INSTALLATION INSTRUCTIONS

CRL JACKSON 3186 MID-PANEL CONCEALED VERTICAL ROD PANIC EXIT DEVICE





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CRL JACKSON PANIC / EXIT DEVICES - 3186 CONCEALED VERTICAL ROD

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Tools Required

Drill bits: 1/8", 3/32", 1/2", 33/64", 1", 1-13/32" Framing square/straight edge

Tap: 10-32, 8-32Masking tapeTape measureCenter punchSaw horsesFlat FileDrillRound File

Phillips #2 screwdriver Jigsaw with metal cutting blade

Standard screwdriver

The rapidly changing technology within the architectural aluminum products industry demands that C.R. Laurence/U.S. Aluminum reserve the right to revise, discontinue, or change any product line, specification, or electronic media without prior written notice.

NOTE: Dimensions in parentheses () are millimeters unless otherwise noted.

PARTS IDENTIFICATION

FASTENERS PROVIDED					
CALL OUT	QTY.	FASTENER	FASTENER DESCRIPTION	PART	USED WITH PART NUMBER
A	2		8-32 x 1/2" Flat Head Self Tapping Screw		30320 Bottom Bolt Guide Assembly
B	2		8-32 x 1/2" Flat Head Self Tapping Screw		30934 Top Bolt Guide Assembly
©	2		10-32 x 3/8" Flat Head Machine Screw		30095/96 Locator Plate
(D)	2		8-32 x 5/16" Set Screw		30095/96 Lock Bar
E	4		#10-32 x 3/8" FH Machine Screw		301084 Top and Bottom Strike Package
F	2		#10-32 x 3/4" FH Machine Screw		30824 Trip Bracket Package

NOTE: any modifications to this product, other than those specified in this document may void the warranty as this product will no longer meet the UL safety rating requirements this product was tested and intended for.



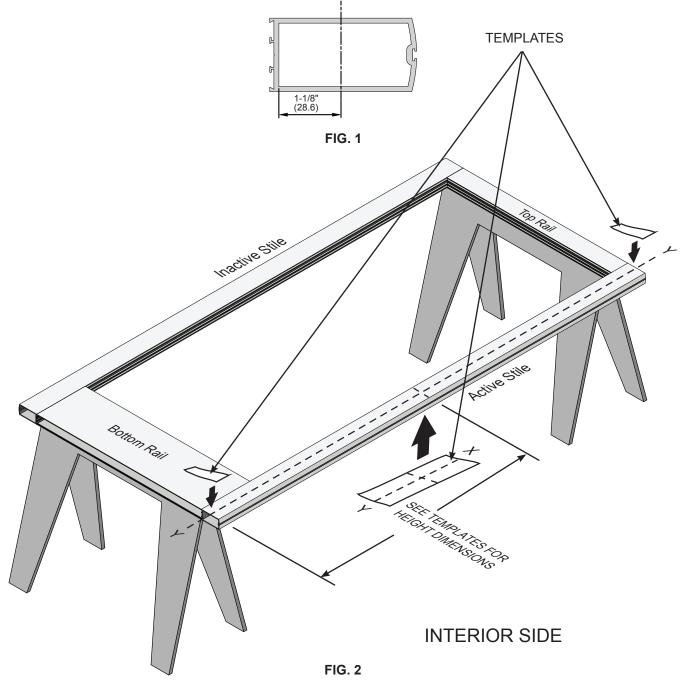
PARTS IDENTIFICATION

	PARTS LIST					
CALL OUT	PART	PART NO.	DESCRIPTION			
G		30077J (LHRB) 30080J (RHRB)	Rod and Case Assembly			
\Box		30PBAW	Bolt Adjustment Wrench			
		301552PKG	Rod Silencers (12 Pkg.)			
\bigcirc		301347 301348	Optional 12" and 24" Top Rod Extender			
(K)		DL2170	Optional 1" Single Mortise Cylinder			
		30821B	Optional Mortise Cylinder Mounting Pad			

DOOR PREPARATION

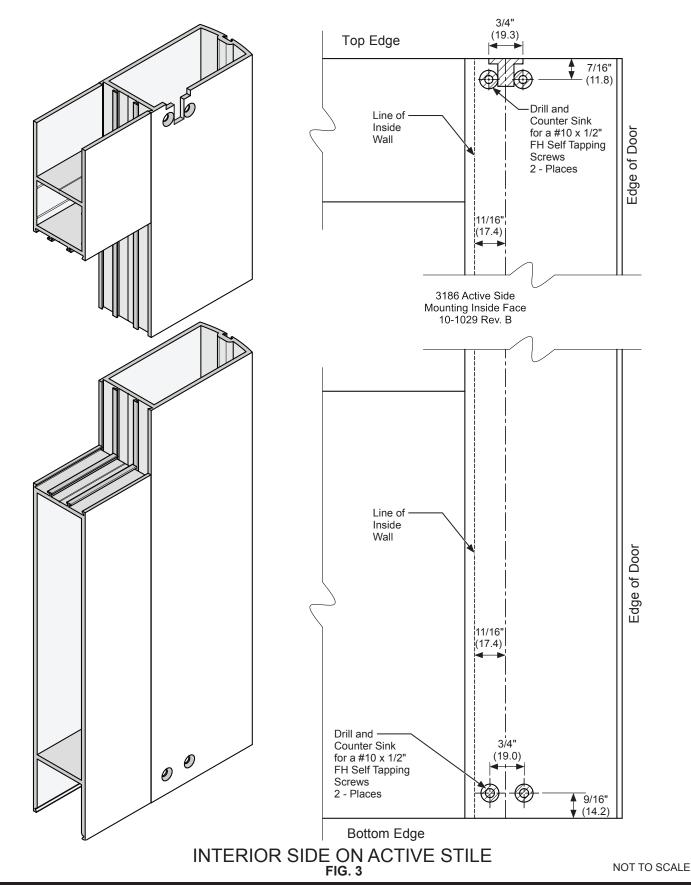
PREPARE THE DOOR PER ATTACHED LAYOUT DRAWING 10-1029

- 1. Place the door horizontally on the stands interior side up.
- 2. Mark the stile centerlines 1-1/8" (28.6) from the inside edge of the stile. (Fig. 1)
- 3. Mark the corresponding layouts on the stile using the vertical centerline at the specified height. (Fig. 2)
- 4. Attach corresponding templates. (Fig. 2)

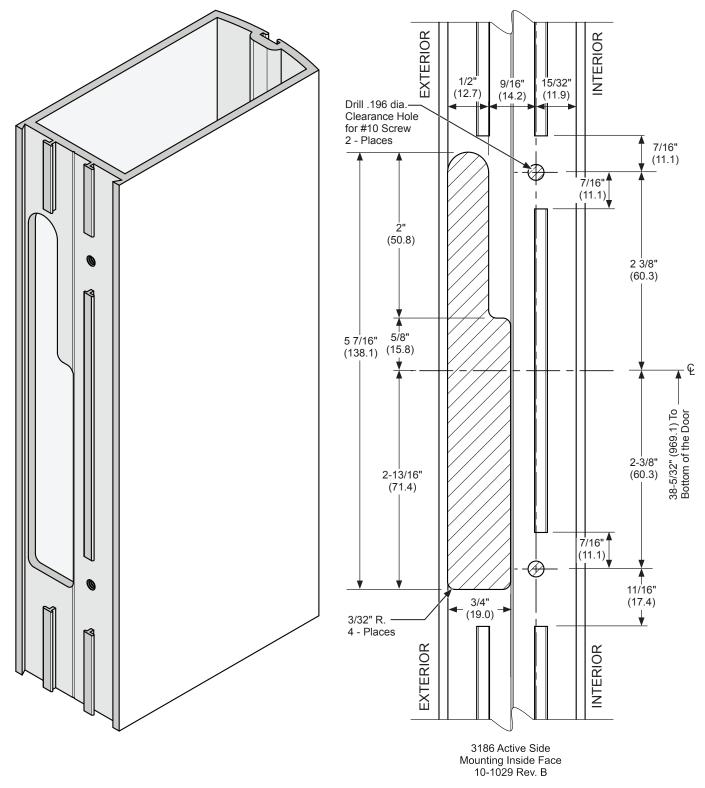


NOT TO SCALE

DOOR PREPARATION - BOTTOM GUIDE AND PULLMAN LATCH



DOOR PREPARATION - INFILL ACTUATOR CUT - OUT

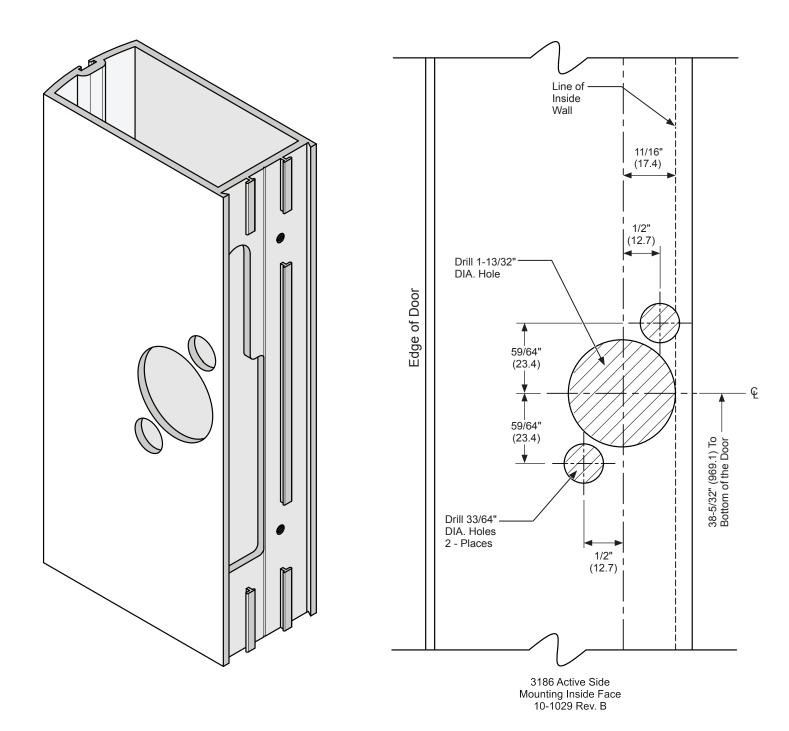


SECTION SIDE ON ACTIVE STILE

FIG. 4

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DOOR PREPARATION - OPTIONAL LOCK AND MOUNTING PAD



EXTERIOR SIDE ON ACTIVE STILE

FIG. 5

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DOOR HARDWARE INSTALLATION (CONTINUED)

INSERT ROD AND CASE

- 1. Insert the panic device rod and case assembly into active stile (Fig. 7).
- 2. Align the rod case assembly with the locator plate and fasten with (2) 10-32 x 3/8" (C) flat head machine screws. (Fig. 9)
- 3. Adjust the bottom bolt, to extend 1/2" past the bottom stile.
- Install the top bolt guide assembly using (2) #10 x 1/2" FH self threading screws at the top of the active door stile.
 The (2) holes face the interior side.
- 5. Install the bottom bolt guide assembly using (2) (A) #10 x 1/2" Flat Head self threading screws at the bottom of the active door stile. The (2) holes face the interior side of stile.

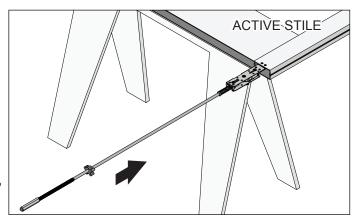
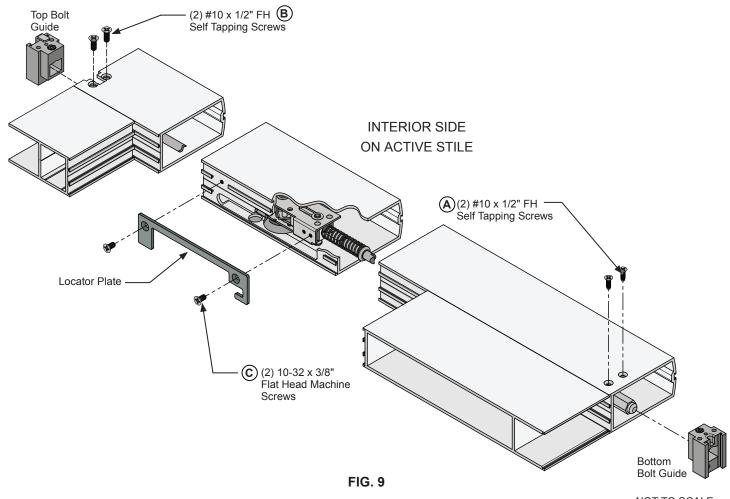


FIG. 7

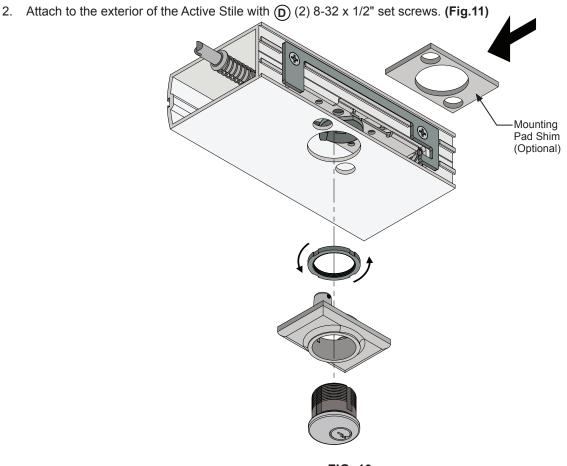


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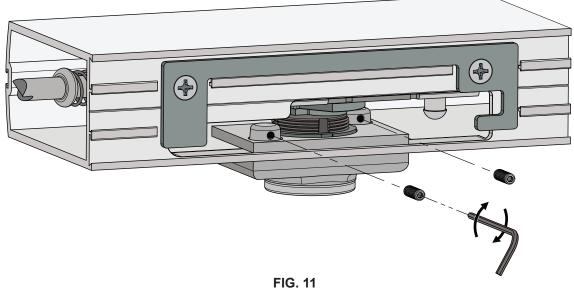
DOOR HARDWARE INSTALLATION (CONTINUED)

INSTALL THE MORTISE CYLINDER AND MOUNTING PAD

1. Insert the Mortise Cylinder into the mounting pad and secure with the Cylinder Lock Ring Included. Slide in the mounting pad shim if necessary. (Fig.10)



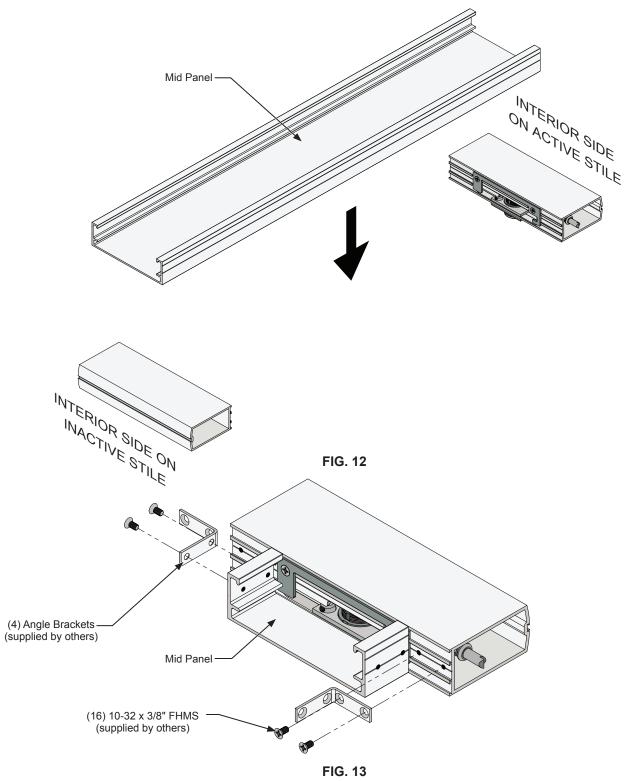




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MID PANEL INSTALLATION

- 1. Install the Mid Panel. (Fig.12)
- 2. Attach the Mid Panel to the door Stiles with (4) angle brackets (supplied by others) and (16) 10-32 x 3/8" Flat Head Machine Screws (supplied by others). (Fig.13)



DOGGING INSTRUCTIONS

TO DOG: Insert 1/8" Hex Dogging key (Cat No. 302796) Press push bar, turn the key counter clockwise until it stops pull the key out.

TO UNDOG: Insert Hex Dogging key, turn clockwise until it stops, push bar will release. Pull key out.

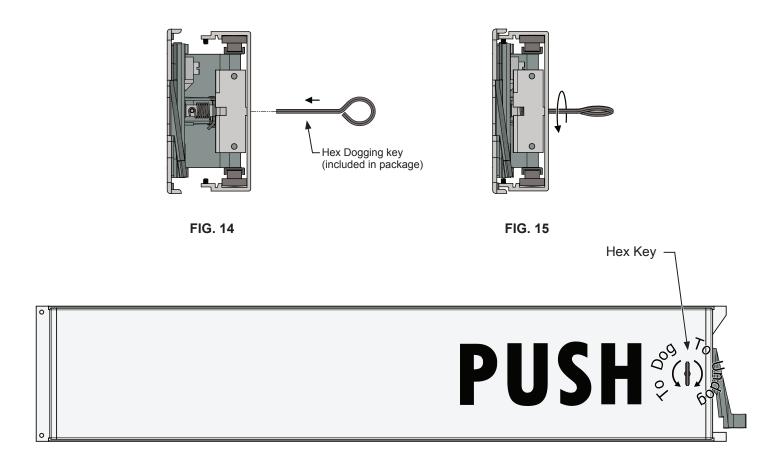
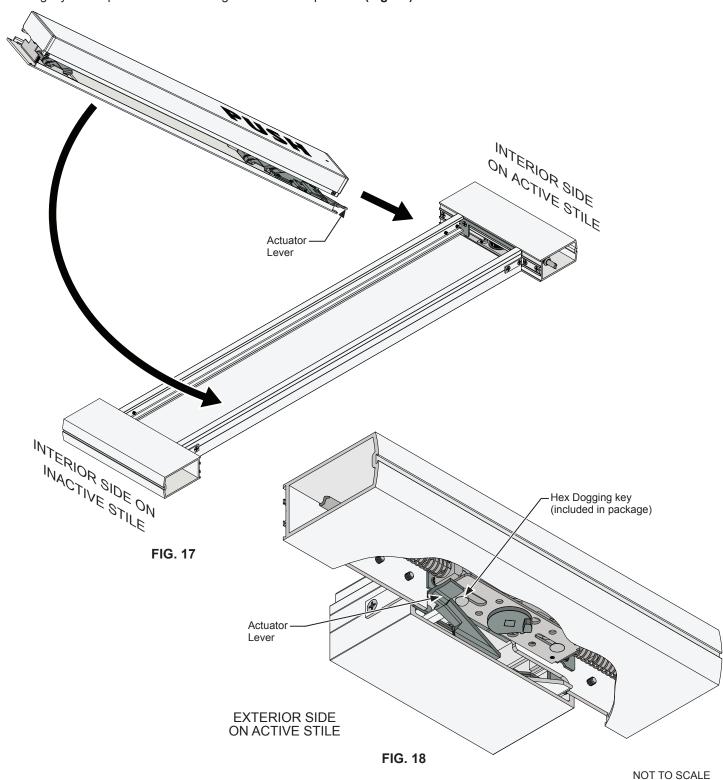


FIG. 16

PUSH BAR INSTALLATION

- 1. Un-dog the push bar. Slide the push bar into the infill cut-out on the active door stile until the tab portion is fully secured against the active stile. (Fig. 17)
- 2. Make sure the actuator lever is positioned below the lift pin on the rod and case assembly. To achieve full engagement, slightly lift the push bar while sliding it into the final position. (Fig. 18)



PUSH BAR INSTALLATION (CONTINUED)

- 1. Install the locking bar by sliding it behind the ribbing of the mid-rail until it stops against the inactive tab. (Fig. 19)
- 2. Firmly secure the locking bar with (2) (D) 8-32 x 5/16" set screws. Install and snap in the filler cover. (Fig. 20)

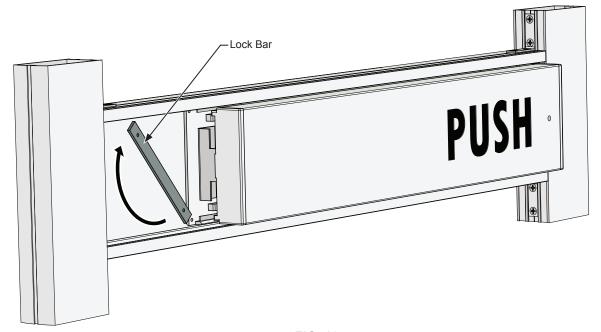
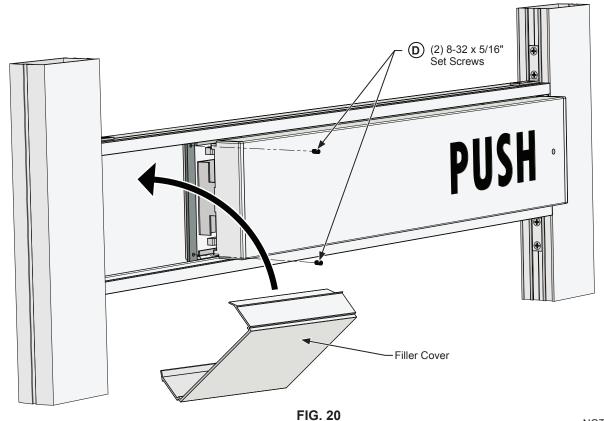


FIG. 19



NOT TO SCALE

FRAME PREPARATION

RE-ATTACH DOOR TO FRAME

- 1. Make sure that the panic exit device is in the dogged position. Both the upper and bottom latches must clear the frame. Re-attach the door to the frame.
- 2. With the door in place and in the closed position, mark the center line locations on the header and threshold of both the upper and bottom latches.
- 3. Finish the header and threshold preparation using the layout drawings on page 17.

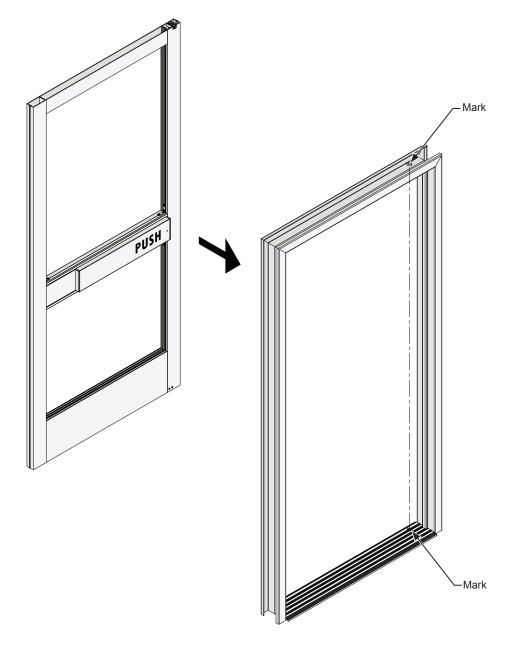


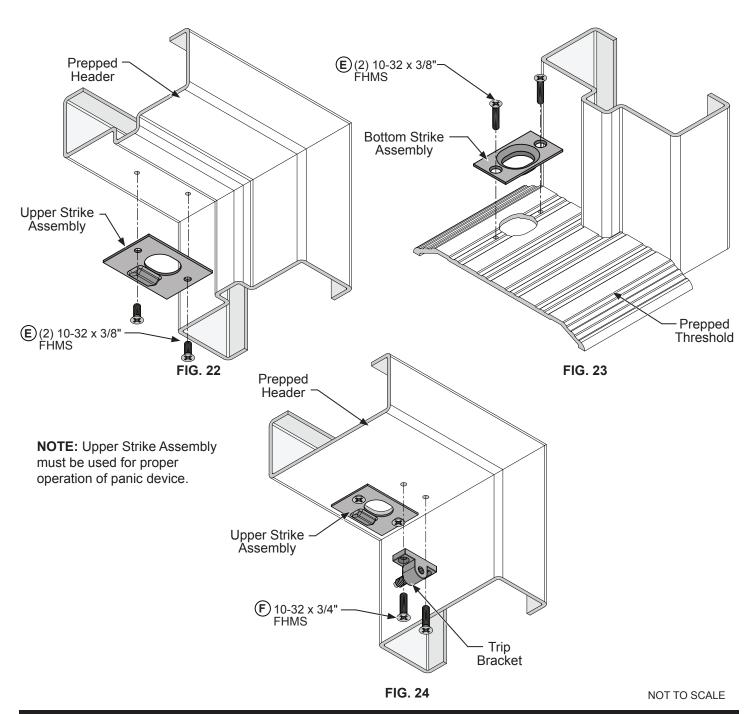
FIG. 21

FRAME PREPARATION (CONTINUED) ATTACH UPPER STRIKE

Drill a 1" diameter hole and drill and tap for (2) (E) 8-32 x 1/2" FHMS on the mark made in step 2 of the frame preparation on page 16. Attach the upper strike to header using (2) (E) 8-32 x 1/2" FHMS. (Fig. 22)

ATTACH BOTTOM STRIKE

Drill a 1" diameter hole and drill and tap for (2) (E) 8-32 x 1/2" FHMS on the mark made in step 2 of the frame preparation on page 16. Attach the bottom strike centering on the mark using (2) (E) 8-32 x 1/2" FHMS. (Fig. 23)



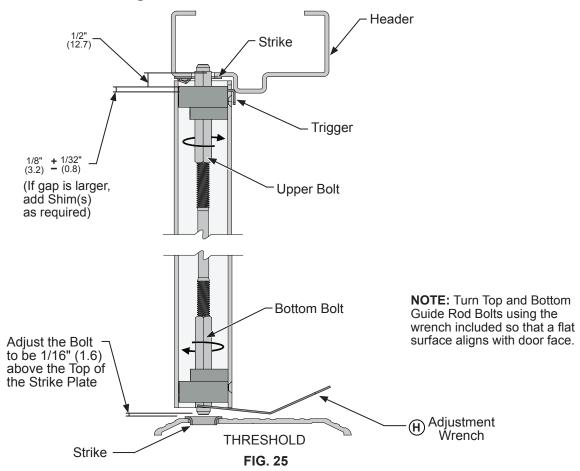
DOOR HARDWARE ADJUSTMENTS

UPPER BOLT:

- 1. The door must be in the closed position and the push bar must be in the un-dogged position to complete the following adjustments.
- 2. Depress the push bar, The bottom and upper rods will retract. With the rods in this position adjust the bottom bolt using the adjustment wrench (H) included. Adjust the upper bolt 1/16" to 1/8" (1.6 to 3.2) gap from the header. When the panic is in the released position the upper rod will extend 1/2" (12.7) into the header as shown in (Fig. 25).

BOTTOM BOLT:

- 1. The door must be in the closed position and the push bar must be in the un-dogged position to complete the following adjustments.
- 2. Depress the push bar, The bottom and upper rods will retract. With the rods in this position adjust the bottom bolt using the adjustment wrench (H) included as shown in (Fig. 25).



MANUAL CHECK:

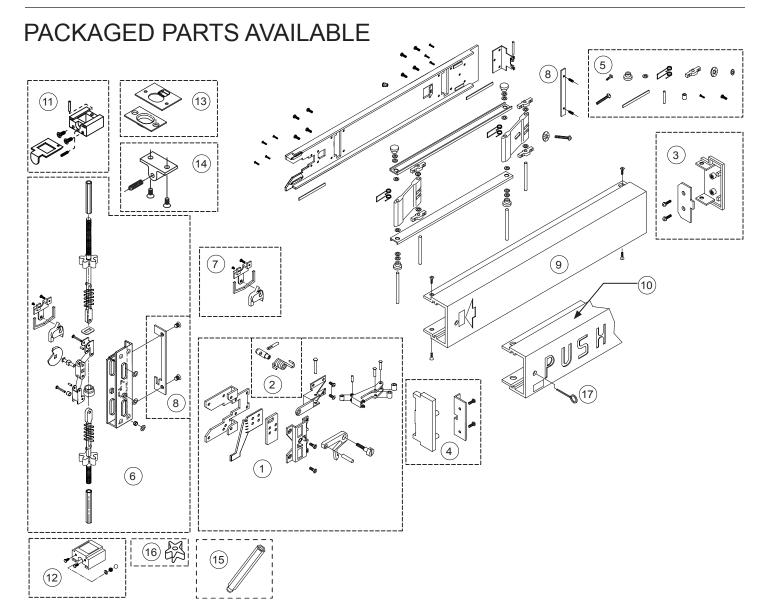
Release the dogging mechanism. The rods will then extend into the locked position.

OPERATIONS CHECK:

Depress the push bar. The bottom bolt should retract to the bottom edge of the door stile. The upper bolt will return to the open position.



^{**}Important: If the upper bolt returns to the open position with the push bar being partially depressed, or if the upper bolt does not go to the open position when the push bar is fully depressed repeat the dogging procedure and the adjustment steps. The upper and lower bolts might need to be adjusted again (Fig. 25).



Assem. No.	Part No.	Description	Assem. No.	Part No.	Description
1	30093	LHRB-Actuator Head Assembly	10	300041L	LHRB-Push-Pad-"Push" (Optional)
Not Shown	30094	RHRB-Actuator Head Assembly	Not Shown	300041R	RHRB-Push-Pad-"Push" (Optional)
2	30092	Dogging Assembly	11	30934	Top Bolt Guide Assembly
3	30086	Push-Pad Inactive End Cap Assembly	12	30320	Bottom Bolt Guide Assembly
4	30089	Push-Pad Active End Cap Assembly	13	301084	Strike Package Top and Bottom
5	30085	Body Hardware Package	14	30824	Trip Bracket Package
6	30077J	LHRB-Rod and Case Assembly-7/0	15	30763P	Top or Bottom Rod Bolt
Not Shown	30080J	RHRB-Rod and Case Assembly-7/0	16	301552PKG	Rod Silencers (12 Pkg.)
7	30090	Rod and Case Hardware Package	17	302796	Dogging Hex Key Package (2 Pkg.)
8	30095	LHRB-Mounting Bracket Set	Not Shown	301347	Top Rod Extension-12"
Not Shown	30096	RHRB-Mounting Bracket Set	Not Shown	301348	Top Rod Extension-24"
9	30023	Push-Pad-Plain-Non-Handed	Not Shown	30PBAW	Bolt Adjustment Wrench