

INSTALLATION INSTRUCTIONS

CRL JACKSON 2095E ELECTRIC LATCH RETRACTION PANIC RIM EXIT DEVICE



Phone: (800) 421-6144 • Fax: (866) 921-0531
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TOOLS REQUIRED

- Drill Bits: 1/8", 9/32", 5/16", 7/32",
5/8", 11/16", 1-3/8"

Taps: 1/4-20, 10-32, 8-32

Tape Measure

Saw Horses

Cordless Drill

Phillips Head Screwdriver
- Framing Square

3/4" Masking Tape

Center Punch

Flat Metal File

Round Metal File

Jigsaw with Metal Cutting Blade

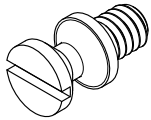
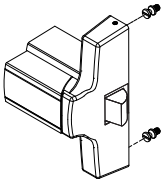
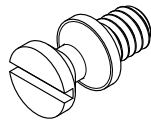
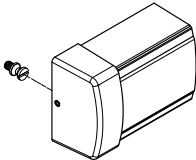

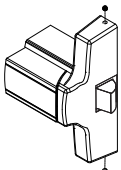

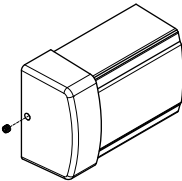
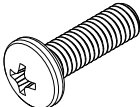
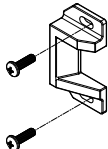
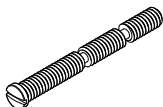
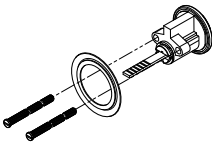

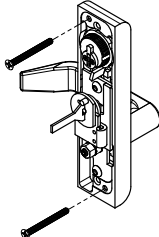
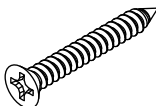
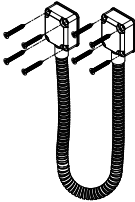
Straight Edge

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.

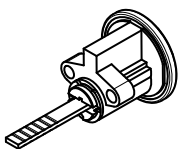
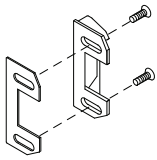
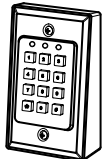
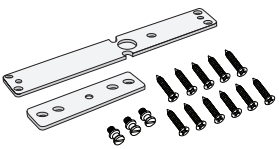
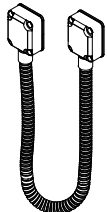
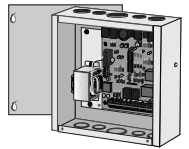
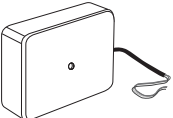
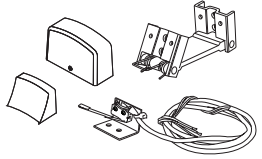
The rapidly changing technology within the architectural aluminum products industry demands that C.R. Laurence/U.S. Aluminum reserve the right to revise, discontinue, or change any product line, specification, or electronic media without prior written notice.

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

PARTS IDENTIFICATION

FASTENERS PROVIDED					USED WITH
CALL OUT	QTY.	FASTENER	FASTENER DESCRIPTION	PART	PART NUMBER AND DESCRIPTION
(A)	2		1/4"-20 x 1/4" Shoulder Stud Screws		302622 Active Head Assembly 302627 Active Head Cover Package
(A)	1		1/4"-20 x 1/4" Shoulder Stud Screw		301266 Base End Cap Package
(B)	2		1/4"-20 x 5/16" Set Screw		302622 Active Head Assembly 302627 Active Head Cover Package
(B)	1		1/4"-20 x 5/16" Set Screw		301266 Base End Cap Package
(C)	2		#10-32 x 5/8" Oval Head Machine Screw		302436 "C" Type Surface Mounted Strike
(D)	2		#1/4"-20 x 1-3/4" Breakaway Screws		DL911 Rim Keyed Cylinder
(E)	2		#10-32 x 2-1/8" FHMS		9500LV01 or 9500LV02 Optional Exterior Trim with Lever Assembly
(F)	8		#8 x 1-1/4" Flat Head Sheet Metal Screw		Optional MLDL101 Armored Door Loop Kit

PARTS IDENTIFICATION

PARTS LIST			
CALL OUT	PART	PART NO.	DESCRIPTION
Ⓖ		DL911	Optional Rim Cylinder
Ⓕ		302436	"C" Type Surface Mounted Strike
Ⓘ		MLD83N	Programmable Digital Keypad
Ⓙ		302521	Wood Door Mounting Kit
Ⓚ		MLDL101	Armored Door Loop
Ⓛ		302616 301420	Power Supply See Pages 14-16 for correct Power Supply
Ⓜ		301406PSC	24VDC Power Supply Converter Module
Ⓝ		302989	Signal Switch Kit

DOOR PREPARATION

REMOVE DOOR AND PREPARE PER TEMPLATES

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 to the stile using the vertical centerlines at the specified height. (**Fig. 2**)

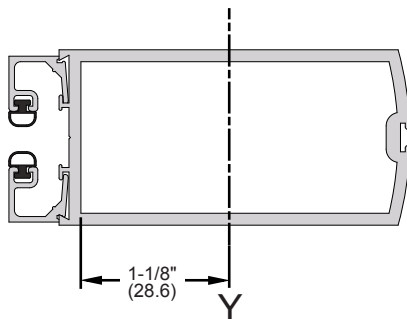


FIG. 1

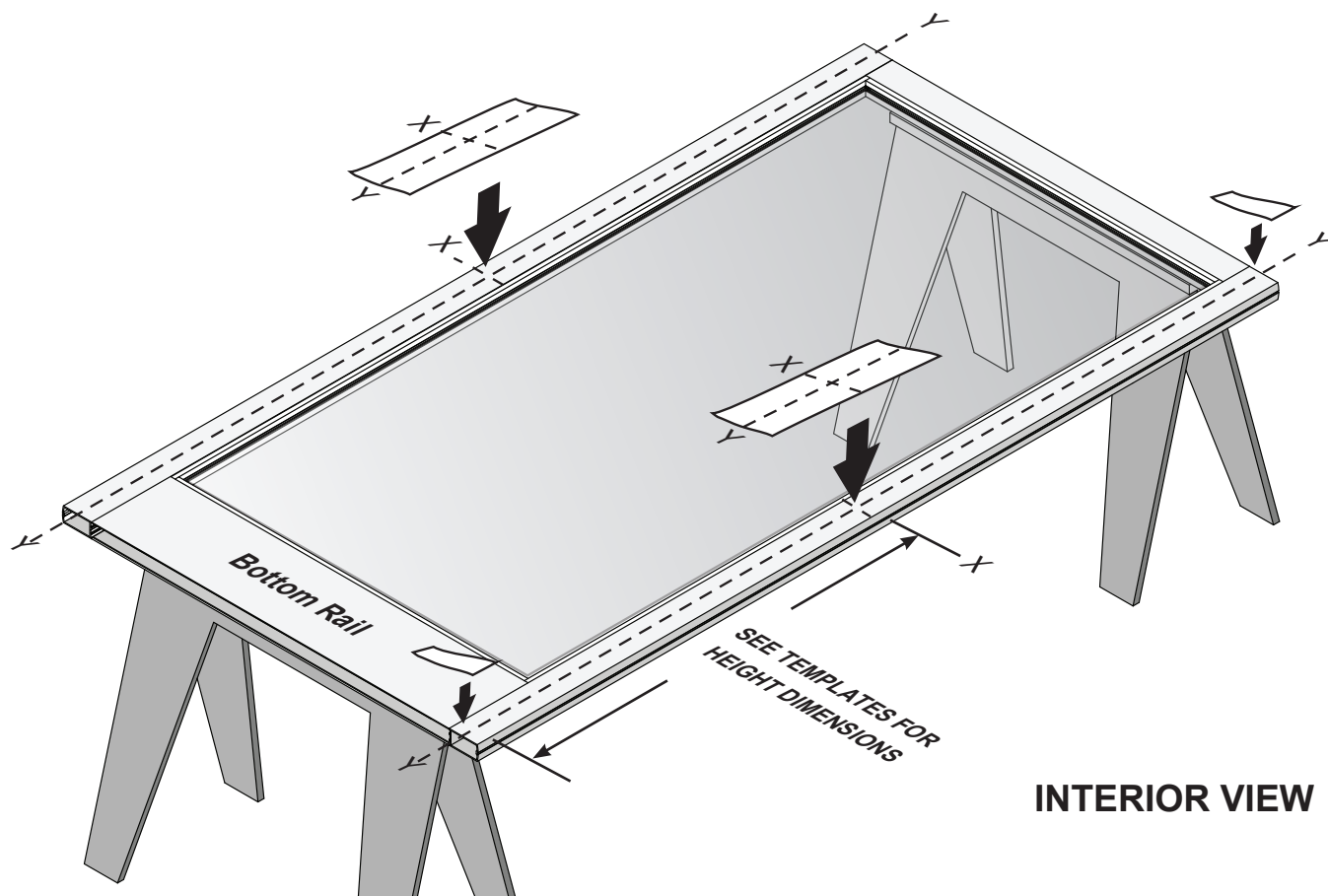
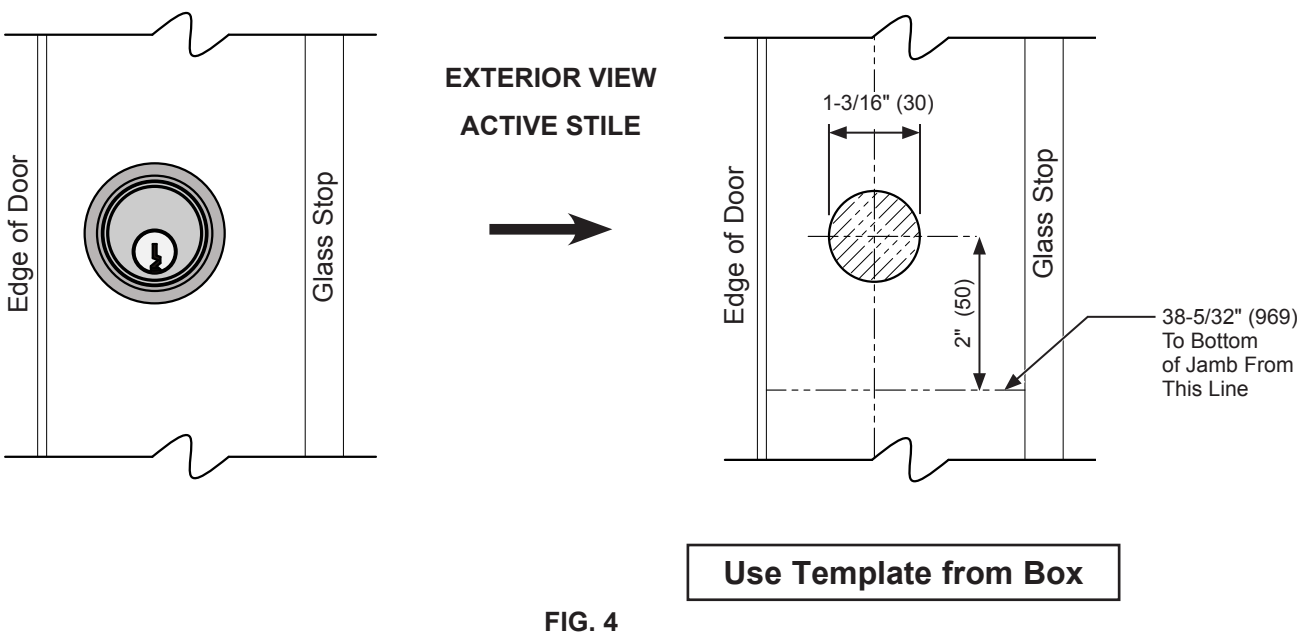
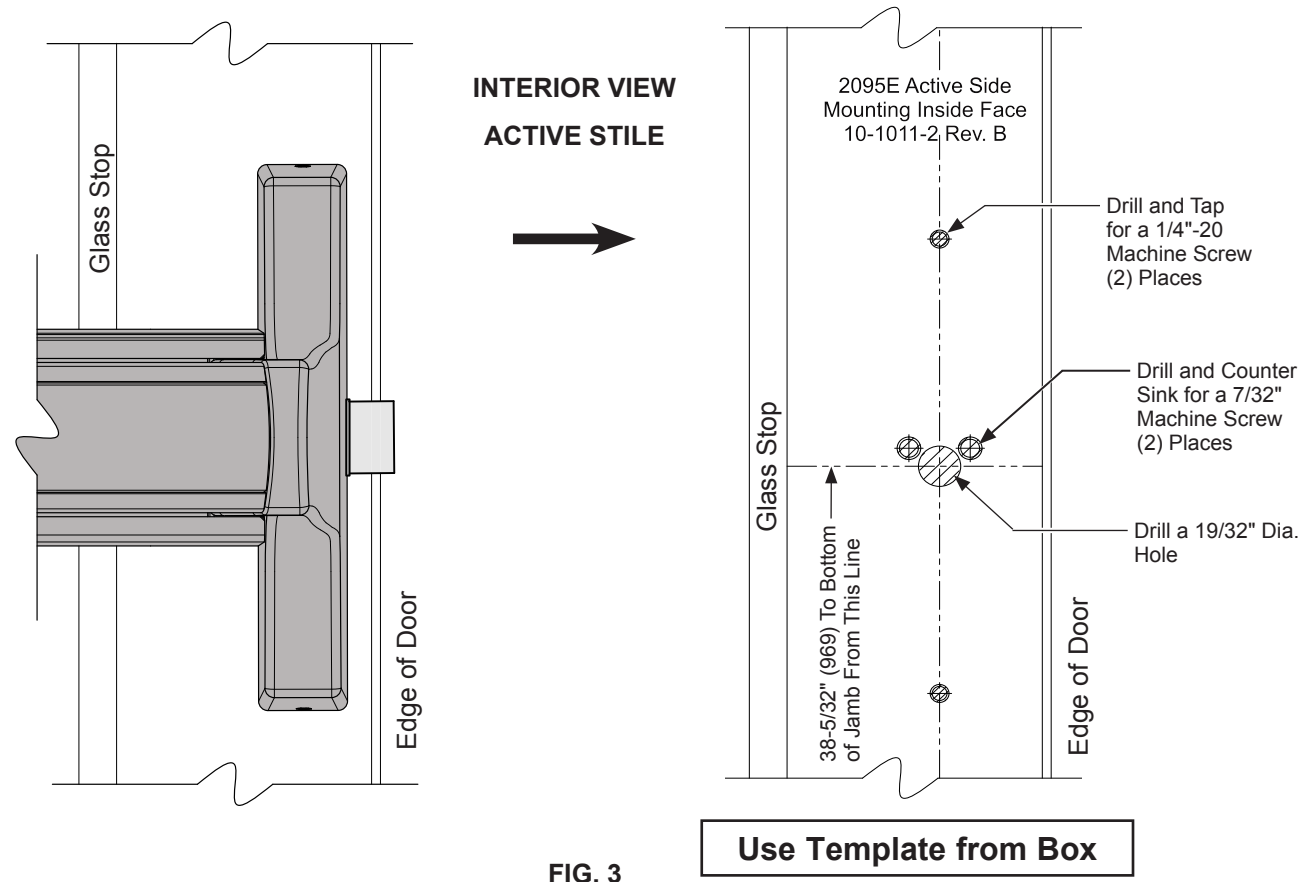


FIG. 2

NOT TO SCALE

DOOR PREPARATION – LAYOUT SELECTION

2095E EXIT DEVICE INSTALLATION - ACTIVE STILE



NOT TO SCALE

DOOR PREPARATION – LAYOUT SELECTION

2095E EXIT DEVICE INSTALLATION - INACTIVE STILE

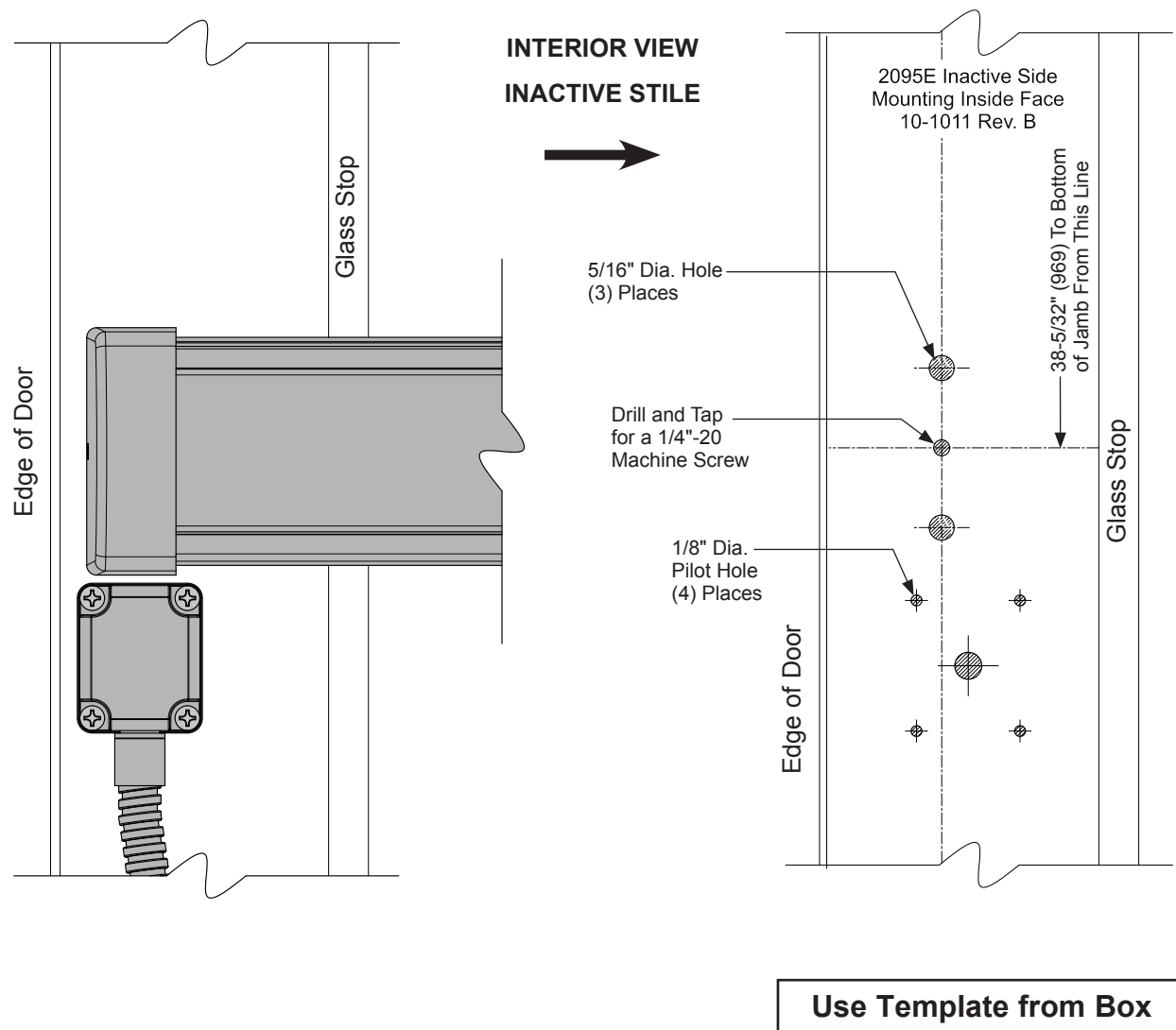


FIG. 5

NOT TO SCALE

DOOR PREPARATION – LAYOUT SELECTION

2095E EXIT DEVICE INSTALLATION WITH EXTERIOR LEVER TRIM.

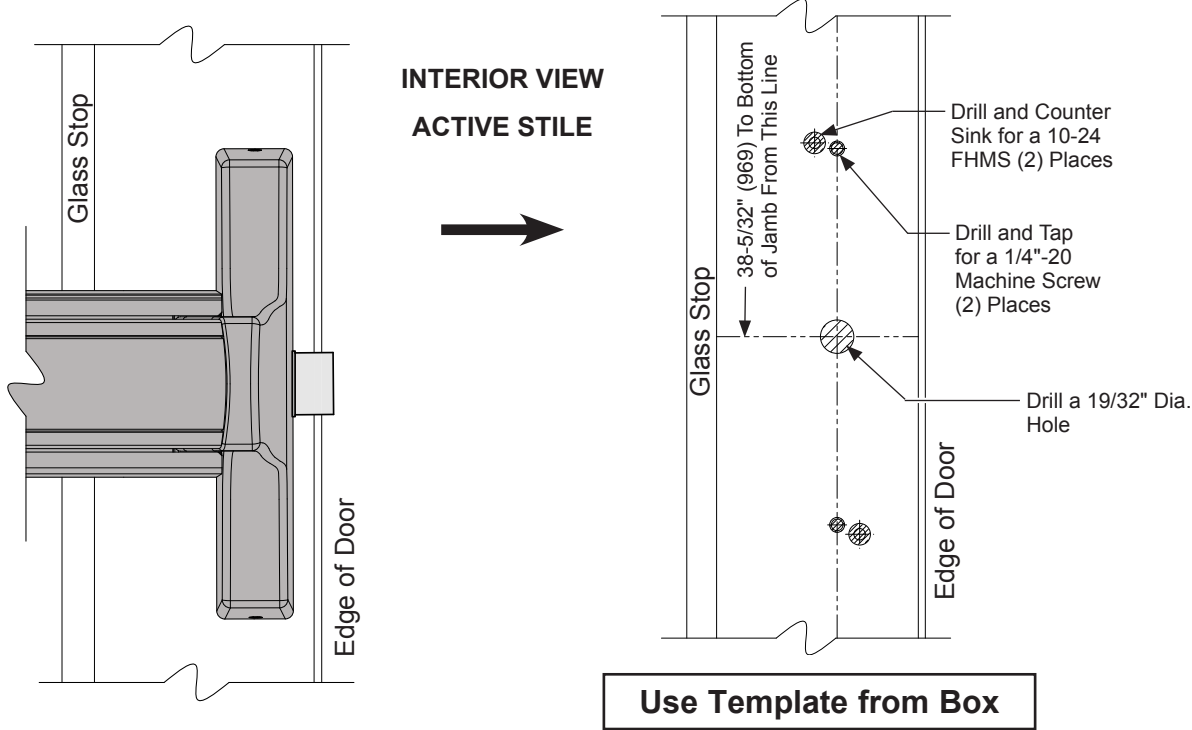


FIG. 6

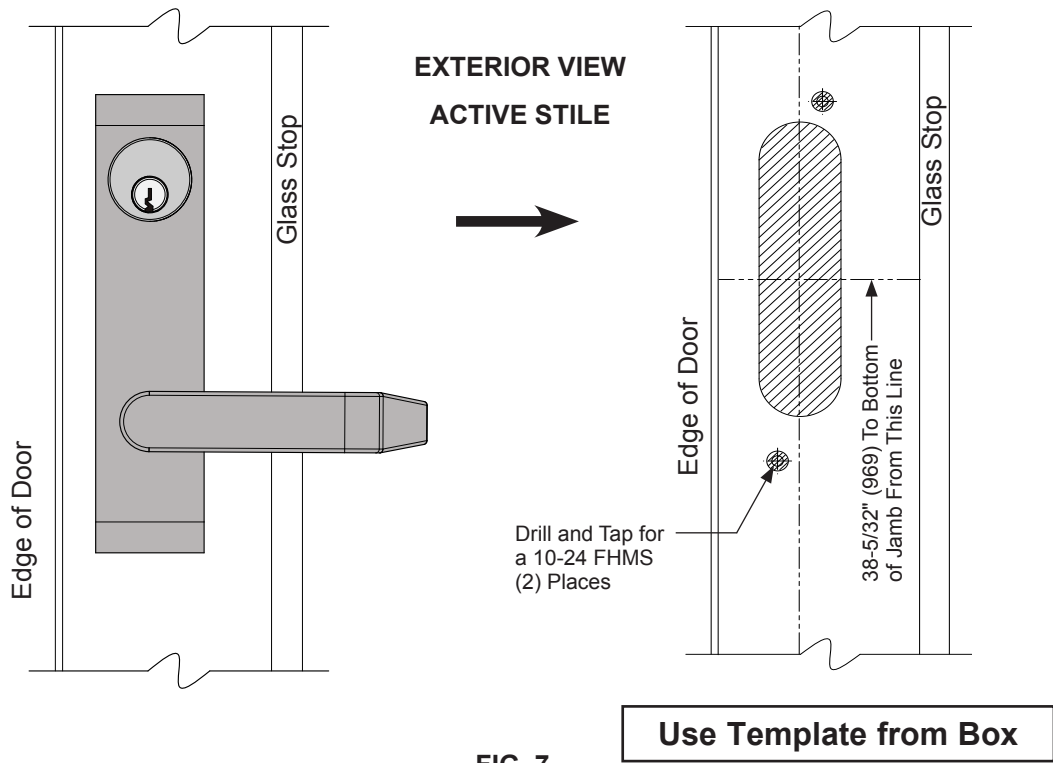


FIG. 7

NOT TO SCALE

DOOR HARDWARE INSTALLATION

INSTALLATION OF RIM KEYED CYLINDER

1. Insert the rim keyed cylinder assembly into the active stile and fasten with (D) (2) 1/4"-20 x 1-3/4" breakaway screws (Fig. 8).
2. Attach the (A) (2) 1/4"-20 x 1/4" shoulder stud screws to the active stile. (Fig. 8)
3. Attach (A) (1) 1/4"-20 x 1/4" shoulder stud screw on the inactive stile. (Fig. 8)

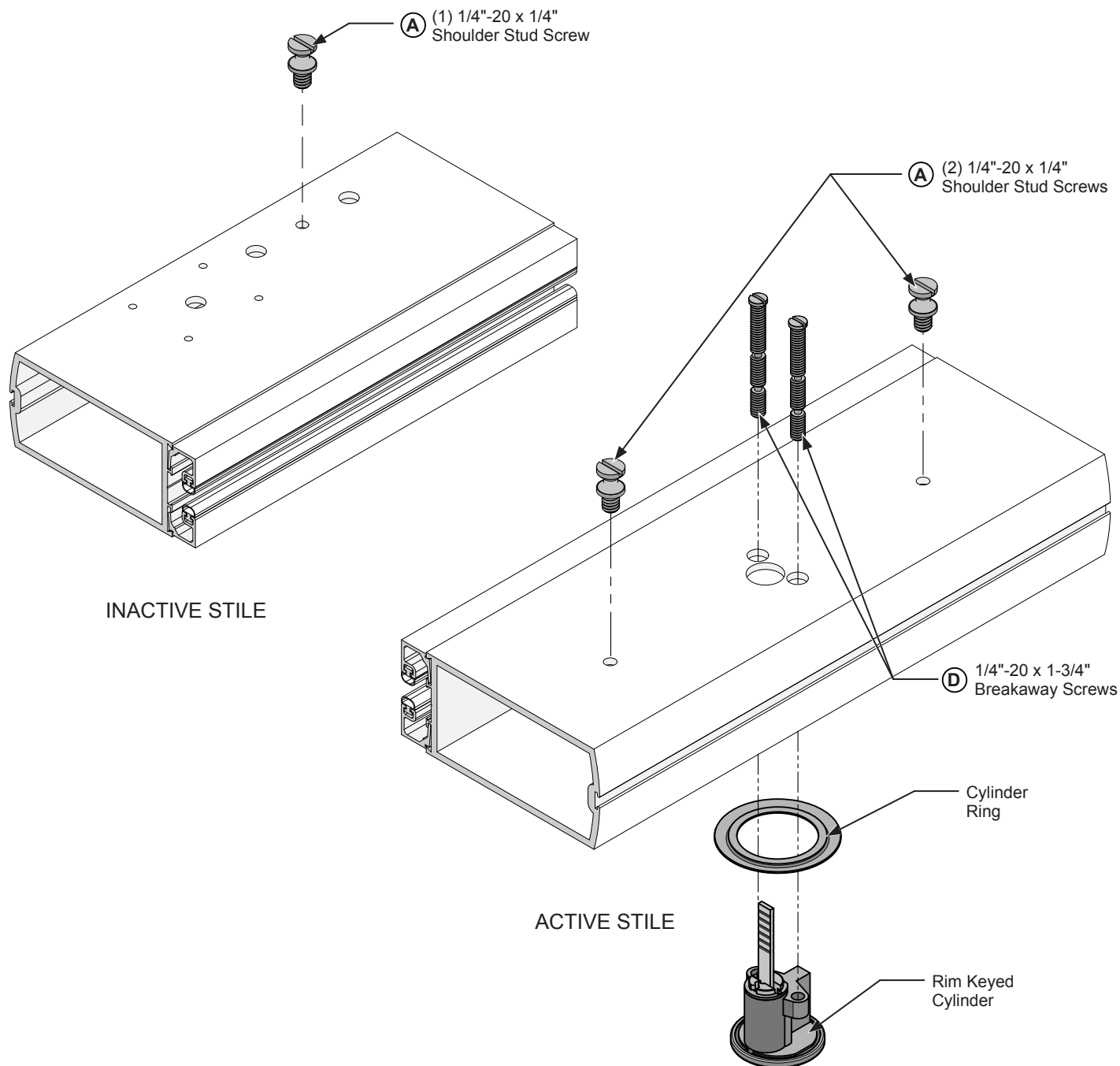


FIG. 8

NOT TO SCALE

DOOR HARDWARE INSTALLATION (CONTINUED)

INSTALLATION OF OPTIONAL EXTERIOR LEVER TRIM

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

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

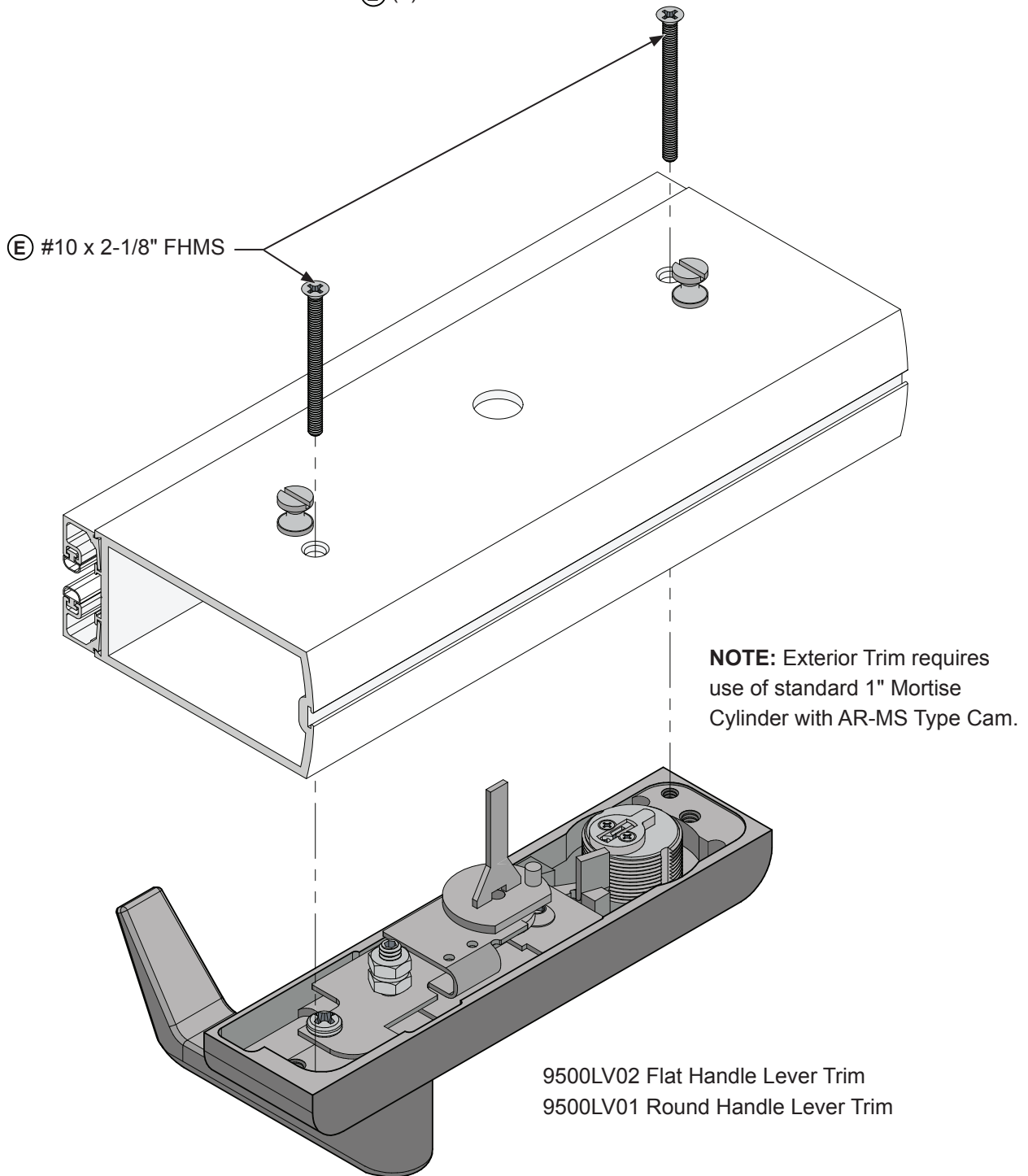


FIG. 9

NOT TO SCALE

DOOR HARDWARE INSTALLATION (CONTINUED)

INSTALL 2095E ELECTRIC RIM LATCH

1. Insert the wires through the 5/16" Dia. hole on the inactive stile.
2. Install the exit device on the door stiles as you feed the wires through the upper 5/16" hole. Tighten the (B) (1) 1/4" x 5/16" set screw and (B) (2) 1/4" x 5/16" set screw on each side of the door stiles. (Fig. 10)
3. Pull the wires back through the lower 5/16" Dia. hole located below the exit device. (Fig. 11)

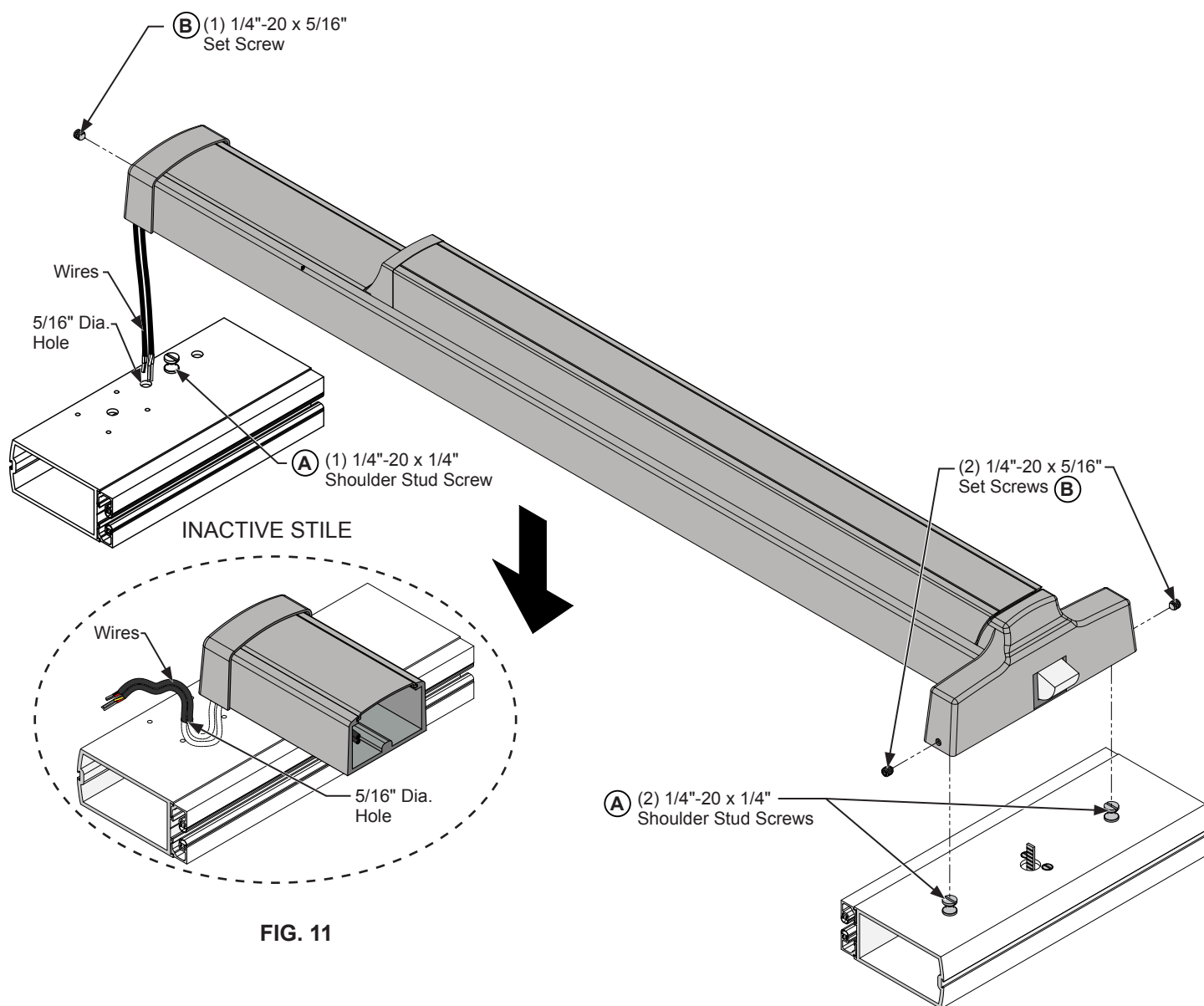


FIG. 10

ACTIVE STILE

FIG. 11

NOT TO SCALE

FRAME PREPARATION

RE-ATTACH DOOR TO FRAME

1. Make sure that the panic exit device is in the dogged position.
2. With the door in the closed position, mark the center line location of the Panic Device on the Strike Jamb.
3. Position the Strike over the center line and mark the screw hole locations. **(Fig. 12)**

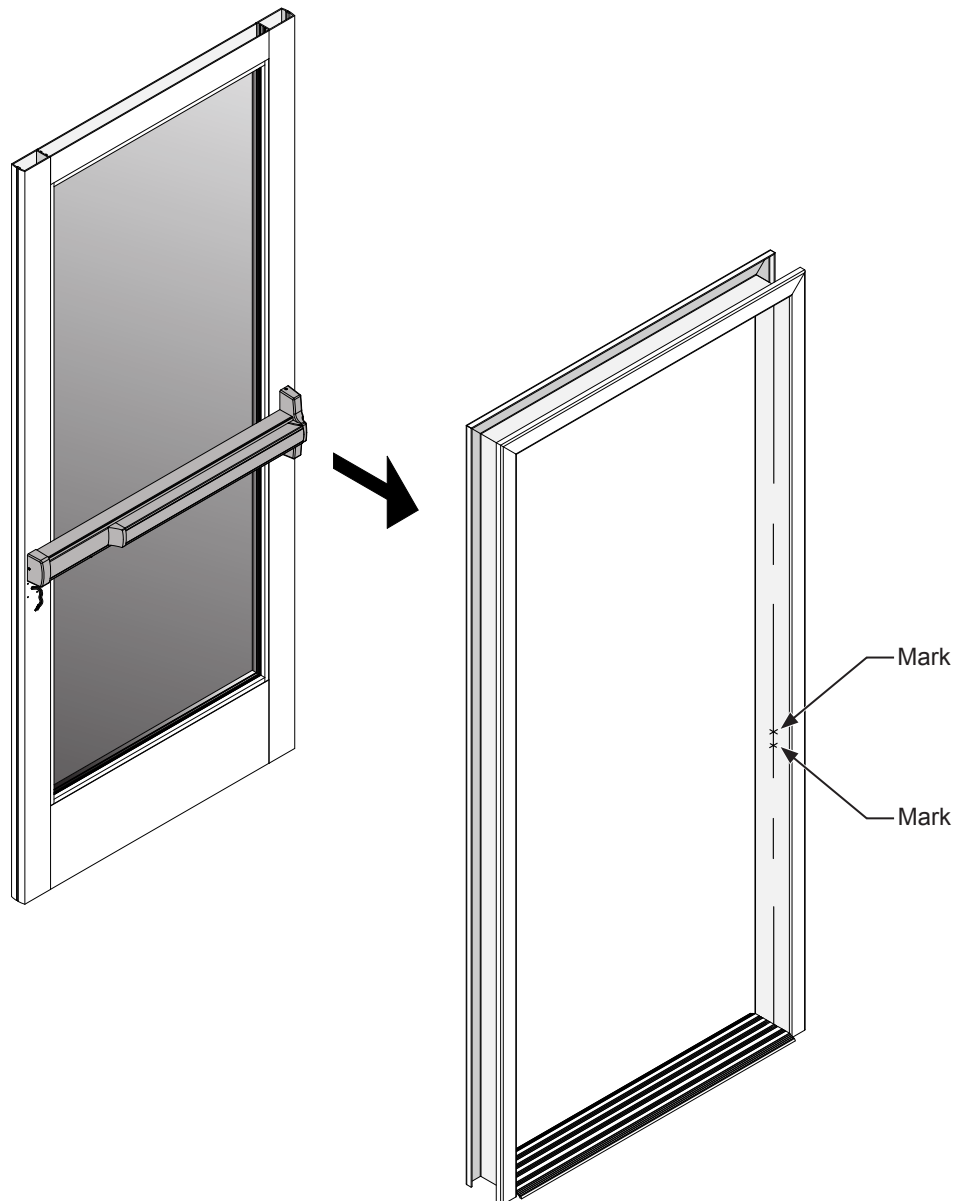


FIG. 12

NOT TO SCALE

FRAME PREPARATION (CONTINUED)

ATTACH THE STRIKE

Drill and tap for © (2) 10-32 x 5/8" OHMS on the marks made in step 3 of the frame preparation on page 12. Attach the strike to the door jamb using © (2) 10-32 x 5/8" OHMS. (Fig. 13)

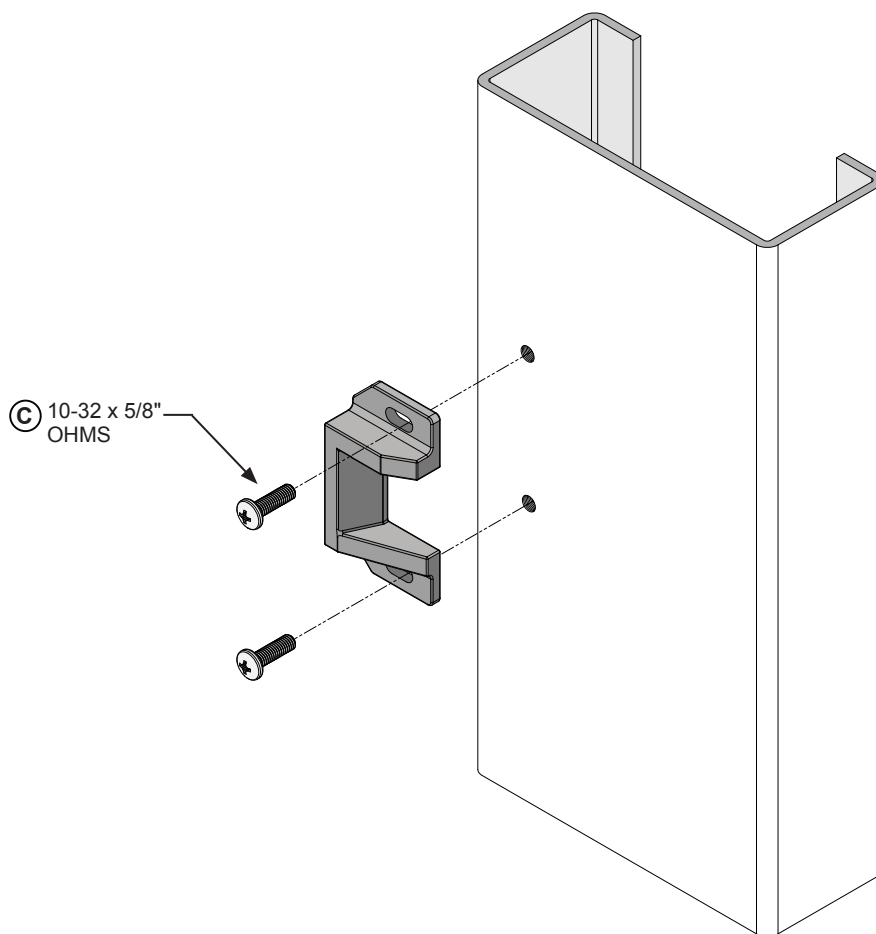


FIG. 13

NOT TO SCALE

CONNECTING THE ELECTRICAL

POWER SUPPLY NO. 302616/1406

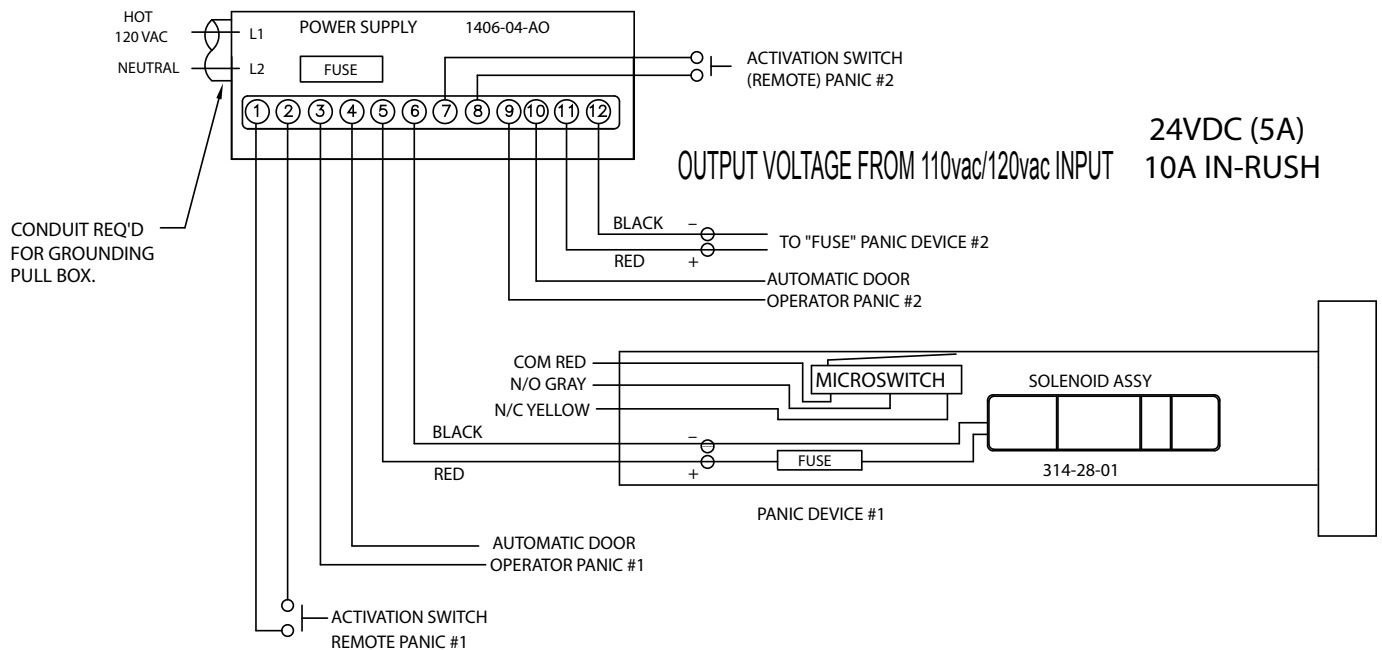
ELECTRICAL SCHEMATIC

NOTE: Used with all Jackson 20E Series Electrified Solenoid Latch Retraction Panic Devices Manufactured prior to August 15, 2016.

For use with Motorized Latch Retraction manufactured after August 15, 2016, see page 15.

For Power Supply No. 301420 used with Motorized Latch Retraction, See page 16.

When the exit device works properly, connect the wires to the power supply as shown in Figure 17, once the wires are properly attached to the power supply you need to feed the proper wires through the 5/16" Dia. hole prepped on the non - active door jamb as shown on Figure 17 on Page 17.



NOTES

- 1.) WHEN CONTACTS OF TIME CLOCK OR OVERRIDE SWITCH CLOSE.
EXIT DEVICE LATCH BOLTS WILL CLOSE.
- 2.) —○— DENOTES A FIELD WIRE CONNECTION.
- 3.) RECOMMENDED WIRE Ga FROM POWER SUPPLY TO PANIC:
16 Ga UP TO 40'
14 Ga UP TO 60'
12 Ga UP TO 100'

FIG. 14

NOT TO SCALE

CONNECTING THE ELECTRICAL (CONTINUED)

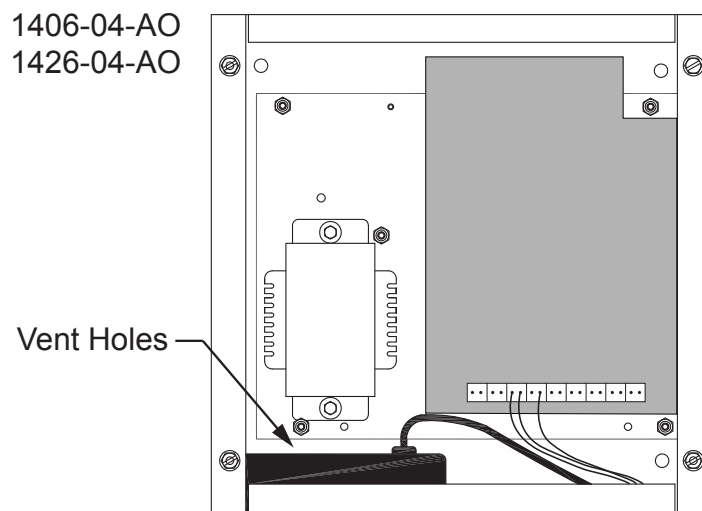
POWER SUPPLY NO. 302616/1406 ELECTRICAL SCHEMATIC

The 1406/1426-PSM-24VDC Power Supply Module converts device output voltage from Jackson 302616, ACSI Series 1406 supplies to a filtered, regulated 24VDC output for use with Jackson Series 20E Motor Drive Electric Latch Retraction Exit Devices. Up to two devices can be connected to the module's regulated output.

Installing the Module

The power supply module can simply be placed inside the enclosure on the bottom side at the locations shown in Figures 15. Vent holes must face upward, as indicated in Figure 15, to allow for maximum heat dissipation.

NOTE: Used with Jackson 20E Series Electrified Motorized Latch Retraction Panic Devices Manufactured after August 15, 2016, only when powered by Power Supply model No. 302616/1406



WIRE DIAGRAM

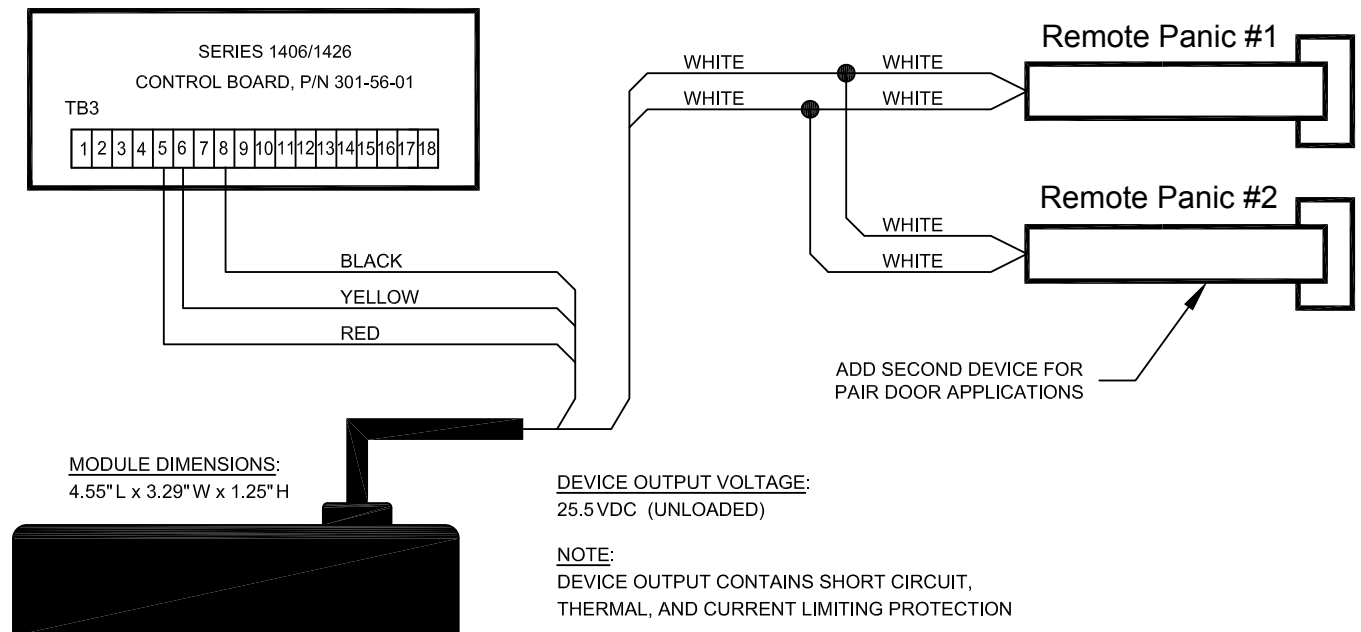


FIG. 15

NOT TO SCALE

CONNECTING THE ELECTRICAL (CONTINUED)

POWER SUPPLY NO. 301420

ELECTRICAL SCHEMATIC

NOTE: Used with Jackson 20E Series Electrified Motorized Latch Retraction Panic Devices Manufactured after August 15, 2016. For Solenoid Latch Retraction Manufactured before August 15, 2016, See Page 14.

SPECIFICATIONS:

INPUT VOLTAGE: 120VAC/240VAC, 50/60Hz
AC CURRENT: 900mA/120VAC, 600mA/240VAC
OUTPUT VOLTAGE: 24VDC FILTERED, REGULATED
OUTPUT CURRENT: 2.0A
OUTPUT POWER: 48W
PROTECTION: OVERLOAD, OVER VOLTAGE, SHORT CIRCUIT

USE INSTALLATION INSTRUCTIONS II - 1400-5

ACCESS CONTROL POWER SUPPLY CLASS 2 OUTPUTS

SECURITY



LISTED EQUIPMENT 4M73

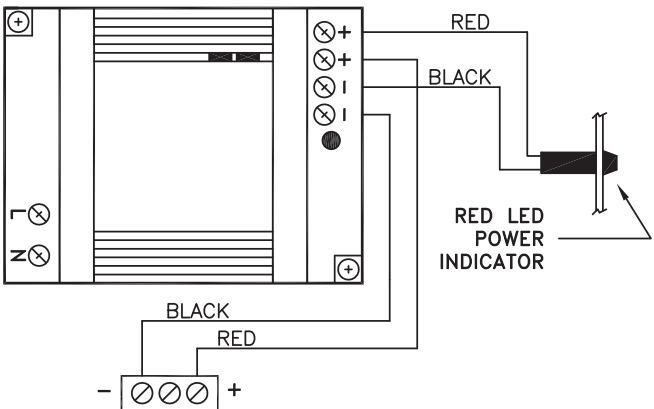
MFG. DATE:

POWER SUPPLY INTENDED FOR INDOOR USE ONLY

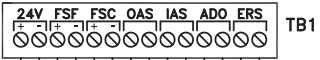
STRIP WIRE BACK 6mm. WIRES MUST BE FULLY INSERTED INTO TERMINALS SO THAT NO BARE METAL IS EXPOSED. FLEXIBLE CABLE: ALL STRANDS MUST BE SECURED IN TERMINAL. USE COPPER CONDUCTORS ONLY.

TERMINAL SIZE RANGE: 120VAC OR 240VAC INPUT
AWG24-10 FOR A TYPE
AWG24-14 FOR B TYPE

CLASS 2 DOUBLE INSULATION. NO EARTH GROUND WIRE REQUIRED.

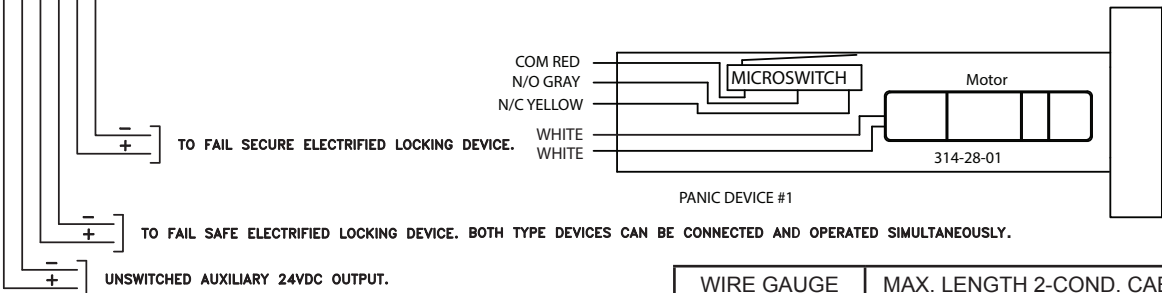


CONTROL BOARD I/O CONNECTOR



RELEASING DEVICE (FIRE ALARM, EMERGENCY RELEASE SWITCH, ETC.). OPENING SWITCH CONTACTS WILL RELEASE ELECTRIFIED LOCKING DEVICE(S). NOTE: THIS INPUT IS DISABLED BY DEFAULT - REFER TO INSTALLATION INSTRUCTIONS.
RELAY N.O. DRY CONTACT OUTPUT TO "DOOR OPEN" ACTIVATION INPUT OF AUTOMATIC DOOR OPERATOR. MOMENTARY CLOSURE OF CONTACTS WILL ACTIVATE OPERATOR UNIT.
INSIDE ACTIVATION SWITCH FOR EXITING (HANDICAPPED WALL ACTUATOR, ETC.). MOMENTARY CLOSURE OF CONTACTS WILL SEQUENTIALLY RELEASE ELECTRIFIED LOCKING DEVICE(S) AND ACTIVATE OPERATOR UNIT.
OUTSIDE ACTIVATION SWITCH FOR ENTRY (HANDICAPPED WALL ACTUATOR, ETC.). MOMENTARY CLOSURE OF CONTACTS WILL SEQUENTIALLY RELEASE ELECTRIFIED LOCKING DEVICE(S) AND ACTIVATE OPERATOR UNIT.

CONTROL BOARD 24V POWER CONNECTOR J1



NOTES:

- 1.) The sum of all outputs cannot exceed 2 AMPS.
- 2.) When contacts of time clock or override switch close.
- 3.) —○— Denotes a Field Wire Connection.
- 4.) Recommended Wire Ga. from Power Supply to Panic:

FIG. 16

WIRE GAUGE	MAX. LENGTH 2-COND. CABLE
22	70 FEET
20	110 FEET
18	180 FEET
15	280 FEET
14	450 FEET
12	720 FEET

NOT TO SCALE

PREPARE THE NON-ACTIVE DOOR JAMB SIDE

Drill a 5/16" Dia. hole and Drill (4) 1/8" Dia. pilot holes. (Fig. 17)

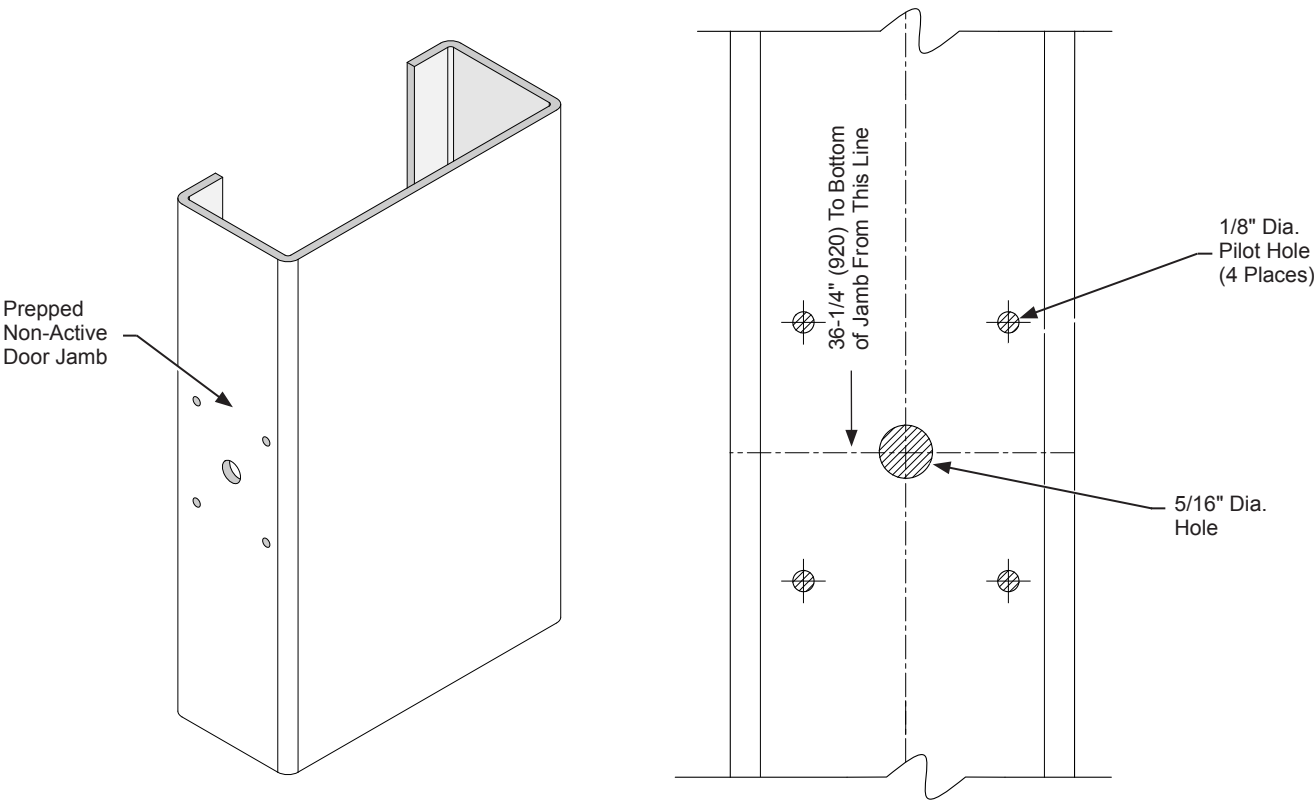


FIG. 17

NOT TO SCALE

CONNECTING ELECTRICAL COMPONENTS

CONNECTING THE WIRES

After preparing non-active door jamb. (Fig.17) Route the wires through the the hole on the door jamb. (Fig. 18)
Next feed the wires through the Armored Door Loop, and secure the Armored Door Loop to the door jamb using

ⓕ (4) #8 x 1-1/4" FHSMS. (Fig. 19)

Once you have secured the Armored Door Loop, connect the wires from the Armored Door Loop to the exit device wires using Twist-On Wire connectors. (Fig.19)

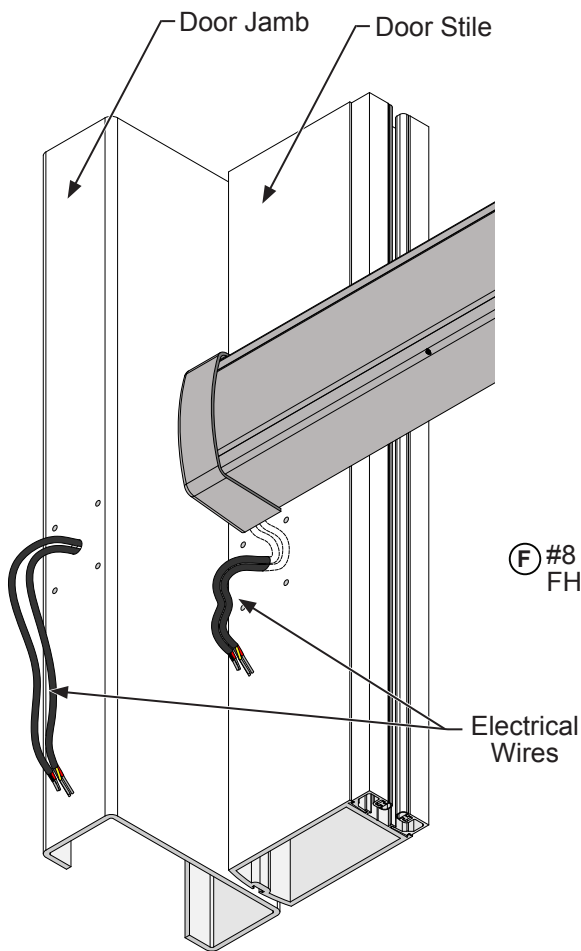


FIG. 18

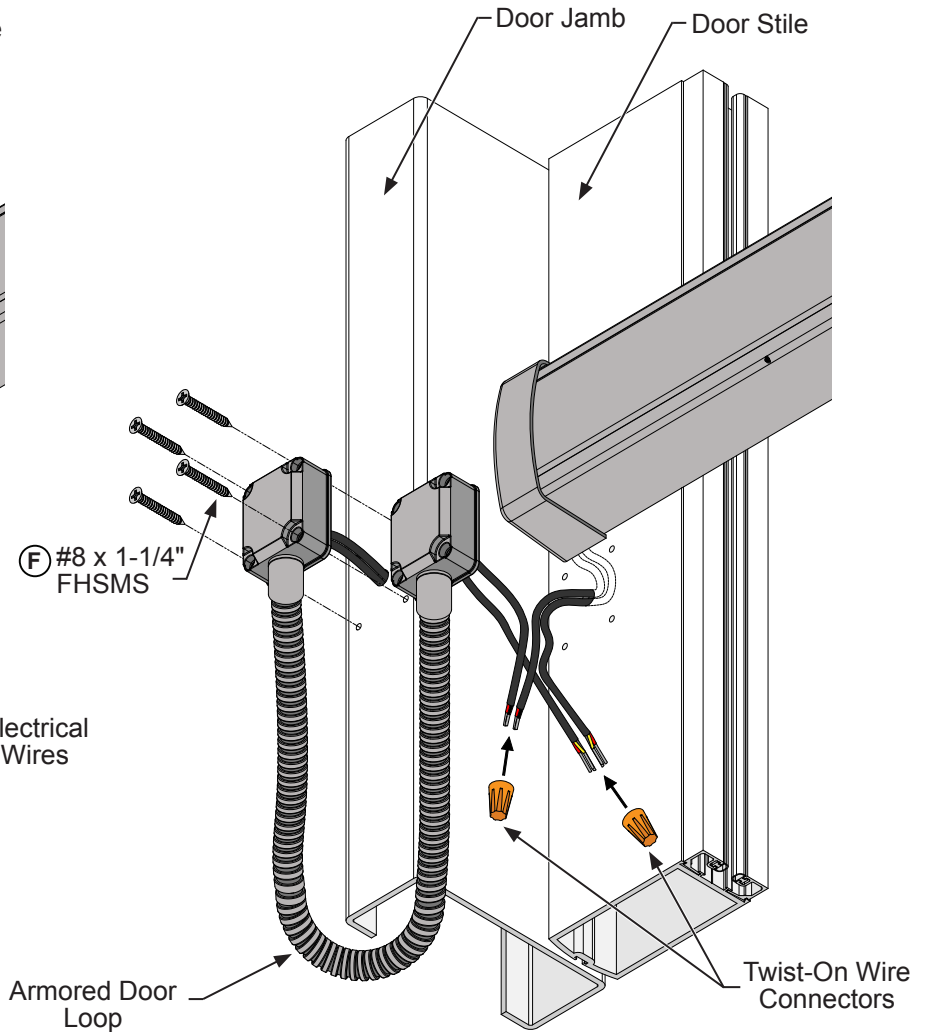


FIG.19

NOT TO SCALE

CONNECTING ELECTRICAL COMPONENTS (CONTINUED)

ARMORED DOOR LOOP INSTALLATION

After the wires are connected, slip the remaining slacking wires and twist-on connectors back into the door stile and into the pocket of the door loop. **(Fig 20)** Secure the door loop to the door stile using **(F)** (4) #8 x 1-1/4" FHSMS. **(Fig. 21)**

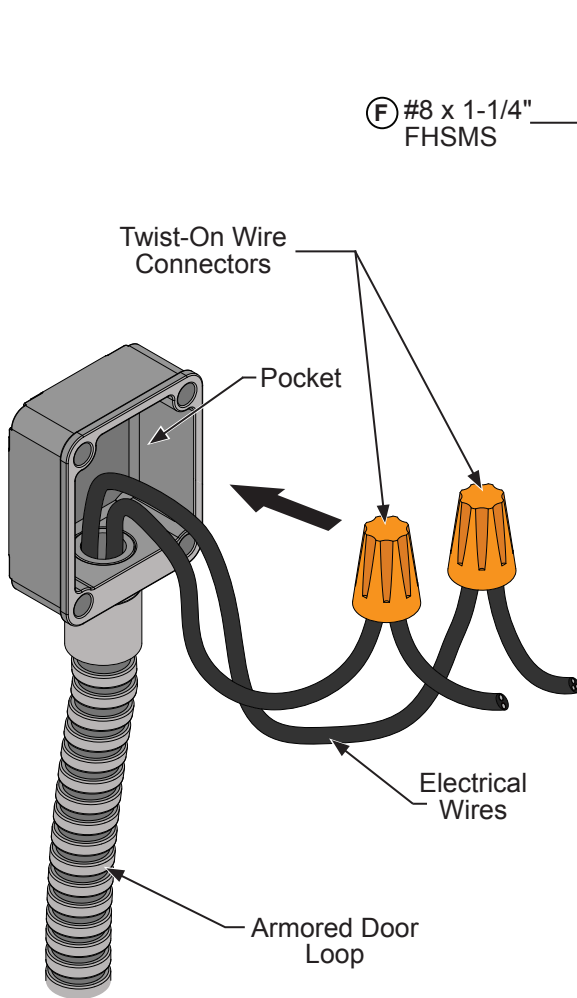


FIG. 20

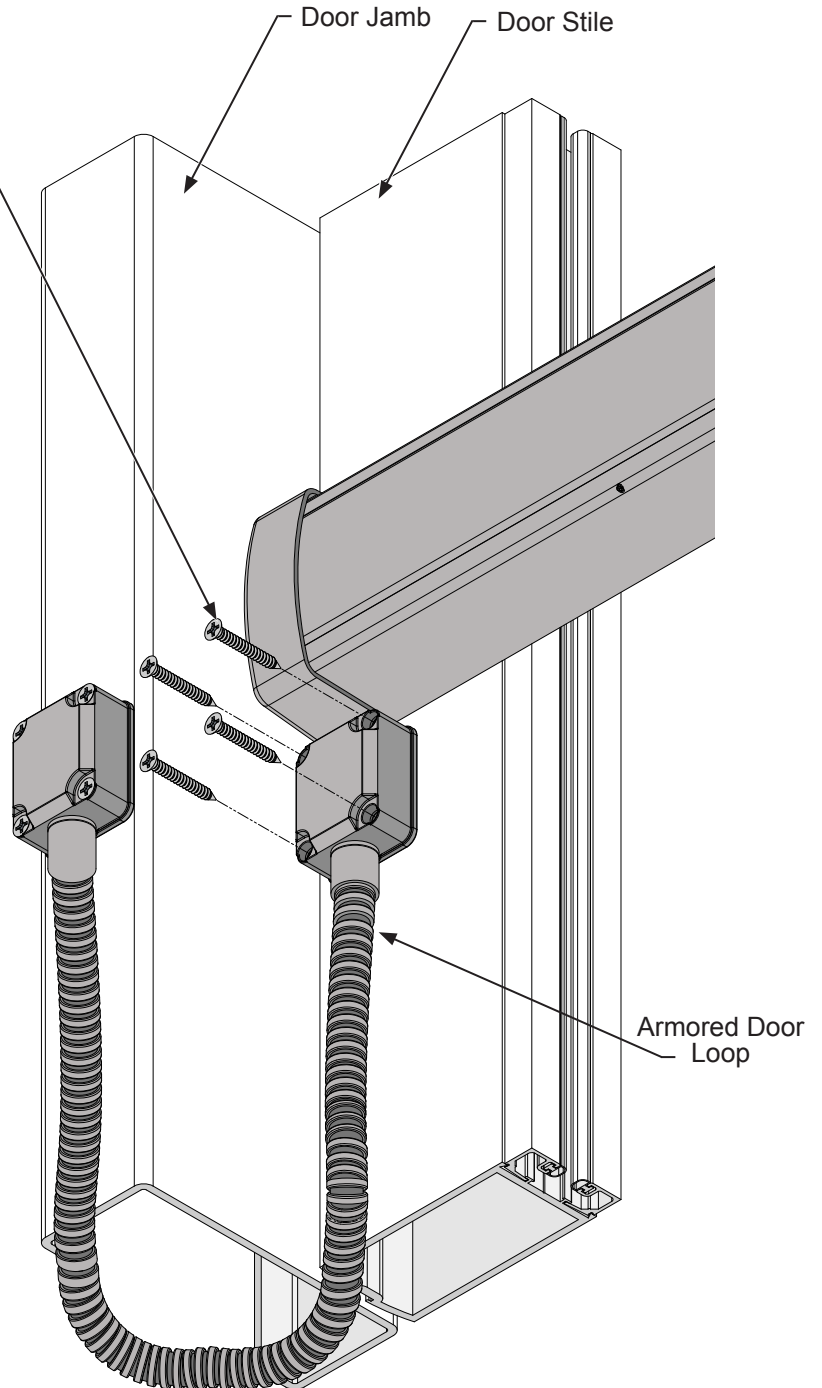
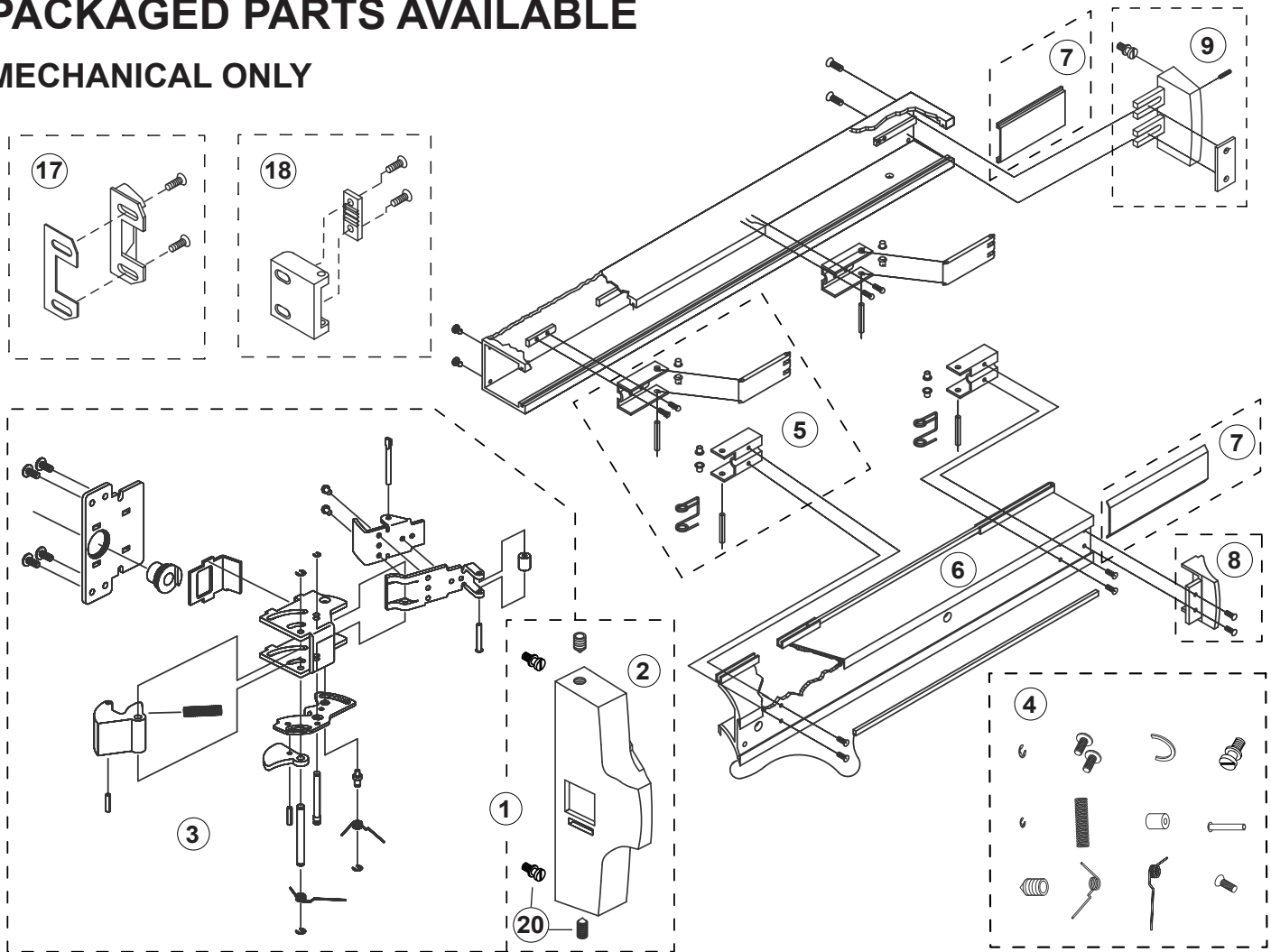


FIG. 21

NOT TO SCALE

PACKAGED PARTS AVAILABLE

MECHANICAL ONLY



Assembly No.	Part No.	Description
1	302622	Active Head Assembly-Complete
2	302627	Active Head Cover Package
3	302635	Active Head Base Plate Assembly
4	302610	Head Assembly Hardware Package
5	301064	Control Arm Hardware Package
6	302480PKG	Push-Pad Package
7	301063	Base Cover Plate Package
8	301265	Push-Pad End Cap Package
9	301266	Base End Cap Package
17	302436628	"C" Type-Surface Mounted Strike
18	302501	"S" Type-Surface Mounted Strike
20	30SBPKG	Mounting Shoulder Bolt and Set Screw Package (12 Pkg.)