INSTALLATION INSTRUCTIONS

CRL JACKSON 2086
CONCEALED VERTICAL ROD PANIC EXIT DEVICE
ORDER OF ASSEMBLY AND INSTALLATION

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TOOLS REQUIRED

Taps: 1/4-20, 10-32, 8-32
Tape Measure
Saw Horses
Cordless Drill
Phillips Head Screw Driver

Framing Square
Masking Tape
Center Punch
Flat Metal File
Round Metal File
Jigsaw with Metal Cutting Blade
Straight Edge

NOTE: Any modifications, other than those specified in this document, could result in this product’s failure to meet UL safety ratings and void the manufacturer’s warranties.

The rapidly changing technology within the architectural aluminum products industry demands that 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

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## PARTS IDENTIFICATION

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DOOR PREPARATION

REMOVE DOOR AND PREPARE PER TEMPLATE

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. (Fig. 1)

3. Mark the corresponding layouts on to the stile using the vertical centerlines at the specified height. (Fig. 2)
DOOR PREPARATION – LAYOUT SELECTION
2086 EXIT DEVICE INSTALLATION - ACTIVE STILE

FIG. 3

INTERIOR VIEW
ACTIVE STILE

Drill and Tap
for a 1/4"-20
Machine Screw
(2)-Places

Use Template from Box
DOOR PREPARATION – LAYOUT SELECTION
2086 EXIT DEVICE INSTALLATION - INACTIVE STILE

FIG. 4

Drill and Tap for a 1/4"-20 Machine Screw

38 5/32" (969) to Bottom of Door From This Line

Use Template from Box
DOOR PREPARATION – LAYOUT SELECTION
2086 EXIT DEVICE INSTALLATION WITH LOCK CYLINDER AND MOUNTING PAD

FIG. 5
Use Template from Box

FIG. 6
Use Template from Box
DOOR PREPARATION – LAYOUT SELECTION

2086 EXIT DEVICE INSTALLATION WITH EXTERIOR LOCKING LEVER TRIM

FIG. 7

Use Template from Box

FIG. 8

Use Template from Box

NOT TO SCALE
DOOR HARDWARE INSTALLATION (CONTINUED)

INSERT ROD AND CASE

1. Insert the panic device rod and case assembly into active stile (Fig. 9).

2. Align actuator pin through the slotted cut-out on interior face of stile, fastening with (2) 1/4"-20 x 1/4" shoulder stud screws. (Fig. 10)

3. Adjust the bottom and top bolts, to extend 1/2" past the top and bottom stiles.

4. 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) #10 x 1/2" FH self threading screws at the bottom of the active door stile. The (2) holes face the interior side of stile.

6. Attach (1) 1/4"-20 x 1/4" shoulder stud screw on the Inactive Stile. (Fig. 10)
DOOR HARDWARE INSTALLATION (CONTINUED)
INSTALL OPTIONAL MORTISE CYLINDER LOCK AND MOUNTING PAD

NOTE: Lock and Mounting Pad must be installed before attaching exit device.

1. Attach the Mortise Cylinder Lock to the Mounting Pad and secure it with the Lock Ring, using (2) #8 x 2” Flat head screws provided.
DOOR HARDWARE INSTALLATION (CONTINUED)

INSTALL OPTIONAL LOCKING LEVER EXTERIOR TRIM

**NOTE:** Exterior trim must be installed before attaching exit device.

1. Attach the exterior trim to the active stile with (2) #10 x 2-1/8" FHMS

**NOTE:** Exterior Trim requires use of standard 1" Mortise Cylinder with AR-MS Type Cam.

8500LV02 Flat handle lever trim
8500LV01 Round handle lever trim

**FIG. 13**
DOOR HARDWARE INSTALLATION (CONTINUED)

INSTALL 2086 EXIT DEVICE

1. Install the exit device on the door stiles assuring the actuator link engages the actuator pin. (Fig. 14)

2. Tighten (3) set screws on each side of the door stiles. (Fig. 15)
OPERATIONS CHECK AND DOGGING INSTRUCTIONS

OPERATIONS CHECK:

1. Depress the push bar to assure free movement of the rod and case assembly. Both upper and bottom bolts should activate to the open position. The upper bolt should drop into the open position (Fig. 22).

2. The bottom bolt should fully retract. If the bolts fail to operate as described, review the actuator link and actuator pin and make sure the actuator link engages the actuator pin (Fig. 14).

DOGGING INSTRUCTIONS:

TO DOG Fully depress and hold the Touch Bar, push the Dogging Pin in and release the Touch Bar (Fig. 16).

TO UNDOG Push Dogging Pin in, Touch Bar will release.

FIG. 16
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 (Fig. 17).

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.
FRAME PREPARATION (CONTINUED)

ATTACH UPPER STRIKE

1. Drill and tap for \( F (2) \) 10-32 x 3/8" FHMS on the mark made in step 2 of the frame preparation on page 16. Attach the upper strike to header using \( F (2) \) 10-32 x 3/8" FHMS (Fig. 18). If the header does not have a door stop attach the trip bracket provided to the header using \( D (2) \) 10-32 x 3/4" FHMS (Fig. 20).

ATTACH BOTTOM STRIKE

1. Cut out a 1" long x 13/16 wide hole and Drill and tap for \( F (2) \) 10-32 x 3/8" FHMS on the mark made in step 2 of the frame preparation on page 16. Attach the bottom strike centering on the mark (Fig. 19).

NOTE: Upper Strike Assembly must be used for proper operation of panic device.
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 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. 21).

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 included as shown in (Fig. 21).

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 on page 18. The upper and lower bolts might need to be adjusted again (Fig. 21).
## PACKAGED PARTS AVAILABLE

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