1686 MEL CONCEALED EXIT DEVICE

Installation Instructions

November 2023

038315EN

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INTRODUCTION

These instructions show the general installation sequence and procedure for typical installation. Installation Instructions are a supplement to the approved shop drawings and notations on installation and glazing. Use in conjunction with those drawings.

Consult the KawneerDirect website for the latest updates to these instructions before beginning work on your project.

WARRANTY DISCLAIMER
Any modification of the Exit Device done in the field shall void the warranty of this product. Kawneer cannot guarantee the proper function of an Exit Device that has gone through any type of modification.

APPLICATION NOTICE
Use the 1686 MEL Concealed Exit Device only for:

- **Interior Locations** - The electrically operated mechanism should not be exposed to water or the weather.
- **Door Openings up to 10 Feet** - the rods for this device only operate properly for openings up to 10' 0" in height.

Contacting Kawneer

For contact information, visit www.Kawneer.com.

Conventions Used in this Document

These symbols identify special types of information that can help you use the document more effectively.

Symbol	Description
NOTE	Denotes general information that provides additional context or guidance
IMPORTANT	Denotes information to which you should pay special attention
TIP	Denotes information that can help you perform a task more efficiently

Metric (SI) Conversion. Metric (SI) conversion figures are included throughout this document for reference. Numbers in parentheses ( ) are millimeters unless otherwise noted. The following metric (SI) units may also appear: m – meter; cm – centimeter; mm – millimeter; s – second; Pa – pascal; MPa – megapascal.

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Safety Notices

These symbols identify hazards and conditions related to personal safety and equipment.

Symbol	Description
WARNING	Indicates a hazard that **can** result in serious personal injury or death
CAUTION	Indicates a hazard that **can** result in personal injury
NOTICE	Indicates a situation that **can** result in equipment or property damage, but poses no risk of personal injury

Tools Required for Installation

- Tape measure
- Level
- Drill
- 1/4" slotted screwdriver
- Drill bits: #16 (0.177"), #26 (0.147"), 1/8", 5/32", and 5/16"
- 5/64", 1/8", and 9/64" hex keys
- Phillips head screwdrivers/bits
- Caulk gun
- Utility knife
- Rubber mallet
- Side cutters or snips
- Wire stripping tool
- Hook tool for center-rod assembly alignment
- Rod adjustment wrench (provided)

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Wiring And Parts Identification

NOTICE

1. Coordinate all wiring with a licensed electrical installer.
2. Install exit device **for interior applications only**. Exterior installation may result in damage to device.
3. Point-to-point wiring diagram to be supplied for each project at time of installation.
4. Do not exceed 200' of run with 18/2 wire from power supply to exit device.

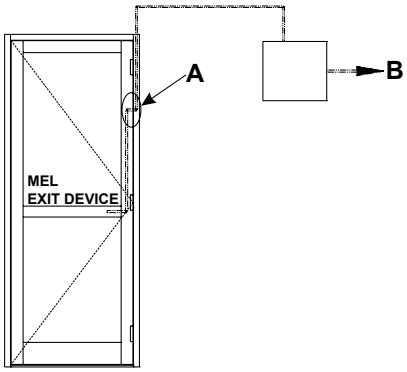
Basic Wiring Diagram

NOTE

Refer to 050421 or 050425 Wiring Diagrams for additional information.

Electrical Specification

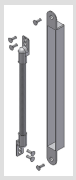
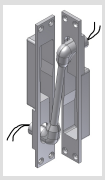
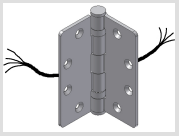
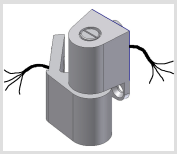
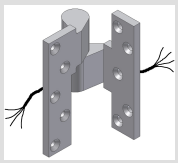
Voltage	24 Vdc ± 10%



A	Power Transfer (Example: EPT wire transfer) Kawneer 050396
B	NP1 Power Supply Kawneer 050419 (Reference power supply specifications for more features)

Power Transfers

Available Power Transfers

Available With	EPT		Kawneer EL Butt Hinge	Kawneer EL Offset Pivot[1]	Optional EL Offset Pivot[1]
					
	KAWNEER 050396	Von Duprin EPT KAWNEER 050405 2 wires (18ga.)	KAWNEER 037238 4 wires (28ga.)	KAWNEER 050392-RH KAWNEER 050393-LH 4 wires (28ga.)	KAWNEER 50397-RH KAWNEER 050398-LH 4 wires (28ga.)
		Von Duprin EPT KAWNEER 050406* 10 wires (24ga.)	KAWNEER 037239[2] 8 wires (28ga.)	KAWNEER 050394-RH[2] KAWNEER 050395-LH[2] 8 wires (28ga.)	KAWNEER 050398-RH[2] KAWNEER 050399-LH[2] 8 wires (28ga.)
190/350/500 STANDARD	X		X	X	X
HEAVY WALL	X		X		X
250T/350T/500T Insulpour®	X		X	X	X

NOTICE

[1] Do not disassemble offset pivots. Disassembling these pivots will break wire.

[2] For use with device and auxiliary hardware such as RX switch.

Parts Breakdown

REQUIRED POWER SUPPLY

Use only the NP1 Power Supply (050419) with this exit device. No other power supplies are permitted. Using a power supply by others will void the warranty.

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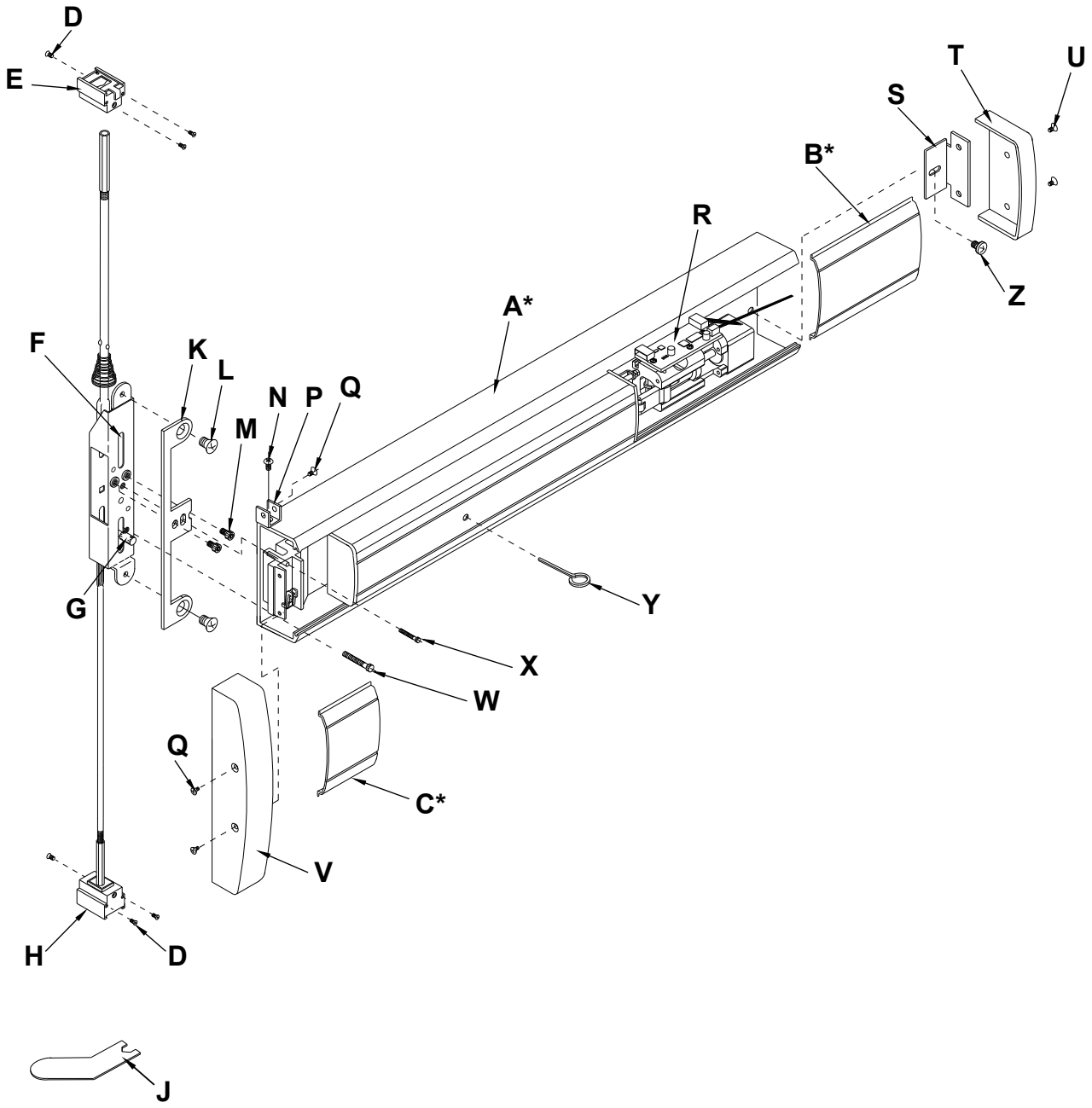
RH Shown, LH Opposite



REF	QTY	DESCRIPTION
A *	1	EXIT DEVICE BASE ASSEMBLY (SIZED ACCORDING TO PART NUMBER)
B *	1	HINGE/PIVOT FILLER PLATE (SIZED ACCORDING TO PART NUMBER)
C *	1	LATCH FILLER PLATE
D	6	TOP AND BOTTOM GUIDE ATTACHMENT FASTENERS
E	1	TOP ZINC GUIDE BLOCK
F	1	CENTER ROD ASSEMBLY W/STANDARD TOP BOLT AND FLAT HEX BOTTOM BOLT

REF	QTY	DESCRIPTION
G	1	STANDARD LIFT PIN FOR 1 3/4" AND 2" THICK DOOR
H	1	BOTTOM ZINC GUIDE BLOCK
J	1	ROD ADJUSTMENT WRENCH
K	1	SPACER PLATE -PLATED STEEL
L	2	1/4"-20 x 1/4"LG. FLAT HEAD SCREW
M	2	#8-32 HOUSING ASSEMBLY ATTACHMENT FASTENERS
N	2	HOUSING COVER BRACKET FASTENERS
P	2	HOUSING COVER BRACKET
Q	4	HOUSING COVER ATTACHMENT FASTENERS (BLACK)
R	1	MEL MECHANISM / CIRCUIT BOARD / END CAP WITH BRACKET WITH RX SWITCH
S	1	END CAP MOUNTING BRACKET
T	1	HINGE/PIVOT END CAP (BLACK MATTE FINISH)
U	2	END CAP FASTENERS (BLACK)
V	1	METAL HOUSING COVER (BLACK MATTE FINISH)
W	1	#12-24 PANIC ATTACHMENT FASTENER
X	1	#8-32 PANIC ATTACHMENT FASTENER
Y	1	DOGGING KEY
Z	1	HINGE/PIVOT STILE ATTACHMENT FASTENER
* Indicates part to be in a color to blend with door finish.		

NOTICE

- For 350/500 heavy wall doors installation, remove items K and L.
- For 3/16" (0.188") wall thickness, use the extended trigger top bolt guide part number 133628.

Available Finishes

KAWNEER FINISH	MANUFACTURER FINISH
17 CLEAR	US28/628
40 BRONZE	DBZ 313

Touch Bar Concealed Exit Device Numbers

Kawneer Part Number	Exit Device Height	Exit Device Handing
133620MEL	3'-0"	Right Hand
133621MEL	3'-0"	Left Hand
133622MEL	3'-6"	Right Hand
133623MEL	3'-6"	Left Hand
133624MEL	4'-0"	Right Hand
133625MEL	4'-0"	Left Hand

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INSTALLATION

APPLICATION NOTICE

Use the 1686 MEL Concealed Exit Device only for:

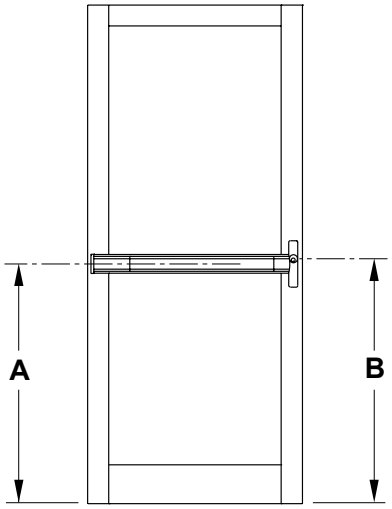
- **Interior Locations** - The electrically operated mechanism should not be exposed to water or the weather.
- **Door Openings up to 10 Feet** - the rods for this device only operate properly for openings up to 10' 0" in height.

Center Rod Assembly Installation

IMPORTANT

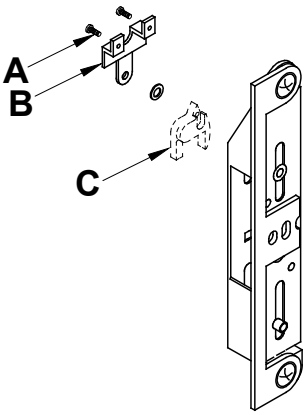
- For all active doors with cylinder locking, activate the cylinder dogging mechanism before inserting center rod assembly into the active door stile.
- For active pairs of 190 Narrow Stile Entrance doors, cut the welded nut plate fasteners flush with nut plate to allow center rod assembly to slide into an active door stile.

Device Height



A	40" height to device center line
B	40-13/16" height to cylinder center line

Remove Cylinder Dogging Pawl

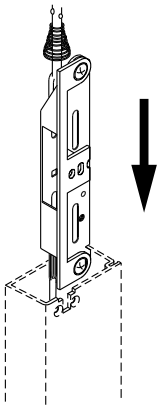


A	Bracket retaining fasteners
B	Bracket
C	Cylinder dogging pawl

1. Loosen two (2) bracket-retaining fasteners.
2. Discard dogging pawl.
3. Reinstall bracket and retaining fasteners onto center-rod assembly.

Install Center Case

1. Slide center-rod assembly into active or inactive door stile.



2. Using a hook tool, align center-rod assembly with factory prepped hole in door stile.

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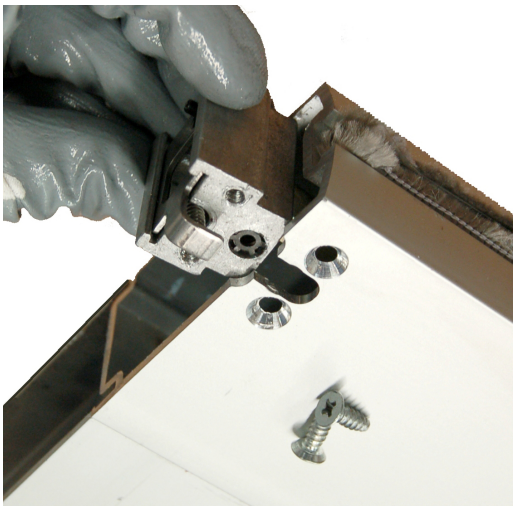
3. Insert two (2) #8-32 x 1/4" socket hex screws into stile and center-rod assembly.

> **NOTICE**
> Hand tighten only. Over-tightening these screws will draw-in and bind the center-rod casement mechanism.

4. Secure screws using 9/64" hex key.
5. Adjust top and bottom bolts with the provided rod adjustment wrench.
   - Turn bolts counterclockwise to lengthen and clockwise to shorten.
   - Top and bottom bolts should extend beyond the door stile.

Install Top Guide



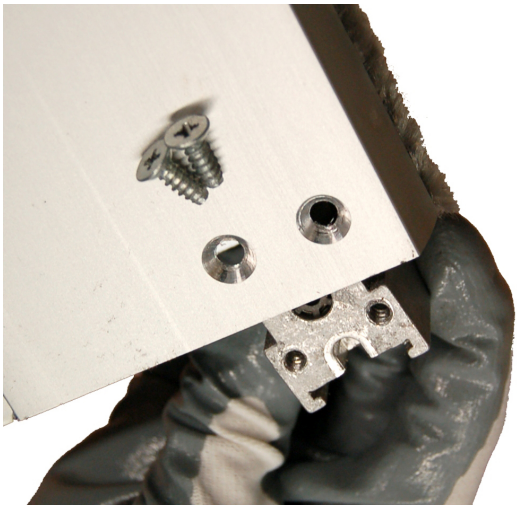
1. Install top guide over top bolt and slide into door stile.
2. Attach guide with two (2) #10 x 1/2" FH undercut fasteners on interior door stile.

> **NOTICE**
> 250T/350T/500T thermal doors require an additional #10 x 1/2" FH undercut fastener on the exterior door stile.

3. Adjust top rod to extend approximately 9/16" beyond door stile.

> **NOTICE**
> This adjustment may cause the exterior cylinder dogging function to be inoperable. If exterior cylinder dogging is required, readjust the rods to extend approximately 1/2" to 9/16" beyond the door stile. Field conditions may cause these dimensions to vary slightly.

Install Bottom Guide



1. Install bottom guide over top bolt and slide into door stile.
2. Attach guide with two (2) #10 x 1/2" FH undercut fasteners on interior door stile.

> **NOTICE**
> 250T/350T/500T thermal doors require an additional #10 x 1/2" FH undercut fastener on the exterior door stile.

3. Adjust bottom rod to extend approximately 1/2" beyond door stile.

> **NOTICE**
> This adjustment may cause the exterior cylinder dogging function to be inoperable. If exterior cylinder dogging is required, readjust the rods to extend approximately 1/2" to 9/16" beyond the door stile. Field conditions may cause these dimensions to vary slightly.

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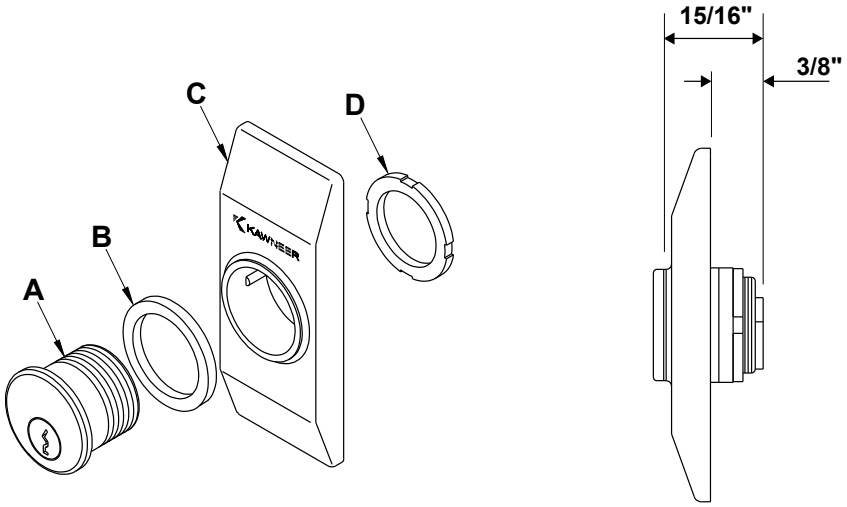
Install Cylinder

1. Assemble cylinder, ring(s), and mounting pad.



A	15/16" Cylinder with 0.800" cam
B	Cylinder Ring(s) if needed
C	Cylinder Mounting Pad
D	Retainer Ring

a. If using cylinder longer than 15/16", add cylinder rings.

Door Size	Required Cylinder Length
1-3/4"	15/16"
2"	1-1/4"
2-1/4"	15/16"

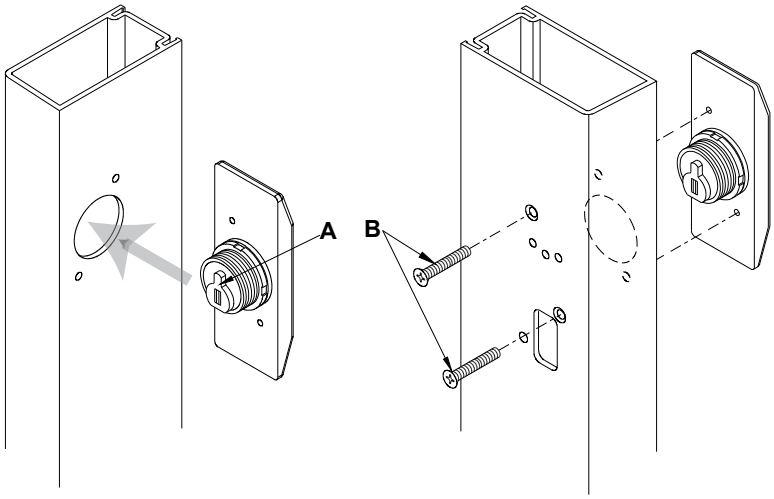
- Use rings that maintain 3/8" projection behind mounting pad.
- Place rings in front of mounting pad.

b. Insert cylinder threads through mounting pad.

c. Tighten retaining ring on cylinder threads to secure.

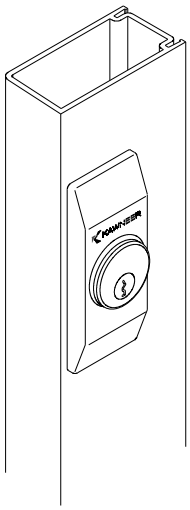
2. Insert cylinder assembly through stile cutout on exterior door side.

> **NOTICE**
> Orient cam upward for proper fit within cylinder dogging pawl assembly.



A	Cylinder cam tailpiece
B	#8-32 x 1-15/16" FHMS for 1-3/4" doors #8-32 x 2-3/16" FHMS for 2" doors #8-32 x 2-7/16" FHMS for 2-1/4" doors

3. Insert two (2) #8-32 FHM screws through interior side of door stile to secure cylinder assembly.
4. Tighten fasteners to square and secure the mounting pad.



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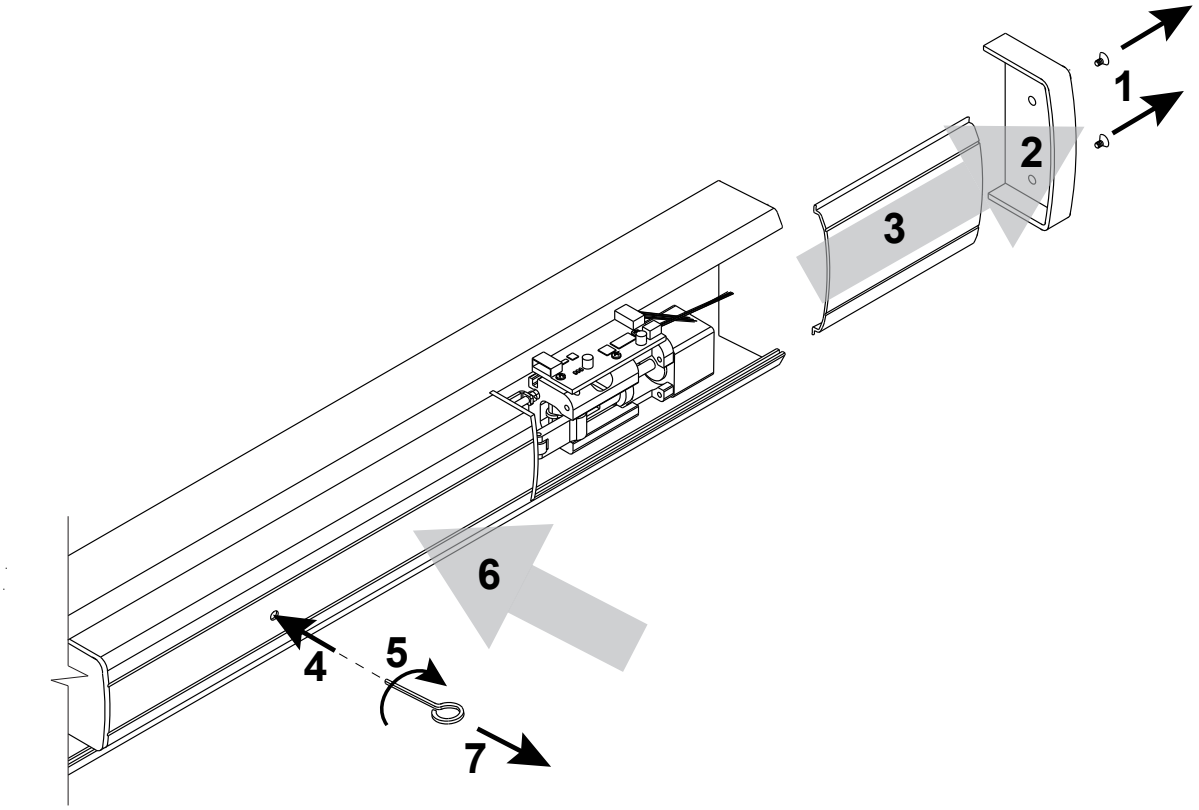
5. After securing center rod assembly, deactivate cylinder dogging mechanism.
   a. Insert key into cylinder.
   b. Turn counterclockwise to deactivate.

Dogging MEL Device

Read all steps before adjusting MEL device.

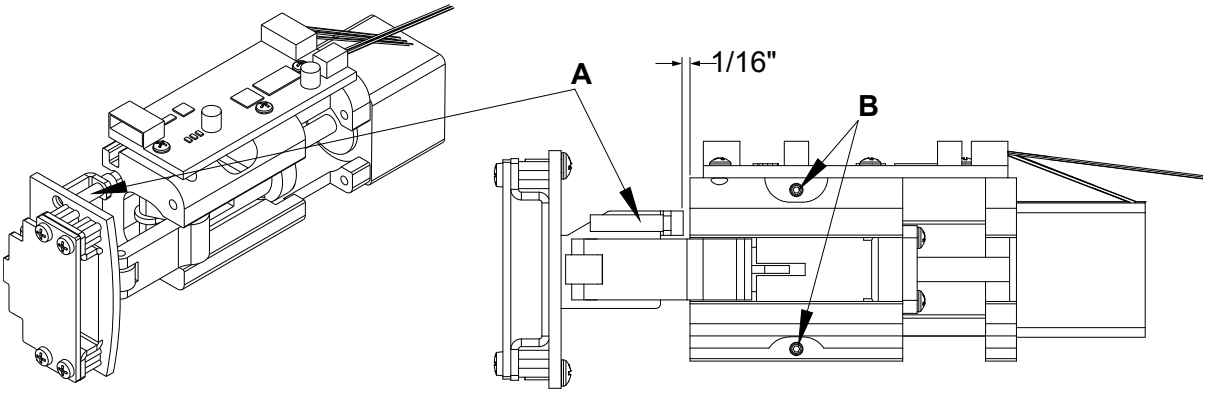


For factory-installed exit device, begin at Step 4:

1. Remove two (2) #6-32 x 1/4" (black) FHM screws securing end cap.
2. Remove pivot-end cap.
3. Slide pivot-end filler plate toward pivot end to expose MEL mechanism.
4. Insert 1/8" hex dogging key through hole in center of push pad.
5. Turn key clockwise 1/4 turn or until mechanism stops completely and hold.
6. Press push pad into exit device base.
7. Remove dogging key.

Adjust MEL (Motor Electrified) Mechanism

If distance between request-to-exit switch and motor assembly is greater or less than 1/16", perform the following steps to adjust the mechanism:



A	Request-to-Exit Switch
B	5/64" Socket Hex Set Screw

1. Loosen top and bottom set screws with 5/64" hex key.
2. Slide MEL mechanism until there is 1/16" clearance between request-to-exit switch and motor assembly.
3. Tighten top and bottom set screws with 5/64" hex key to secure MEL mechanism.

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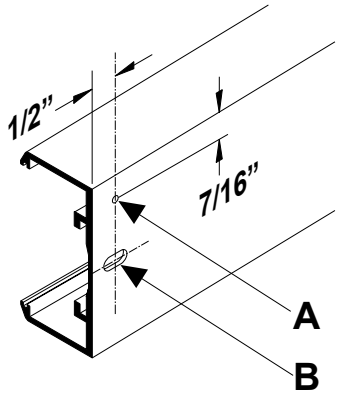
Fabricate Wire Access

After adjusting the MEL mechanism, follow these steps to prep the 5/16"-diameter wire access hole.

1. For factory fabrication, place exit device face down a protective surface to expose the back side and prevent damage to finish.
2. Mark and prep for a 1/8" wire-access pilot hole. Locate the pilot hole:
   - on the pivot-end of the exit device, directly above the 1/4"-20 slotted attachment hole;
   - approximately 1/2" from edge of exit device housing; and,
   - 7/16" from top of exit device base assembly.

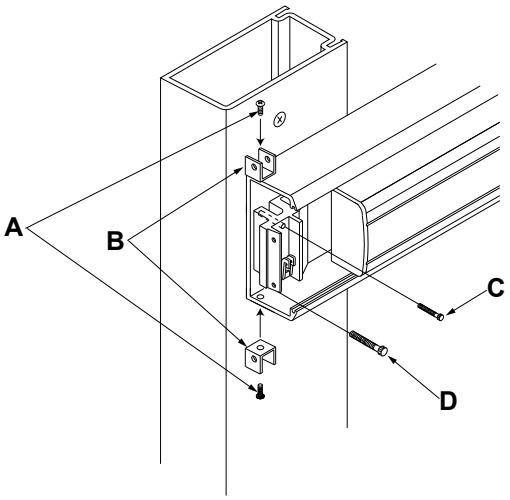


A	1/8" Pilot Hole Location
B	1/4"-20 Slotted Attachment Hole

3. Drill the 1/8" pilot hole.

NOTICE
Protect MEL mechanism while drilling. Chips and debris can damage the device.

4. For factory fabrication, attach device to door:
   a. Attach exit device to lock stile of door using the fasteners below listed by door size.



A	Housing Cover Socket Hex Head Fastener: **1-3/4" door -** (1) " **2" door -** (1) #8-32 x 1-19/32" **2-1/4" door -** (1) #8-32 x 1-5/8"
B	Housing Cover Bracket
C	Lock Stile Fastener: **1-3/4" door -** #12-24 x 1-1/4" PHMS **2" door -** #12-24 x 1-1/4" PHMS **2-1/4" door -**#12-24 x 1-1/4" PHMS
D	Lock Stile Fastener, #12-24 x 1-1/4" PHMS

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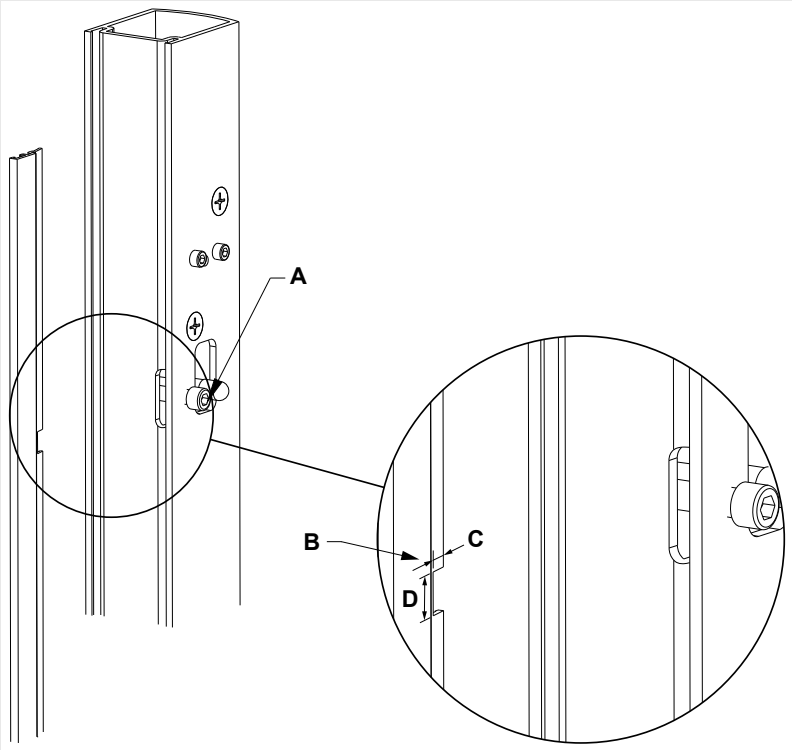
IMPORTANT

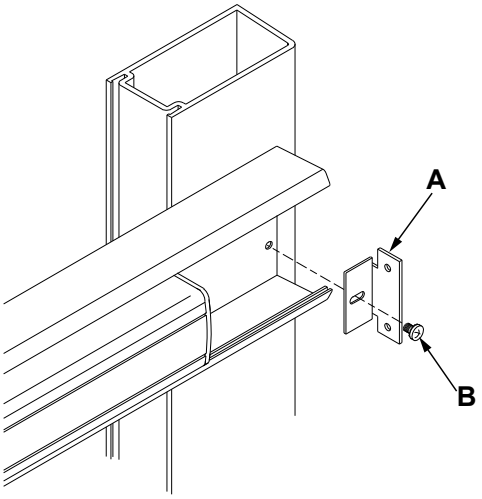
When using the 190 Entrance Stile the #12-24 x 1-1/4" PHMS, Lock Stile Fastener, interferes with the installation of the interior glass stop. The interior glass stop should be notched at this fastener location to allow for installation as shown.



A	Lock Stile Fastener, #12-24 x 1-1/4" PHMS
B	Notch centered on fastener
C	7/32"
D	1/2"

b. Secure with 9/64" hex key and #12 Phillips-head screwdriver.

c. Attach exit device to pivot stile of door using one (1) 1/4"-20 x 1/2" PHM screw through provided end cap mounting bracket.



MEL mechanism not shown for clarity.

A	End Cap Bracket
B	Pivot Stile Fastener, 1/4-20 x 1/2" PHMS

5. Using the 1/8" pilot hole as a guide, drill a 5/16" wire access hole (at a slight upward angle) directly through the exit device base assembly and door stile.

NOTICE
Protect MEL mechanism while drilling. Chips and debris can damage the device.

6. Remove all burrs inside and outside to prevent wire damage.
7. Use an approved wire connector to attach the MEL (Motor Electrified) mechanism to door wiring.
8. Transfer the wiring from door to frame using the 5/16” wire-access hole and an approved EPT (electric power transfer) device. (See “Power Transfers”, page 8.)
9. Complete connections between door wiring and EPT.

IMPORTANT
When using (electrified) EL butt hinges or EL offset pivots, you must use four (4) 28-gauge wires to complete wire transfer from door to frame.

10. Connect EPT (electric power transfer) to NP1 (Kawneer-approved power supply) with 18/2 wire, a maximum of 200 feet from exit device.

NOTICE
Do not disassemble Kawneer offset pivots. Disassembling these pivots will break wire.

11. Use 1/8" hex key to release dogging device.

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12. Test exit device for proper electrical activation. (Refer to “Troubleshooting Guide”, page 30 as needed.)
13. Slide in filler plate at pivot end to cover exit device internal mechanisms.

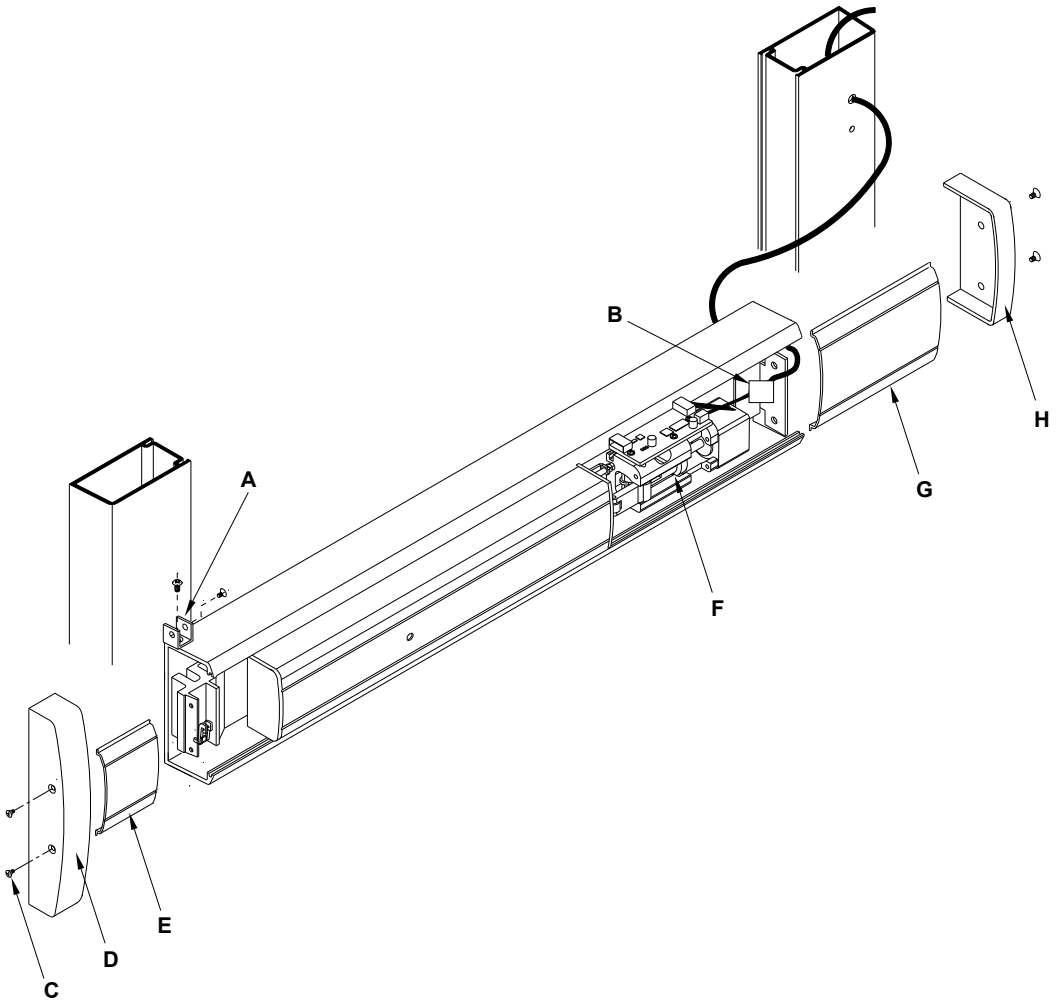
> **NOTICE**
> Avoid contacting circuit board or internal mechanisms with filler plate. Impacts may damage circuit board and prevent proper operation of exit device.

14. Install black pivot-end cap with (2) black #6-32 x 1/4" FHM screws.

15. For factory fabrication, install lock end housing covers:

    a. Attach housing-cover brackets on top and bottom of exit device base assembly at lock stile with one (1) #6-32 x 1/4" PHM screw per bracket.

    b. Attach black, metal, lock-end housing cover at lock stile with four (4) black #6-32 x 1/4" FHM screws.



A	Housing Cover Bracket w/ #6-32 x 1/4" PHMS
B	Approved Wire Connector
C	(6) #6-32 x 1/4" FHMS
D	Lock-end Housing Cover
E	Lock-end Filler Plate
F	MEL (Motor Electrified)
G	Pivot-end Filler Plate
H	Pivot-end Cap

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Final Assembly

1. Slide pivot-end filler into device.
2. Attach pivot-end cap with provided fasteners.
3. Stand door on blocks in vertical position to test operation.
4. Adjust factory-supplied doors to meet the following requirements:

> **NOTICE**
> This adjustment may cause the exterior cylinder dogging function to be inoperable. If exterior cylinder dogging is required, readjust the rods to extend approximately 1/2" to 9/16" beyond the door stile. Field conditions may cause these dimensions to vary slightly.

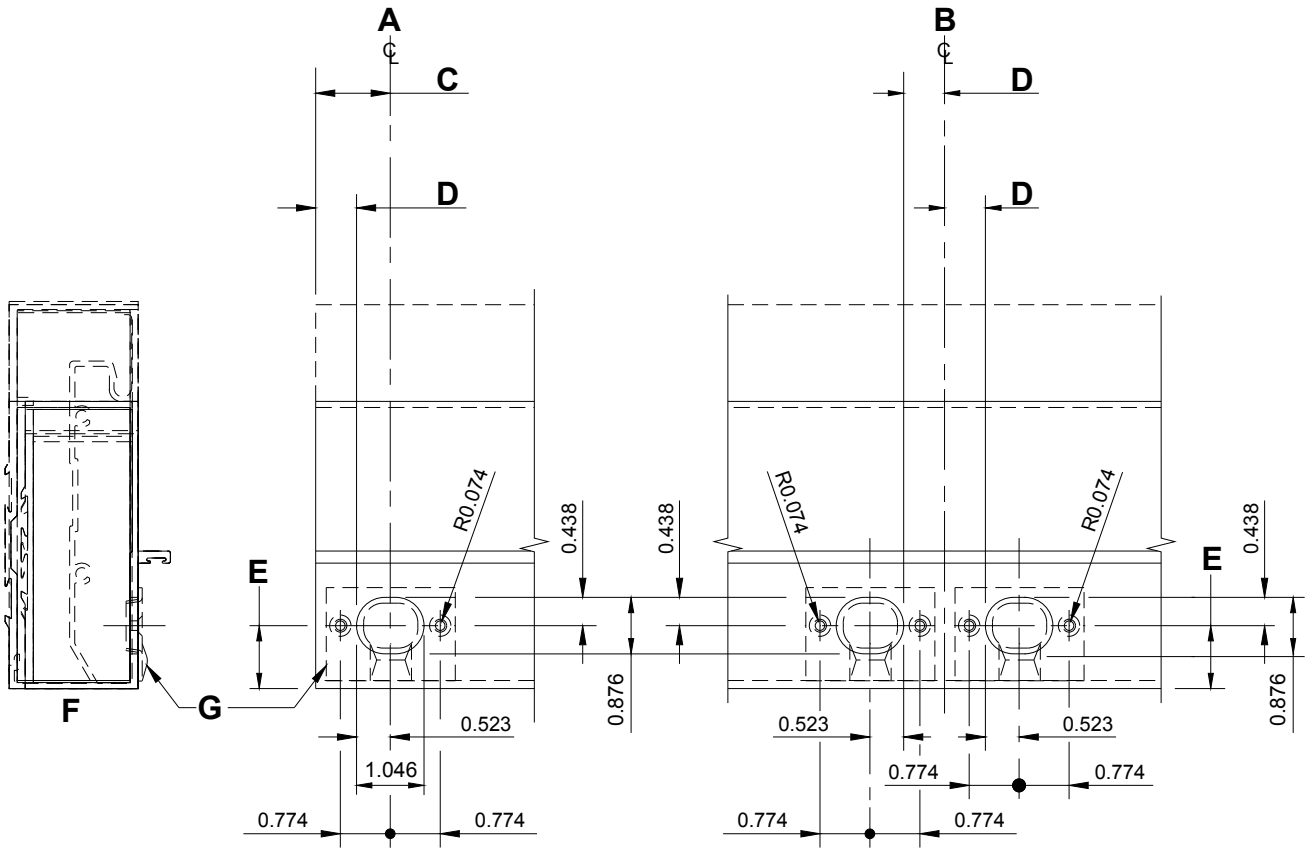
   - Top bolt extends approximately 9/16" beyond door stile when using the header/transom “hump back” strike plate with exterior cylinder dogging.
   - Bottom bolt extends approximately 1/2" beyond door stile.
   - Applying the header/transom “hump back” strike plate allows top and bottom bolts to remain retracted within the bolt guide trigger mechanism when push pad is not completely depressed.
5. Depress push bar.
   - Top bolt should lock in the retracted position.
   - If top bolt does not lock, readjust with half-turn increments until pressing push bar results in locking.
   - In retracted position, bottom bolt is flush with end of stile to approximately 1/16" beyond the end of stile.
6. Release bolts by depressing trigger at top bolt guide.

Dogging Exterior Cylinder

1. Open door and confirm top bolt is retracted.
2. Insert key, turn counterclockwise until rods are retracted. Top bolt should be captured within trigger mechanism.
3. Return key to vertical position.
4. With rods retracted, turn key clockwise approximately 1/8 of a turn to activate exterior dogging. If exterior dogging does not function, readjust top bolt with half-turn increments until locking occurs.
5. Return key to vertical position and remove.

Header/Transom Fabrication for Top Bolt

1. For single door or pairs of doors, fabricate header or transom for top bolt cutout as shown.



A	Top Bolt Centerline	
B	Transom Bar Centerline	
C	1.156 1.438 1.281 1.310	Standard Door 250T/350T/500T Thermal Door AA®250/425 Thermal Door Heavy Wall Door
D	0.633 0.915 0.758 0.787	Standard Door 250T/350T/500T Thermal Door AA®250/425 Thermal Door Heavy Wall Door
E	0.976 0.976 0.976 1.175	Standard Door 250T/350T/500T Thermal Door AA®250/425 Thermal Door Heavy Wall Door
F	Available Header/Transom Bar Profiles:	

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	400020 | 451079 400079 | 601020 450020 | 601079 450079 | 061222 451020 | 530020 534101 | 534102 534103 | 534104 534105 | 534106
G	Hump Back Strike (133646)

NOTICE

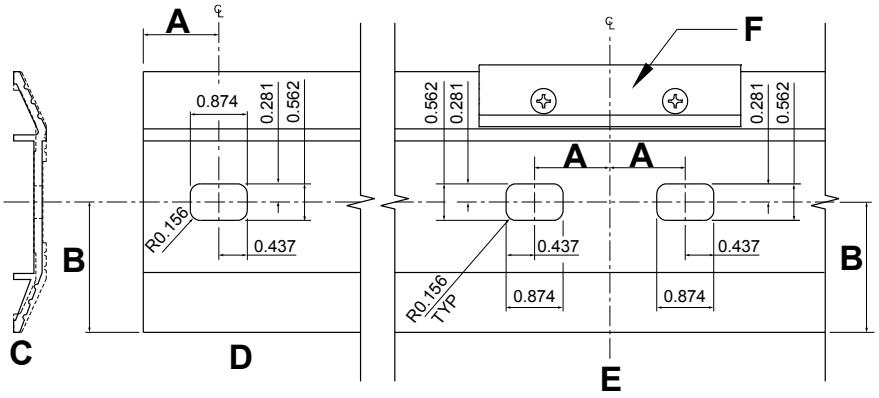
HUMP BACK STRIKE PLATE (133646) MUST BE INSTALLED for proper function of exit device. If not installed, the rods may not release upon electrical activation.

When the door closes, the “hump back” strike plate pushes the top bolt down an additional 3/32". This allows the top and bottom bolts to remain retracted within the guides while the push pad is not completely engaged. This strike plate is designed to allow a 1/8" gap between top of door and header/transom.

2. Position hump back strike plate on header/transom with hump toward exterior side of framing system.
3. Insert hump back strike plate and attach with provided fasteners.

Threshold Fabrication for Bottom Bolt

Fabricate threshold for bottom bolt cutout as shown below, for single or pair of doors.

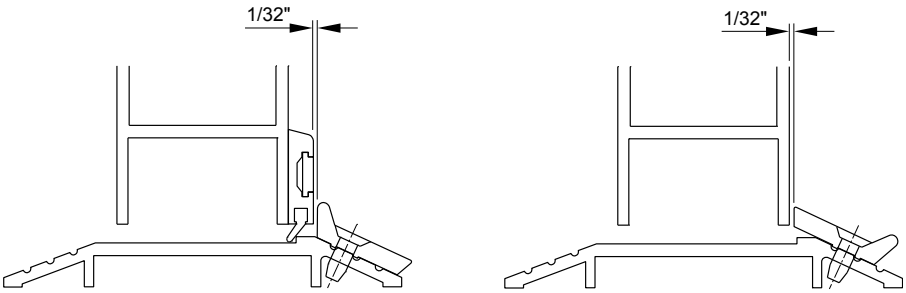


A	1.156 Standard Door 1.438 250T/350T/500T Thermal Door 1.281 AA®250/425 Thermal Door 1.310 Heavy Wall Door
B	2.000 Standard Door 2.000 250T/350T/500T Thermal Door 2.000 AA®250/425 Thermal Door 2.000 Heavy Wall Door

C	Threshold Profiles: 069129 069139 069143 522125 534107
D	Single Door (R.H. Shown)
E	C/L of Threshold Pair of Doors
F	Door Stop

Install Door Stop

Using 033981 threshold stop package as a template, drill two (2) 5/32" (0.156) diameter holes and secure with self-threading fasteners.



Approximate dimension

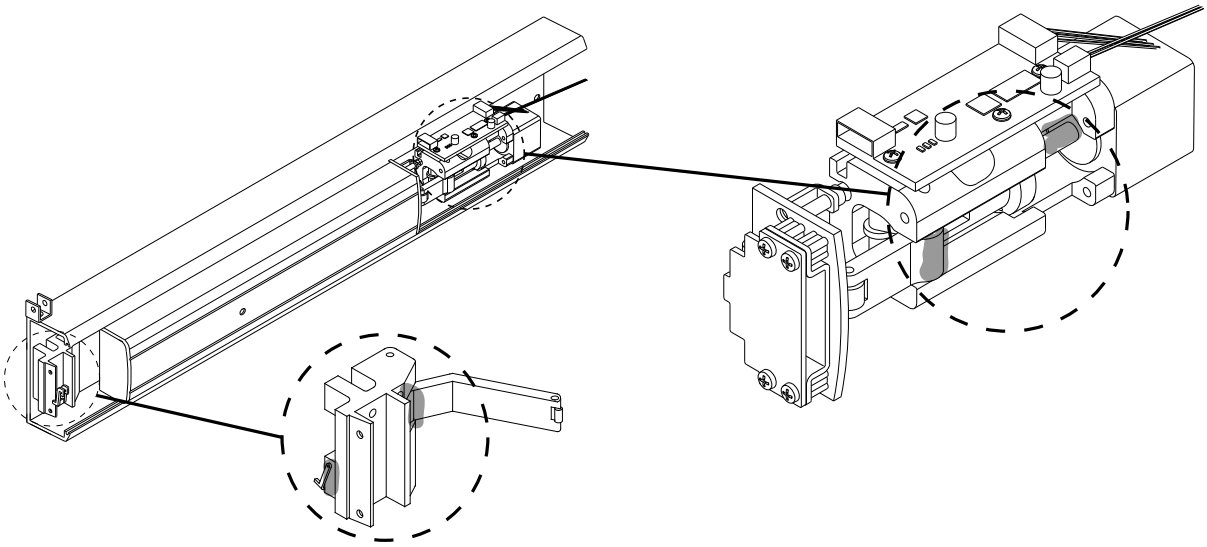
Lubrication

Exit devices are lubricated before delivery. Periodic lubrication will increase exit device life by preventing excess wear of moving parts. Lubricate exit device every four months with Duralube or equivalent. Lubricate the shaded surfaces shown below.

We also recommend lubricating the top and bottom bolt-guide assemblies.

To access lubrication points, remove the following parts:

1. Metal Housing cover (black matte finish) at lock end attached with (4) #6-32 x 1/4" FHM screws.
2. Pivot-end cap (black matte finish) attached with (2) #6-32 x 1/4" FHM screws.
3. Slide-in filler plate at both ends.



Troubleshooting Guide

Use the following table to troubleshoot issues with the 1686 MEL Concealed Exit Device:

Symptom: Intermittent EL device operation	
Cause	**Solution**
Wrong power supply is used.	NP1 is the only approved power supply.
Too many EL devices are run on a power supply.	NP1 runs 2 devices.
Wire size too small.	Use minimum wire gauge of 18/2.
Wire run too long.	Do not exceed 200 feet of wire run from power supply to exit device.
Wire run from power supply to devices has been split.	Do not split wire run from power supply to exit device.
Output power is not run directly to exit device.	NP1 has 2 outputs which accommodate 2 wires for 2 devices (one wire per device).
Poor power transfer connection.	Inspect power transfer connection and replace any broken wires.
(4) or (2) Wire EL hinging or power transfer used with auxiliary hardware. (i.e. single RX switch.)	(8) or (10) Wire EL hinging or power transfer options must be used to guarantee a suitable electrical application. Exit device requires (4) wires to achieve proper performance.
Wiring not coordinated with licensed electrical installer.	EL wiring should always be coordinated with licensed electrical installer.

Symptom: Rods not releasing upon electrical activation - Binding	
Cause	**Solution**
Bolt is adjusted incorrectly.	Check top and bottom bolt, bolts should be set at 1/2" per 1686 installation instructions.
(2) #8-32 socket hex fasteners for center housing assembly over tightened.	Only hand-tighten both #8-32 x 1/4" socket hex fasteners on center rod assembly. Over-tightening these fasteners will draw-in/bind the center rod casement.
Door is not installed plumb within framing system.	Adjust door to eliminate bind.
Hump back strike not installed at header/ transom.	Install hump back strike at header/transom. **NOTICE** HUMP BACK STRIKE PLATE (133646) MUST BE INSTALLED for proper function of exit device. If door clearance is too tight, re-check square and plumb of frame and door.
Clearance between door and header/transom is greater than 1/8".	Install shim plate with hump back strike to ensure proper clearance. Clearance between hump back strike and top of door should not exceed 1/16”. All accessories are included with exit device.
Hold-open time on access control is not set correctly.	Correct hold-open time on access control.
RX switch not receiving a signal.	1/16" distance required between request-to- exit switch and MEL (Motor Electrified) mechanism. (See “Adjust MEL (Motor Electrified) Mechanism”, page 18)

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Symptom: Rods not releasing upon electrical activation - Binding	
Cause	**Solution**
Power supply voltage not set to full power.	Check output voltage adjustment in power supply. Increasing the voltage to full power will resolve most issues when a pair of doors is activated at the same time.
	Adjust output voltage: 1. Locate adjustment dial. 2. Turn adjustment dial clockwise to increase output voltage. 
Excessive stack pressure.	Request building owner adjust HVAC system.

NOTE

If the above table does not resolve issues, please call AHT (Advanced Hardware Technologies) at 866-738-4916 for technical assistance. Contact information is located within the NP1 power supply.

Notes And Disclaimers

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