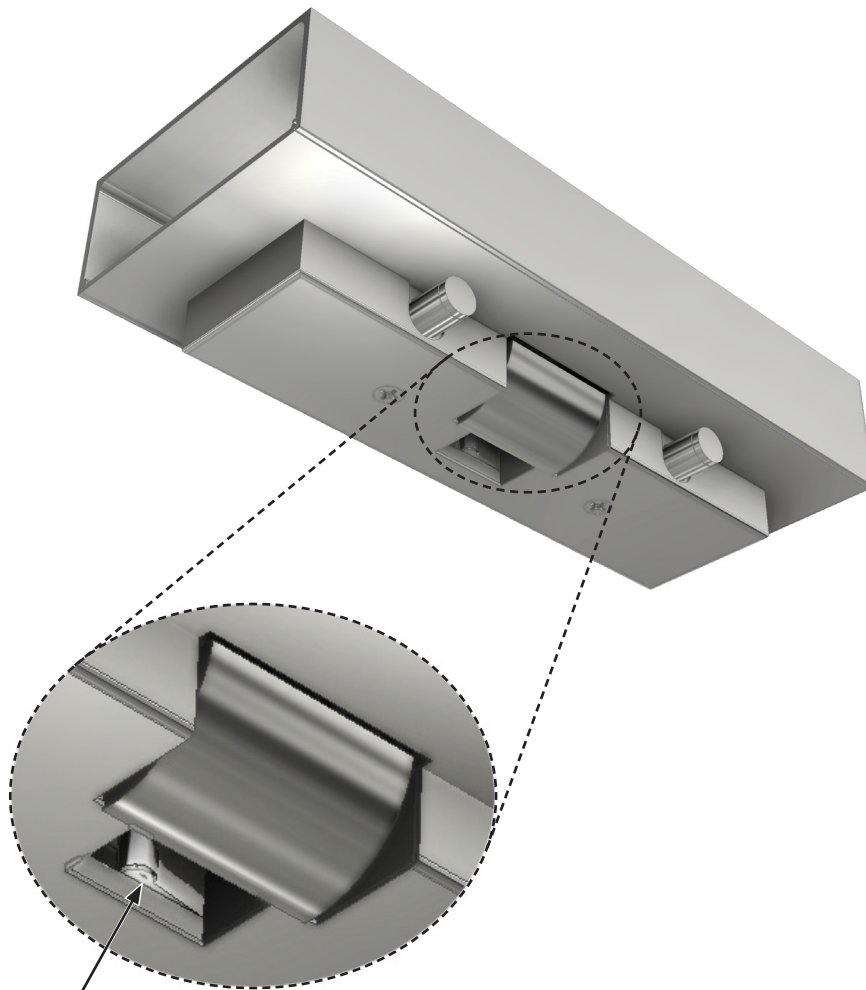


# INSTALLATION INSTRUCTIONS

## CRL ESK1/ESP1 ELECTRIC STRIKE KEEPER FOR SINGLE DOORS



**NOTE:**  
Sensor feature  
available on ESP  
Strikes only.



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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.

## INTRODUCTION

### ESK1/ESP1 ELECTRIC STRIKE KEEPER

#### FEATURES

- Designed for use with 1/2" or 3/4" (12.7 or 19) tempered glass doors.
- Used in conjunction with CRL glass door Panic and Deadbolt Handles.
- Fail secure. (Fail safe optional)
- Latch/Deadbolt Monitor (ESP Strikes only)

This Electric Strike Keeper satisfies the following safety standards:

- a. American National Standards Institute (ANSI/BHMA)
  - i. A117.1 Providing Accessibility and Usability for Physically Handicapped People
  - ii. A156.3 Exit Devices
  - iii. A156.18 Materials and Finishes
- b. Americans with Disabilities Act (A.D.A.)
- c. American Society for Testing and Materials (ASTM)
- d. National Fire Protection Association (NFPA 101)
- e. Underwriters Laboratory (UL)
  - i. 305 Panic Hardware

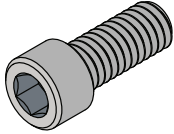
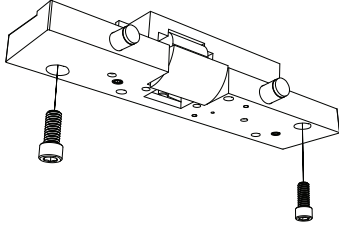
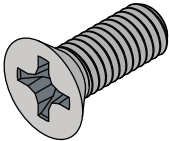
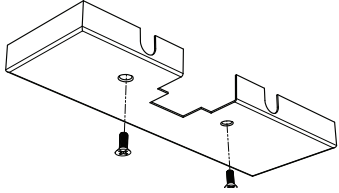
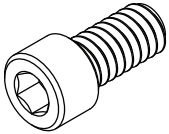
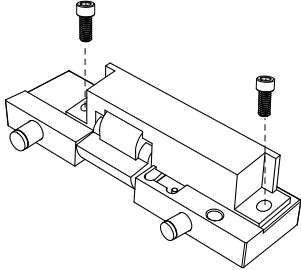
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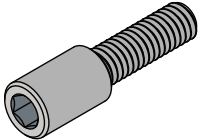
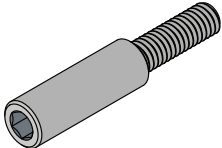
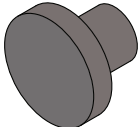
## Tools Required

Drill bits: 1/4"	Center Punch
Taps: 5/16-18	Flat Metal File
Tape Measure	Round Metal File
Saw Horses	Jigsaw with Metal Cutting Blade
Cordless Drill	Stepladder
Phillips Head Screwdriver	Framing Square/Straight Edge
1/4" and 3/16" Hex Keys	ESP040 Adjustable Gauge (Ordered Separately)
3/4" Masking Tape	

**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.

## PARTS IDENTIFICATION

FASTENERS AND PARTS LIST					
CALL OUT	QTY.	FASTENER	FASTENER DESCRIPTION	PART	USED WITH PART NUMBER
Ⓐ	2		5/16-18 x 3/4" SHCS		ESK1/ESP1 Electric Strike Keeper for Single Door
Ⓑ	2		10-32 x 1/2" FHMS		Electric Strike Cover (Included with ESK1/ESP1)
Ⓒ	2		1/4-20 x 1/2" SHCS		ESK1/ESP1 Electric Strike Keeper for Single Door

PARTS LIST				
CALL OUT	QTY	PART	PART NO.	DESCRIPTION
Ⓓ	2		ESK01	5/16-18 x 1" SHCS Stop Screw for Rail Mount Doors (Bumper Sold Separately)
Ⓔ	2		ESK02	5/16-18 x 1" SHCS Stop Screw for Glass Mount Doors (Bumper Sold Separately)
Ⓕ	2		BMPRBR	Rubber Bumper for Strike

# HEADER PREPARATION

## REMOVE HEADER AND PREPARE PER ATTACHED TEMPLATE

1. Place the header horizontally on the work surface, interior side up.
2. Mark the centerlines and the layout on the header as shown in. (Fig. 1)

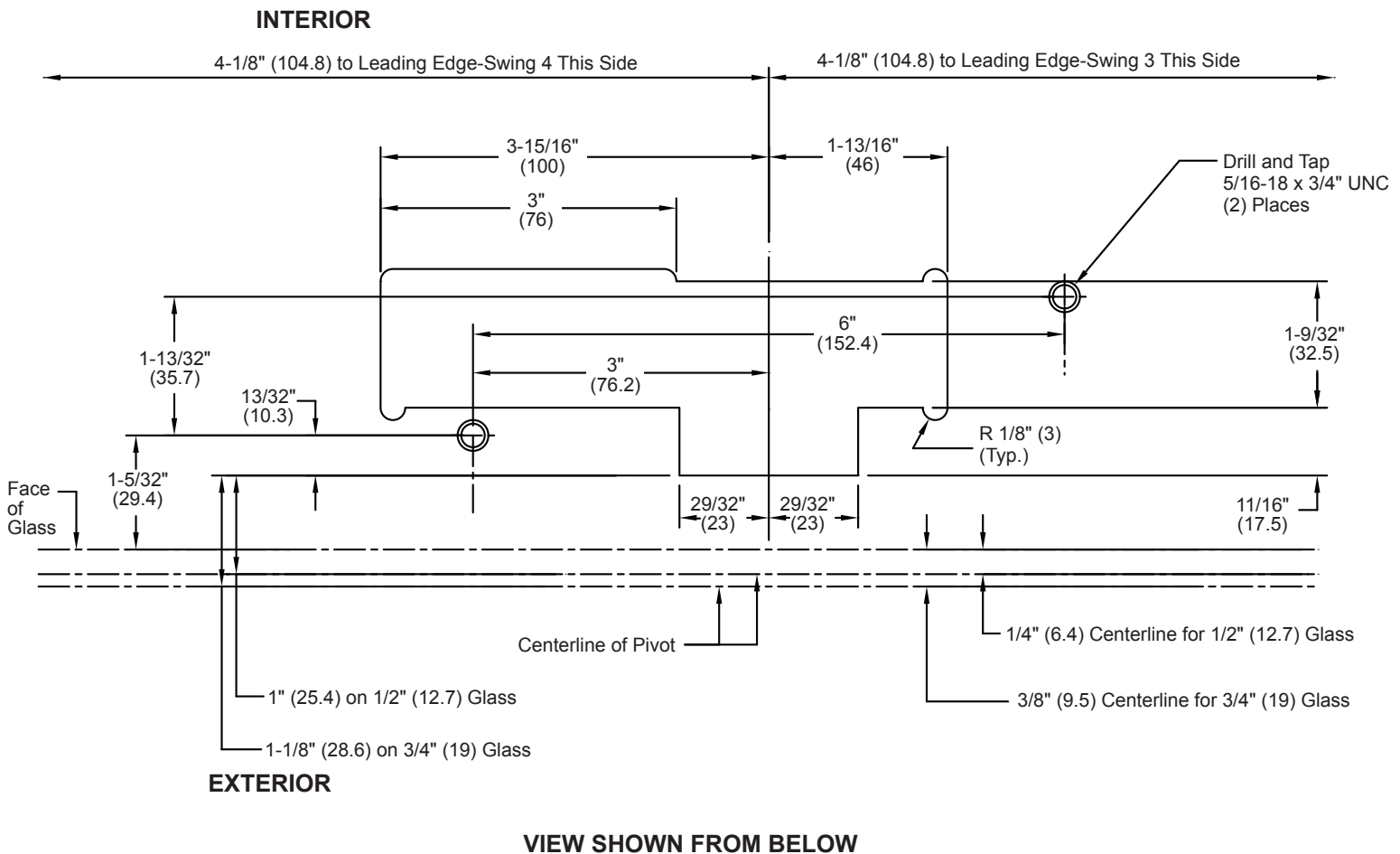


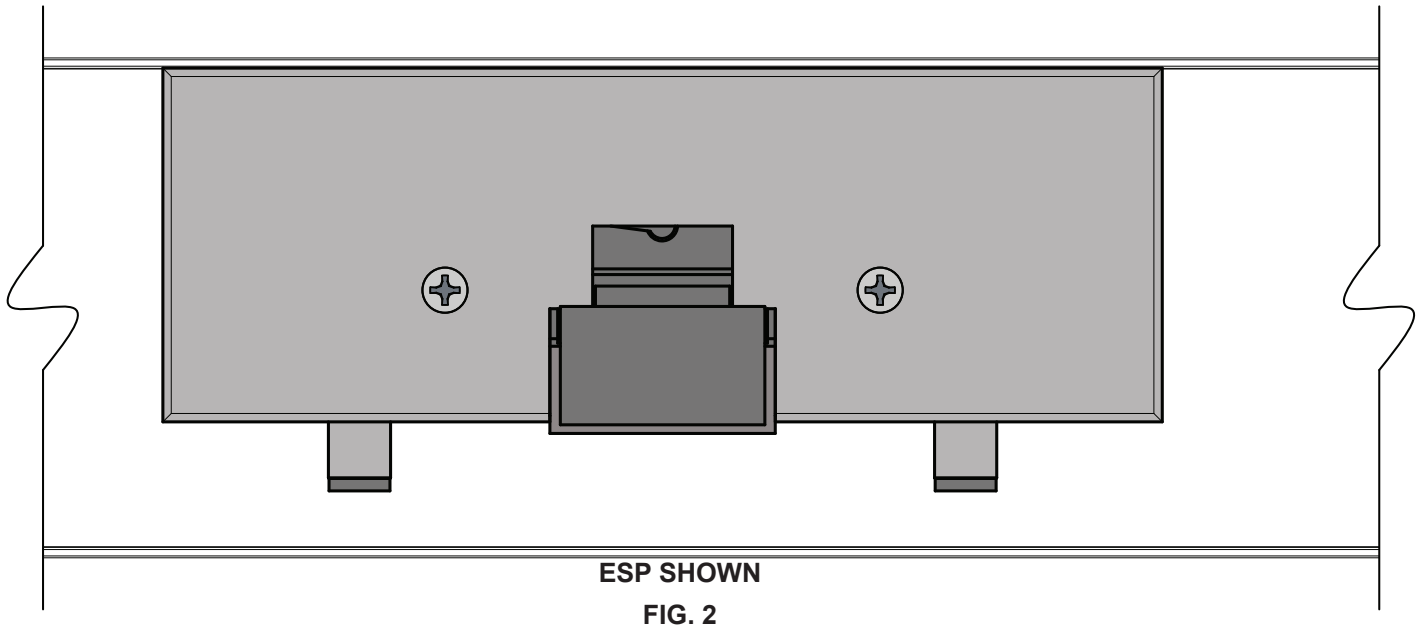
FIG. 1

NOT TO SCALE

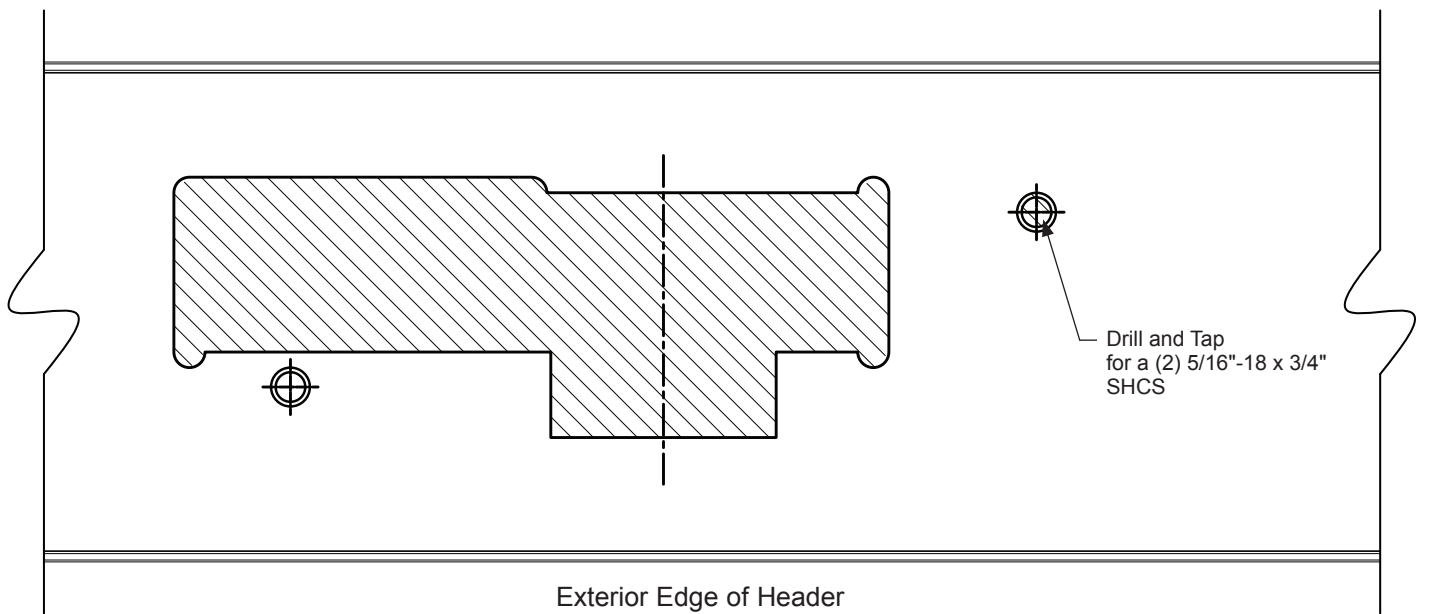
## HEADER PREPARATION (CONTINUED)

REINSTALL THE PREPARED HEADER AND CONTINUE WITH THE ELECTRIC STRIKE INSTALLATION

### Hardware Configuration



### Interior Edge of Header

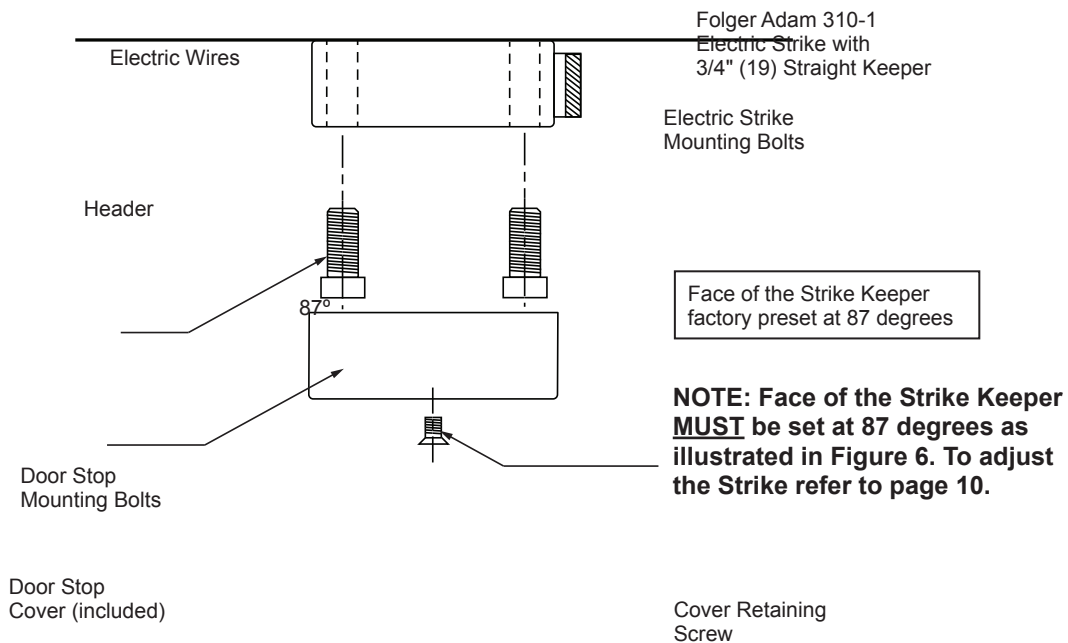
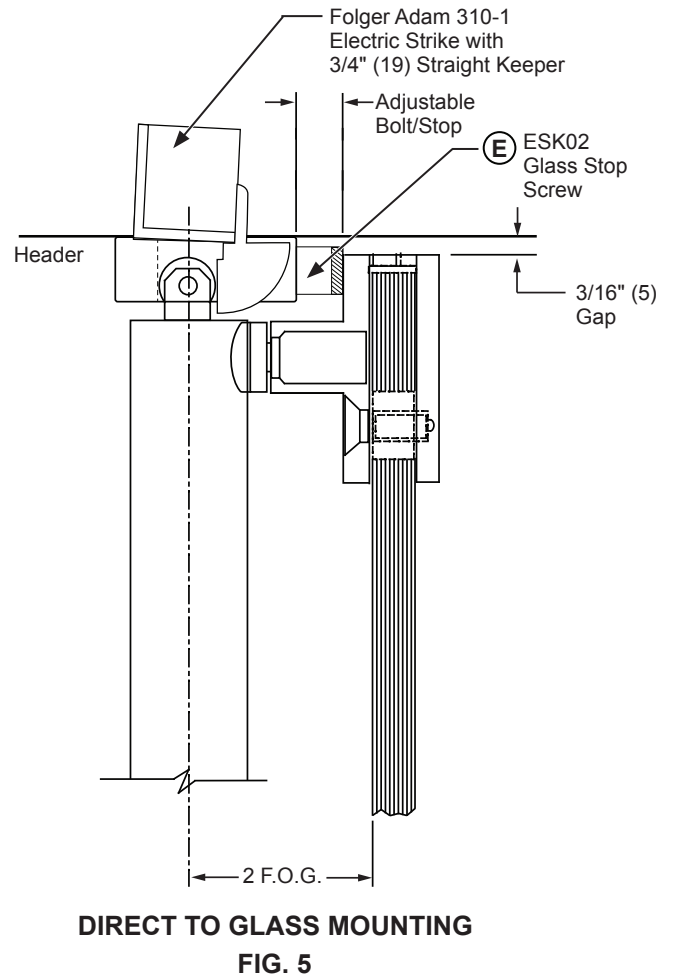
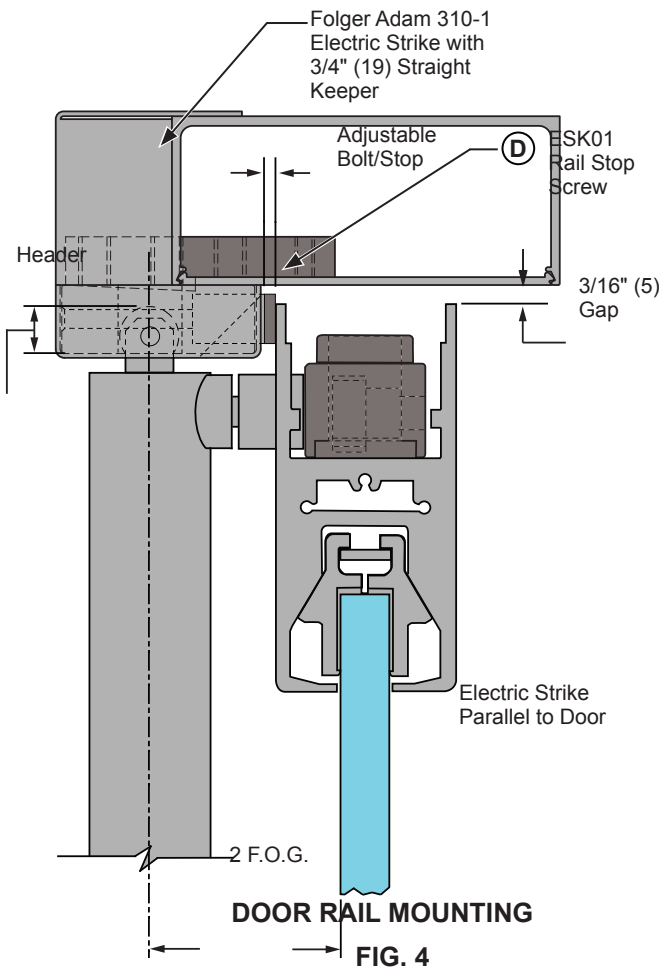


Use Template from Box

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# ELECTRIC STRIKE APPLICATIONS

## DOOR RAIL APPLICATION AND DIRECT TO GLASS APPLICATION



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# ELECTRIC STRIKE ATTACHMENT

## VOLTAGE AND WIRING

**NOTE:** Proper operating voltage must be supplied to the Strike for it to function correctly. Voltage must be within  $\pm 10\%$  of the required voltage that is listed on the Strike Label.

1. Before installing the strike, make the necessary wire connections. Refer to the table below in. **(Fig. 7)**

⑥A for ESK/ESP strikes.

⑥B for latch/deadbolt and monitor on ESP strikes only.

2. When you are installing the strike into the frame cut-out (Fig. 3, page 06), tuck the wiring away from the strike area to avoid pinching.

### Specifications

- Handle material: 1-1/4" (32) diameter Stainless Steel Tubing.
- Switch, SPDT, maximum contact rating 5 Amps @ 250 Volts.
- Watertight precision body.
- 10 million cycle mechanism.
- Meets with IP67 (IEC 529) requirements.

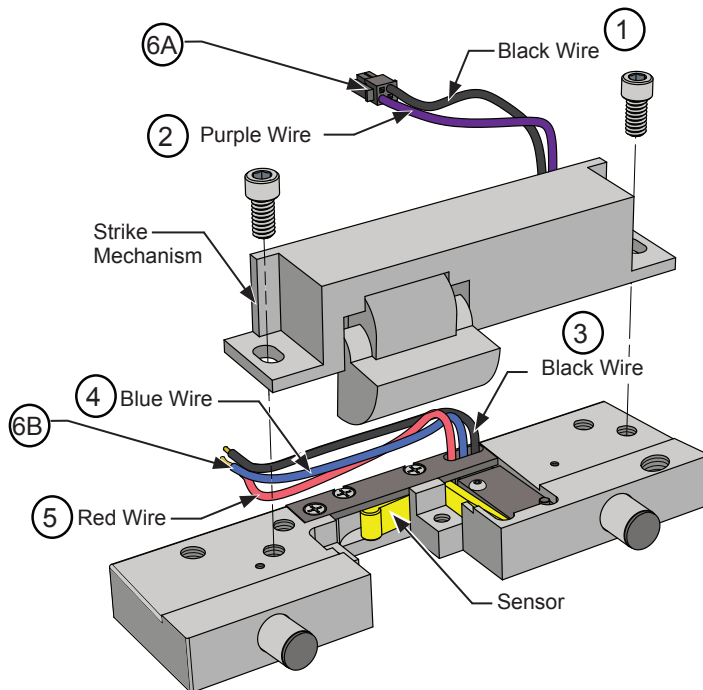


FIG. 7

ELECTRICAL RATINGS FOR SOLENOID	
CONTINUOUS DUTY	24V DC
RESISTANCE IN OHMS	96
AMPS	.25

MINIMUM GAGE REQUIREMENTS	
300 FEET OR LESS	18 ga.
300 - 400 FEET	16 ga.

ELECTRIC STRIKE	WIRE STANDARDS		
	WIRE #	COLOR	USAGE
ELECTRIC STRIKE	1	BLACK	RETURN (-)
	2	PURPLE	24V DC POWER
BOLT MONITOR SWITCH	3	BLACK	COM
	4	RED	NO
	5	BLUE	NC

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## ELECTRIC STRIKE ATTACHMENT (CONTINUED)

1. Fasten the Electric Strike to the header using **(A)** (2) 5/16-18 x 3/4" SHCS. **(Fig. 8)**
2. Check the horizontal alignment. Make sure that the centerline of the latch bolt is aligned with the centerline of the strike.
3. In case of misalignment, a 3/16" (4.8) horizontal adjustment may be made between the strike mechanism and the face plate. **(Fig. 9)**

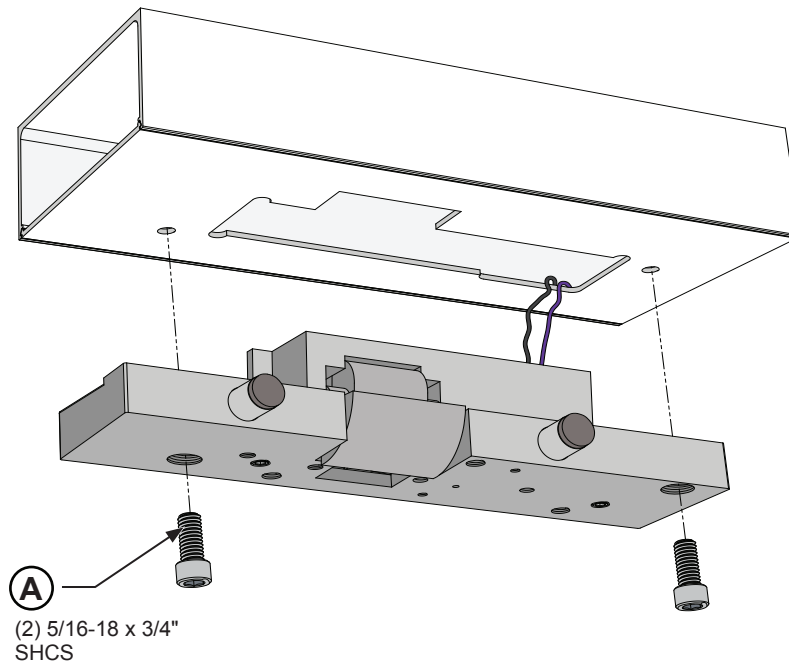


FIG. 8

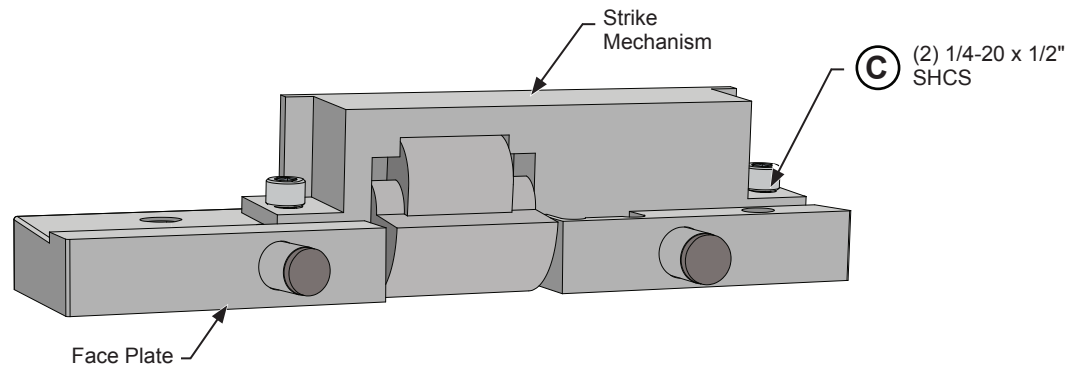


FIG. 9

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## ELECTRIC STRIKE ATTACHMENT (CONTINUED)

### ELECTRIC STRIKE ADJUSTMENT

**\*THIS IS REQUIRED ONLY IF:**

1. Electric Strike is replaced.
2. The latch sensor gives a false reading when the door is pushed out while secured.

**To Adjust:**

- A) Remove the **(A)** (2) 5/16"-18 x 3/4" SHCS.
- B) Remove the Strike from the header. **(Fig.10)**
- C) Loosen the **(C)** (2) 1/4"-20 x 1/2" SHCS.
- D) Apply pressure to the Strike Keeper to create a gap. **(Fig.11)**
- E) Insert the **ESP040** Electric Offset Jig while holding the Strike Keeper. **(Fig.12)**
- F) Push and hold the Strike Keeper in against the Jig and re-tighten the **(C)** (2) 1/4"-20 x 1/2" SHCS. **(Fig.13)**
- G) Remove the **ESP040** Electric Offset Jig. **(Fig.14)**
- H) Install the Electric Strike Assembly using the **(A)** (2) 5/16"-18 x 3/4" SHCS.

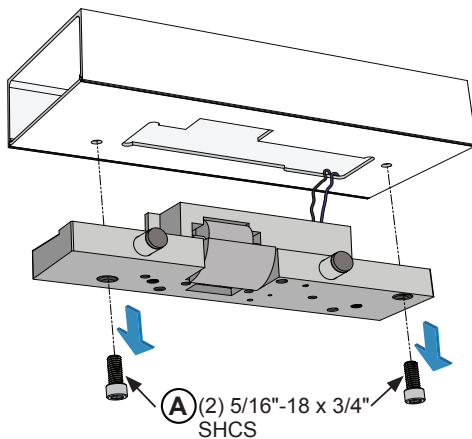


FIG. 10

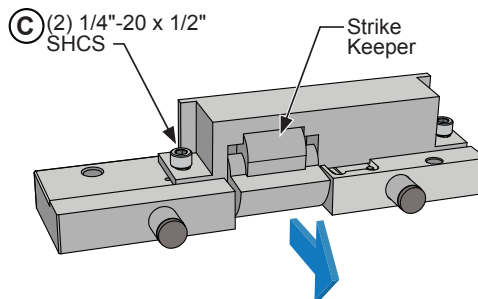


FIG. 11

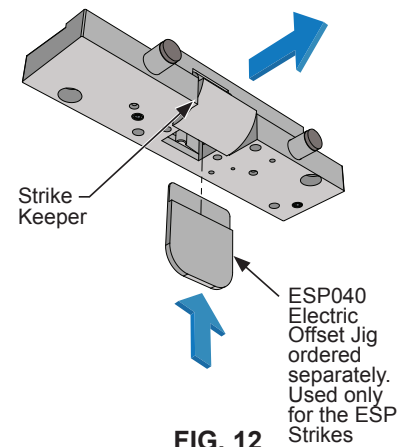


FIG. 12

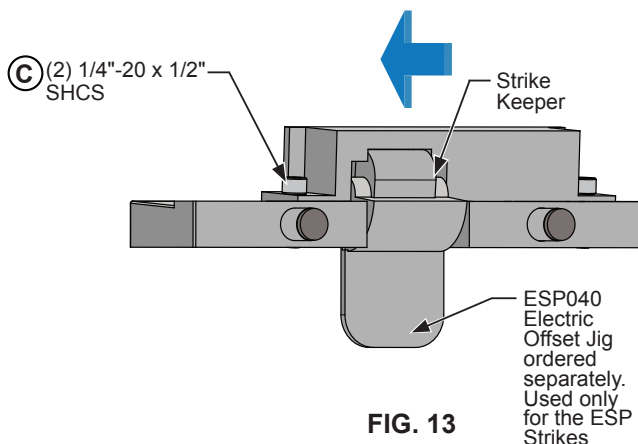


FIG. 13

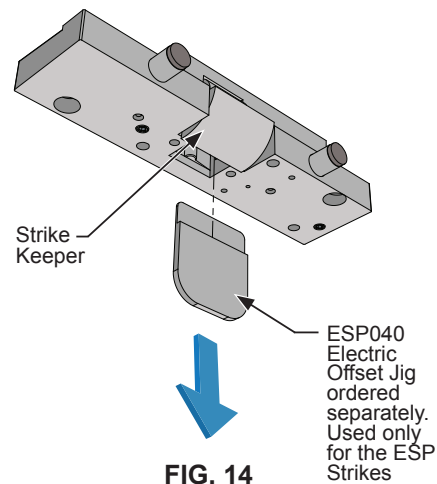
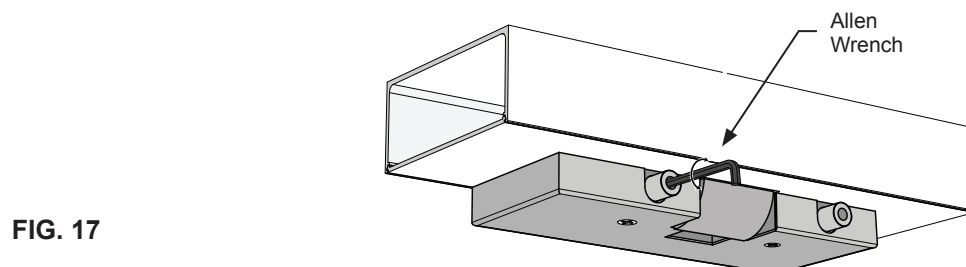
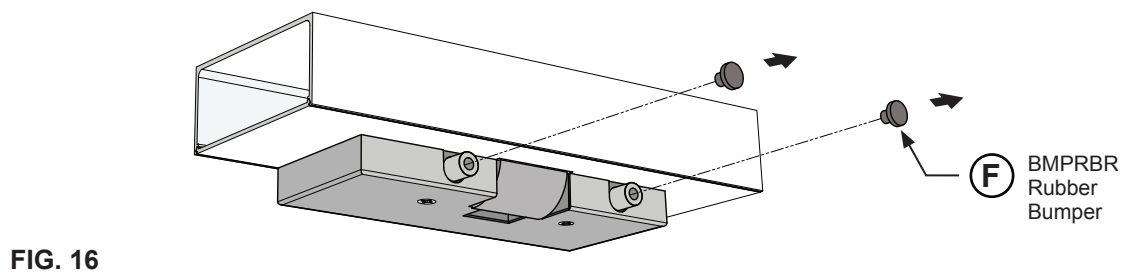
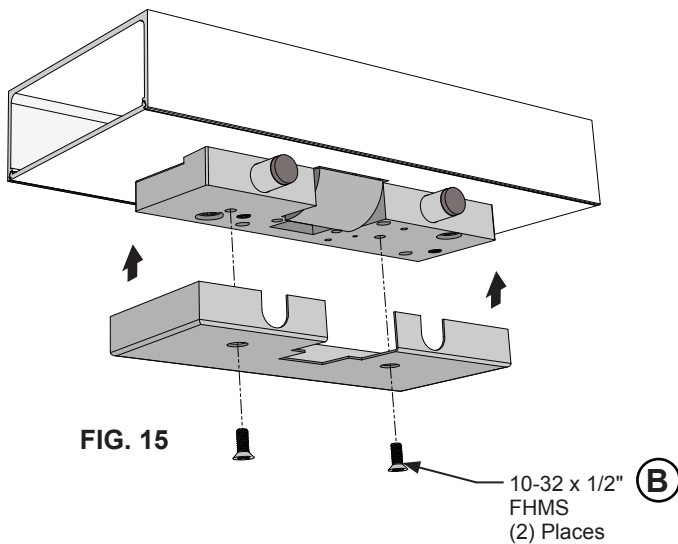


FIG. 14

## ELECTRIC STRIKE INSTALLATION (CONTINUED)

### RE-ATTACH STRIKE COVER AND MAKE FINAL ADJUSTMENTS

1. Install the Strike cover using **(B)** (2) 10-32 x 1/2" FHMS. **(Fig. 15)**
2. When the door closes against the rubber stop pads, the retractable bolt should automatically move upward to engage the Strike.
3. If it does NOT engage, the door stops should be adjusted inward. Do not overtighten. This can cause the door to rattle.
4. To adjust the stop, remove the rubber bumper covering a socket for a 1/4" Allen wrench. **(Fig. 16)** Insert the wrench and rotate in or out as needed. **(Fig. 17)** One full turn is equal to approximately 1/16" (1.6) of adjustment. Re-attach the rubber bumper.



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