog for Available Cylinders)	1
2	Lever (Reference Catalog for Available Styles)	1
3	Exit Trim With Cylinder	1
	Exit Trim Without Cylinder]
	Motor Assembly (Separate - not shown)	1
4	Chassis Assembly	1
	Chassis Assembly (Fire Rated)	
	Chassis Assembly (Latch Guarding)	
	Chassis Assembly (Fire Rated Latch Guarding)	1
5	Trim Screws 1/4-20 x 2-3/8"	2
6	Chassis Screw Pack	1
	#10 x 1-1/4"	4
	#10-24 x 3/4"	4
7	Cover Screw pack	1
	#8-32 x 5/16"	2
	#8-32 x 5/8" (rail side)	2
8	Chassis Cover	1
	Chassis Cover (With Guarding)	1

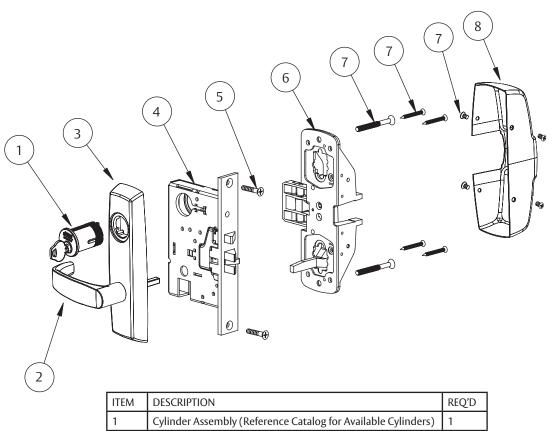
See Parts Manual FM644 for part numbers

3



Parts Illustrations PED5600 Mortise Exit Device

33 / 34 Function x Trim x Lever Design



ITEM	DESCRIPTION	REQ'D
1	Cylinder Assembly (Reference Catalog for Available Cylinders)	1
2	Lever (Reference Catalog for Available Styles)	1
3	Exit Trim With Cylinder	1
	Exit Trim Without Cylinder	
	Motor Assembly (Separate - not shown)	
4	Lock Body Assembly LHR	1
	Lock Body Assembly RHR]
	Lock Body Assembly LHR (Non-Beveled Door)	
	Lock Body Assembly RHR (Non-Beveled Door)]
5	Screw Pack	1
6	Chassis Assembly LHR	1
	Chassis Assembly RHR]
7	Screw Pack	1
8	Chassis Cover	1

7

See Parts Manual FM644 for part numbers



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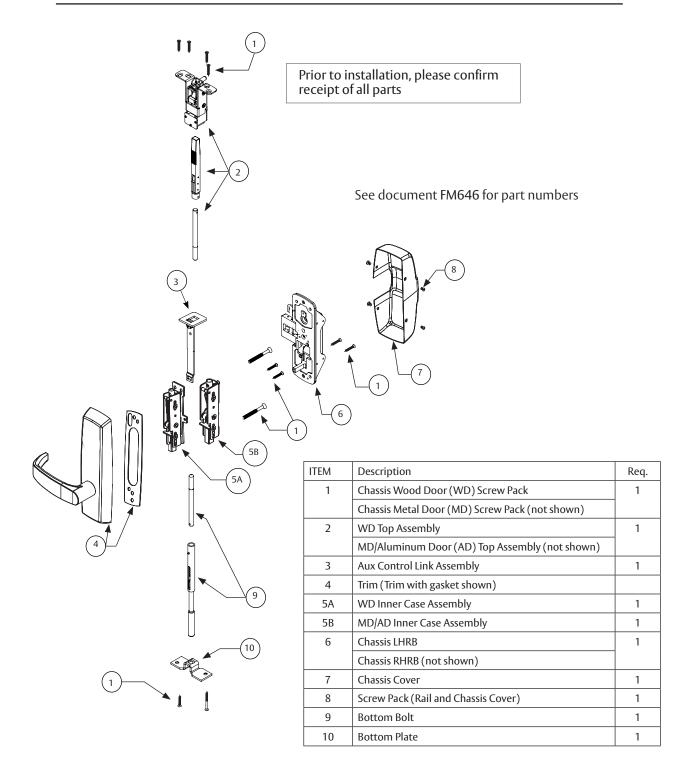
3

IN120 & IN220 Series PED5000 Series Exit Devices

Parts Illustrations PED5800 CVR Exit Device

PED5800 Concealed Vertical Rod (CVR) Exit Device

33 Function



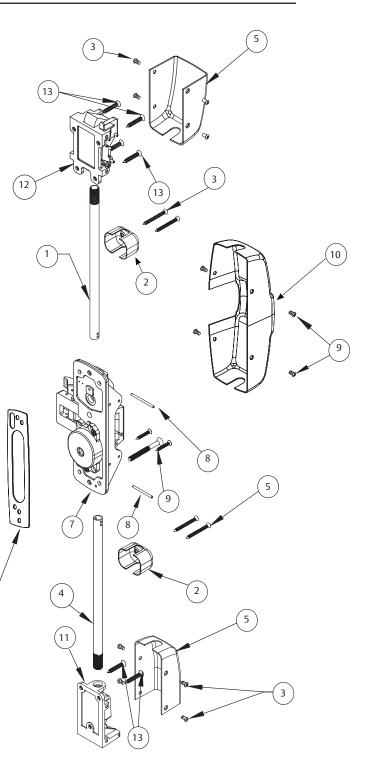


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Parts Illustrations PED5400 SVR Exit Device

PED5400 Surface Vertical Rod (SVR) Exit Device 33 Function

1	Top Rod (consult factory)	1
2	Guide for Rod	2
3	Screw Pack for Guide and Covers	2
4	Bottom Rod (consult factory)	1
5	Case Assembly Cover	2
6	Trim (Trim with gasket shown)	1
7	Chassis Assembly LHRB	1
	Chassis Assembly RHRB	
8	Rod Adjustment Pin	2
9	Screw Pack "B"	1
	Screw Pack "A"	
10	Chassis Cover	1
11	Bottom Case Assembly	1
12	Top Case Assembly	1
13	Screw Pack (Top and Bottom Cases)	1



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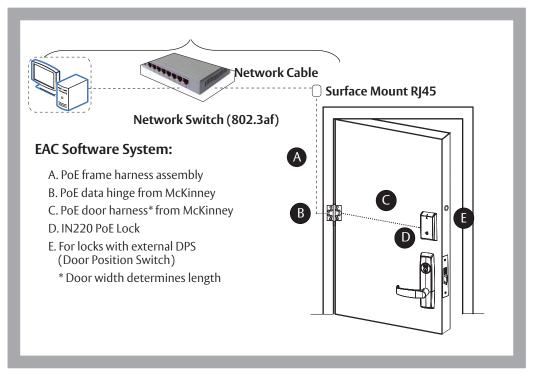




IN220 (PoE) Installation Wiring

Overview

Corbin Russwin IN220 PoE Typical Application

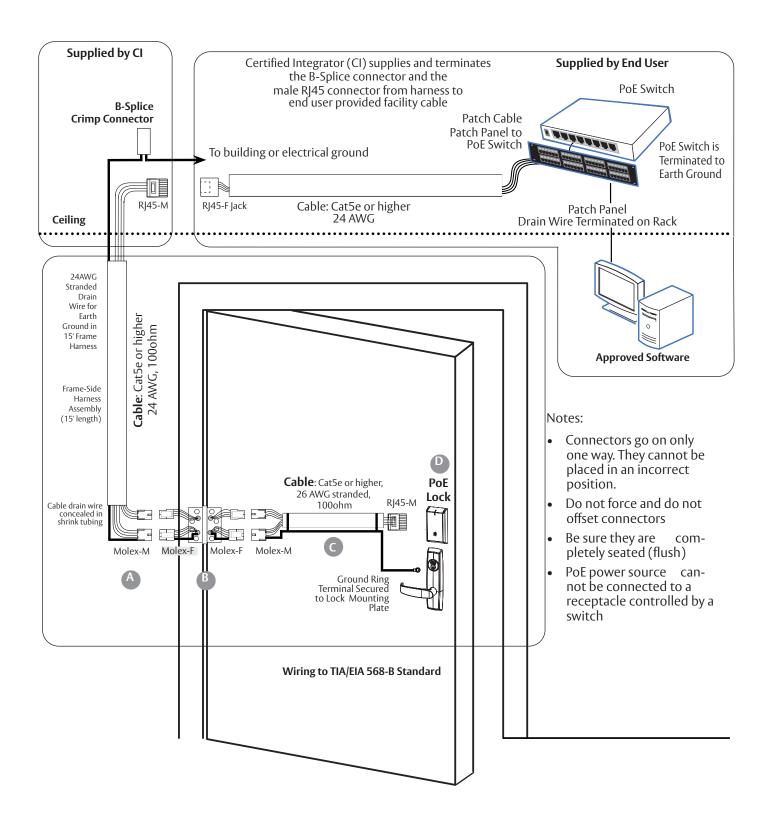


"Wiring methods shall be in accordance with the National Electrical Code (ANSI/NFPA70), CSA 22.1, Canadian Electrical Code (CEC), Part I, Safety Standard for Electrical Installations, local codes, and the authorities having jurisdiction."

Corbin Russwin

4

IN220 (PoE) Installation Wiring (Continued)



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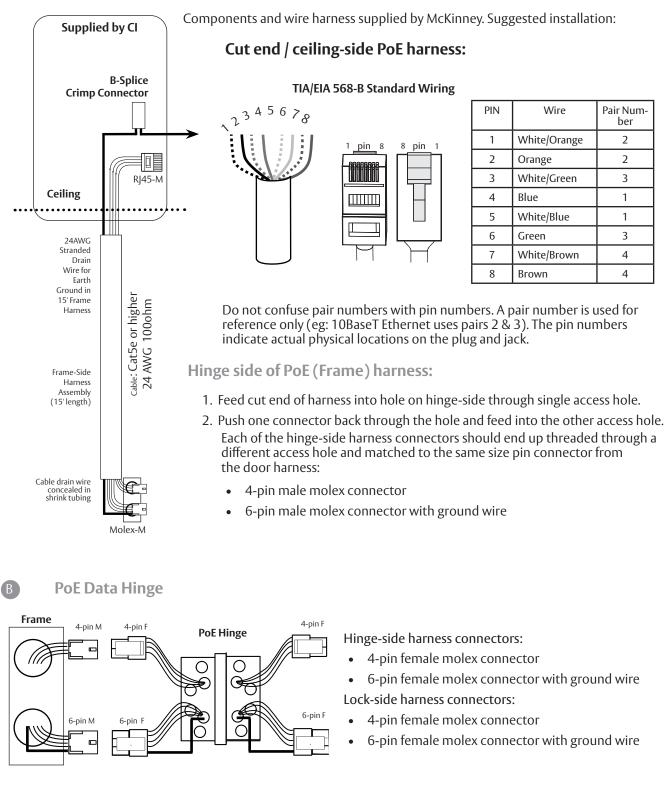
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IN220 (PoE) Installation Wiring (Continued)

Frame Harness Installation



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IN220 (PoE) Installation Wiring (Continued)

PoE Door Harness

Order of installation may vary. Refer to appropriate sections for instructions. Hinge-side harness connectors:

- 4-pin male Molex connector
- 6-pin male Molex connector with ground wire

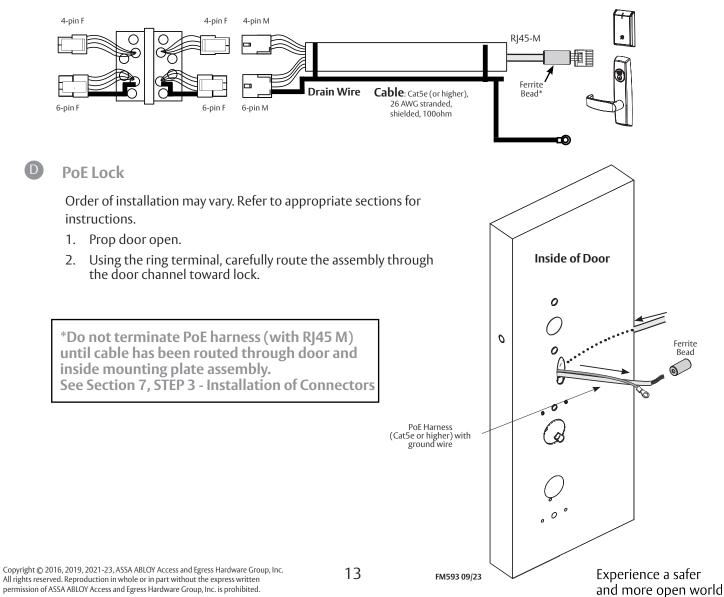
Lock-side harness connectors:

- Ring terminal
- Male RJ45 connector (crimped after cable is fed through door)

Notes:

- Connectors go on only one way. They cannot be plugged to incorrect position.
- Do not force and do not offset connectors.
- Be sure they are completely seated (flush).







5

Installation Instructions PED5200 Rim Exit Device

1 Prepare Door

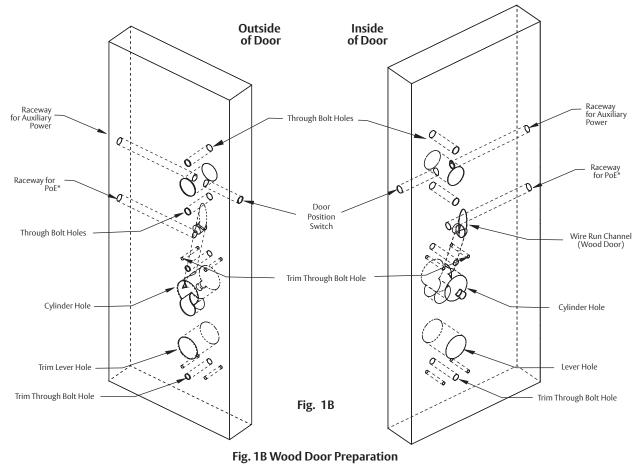
- A. Verify Hand and Bevel of Door
 - Check hand of door. The exit device is non-handed and the trim is field reversible.
 - Door should be fitted and hung.
 - **B. Verify Product Label**



Prior to installation, all holes must be free of burrs, debris and sharp edges.

Prepare door according to appropriate template (see website).

- Field Template (ships with product): MEFT18 (MEFT26 for EA option)
- Door Manufacturer's Template(online): MEDT53
- Exit Device Installation Instructions: FM577

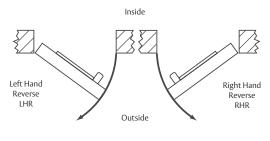


*IN220 (PoE) Wiring and Installation See Section 4

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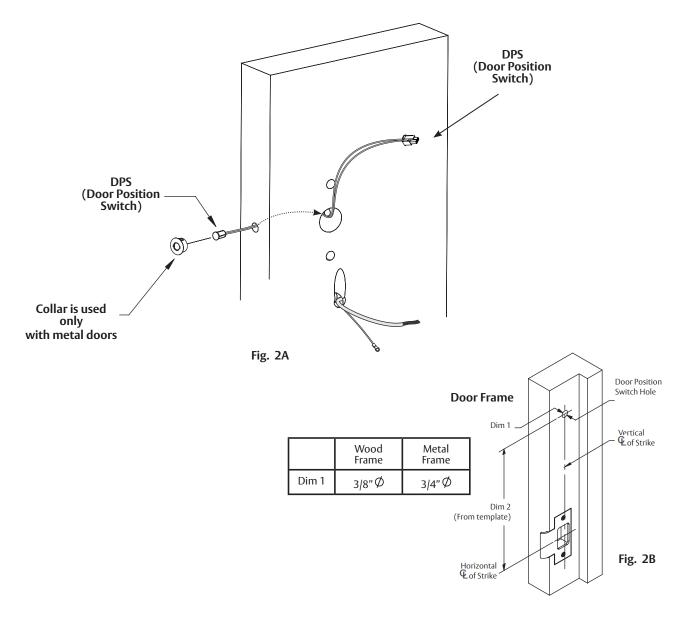
Installation Instructions PED5200 Rim Exit Device

2 Install Door Position Switch (DPS)

NOTE: Wood doors have 3/8" raceway to controller cutout and metal doors have 3/4" raceway to the controller cutout.

Refer to template (online): MEFT18 (MEFT26 for EA option)

- 1. Insert connector end of DPS through the raceway on the latch edge of the door (Fig. 2A). Note: For metal doors, use DPS Collar.
- 2. Push DPS firmly into place by hand. IMPORTANT: DO NOT TAP SWITCH WITH ANY TOOL.



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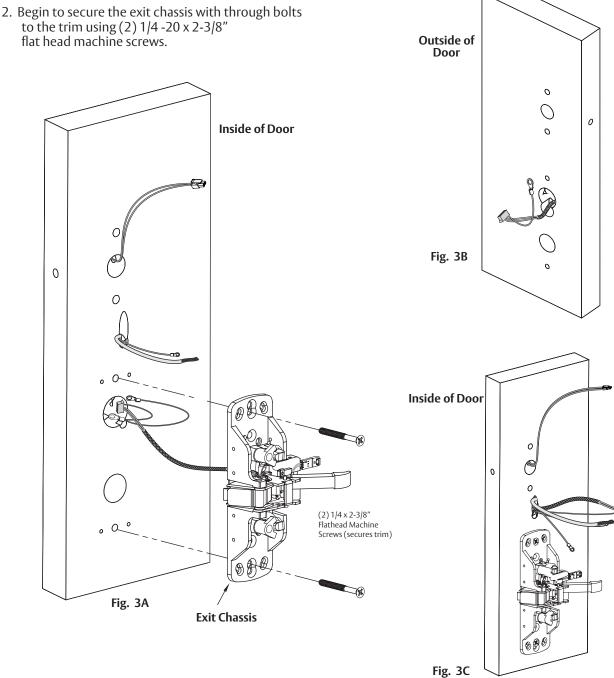
5

Installation Instructions PED5200 Rim Exit Device

3 Mount Exit Device Chassis

- NOTE: Exit chassis harness consists of a 6-pin female connector and two (2) different-sized ground wire terminals (Fig. 3A)
- 1. Feed 6-pin connector and larger ground lug straight through to outside of door (Fig. 3A, B) while feeding smaller ground lug into wire hole, up through wire channel and out through inside of door (Fig. 3C).

DO NOT PINCH THE WIRE HARNESS.



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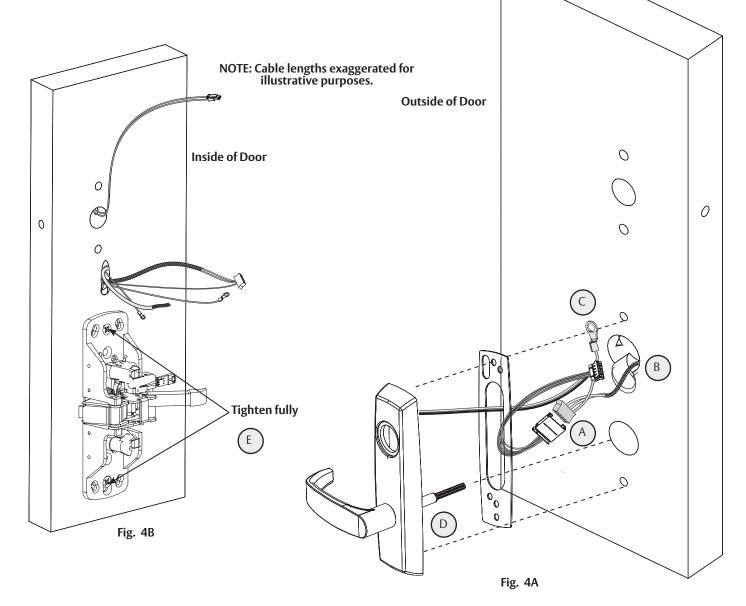
5

Installation Instructions PED5200 Rim Exit Device

4 Mount Exit Trim

NOTE: For exterior applications, use trim gasket (869F629 for 800PT Series trim or 869F639 for 900PT Series trim) to seal between trim escutcheon and outside door surface.

- A. Connect motor harness adapter to chassis harness connector (Fig. 4A).
- B. For wood doors: Route trim wire harness connector through the cylinder hole, up and through the wire run channel to the controller cutout.
 - For metal doors: Route trim wire harness through the cylinder hole out the controller cutout.
- C. Pass top trim mounting post through chassis harness ground lug.
- D. Ensure trim spindle engages the lower hub of the exit chassis.
- E. Fully tighten (2) chassis through bolts (Fig. 4B).



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IN120 & IN220 Series PED5000 Series Exit Devices

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Installation Instructions PED5200 Rim Exit Device

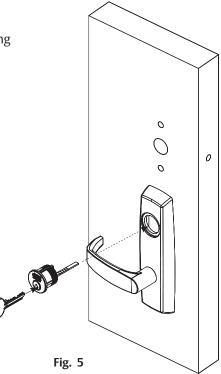
5 Install Rim Exit Cylinder

For devices without cylinder, go to Step 6.

1. While installing the rim cylinder, support the tail piece of the cylinder, verifying its engagement with the top hub of the exit chassis.

Note: Be sure 800PT / 900PT trim harness is clear of cylinder and tailpiece.

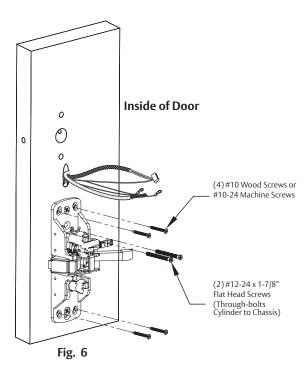
- 2. Secure the cylinder by through-bolting the cylinder through the exit chassis using (2)#12-24 x 1-7/8" connecting screws (see Fig. 6).
- 3. Verify that the key retracts latchbolt.



6 Secure Exit Chassis

To comply with UL certifications and for security:

Fasten exit chassis to door using (4) #10 wood screws (for wood door) or (4) #10-24 machine screws (for metal door).



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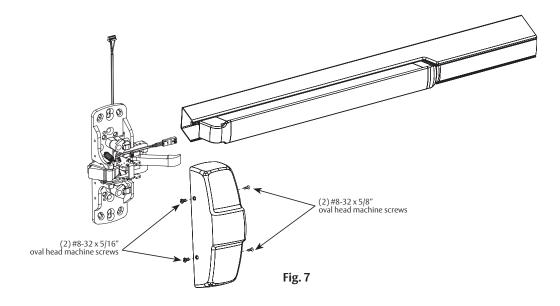


5

Installation Instructions PED5200 Rim Exit Device

7 Install Rail Assembly (Figure 7)

- a. Retrieve harness from end of rail. Harness has limited travel and can be damaged.
- b. Attach harness to female connector on chassis.
- c. Install rail and tighten chassis, trim, and cylinder screws. Attach end bracket per exit device instructions.
- d. Secure chassis cover to chassis using four (2) #8-32 x 5/16" and (2) #8-32 x 5/8" (rail side) oval head machine screws.



Important Note: IN120/220 Rim Exit Installation Continues With Section 9



6

Installation Instructions PED5600 Mortise Exit Device

1 Door Preparation

A. Verify Hand and Bevel of Door

• Check hand of door.

This exit device is handed and is not reversible.

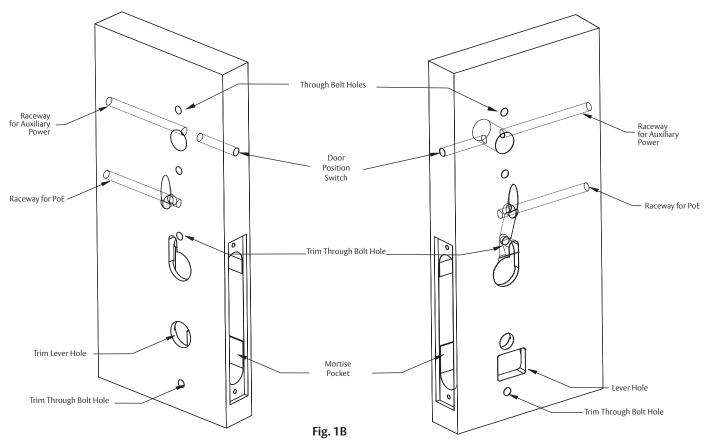
- Door should be fitted and hung.
- **B. Verify Product Label**

C. Prepare Door

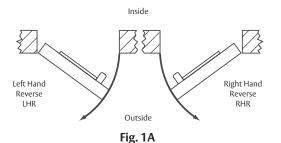
- 1. If using a mullion, install it prior to installing hardware.
- 2. Doors should be pre-prepped (recommended).
- 3. Prepare door according to appropriate template:
- Field template (ships with product): **MEFT18**
- Door manufacturers template (online): MEDT54
- Exit Device Installation Instructions: M580

Note: Instruction examples show wood door installation.

For metal doors, route cables inside door.



*IN220 (PoE) Wiring and Installation See Section 7





6

Installation Instructions PED5600 Mortise Exit Device

2 Install Door Position Switch (DPS)

Wood doors have 3/8" raceway to controller cutout and metal doors have 3/4" raceway to the controller cutout.

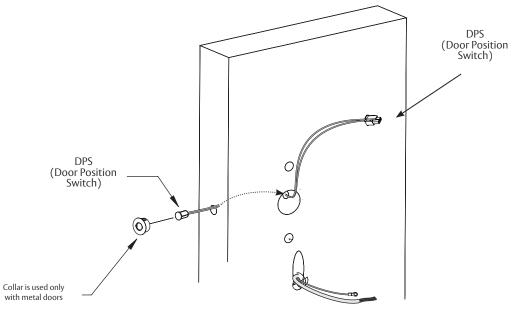
Refer to template MEFT18.

1. Insert connector end of DPS through the raceway on the latch edge of the door (Fig. 2A).

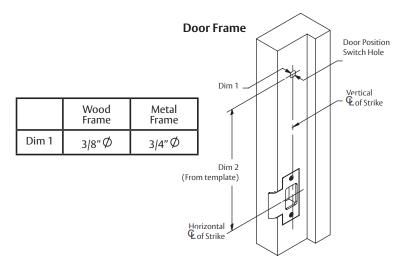
Note: For metal doors, use DPS Collar.

2. Push DPS firmly into place by hand.

IMPORTANT: DO NOT TAP SWITCH WITH ANY TOOL







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Chassis

6

Installation Instructions PED5600 Mortise Exit Device

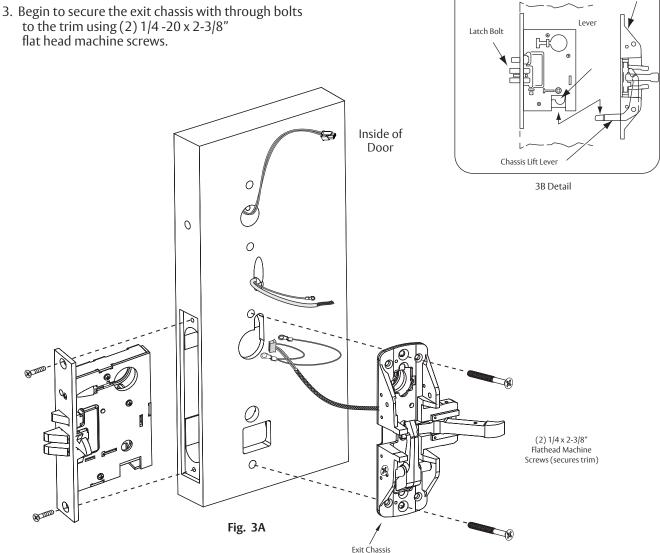
3 Mount Mortise & Exit Device Chassis

1. Slide mortise lock into door and loosely secure with (2) flat head screws.

NOTE: Exit chassis harness consists of a 6-pin female connector and two different-sized ground lugs (Fig. 3A)

2. Feed 6-pin connector and larger ground lug straight through to outside of door (Fig. 3A, B) while feeding smaller ground lug into wire hole, up through wire channel and out through inside of door (Fig. 3A).

DO NOT PINCH THE WIRE HARNESS.



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Installation Instructions PED5600 Mortise Exit Device

4 Position Exit Trim

NOTE: For exterior applications, use trim gasket (869F629 for 800PT Series trim or 869F639 for 900PT Series trim) to seal between trim escutcheon and outside door surface.

- A. Connect motor harness adapter to chassis harness connector (Fig. 4A).
- B. For wood doors: Route trim wire harness connector through the cylinder hole, up and through the wire run channel to the controller cutout.

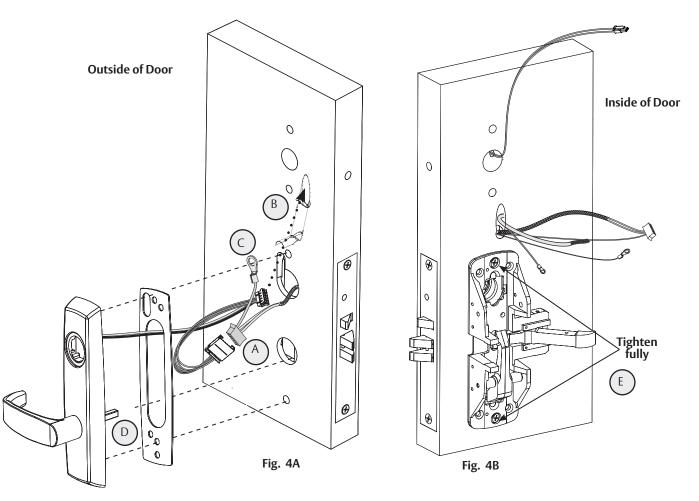
For metal doors: Route trim wire harness through the cylinder hole out the controller cutout.

C. Pass top trim mounting post through chassis harness ground lug.

D. Ensure trim spindle engages the lower hub of the exit chassis.

E. Fully tighten (2) chassis through bolts (Fig. 4B).

NOTE: Cable lengths exaggerated for illustrative purposes



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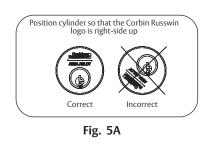
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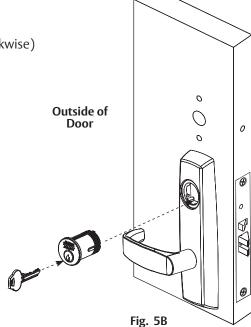
Installation Instructions PED5600 Mortise Exit Device

Install Cylinder 5

For devices without cylinder, go to Step 6.

- 1. Secure cylinder by threading into lockbody.
- 2. After cylinder is installed, tighten cylinder lock screw (clockwise) through front of mortise lock.
- 3. Verify that key retracts latchbolt.





Secure Exit Chassis 6

To comply with UL certifications and for security: Fasten exit chassis to door using (4) #10 wood screws (for wood door) or (4) #10-24 machine screws (for metal door).

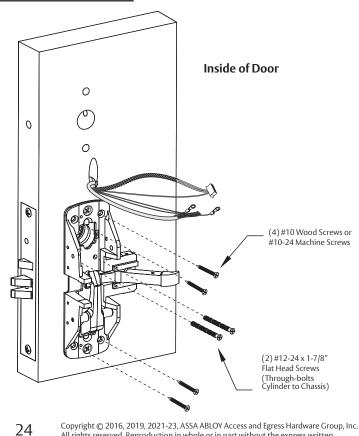


Fig. 6

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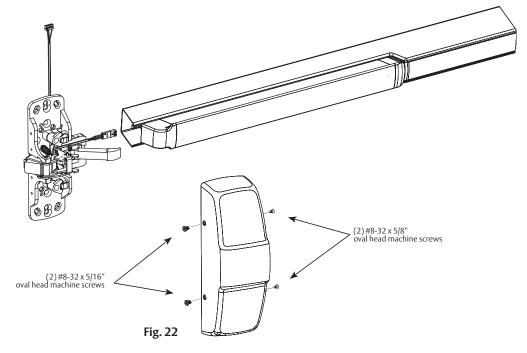


6

Installation Instructions PED5600 Mortise Exit Device

7 Install Chassis Cover

- a. Retrieve harness from end of rail. Harness has limited travel and can be damaged.
- b. Attach harness to female connector on chassis.
- c. Install rail and tighten chassis and trim screws. Attach end bracket per exit device instructions.
- d. Secure chassis cover to chassis using four (2) #8-32 x 5/16" and (2) #8-32 x 5/8" (rail side) oval head machine screws.



Important Note: IN120/220 Mortise Exit Installation Continues With Section 9

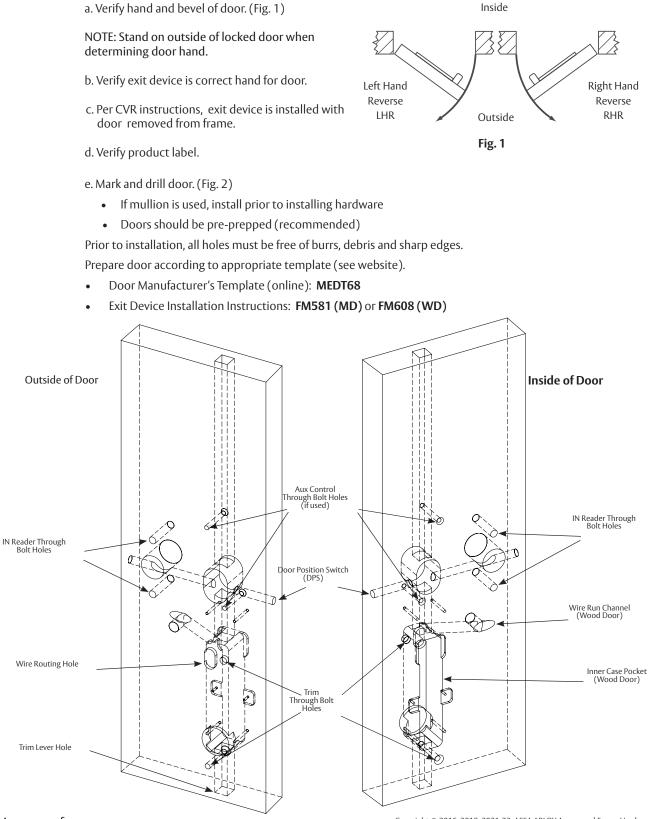
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Installation Instructions for PED5800 Concealed Vertical Rod (CVR) Exit Device (EA Option)

1. Prepare door

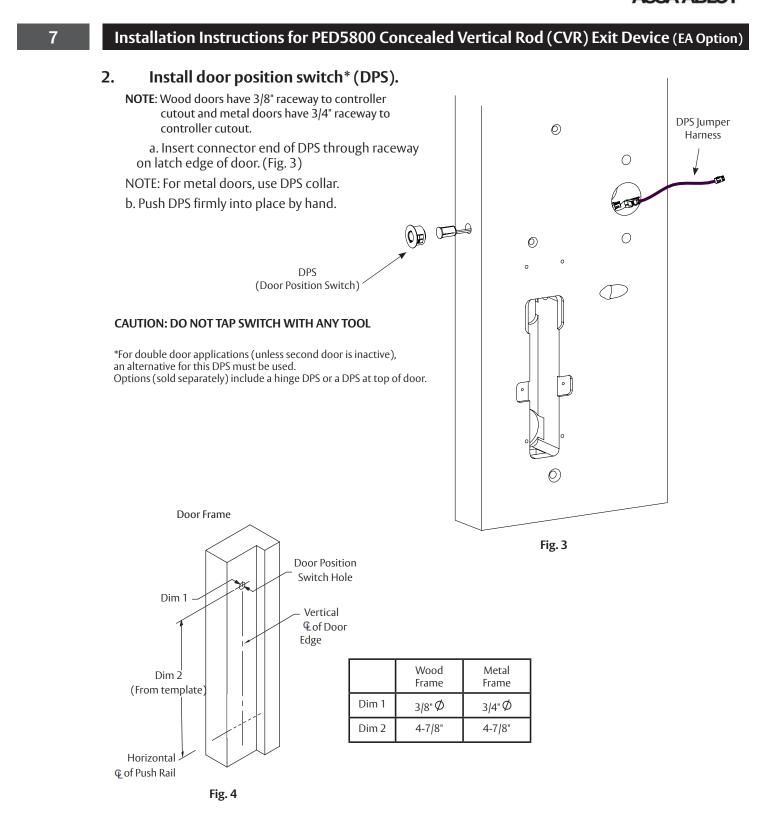


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Corbin Russwin





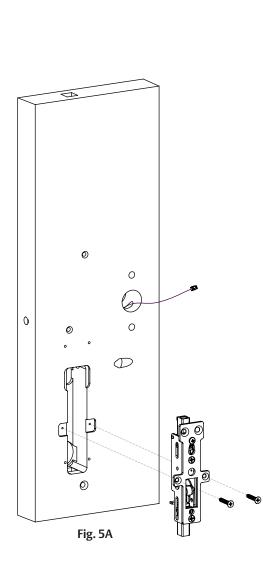
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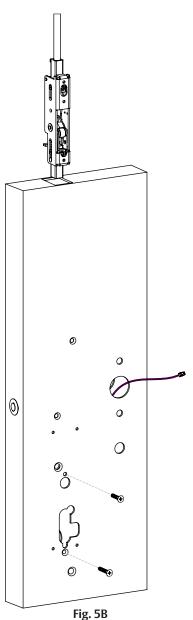
IN120 & IN220 Series PED5000 Series Exit Devices

Installation Instructions for PED5800 Concealed Vertical Rod (CVR) Exit Device (EA Option)

3. Install Inner Case Assembly

- A. Wood Door (WD)
- 1. Install the inner case assembly with (2) #12 x 1" Phillips flathead screw (Fig. 5A).
- B. Metal Door (MD/AD)
- 1. Assemble rods to inner case.
- 2. Slide rod assembly into door and secure with #10-24 x 3/8" screw for top inner case assembly and #10-24 x 1/2" screw for bottom inner case assembly (Fig. 5B).





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Installation Instructions for PED5800 Concealed Vertical Rod (CVR) Exit Device (EA Option)

4. Mount exit device chassis.

a. Mount exit chassis loosely, using only the top left mounting screw. Screw should support the weight of the chassis but allow it to move freely while routing the wiring and mounting exit trim.

NOTE: Exit chassis harness consists of a 6-pin female connector and (2) ground wire terminals (Fig. 6B).

b. Feed 6-pin connector and larger ground wire terminal straight through to outside of door. (Fig. 6B, 7)

c. Insert (2) trim mounting screws (Fig. 6A).

5. Mount exit trim. (Fig. 8)

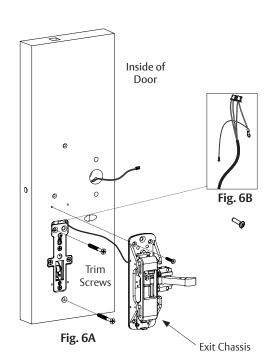
NOTE: For exterior applications, use trim gasket as seal between trim escutcheon and outside door surface.

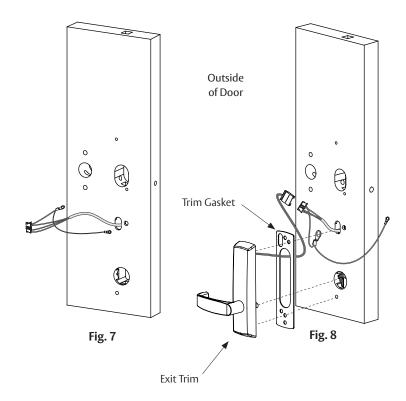
- a. Connect motor harness adapter to chassis wire harness connector.
- b. For wood doors: Route trim wire harness connector through oval wire routing hole, up and through wire run channel to controller cutout.

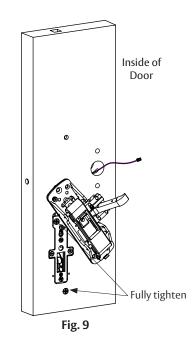
For metal doors: Route trim wire harness through oval wire mounting hole and out controller cutout.

c. Pass top trim mounting post through chassis harness ground lug.

d. Fully tighten (2) trim mounting screws. (Fig. 9)







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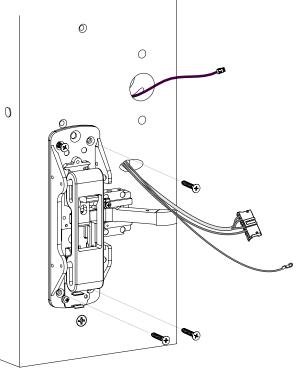
6.

IN120 & IN220 Series PED5000 Series Exit Devices

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Installation Instructions for PED5800 Concealed Vertical Rod (CVR) Exit Device (EA Option)

To comply with UL certifications and for security: a. Fasten exit chassis to door using three (3) remaining #10 wood screws (for wood door) or four (4) #10-24 machine screws (for metal door). NOTE: Cable lengths exaggerated for illustrative purposes. O





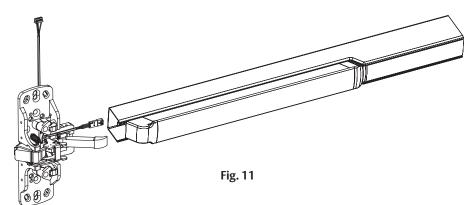
7. Install rail assembly. (Fig. 11)

a. Retrieve harness from end of rail. Harness has limited travel and can be damaged.

b. Attach harness to female connector on chassis.

c. Install rail and screws per exit device instructions.

Secure exit chassis. (Fig. 10)



Important Note: IN120 / 220 CVR Exit Installation Continues With Section 9

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Installation Instructions for PED5400 Surface Vertical Rod (SVR) Exit Device (EA Option)

1. Prepare door

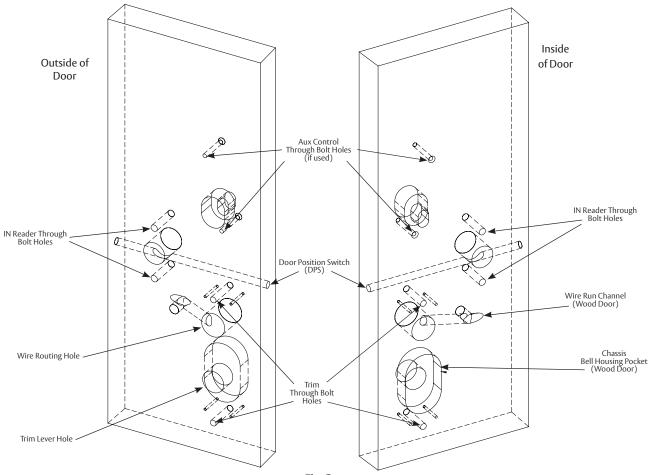
a. Verify hand and bevel of door. (Fig. 1)

NOTE: Stand on outside of locked door when determining door hand.

- b. Verify exit device is correct hand for door.
- c. Door should be fitted and hung.
- d. Verify product label.
- e. Mark and drill door. (Fig. 2)
 - If mullion is used, install prior to installing hardware
 - Doors should be pre-prepped (recommended)

Prior to installation, all holes must be free of burrs, debris and sharp edges.

- Prepare door according to appropriate template (see website).
- Field Template (ships with product): **MEFT25**
- Door Manufacturer's Template (online): MEDT69
- Exit Device Installation Instructions: FM583





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ASSA ABLC

Right Hand

Reverse

RHR

Inside

Outside

Fig. 1

Left Hand

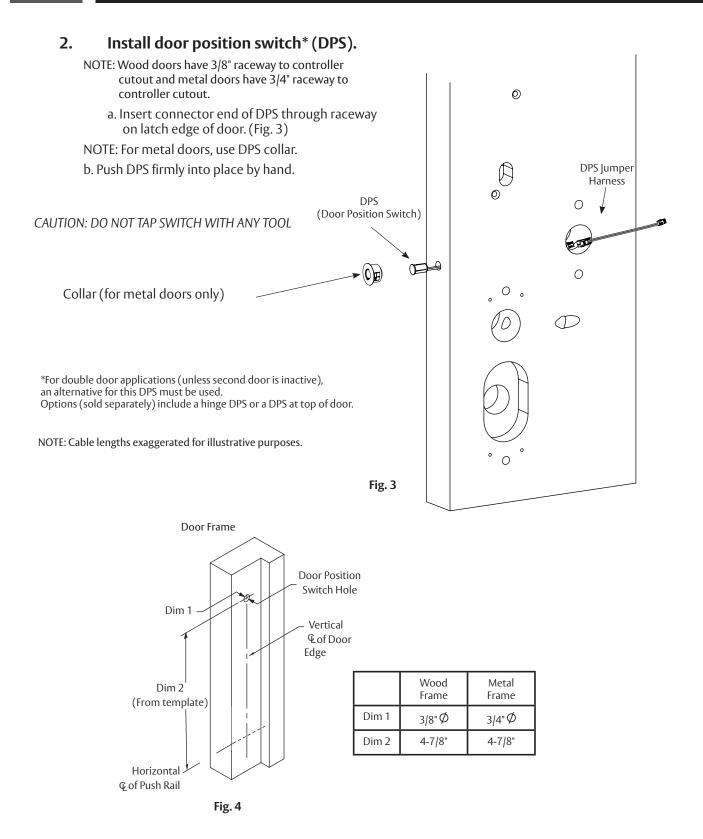
Reverse

LHR



8

Installation Instructions for PED5400 Surface Vertical Rod (SVR) Exit Device (EA Option)



ASSA ABLOY

8

Installation Instructions for PED5400 Surface Vertical Rod (SVR) Exit Device (EA Option)

3. Mount exit device chassis

NOTE: Exit chassis harness consists of a 6-pin female connector and (2) ground wire terminals. (Fig. 5, 6)

- 1. a. Feed 6-pin connector and larger ground lug straight through to outside of door. (Fig. 5, 6)
- 1. b. For exterior application, use trim gasket to seal between trim escutcheon and outside door surface (Fig. 5).

4. Mount exit trim. (Fig. 6)

NOTE: For exterior applications, use trim gasket as seal between trim escutcheon and outside door surface.

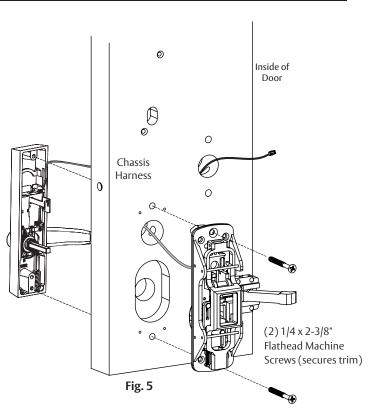
a. Connect motor harness adapter to chassis harness connector.

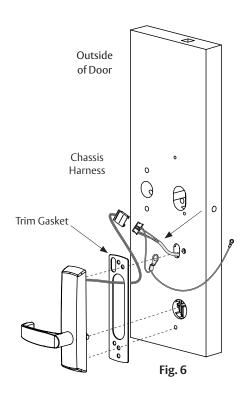
- **1. NOTE**: For MELR install, skip next step (b.)
- b. For wood doors: Route trim wire harness connector through cylinder hole, then up and through wire run channel to controller cutout.

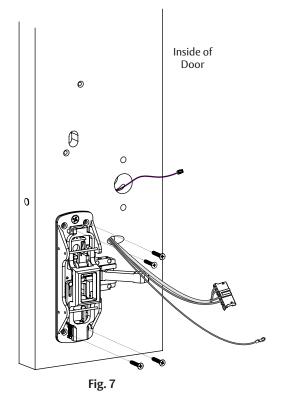
For metal doors: Route trim wire harness through cylinder hole and out controller cutout.

- c. Pass top trim mounting post through chassis harness ground lug.
- d. Ensure trim spindle engages lower hub of exit chassis.
- e. Partially tighten two (2) chassis through bolts.

Do not fully tighten chassis screws until after rail installation Step 5)







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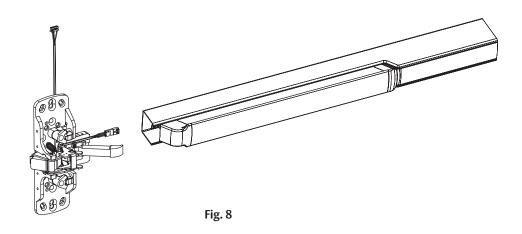


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Installation Instructions for PED5400 Surface Vertical Rod (SVR) Exit Device (EA Option)

4. Install rail assembly. (Fig. 8)

- a. Retrieve harness from end of rail. Harness has limited travel and can be damaged.
- b. Attach harness to female connector on chassis.
- c. Install rail and screws per exit device instructions.
- d. Tighten trim and chassis screws.



e. Install top and bottom cases and pin vertical rods to chassis per exit device instructions. f. Attach covers.

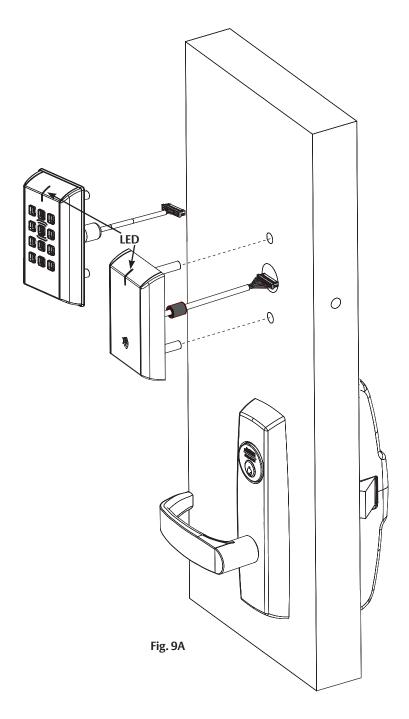
Important Note: IN120 / 220 SVR Exit Installation Continues With Section 9



9 IN120 / IN220 Installation Instructions

1 Outside Reader and Mounting Plate Assembly Installation

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



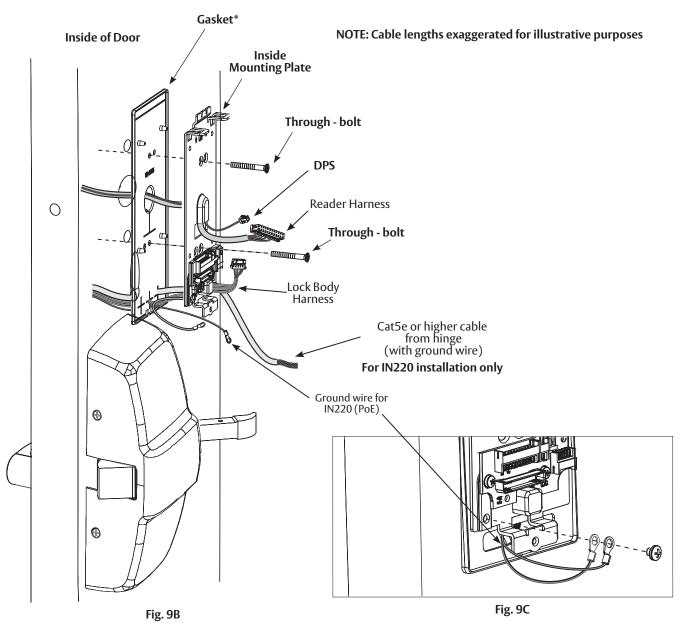


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9 IN120 / IN220 Installation Instructions

1 Outside Reader and Mounting Plate Assembly Installation (Continued)

e. Next feed cables/connectors through the inside mounting assembly (and gasket if required*). f. Insert and partially tighten (2) through-bolts prior to installation of connectors.



g. Secure ground lug(s) with #6-32 machine screw (Fig. 2B).

*Gasket is required for outdoor installations.

If installing with gasket; separate gasket from mounting plate to feed cables/connectors through holes as indicated (Fig. 2A).

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

9



IN120 / IN220 Installation Instructions

2 Installation of Connectors

Important Note: Before you secure the connectors

CAUTION - Do not allow debris to enter connector contacts

Ensure connectors are covered with silicone dielectric compound (grease)*



- Snip end of packet to dispense grease
- Ensure all connector pins and contacts (Fig. 10A) are <u>covered</u> - do not overfill or over-apply**

*Supplied tube contains 5 grams of silicone dielectric compound (grease)

**Evenly distribute grease; full application requires approximately 2.5 grams

IMPORTANT: Do not run wires through bottom hole in plate (Fig. 3A, B) - it will damage wires and the controller connector. Route wires around flange, do not route wires through the flange hole (Fig. 10B).

Secure the following connectors (Fig. 10A, B):

A. Secure the 4-pin DPS connector.

B. Secure the 10-pin lock body assembly connector.

Secure Mounting Plate

Board-to-Board Connector

- Tuck excess cable into wire hole on inside of door
- Secure the mounting assembly while ensuring proper alignment of outside reader and fully tighten the (2) throughbolts on the inside of the door to secure the reader and plate to the door

C. Secure the 24-pin card reader connector (Fig. 10B)

D. Ensure all openings on back of secured connectors are covered completely with grease (Fig. 10C).

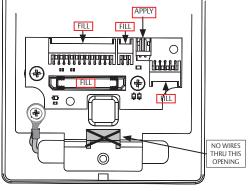
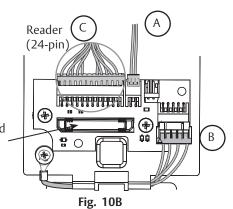
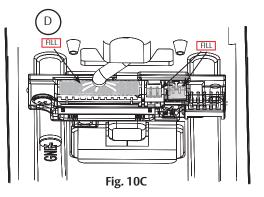


Fig. 10A





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Fig. 10D

Feed wires thru ferrite bead (PoE only)

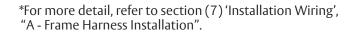
Crimp wires to RJ45-M Connector (PoE only)

9 IN120 / IN220 Installation Instructions

2 Installation of Connectors (Continued)

Important Note: If you are installing IN220 (PoE)*:

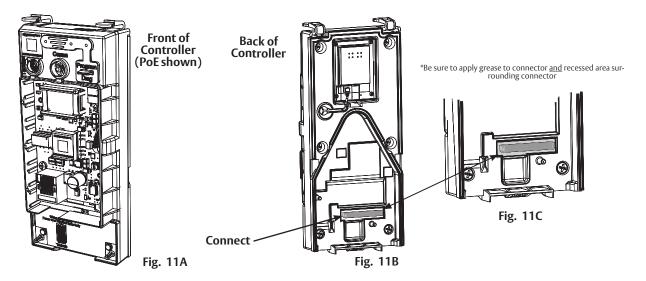
- E. Pull 5 1/2 inches of Ethernet cable from hole. Strip cable jacket back 3 1/2 inches.
- F. Separate (untwist) and straighten (8) Ethernet wires before carefully feeding through ferrite bead (Fig. 10D).
- G. Crimp RJ45 (male) connector on end of wires.





Important Note: Before you install the controller

Apply dielectric grease to connector* located on back of Controller (FIG. 11B, C).



CAUTION - Do not allow debris to enter connector contacts.

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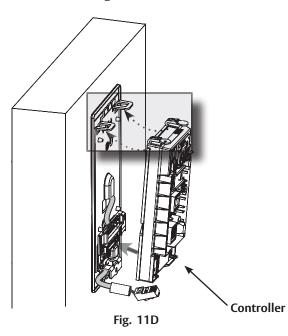
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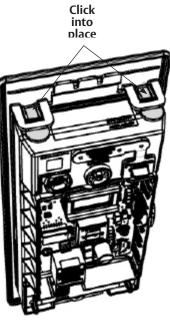


IN120 / IN220 Installation Instructions

4 Installing the Controller (Continued)

- 1. Insert bottom tab of controller (ensure a clear path) into slot on mounting plate (Fig. 11D, E).
- 2. Ensure proper alignment of board-to-board connectors (Fig. 11E) while pivoting controller toward door until two tabs on top snap securely into place on mounting plate (Fig. 11D).
- **CAUTION**: To avoid possible damage to board-to-board connectors, care should be taken when securing controller to mounting plate. If there is resistance when securing, detach controller to determine cause before re-attaching controller.



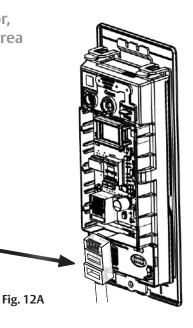


5 Supplying Power to the Controller

Important - before inserting PoE plug into PoE connector, apply dielectric grease to top of plug, covering the pin area (Fig. 12A).

A. IN220 (PoE)

- 1. Once controller is securely in place, connect RJ45 male connector to female RJ45 port on controller board (Fig. 12A).
- 2. If power is enabled, LED will flash and lock motor will cycle.



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Apply grease

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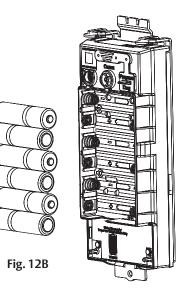


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IN120 / IN220 Installation Instructions

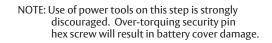
5 Supplying Power to the Controller

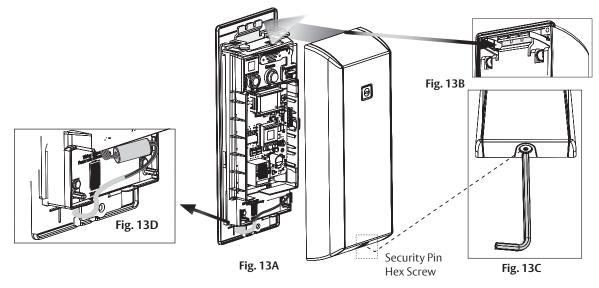
- **B. IN120 (WIFI)**
 - 1. Once controller is securely in place, place (6) "AA" alkaline batteries in the compartment, being careful to align polarity properly.
 - 2. After batteries are installed, there is a slight delay; then an audible "beep" will sound and the lock motor will cycle.



6 Inside Cover Installation

- 1. Assemble cover by hooking top edge on inside mounting plate taking care not to pinch gasket (top edge goes between plate and gasket).
- 2. Carefully press bottom of cover toward door without pinching any wires.
- 3. Secure the cover with a 1/8" security hex key.





Note location of installed ferrite bead (IN220 PoE) and excess wires (Fig. 13A, D).



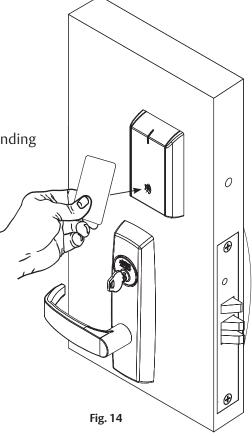
10 Operational Check

IMPORTANT: Be sure to test functions prior to closing door. In all cases, perform the following checks:

- 1. Ensure that inside exit bar retracts latch.
 - To test cylinder, the following checks apply:

Insert key into cylinder and rotate:

- a. There should be no friction against lock case, wire harness, or any other obstructions. If friction or binding occurs, readjust cylinder and wiring harness to eliminate issues.
- b. The key should unlock the outside lever and the lever should rotate freely.
- For units without a keypad, add card using LCT software* and then test.
- For units with a keypad, add pin and card using LCT software* and then test.



If the lock loses power, it will flash rapid blue for approximately one minute. Lock will default to programmed fail safe or fail secure.

After that, the lock will no longer be functional.

When you have completed the tests, close the door, ensuring latchbolt fully extends into strike plate without binding.

*Twenty (20) seconds after lock initialization (single beep with lock motor actuation).







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