

INSTALLATION INSTRUCTIONS Fire Rated PDU8500F

Effective date: January 23, 2026
Supercedes: All Previous

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NOT TO SCALE

PDU8500F FIRE RATED SERIES PANIC DEVICE

IMPORTANT: PLEASE READ BEFORE INSTALLING THE PANIC DEVICE

The following instructions will decrease your chances of experiencing problems during the installation and ensure a smooth, trouble-free operation of the Panic Device.

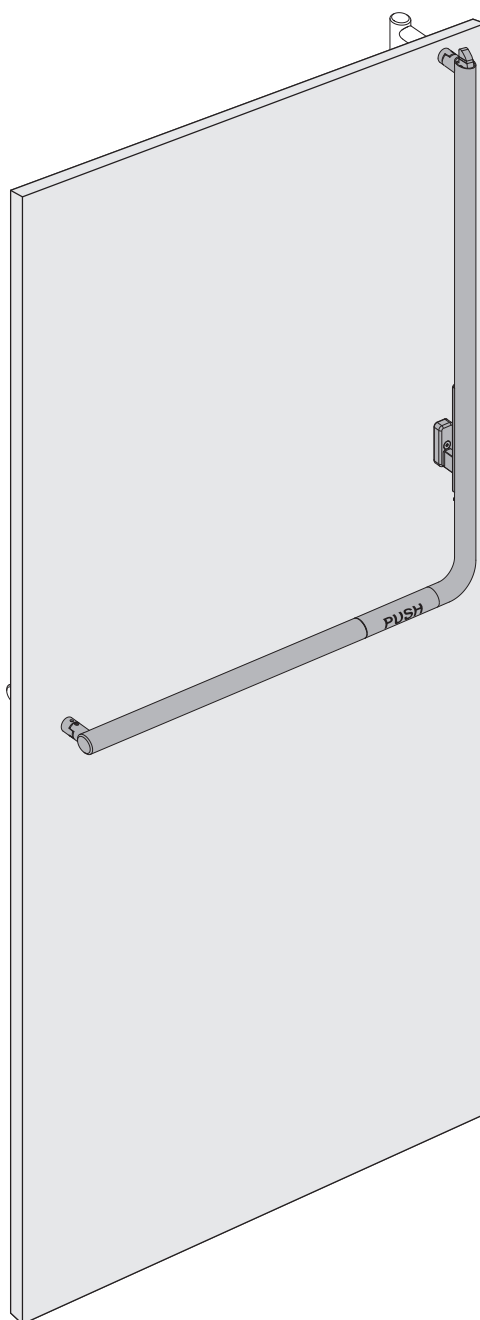


Table of Contents

1. Introduction	3
1.1 Description.....	3
1.2 Tools and Supplies	3
2. Instructions for PD18BFB Panic Fire Bolts	4
2.1 Active Door	4
2.2 Inactive Door	4
3. Instructions for Fire Rated Panic on Hollow Metal and Wood/Composite Doors.....	5
3.1 Fire Rated Panic Device Installation	5
3.1.1 Install Panic Device on Door	5
3.1.2 Install Mating Pull	5
3.1.3 Install Actuator Post Assembly.....	6
3.1.4 Install Vertical Door Mount.....	6
3.1.5 Install Horizontal Door Mount	7
3.1.6 Install Horizontal Door Mount (Deco End Cap Option)	7
3.1.7 Install Panic Device on Door	8
3.1.8 Horizontal End Threadlocker and Lube Application	8
3.1.9 Align Actuator Gauge.....	9
4. Latch / Door Stop Adjustment / Cylinder Recommendations	9
4.1 Installation and Adjustment of Door Stop-Strike	9-10
4.2 Latch Adjustment for Proper Engagement with the Strike	10
4.3 Cylinder Recommendations	10
5. Cleaning and Maintenance	11
5.1 General Maintenance Instructions	11
5.2 Finish Cleaning Instructions	11
5.3 Mechanical Maintenance	12

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1. Introduction

1.1 Description

- The PDU8500F Fire Rated Series Panic Device offers superior functionality for egress and security needs.
 - The (3) Rockwood fire bolts supplied with the panic device must be used with the fire rated panic device.
 - Please read the installation instructions in this manual carefully before installing the panic device.
 - Hollow Metal Frame Requirements:
 - Stop Height: $\frac{5}{8}$ " This will shift the top of the panic device down on the door when compared to an aluminum frame.
 - Stop Width: Minimum of 3" wide.
 - Reinforcement: Minimum of 12 gauge closer reinforcement along the stop width in the area that the strike will be attached.
 - Strike templates can be found on assaabloydooraccessories.us, [Resource Library](#) > [Product Templates](#) > [Rockwood Templates](#) > [Architectural Line](#).
 - If you have questions, please contact us at 800-458-2424.
-

1.2 Tools and Supplies

- The tools and supplies listed below are necessary to complete the installation of the Panic Device.

Tools

- Allen wrenches: $\frac{5}{64}$ ", $\frac{5}{32}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ "
- Latch and Actuator Gauge
- Spanner Wrench
- Wrench: $\frac{7}{16}$ "

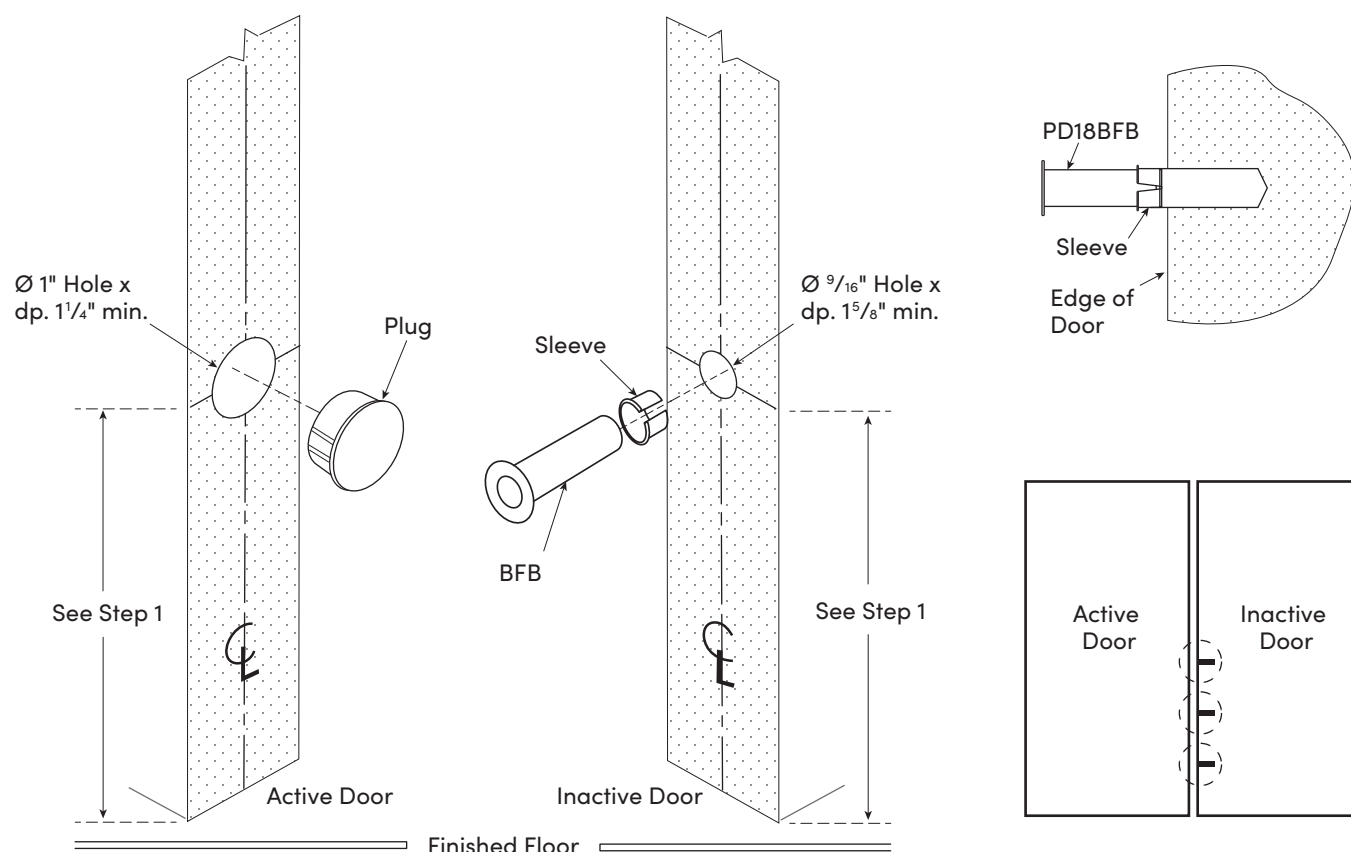
Supplies included in kit

- Threadlocker
- Synthetic Multi-Purpose Grease
- Latch and Actuator Gauge
- Extra Door Bushings

Supplies Needed (not included in kit)

- Soft Cloth

2. Instructions for PD18BFB Panic Fire Bolts



NOTE: Thermal pin to be centered in door thickness; gap between thermal pin and receiving hole $\frac{1}{8}"$ max.

2.1 Inactive Door

- (3) Fire bolts are required in the lead edge of the pair of doors.
One at 6" above bottom of door, one at door height centerline minus 4", and one at door height centerline plus 4".
- Drill a $\varnothing \frac{9}{16}"$ hole for PD18BFB.
- Install PD18BFB by striking squarely with a hammer

2.2 Active Door

- Drill a $\varnothing 1"$ hole for plugs at the same heights as the PD18BFB.
- Install plug in door by striking with a hammer.

IMPORTANT: The BFB will engage during a fire.

Do not cover with any edge mounted door hardware.

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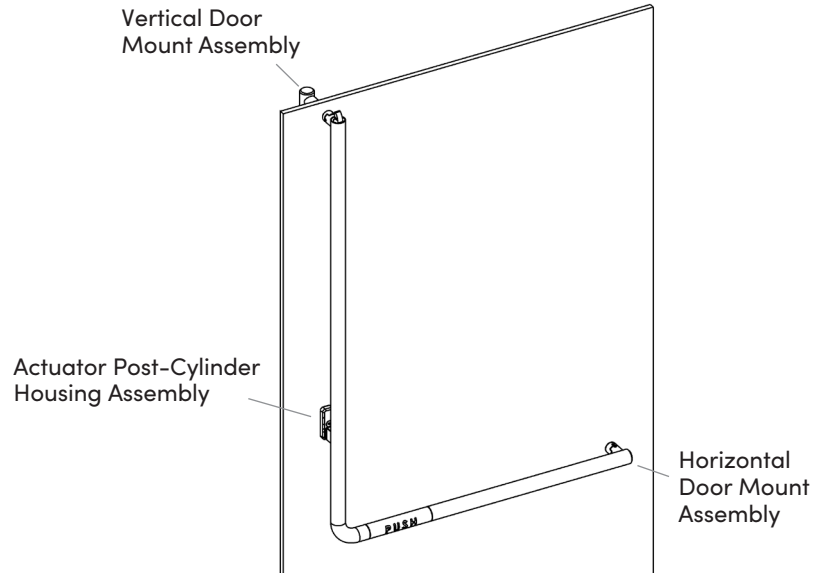
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3. Instructions for Fire Rated Panic on Hollow Metal and Wood/Composite Doors

3.1 Fire Rated Panic Device Installation

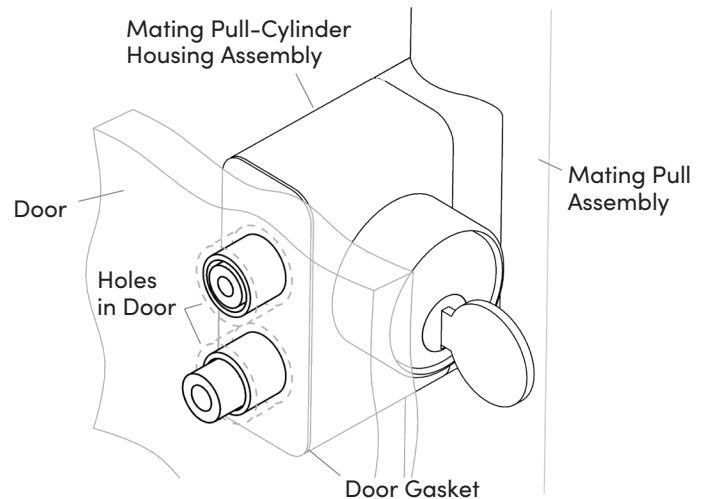
3.1.1 Install Panic Device on Door

- Lay the door flat with the exterior side facing down on a pair of saw horses.



3.1.2 Install Mating Pull

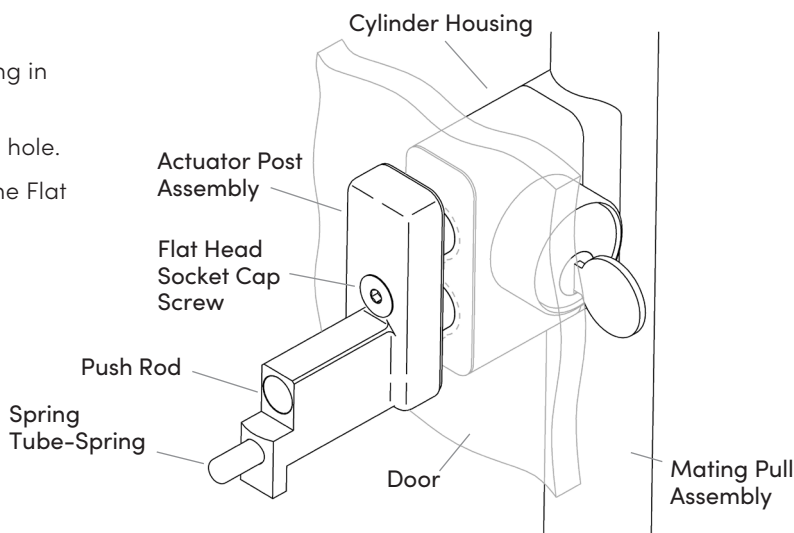
- Place the Mating Pull Assembly on the door.
- Install the Mating Pull-Cylinder Housing Assembly through the holes in the door.
- Make sure that the posts that are sticking out from the Mating Pull-Cylinder Housing Assembly go through the holes in the door.



3.1.3 Install Actuator Post Assembly

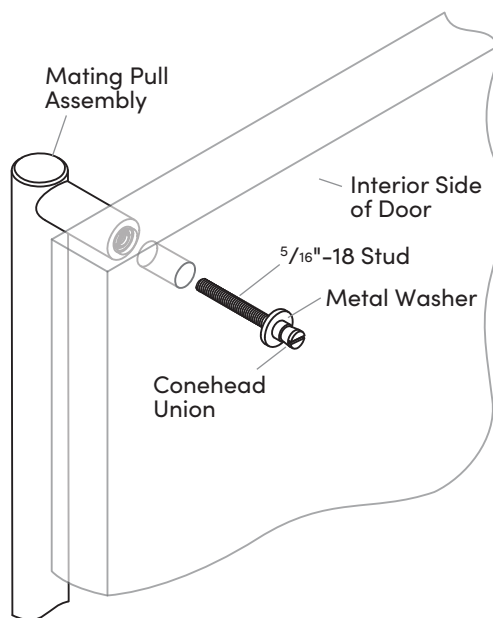
- Install the Actuator Post Assembly on top of the opening in the door to attach to the cylinder housing.
- Make sure that the push rod goes through the bottom hole.
- Apply a small drop of threadlocker to the threads of the Flat Head Socket Cap Screw ($\frac{1}{4}$ "-20).
- Install the Flat Head Socket Cap Screw ($\frac{1}{4}$ "-20) and secure until tight.

CAUTION: Make sure that the spring tube-spring and the push rod are inserted into the Actuator Post Assembly.



3.1.4 Install Vertical Door Mount

- Position the Mating Pull Assembly against the exterior side of the door.
- Apply a small drop of threadlocker to one end of the threads of the stud ($\frac{5}{16}$ "-18).
- Screw the stud into the conehead union.
- Slide the metal washer onto the stud ($\frac{5}{16}$ "-18) until it sits against the conehead union ($\frac{5}{16}$ "-18) on the interior side of the door.
- Apply a small drop of threadlocker to the threads at the other end of the stud ($\frac{5}{16}$ "-18).
- Slide the conehead union ($\frac{5}{16}$ "-18) with the metal washer through the hole in the door.
- Screw the conehead union ($\frac{5}{16}$ "-18) and the stud ($\frac{5}{16}$ "-18) into the Mating Pull Assembly Post until tight.



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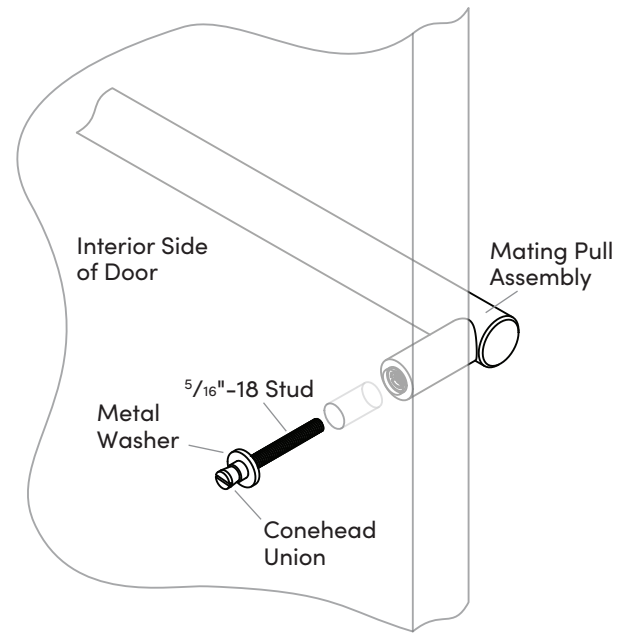
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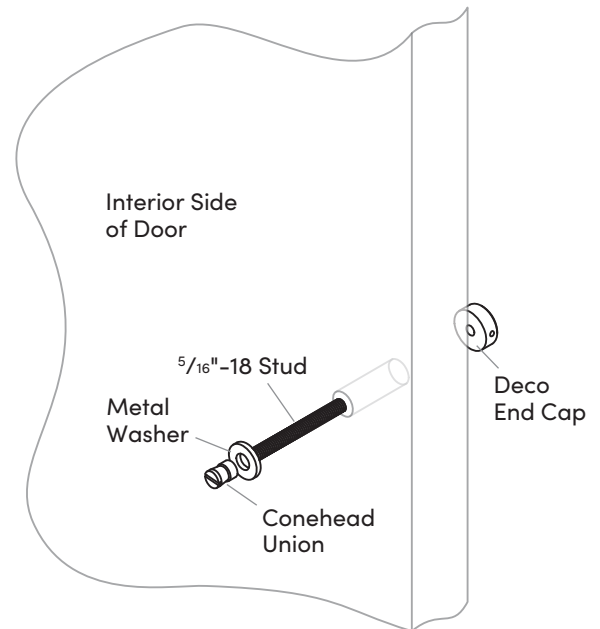
3.1.5 Install Horizontal Door Mount

- Position the Mating Pull Assembly against the exterior side of the door.
- Apply a small drop of threadlocker to one end of the threads of the stud ($\frac{5}{16}$ "-18).
- Screw the stud into the conehead union.
- Slide the metal washer onto the stud ($\frac{5}{16}$ "-18) it sits against the conehead union ($\frac{5}{16}$ "-18) interior side of the door.
- Apply a small drop of threadlocker to the threads at the other end of the stud ($\frac{5}{16}$ "-18).
- Slide the conehead union ($\frac{5}{16}$ "-18) with the metal washer through the hole in the door.
- Screw the conehead union ($\frac{5}{16}$ "-18) and the stud ($\frac{5}{16}$ "-18) into the Mating Pull Assembly Post until tight.



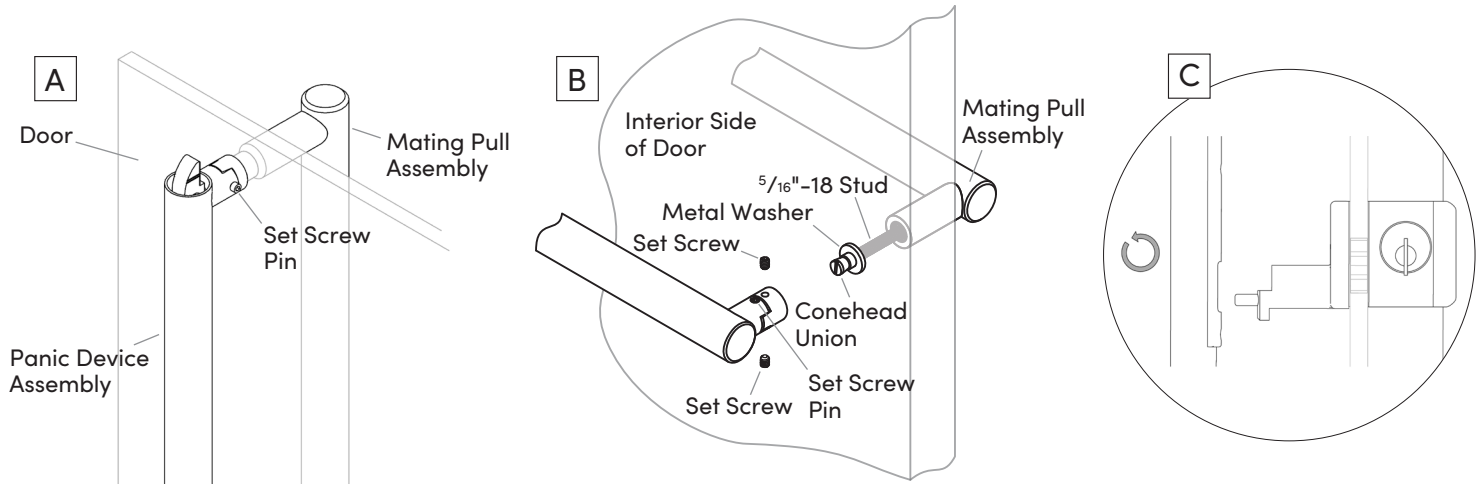
3.1.6 Install Horizontal Door Mount (Deco End Cap Option)

- Apply a small drop of threadlocker to the threads of the stud ($\frac{5}{16}$ "-18).
- Insert the Stud ($\frac{5}{16}$ "-18) into the deco end cap.
- Slide the stud ($\frac{5}{16}$ "-18) with the deco end cap through the hole in the door on the exterior side of the door.
- Place the metal washer onto the stud ($\frac{5}{16}$ "-18) on the interior side of the door.
- Apply a small drop of threadlocker to the threads of the stud ($\frac{5}{16}$ "-18).
- Screw the conehead union ($\frac{5}{16}$ "-18) onto the stud ($\frac{5}{16}$ "-18) on the interior side of the door.



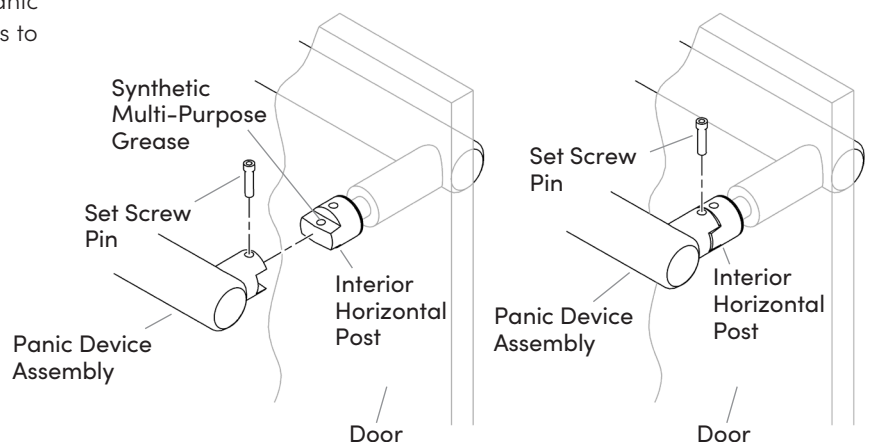
3.1.7 Install Panic Device on Door

- Use the tilt method to install the Panic Device Assembly on the door.
- Attach the Panic Device Assembly to the conehead union ($\frac{5}{16}$ "-18).
- Apply a small drop of threadlocker to the threads of the set screws ($\frac{1}{4}$ "-20).
- Install the set screws ($\frac{1}{4}$ "-20) and secure until tight.



3.1.8 Horizontal End Threadlocker and Lube Application

- Remove the set screw pin and move the Panic Device Assembly to the side to allow access to the Interior Horizontal Post hole.
- Apply synthetic multi-purpose grease (pea size) to the inside of the hole of the Interior Horizontal Post.
- Install the Panic Device Assembly Handle back on the Panic Device Assembly.
- Apply a small drop of threadlocker to the threads of the set screw pin.
- Install the set screw pin.

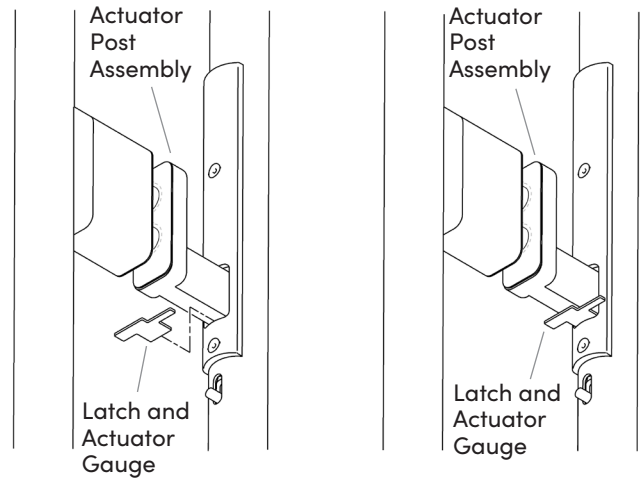


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3.1.9 Align Actuator Gauge

- Install the Latch and Actuator Gauge in the bottom of the Actuator Post Assembly.
- If the Latch and Actuator Gauge cannot be installed, the alignment must be adjusted.
- Do not operate the Panic Device if the Latch and Actuator Gauge does not fit.



4. Latch / Door Stop Adjustment / Cylinder Recommendations

4.1 Installation and Adjustment of Door Stop-Strike

INSTALLATION

- Attach the strike to the header using the socket cap screws ($\frac{1}{4}$ "-20 or $\frac{5}{16}$ "-18).
- Close the door. The door should come to rest on the rubber stop pads.
- There should be approximately $\frac{1}{16}$ " play between the latch face and the strike face.
- The retractable latch should automatically move upward and engage in the strike.
- If the retractable latch does not engage in the strike, move the door stops in.
- If the retractable latch is loose inside the strike (door is rattling), move the door stops out.
- Tighten 8-32 screws to lock down adjustment door stops.

NOTE: Manual Strike screws located on sides, Electric Strike screws located under coverplate.

ADJUSTMENT

- To adjust the stop, loosen the 8-32 set screws and remove the rubber end pieces.
- Use an Allen Wrench ($\frac{1}{4}$ ") to rotate in or out as needed.

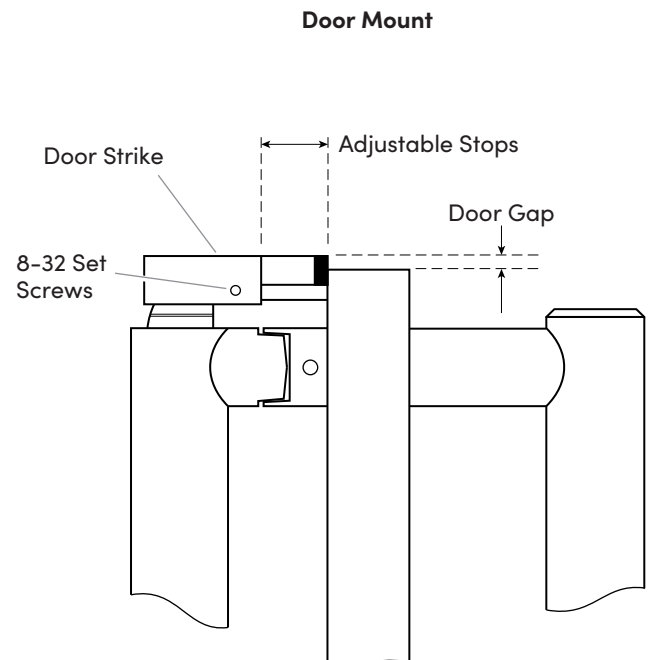


Figure 3-1

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4.1 Installation and Adjustment of Door Stop-Strike (Continued)

USING THE LATCH AND ACTUATOR GAUGE

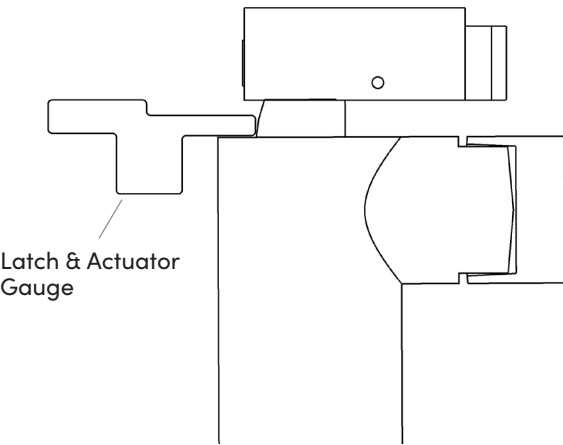


Figure 3-2

If small side of Gauge does not fit, remove any shims added or adjust door to make gap larger.

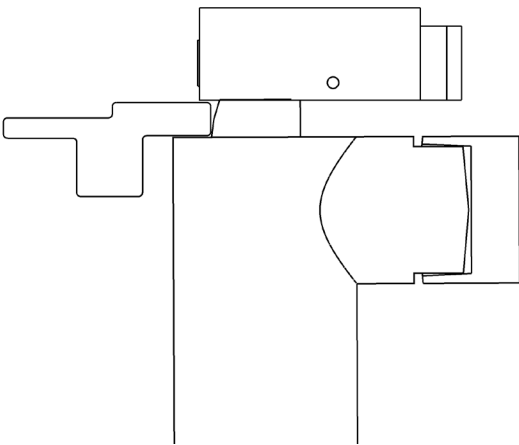


Figure 3-3

If large side of Gauge does fit, add provided shims to bring strike closer to tube.

4.2 Latch Adjustment for Proper Engagement with the Strike

Latch adjustment is not available on PDU8500F Fire Rated Panic Devices. Proper engagement can be achieved with strike shims.

4.3 Cylinder Recommendations

Total Length	Body w/Cam Length	Cylinder Ring Used
1 1/8"	1"	PD1212
1 1/4"	1 1/8"	PD1212
1 3/8"	1 1/4"	PD1335
1 1/2"	1 3/8"	PD1335
1 5/8"	1 1/2"	PD1370
1 7/8"	1 3/4"	PD1370

Company	Product #'S	Compatible Cam
ACCENTRA (Standard)	K660, 2153, 1108	2160, 1161
SARGENT	41 thru 44	#112
CORBIN RUSSWIN	10 Series	A04, A62
SCHLAGE	20, 26,80, 91 (conventional, SFIC, FSIC)	K510, L583, B502, BS20
ASSA	9851-4; 8851-4; E6551-4; 6551-4; 6151-4; L651-4; 651-4	#5, #7, #10
STANLEY/BEST	1E Series	C128, C129, C136, C208

5. Cleaning and Maintenance

5.1 General Maintenance Instructions

- Periodically check the fasteners. The fasteners must not be loose. If the fasteners are loose, reapply threadlocker and tighten as necessary.

5.2 Finish Cleaning Instructions

- CAUTION: Before you clean the entire Panic Device Assembly, clean a small test area to make sure that you are satisfied with the results.
- Frequent cleaning extends the life of all finishes.

Finish Code	Finish	Cleaning Instructions
US32	Polished Stainless Steel	Use a soft cloth and a good metal cleaner. We recommend Mr. Metal by S.C. Johnson Company.
US32D	Satin Stainless Steel	Use a soft cloth and a good metal cleaner. We recommend Mr. Metal by S.C. Johnson Company.
US32DMS	Satin MicroShield Coated	Use a soft cloth and mild soap and water. Never use brass polish or an abrasive cleaner unless you intend to remove all clear coat and totally refinish the product.
US32MS	Polished MicroShield Coated	Use a soft cloth and mild soap and water. Never use brass polish or an abrasive cleaner unless you intend to remove all clear coat and totally refinish the product.
10BE	Oxidized & Oiled Bronze Powder Coat Equivalent	Use a soft cloth and mild soap and water. Never use brass polish or an abrasive cleaner unless you intend to remove all clear coat and totally refinish the product.
BSP	Black Suede Powder Coat	Use a soft cloth and mild soap and water. Never use brass polish or an abrasive cleaner unless you intend to remove all clear coat and totally refinish the product.
WSP	White Suede Powder Coat	Use a soft cloth and mild soap and water. Never use brass polish or an abrasive cleaner unless you intend to remove all clear coat and totally refinish the product.
RPC	Red Powder Coat	Use a soft cloth and mild soap and water. Never use brass polish or an abrasive cleaner unless you intend to remove all clear coat and totally refinish the product.
WPC	White Powder Coat	Use a soft cloth and mild soap and water. Never use brass polish or an abrasive cleaner unless you intend to remove all clear coat and totally refinish the product.
BPC	Black Powder Coat	Use a soft cloth and mild soap and water. Never use brass polish or an abrasive cleaner unless you intend to remove all clear coat and totally refinish the product.
FBPC	Flat Black Powder Coat	Use a soft cloth and mild soap and water. Never use brass polish or an abrasive cleaner unless you intend to remove all clear coat and totally refinish the product.
CUSTOM PC	Custom Powder Coat	Use a soft cloth and mild soap and water. Never use brass polish or an abrasive cleaner unless you intend to remove all clear coat and totally refinish the product.
314E	Powder Coat Equivalent of 314 Extra Dark Bronze Anodized	Use a soft cloth and mild soap and water. Never use brass polish or an abrasive cleaner unless you intend to remove all clear coat and totally refinish the product.

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5.3 Mechanical Maintenance

- CAUTION: Make sure the following maintenance steps are completed before operating the Panic Device.
- Refer to the appropriate sections of this Panic Device manual for threadlocker and lube applications and their locations.

Threadlocker is applied to the following parts

Part Description	Configuration
Set Screw Pins (1/4"-20)	All
2x Cup Point Set Screw (1/4"-20 x 5/16") for Post Base Section	All
Deco End Cap (threads)	All
FHSCS (1/4"-20) for Actuator Post	All
FHSCS (6-32) for Latch Assembly	All
2x SHCS (5/16"-18) for Manual Strike	All Single Manual Strike
3x SHCS (5/16"-18) for Double Manual Strike	All Double Manual Strike
2x SHCS (1/4"-20 or 5/16"-18) for Electric Strike	All Single Electric Strike
4x SHCS (1/4"-20 or 5/16"-18) for Double Electric Strike	All Double Electric Strike

Lubricant is applied to the following parts

Part Description	Configuration
Post Base Section	All
Latch	All

Note: Synthetic multi-purpose grease should be used.

Torque values for different thread types

Thread Type	Torque Requirement - in-lbs (N-m)
6-32	9.6 in-lb (1 N-m)
8-32	19.8 in-lb (2.5 N-m)
12-24	55 in-lb (6 N-m)
1/4-20	75.2 in-lb (9 N-m)
5/16-18	132 in-lb (16 N-m)

- Periodically, re-lubricate the above components of the device.