

INSTALLATION INSTRUCTIONS PDU8500

Effective date: February 20, 2026
Supercedes: All Previous

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NOT TO SCALE

PDU8500 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.

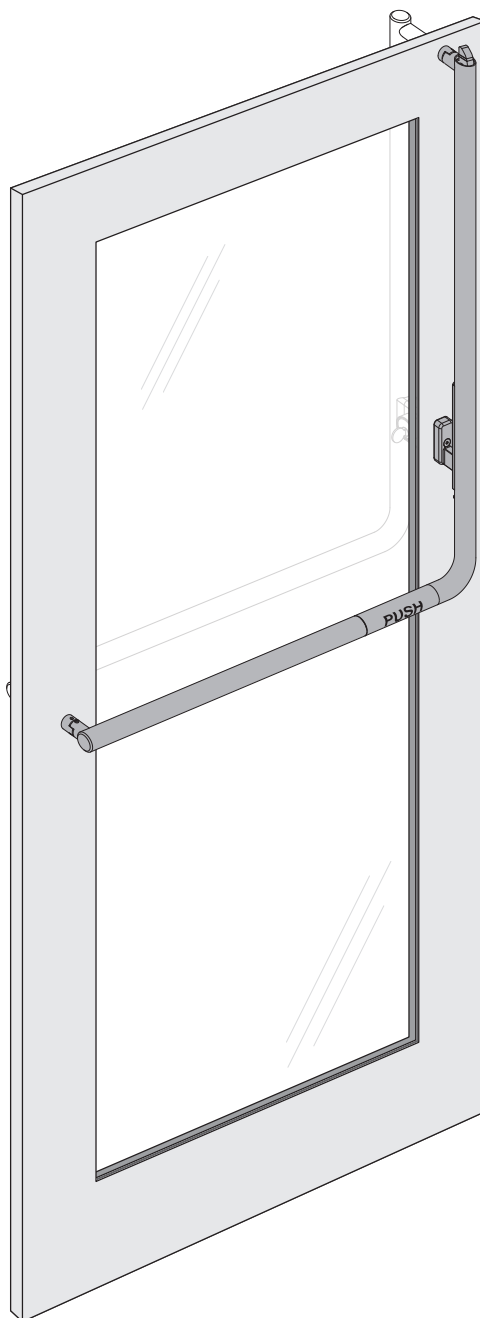


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1. Introduction

1.1 Description

- The PDU8500 Series Panic Device offers superior functionality for egress and security needs.
- Please read the Installation Instructions in this manual carefully before installing the Panic Device.
- The PDU8500 installs the same on the following door types: Storefront, Wood and Metal.
- The framing conditions are different for Hollow Metal Frames.
- 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

1.3 Dogging Feature

- The Dogging Feature is located on the bottom of the Panic Device Assembly vertical tube, directly under the Actuator Post Assembly.
- Engage the Horizontal Crash Bar and slide the Dog Button to the up position.
- The Panic Device Assembly is dogged when the Dog Button is in the up position. Refer to Figure 1-1.
- The Panic Device Assembly is un-dogged when the Dog Button is in the down position. Refer to Figure 1-2.

Note: For security dogging use flat head screwdriver to slide dog button into position. Refer to figure 1-3 and 1-4.

Figure 1-1
Dogged Position

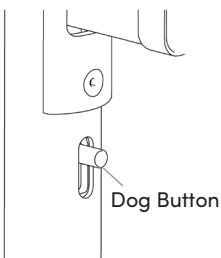


Figure 1-2
Un-dogged Position

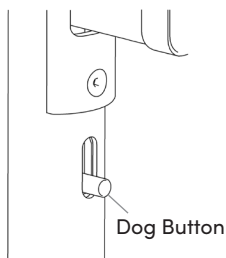


Figure 1-3
Dogged Position

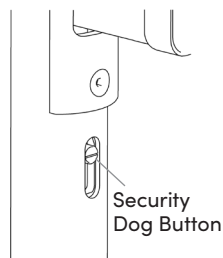
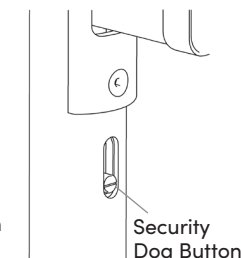


Figure 1-4
Un-dogged Position



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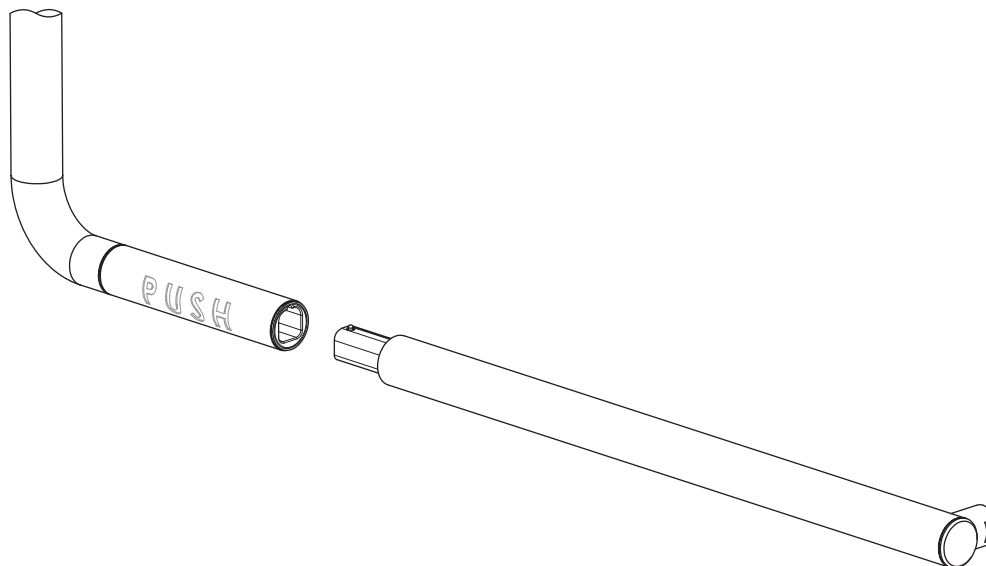
2. Instructions for Storefront, Wood and Metal Doors

2.1 Modular Panic

2.1.1 Locating Modular Tube Orientation

- Modular panic device tubes each contain an insert as shown in image.
- These tubes will be labeled with a removable PANIC TUBE sticker.

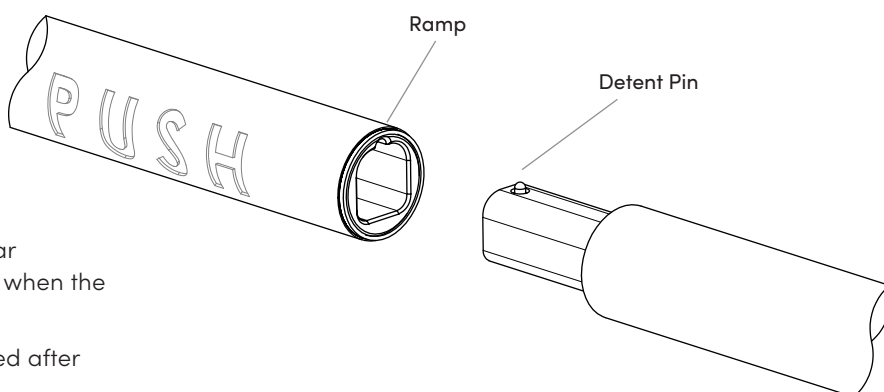
(Note the far end of the horizontal panic device tube has the coped base for the pivot. Mating pull tube will have a solid post.)



2.1.2 Aligning Modular Panic Tubes

- The panics tubes will only slide together in one orientation due to the shape of the inserts.
- Align the detent pin in the horizontal panic tube with the ramp in the L tube.
- Push tubes together until they are tight against one another, You should hear the detent pin releasing inside the L tube when the horizontal tube is fully inserted.

(The panic device cannot be disassembled after the detent pin releases.)



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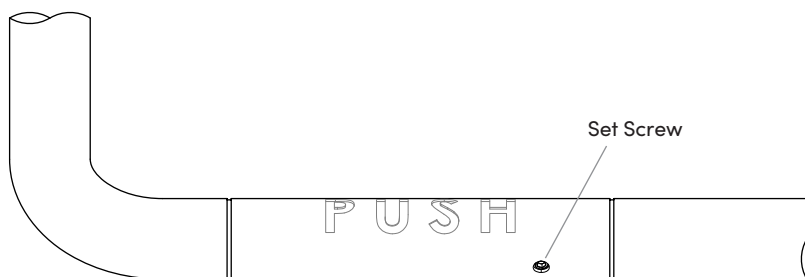
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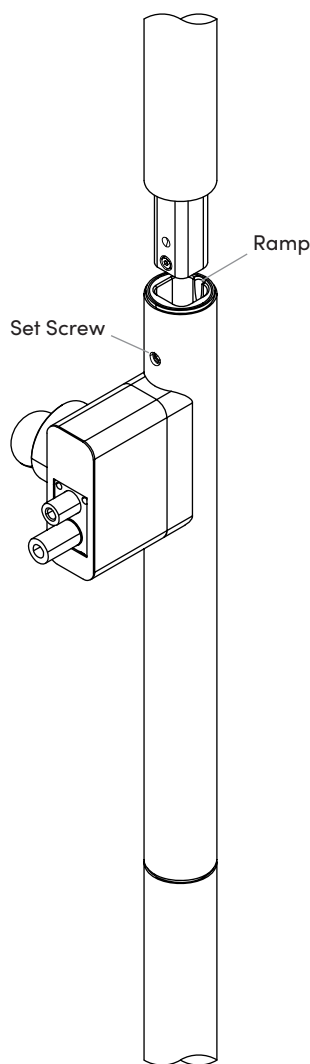
2.1.3 Installing Modular Panic Tubes

- The final step is to tighten the set screw which is accessible from the bottom side of the PUSH region. Use a 1/8" hex drive wrench to tighten set screw.



2.1.4 Mating Pull Modular Tubes Installation

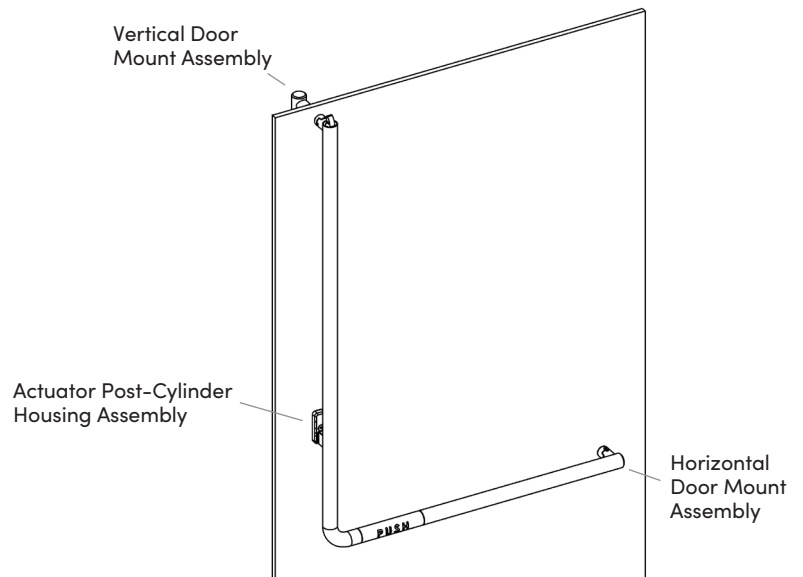
- Mating pull tubes will be labeled with a removable MATING PULL sticker.
- The mating pull for modular panics contains scribe lines at the grip region. The tubes are assembled at the top scribe line location.
- Steps for assembling the mating pull are the same as the panic device tubes. The set screw is located above the cylinder housing.
- Mating pull L tubes are assembled at scribe lines which are in the same location as the panic L tubes.



2.2 Panic Device Installation

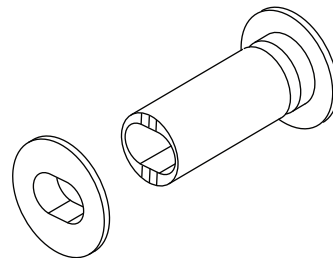
2.2.1 Install Panic Device on Door

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



2.2.2 Install Alignment Bushing and Spacer

- You can adjust the Alignment Bushing and Spacer by rotating it.
- Make the necessary adjustment to get equal spacing between the sides of the Actuator Post Assembly and the tube opening.



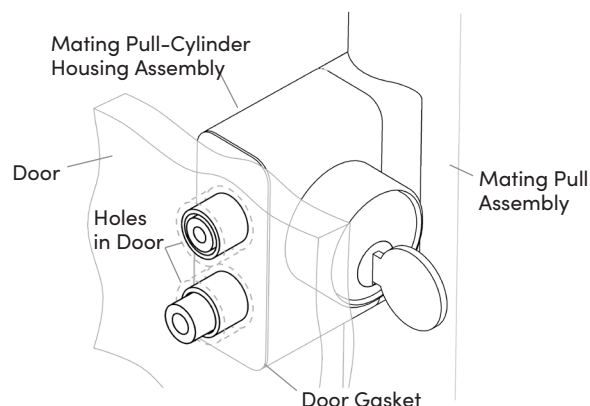
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2.2.3 Install Mating Pull

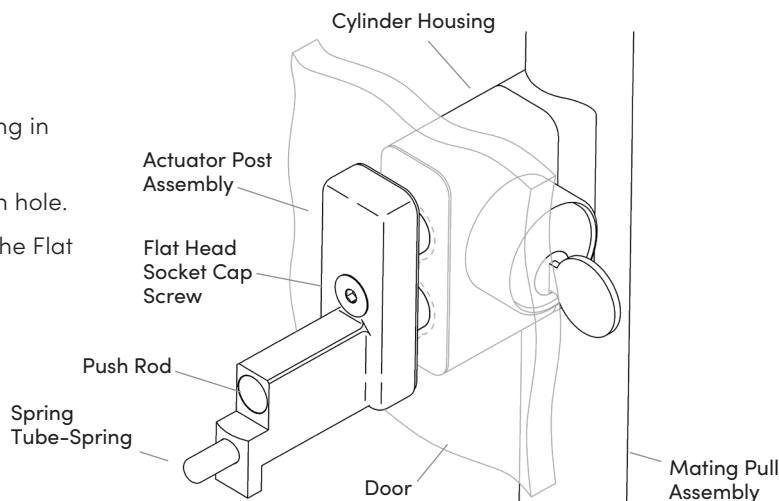
- Place the Mating Pull Assembly on the Door.
- Install the Mating Pull-Cylinder Housing Assembly with the Door Gasket through the holes in the Door.
- Make sure that the posts that are sticking out from the Mating Pull-Cylinder Housing Assembly go through the holes in the door.



2.2.4 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.

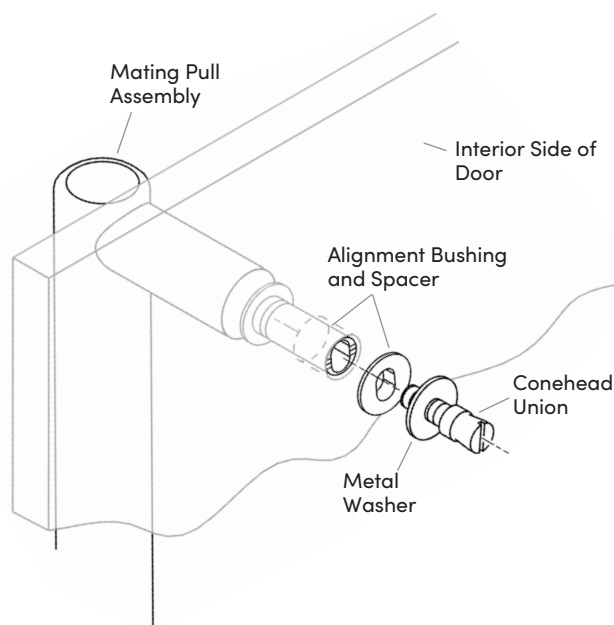
CAUTION: Make sure that the Spring Tube-Spring and the Push Rod are inserted into the Actuator Post Assembly.



2.2.5 Install Vertical Door Mount

- Place one side of Alignment Bushing and Spacer in the hole of the door.
- When placing the other side of the Alignment Bushing in the hole of the door, orient the pin and push into other side of spacer.
- Position the Mating Pull Assembly against the exterior side of the Door.
- Apply a small drop of Threadlocker to the threads of the Stud ($\frac{5}{16}$ "-18).
- 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.
- Slide the Conehead Union ($\frac{5}{16}$ "-18) with the Metal Washer through the Alignment Bushing in 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.

CAUTION: Depending on weatherstripping, extra metal washers provided may be required.

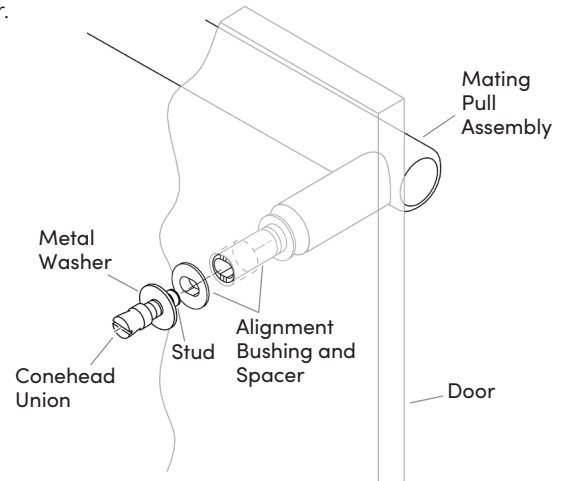


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2.2.6 Install Horizontal Door Mount

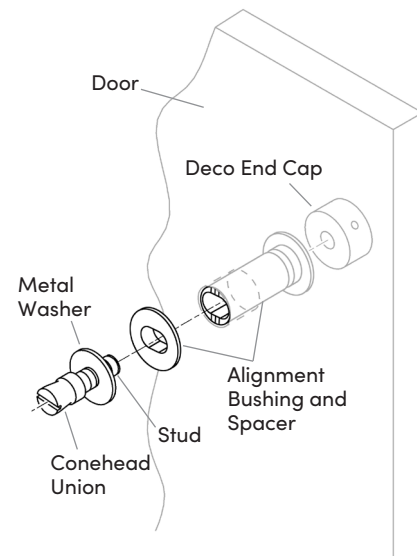
- Place one side of Alignment Bushing and Spacer in the hole of the door.
- When placing the other side of the Alignment Bushing in the hole of the door, orient the pin and push into other side of spacer.
- Position the Mating Pull Assembly against the exterior side of the Door.
- Apply a small drop of Threadlocker to the threads of the Stud ($\frac{5}{16}$ "-18).
- 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.
- Slide the Conehead Union ($\frac{5}{16}$ "-18) with the Metal Washer through the Alignment Bushing in 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.



CAUTION: Depending on weatherstripping, extra metal washers provided may be required.

2.2.7 Install Horizontal Door Mount (Deco End Cap Option)

- Place one side of Alignment Bushing and Spacer in the hole of the door.
- When placing the other side of the Alignment Bushing in the hole of the door, orient the pin and push into other side of spacer.
- 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 Alignment Bushing in 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.



CAUTION: Depending on weatherstripping, extra metal washers provided may be required.

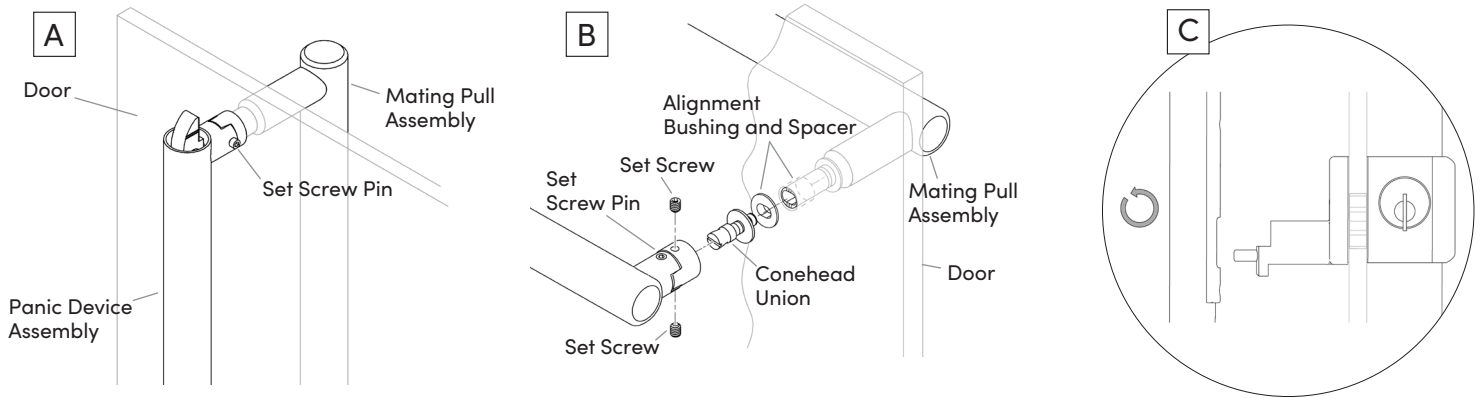
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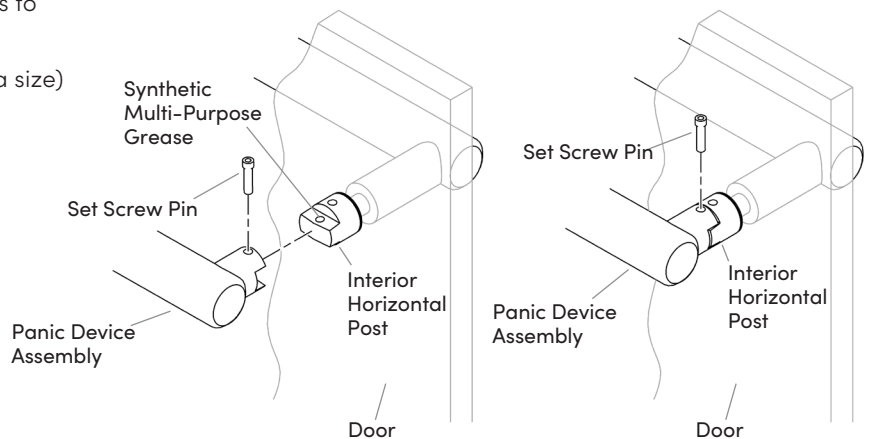
2.2.8 Install Panic Device on Door

- 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.



2.2.9 Horizontal End Threadlocker and Lube Application

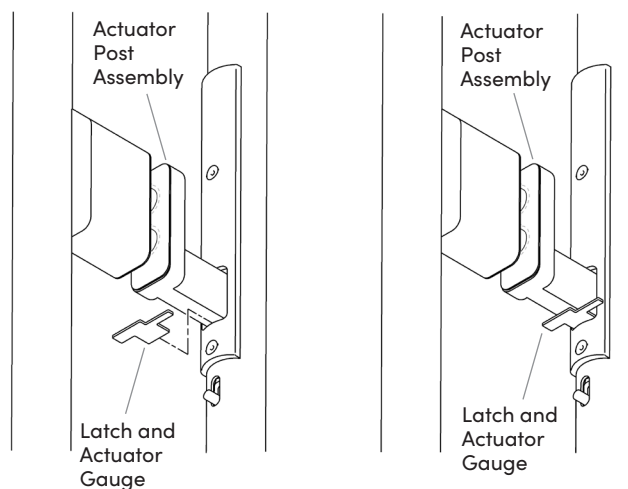
- Remove the Set Screw Pin and move the Panic Device Assembly to the side to allow access to the Interior Horizontal Post hole.
- Apply Synthetic Multi-Purpose Grease (pea size) to the inside of the hole of the Interior Horizontal Post.
- Install the Panic Device Assembly Handle back on the Panic Device Assembly.
- Apply a small drop of Threadlocker to the threads of the Set Screw Pin.
- Install the Set Screw Pin.



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2.2.10 Align Actuator Gauge

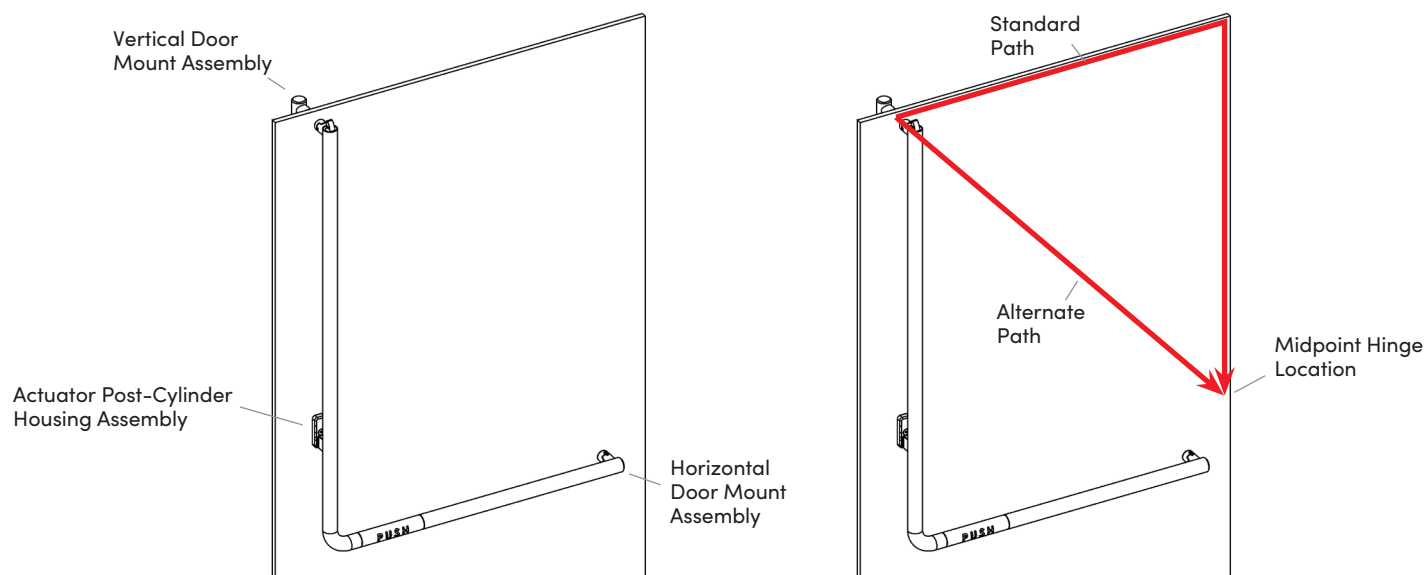
- Install the Latch and Actuator Gauge in the bottom of the Actuator Post Assembly.
- If the Latch and Actuator Gauge cannot be installed, the alignment must be adjusted.
- Realign the Panic Device Assembly as necessary. Refer to Section 2.2.2, Install Alignment Bushing and Spacer.
- Do not operate the Panic Device if the Latch and Actuator Gauge does not fit.



2.3 Panic Device Installation with REX Wiring

2.3.1 Install Panic Device on Door

- Lay the door flat with the exterior side facing down on a pair of saw horses.
- Top mounting location will have additional hole for Rex Monitoring to feed wire into door
- Here are two recommended wiring paths to the middle hinge location, if using different path than these, please reach out to the factory to confirm new wire path
- Standard, UL Molex connectors and other wiring components, must be used on end of panic device wiring

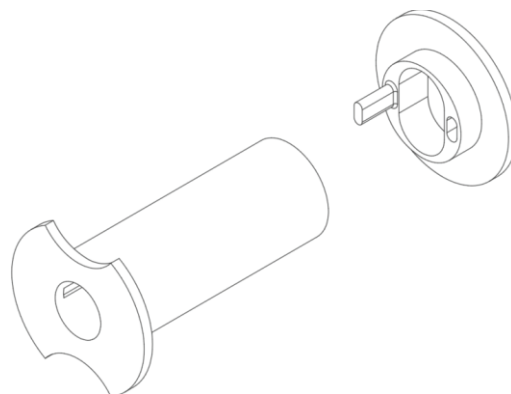


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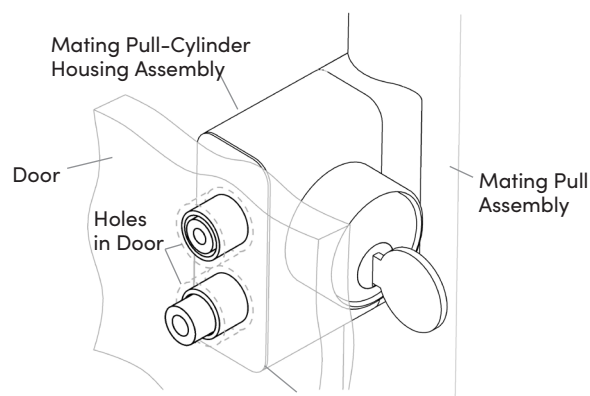
2.3.2 Install REX Bushing and Spacer

- Alternate bushing and spacer design must be used with REX Monitor in order to feed wire into door construction.
- Alternate Bushing and spacer for top mounting location will not be able to be rotated for adjustments.
- For equal spacing between sides of the Actuator Post Assembly and the tube opening, use rotation and adjustment of alignment bushing at the horizontal mounting location.



2.3.3 Install Mating Pull

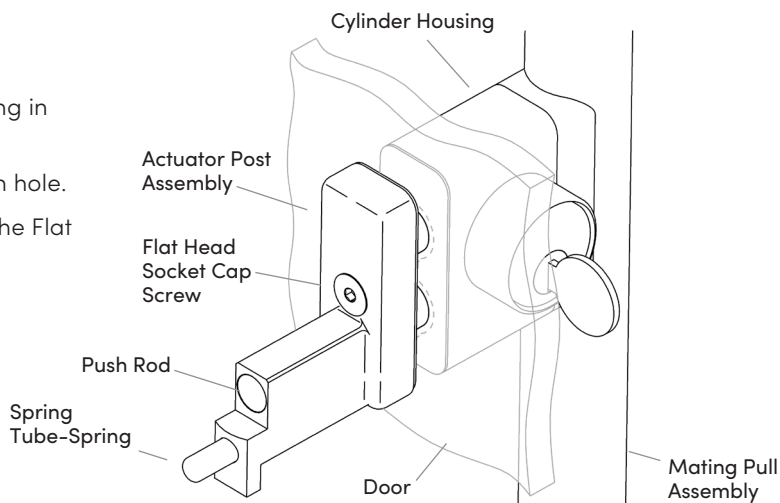
- Place the Mating Pull Assembly on the Door.
- Install the Mating Pull-Cylinder Housing Assembly with the Door Gasket through the holes in the Door.
- Make sure that the posts that are sticking out from the Mating Pull-Cylinder Housing Assembly go through the holes in the door.



2.3.4 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 (1/4"-20).
- Install the Flat Head Socket Cap Screw (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.



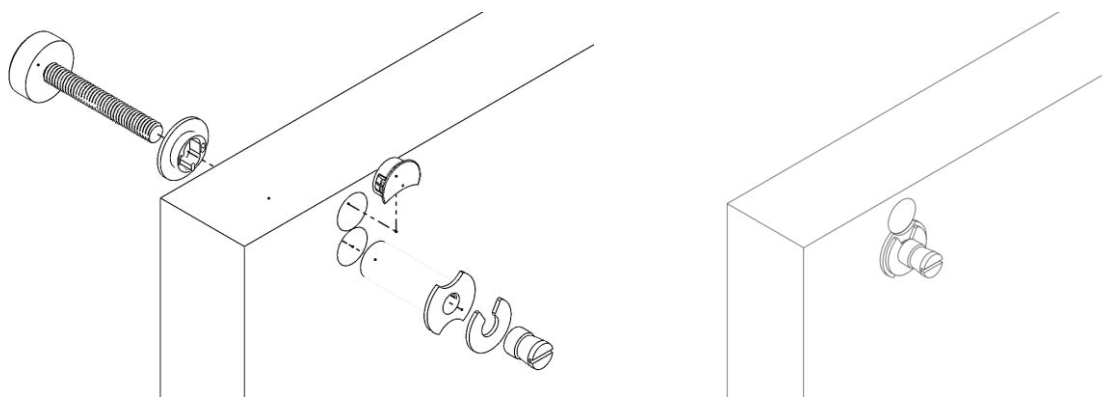
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2.3.5 Install Vertical Door Mount with REX Wiring

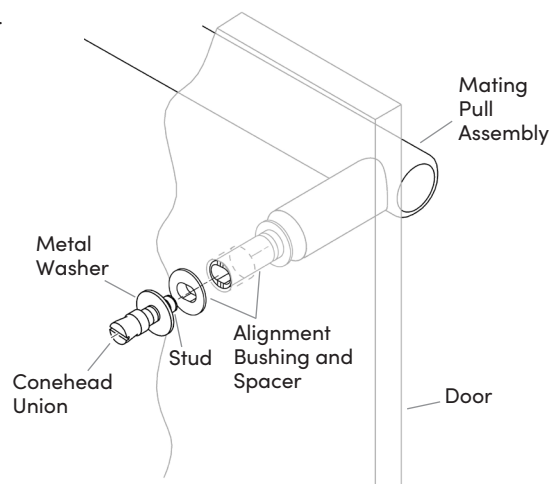
- The top vertical mounting location with REX Monitoring will have an additional hole above the typical hole that is at the top vertical mounting location. This hole is for chasing the wires into the door.
- Place short side of bushing onto stud of Deco cap/stud assembly with pin side facing away from deco cap.
- Insert this assembly into exterior side of top vertical mounting location.
- Insert long portion of bushing into interior side of top vertical mounting location aligning one of the slotted holes with the pin on the short side of the bushing.
- Apply a small drop of Threadlocker to the threads of the stud.
- Hold metal washer in place over the end of the stud protruding on the interior side of the mount location while screwing the conehead union onto the stud.

NOTE: Cut out on metal washer MUST be oriented towards the top of the door in order to allow passage of the wiring from the panic device into the door.



2.3.6 Install Horizontal Door Mount

- Place one side of Alignment Bushing and Spacer in the hole of the door.
- When placing the other side of the Alignment Bushing in the hole of the door, orient the pin and push into other side of spacer.
- Position the Mating Pull Assembly against the exterior side of the Door.
- Apply a small drop of Threadlocker to the threads of the Stud ($\frac{5}{16}$ "-18).
- 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.
- Slide the Conehead Union ($\frac{5}{16}$ "-18) with the Metal Washer through the Alignment Bushing in 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.



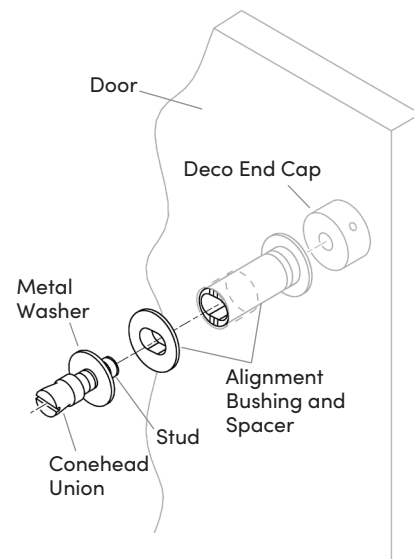
CAUTION: Depending on weatherstripping, extra metal washers provided may be required.

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2.3.7 Install Horizontal Door Mount (Deco End Cap Option)

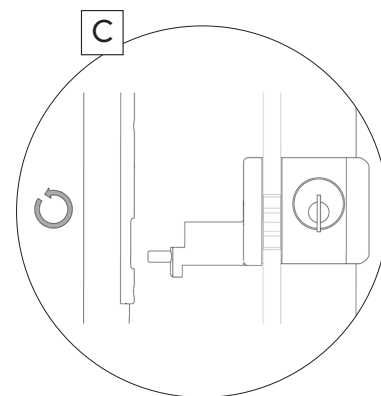
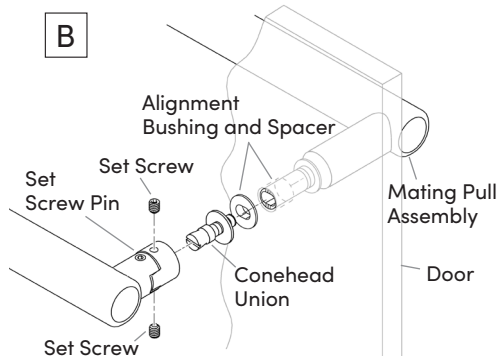
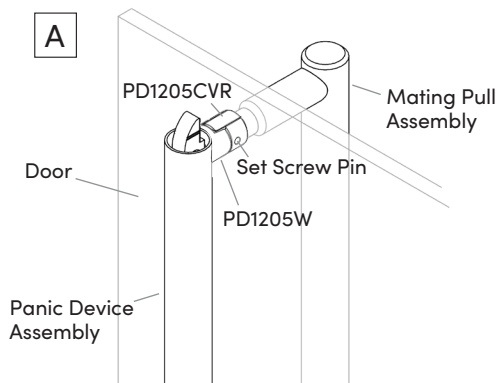
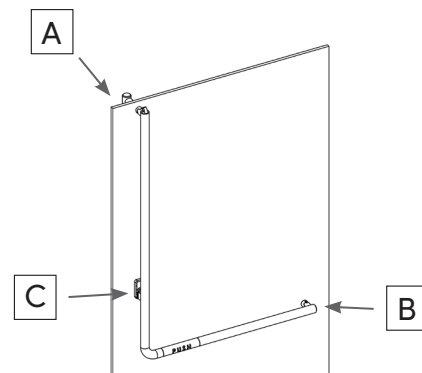
- Place one side of Alignment Bushing and Spacer in the hole of the door.
- When placing the other side of the Alignment Bushing in the hole of the door, orient the pin and push into other side of spacer.
- Apply a small drop of Threadlocker to the threads of the Stud ($5/16$ "-18).
- Insert the Stud ($5/16$ "-18) into the Deco End Cap.
- Slide the Stud ($5/16$ "-18) with the Deco End Cap through the Alignment Bushing in the hole in the Door on the exterior side of the door.
- Place the Metal Washer onto the Stud ($5/16$ "-18) on the interior side of the Door.
- Apply a small drop of Threadlocker to the threads of the Stud ($5/16$ "-18).
- Screw the Conehead Union ($5/16$ "-18) onto the Stud ($5/16$ "-18) on the interior side of the Door.



CAUTION: Depending on weatherstripping, extra metal washers provided may be required.

2.3.8 Install Panic Device on Door with REX Wiring

- Use the tilt method to install the Panic Device Assembly on the Door.
- Attach the Panic Device Assembly to the Conehead Union ($5/16$ "-18).
- Apply a small drop of Threadlocker to the threads of the Set Screws ($1/4$ "-20).
- Install the Set Screws ($1/4$ "-20) and secure until tight.

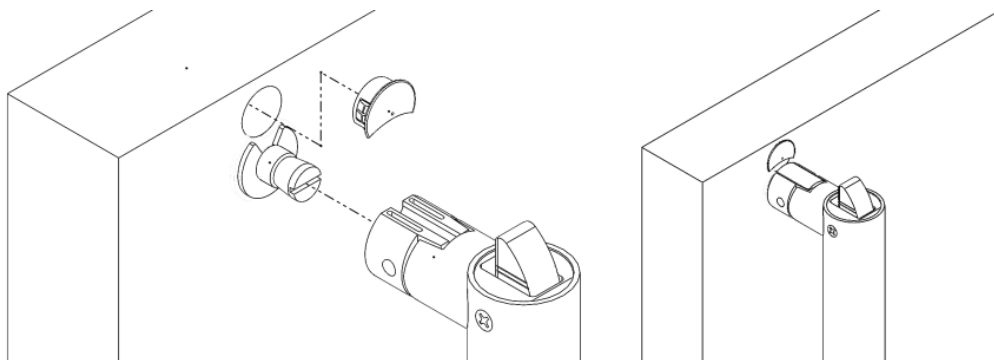


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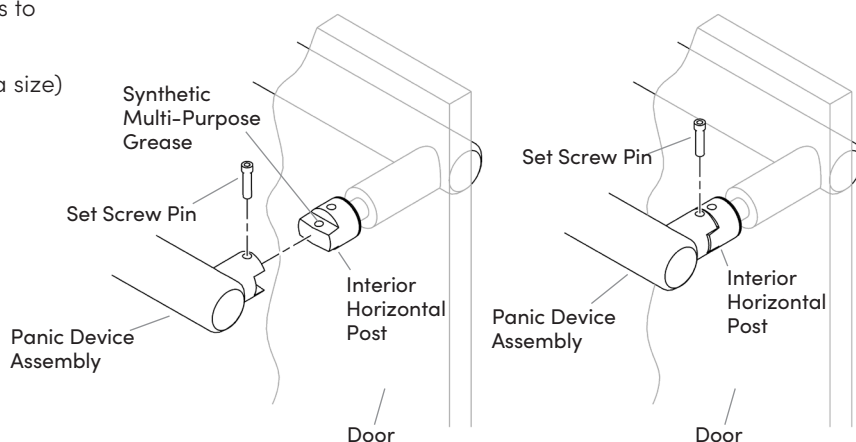
2.3.8 Install Panic Device on Door with REX Wiring (cont')

- Install Panic Device per Section 2.3.8 making sure to hold the wires coming out of the panic device above the PD1205W post so as not to pinch the wires between the post on the panic device and the installed mounting on the door.
- Chase the wires coming out of the panic device through the top slot in PD1205W and into chaseway of door.
- Chase wires over to the middle hinge location.
- Install the PD1205CVR covers into the top and bottom slots of the PD1205W.
- Note: Best installed shifted to the front of the post, then slide the whole way back the slot.
- Lastly, install plug into new top hole of the top vertical mounting location making sure orientation has the crescent cutout facing away from the top of the door which will allow the wire to pass from the post to the door.



2.3.9 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.



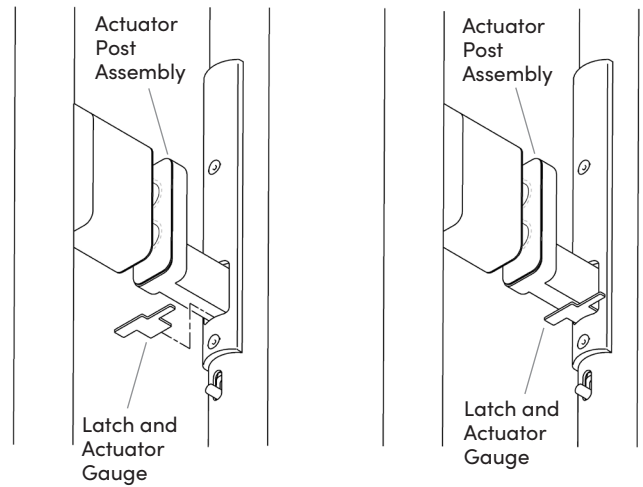
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2.3.10 Align Actuator Gauge

- 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.
- Realign the Panic Device Assembly as necessary. Refer to Section 2.2.2, Install Alignment Bushing and Spacer.
- Do not operate the Panic Device if the Latch and Actuator Gauge does not fit.

Note: Latch Adjustment is not available with Rex Option



3. Latch / Door Stop Adjustment / Cylinder Recommendations

3.1 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.

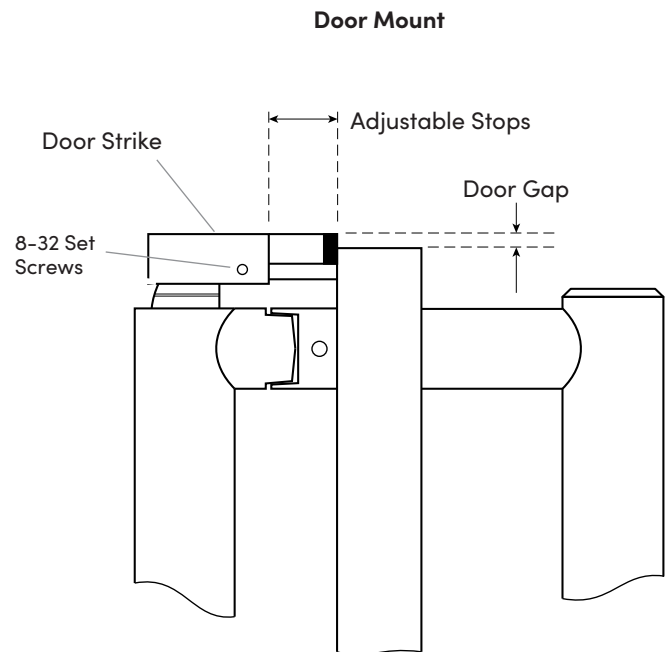


Figure 3-1

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

USING THE LATCH AND ACTUATOR GAUGE

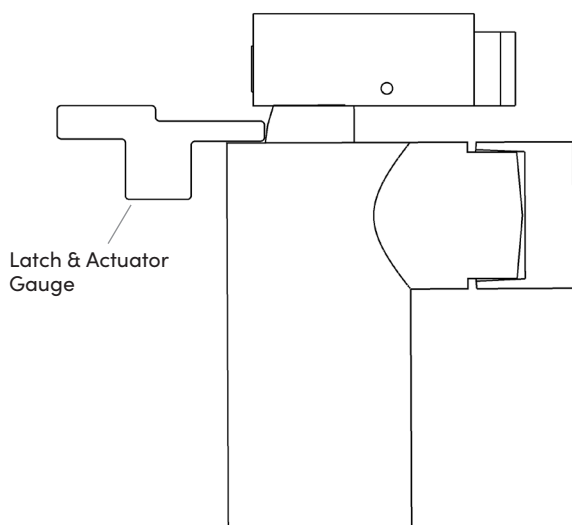


Figure 3-2

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

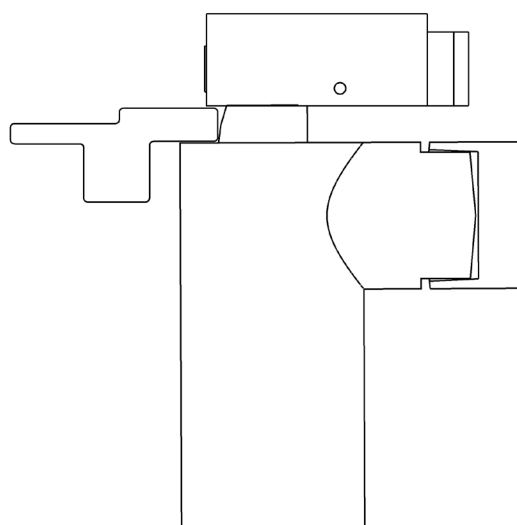


Figure 3-3

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

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3.2 Latch Adjustment for Proper Engagement with the Strike

- The Latch can be adjusted up and down. Figures 3-5 and 3-6 show the maximum and the minimum dimensions for the Strike location.
- Remove the Flat Head Screw (6-32) at the top of the Panic Device Assembly Handle with a $\frac{5}{64}$ " Hex Tool.
- Rotate the Latch a full 360 degrees turn in the left or right direction to get the height adjustment required. Turn in the counter clockwise direction to increase the height. Turn in the clockwise direction to decrease the height.
- Make sure that both of the holes are aligned.
- Apply Threadlocker to the screw before it is replaced.
- After the height adjustment is made, replace the Flat Head Screw (6-32).
- CAUTION: If the screw is not replaced, the latch may rotate. This may cause the Latch to disengage.
- CAUTION: Do not remove the Pan Head Machine Screw (4-40).
- Apply Synthetic Grease to the curve portion of the latch.

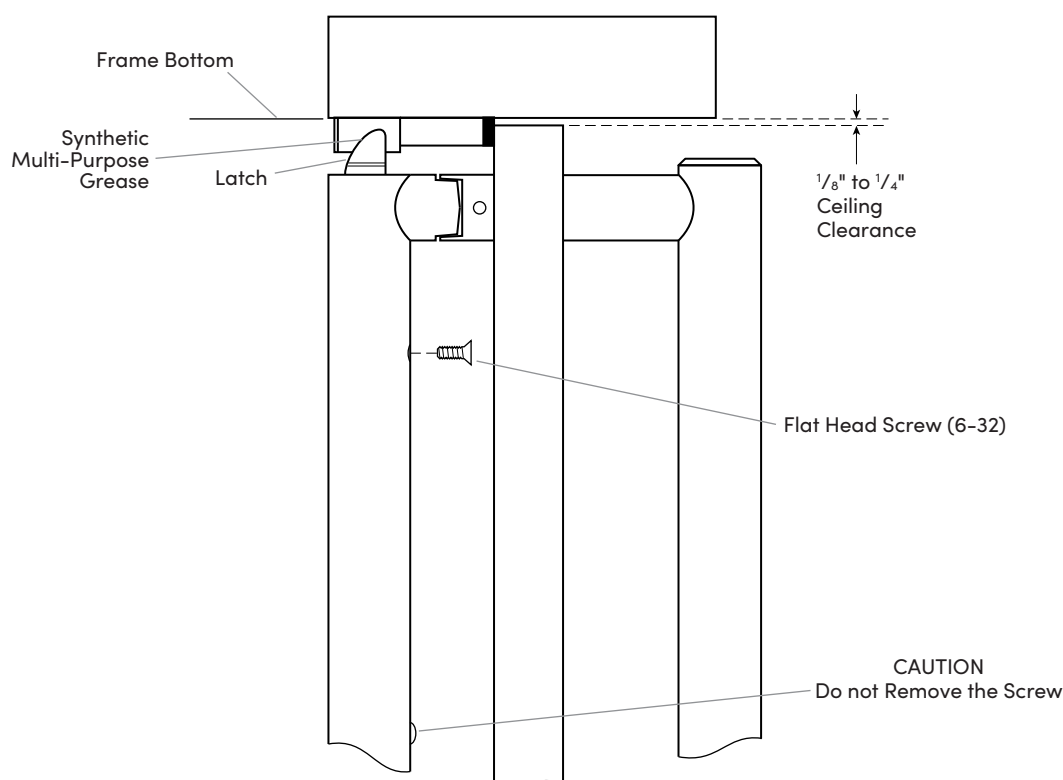


Figure 3-4

NOTE: Latch adjustment is not available with REX option.

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3.2 Latch Adjustment for Proper Engagement with the Strike (Continued)

- Figure 3-5 is for the maximum height from the top of the Tube to the bottom of the Strike.
- Figure 3-6 is for the minimum height from the top of the Tube to the bottom of the Strike.
- One turn of the Latch equals approximately 0.042 inches.

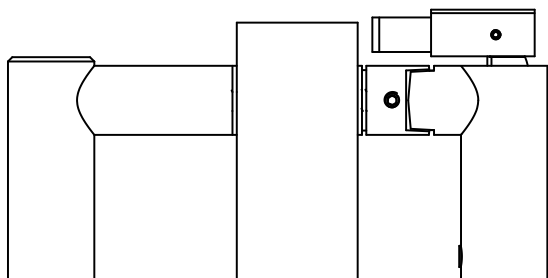


Figure 3-5

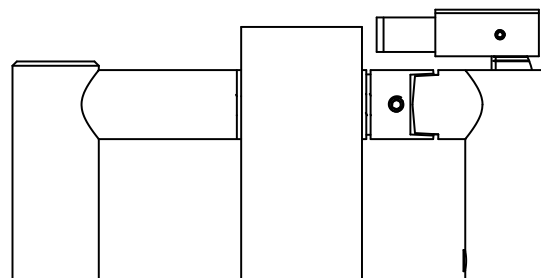


Figure 3-6

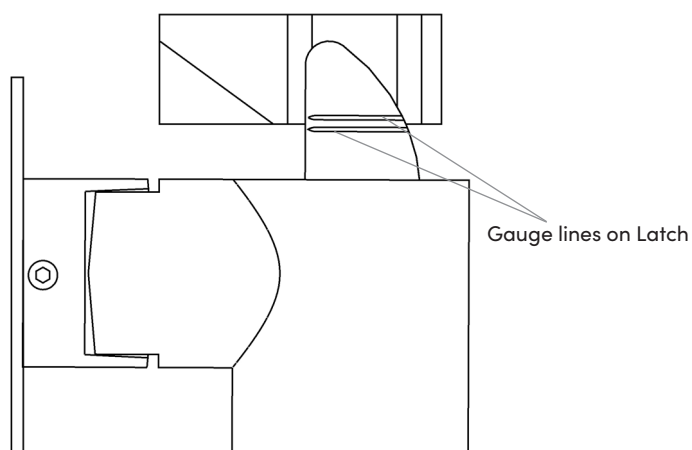


Figure 3-7

NOTE: Latch adjustment is not available with REX option.

3.3 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

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4. Cleaning and Maintenance

4.1 General Maintenance Instructions

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

4.2 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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4.3 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.