4500C Series
Electric Strike

Installation Instructions

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Product Components

A 4500C Series Electric Strike Body

B Keeper Shims & Screws (#4-40 x 1/8" and #4-40 x 3/16")

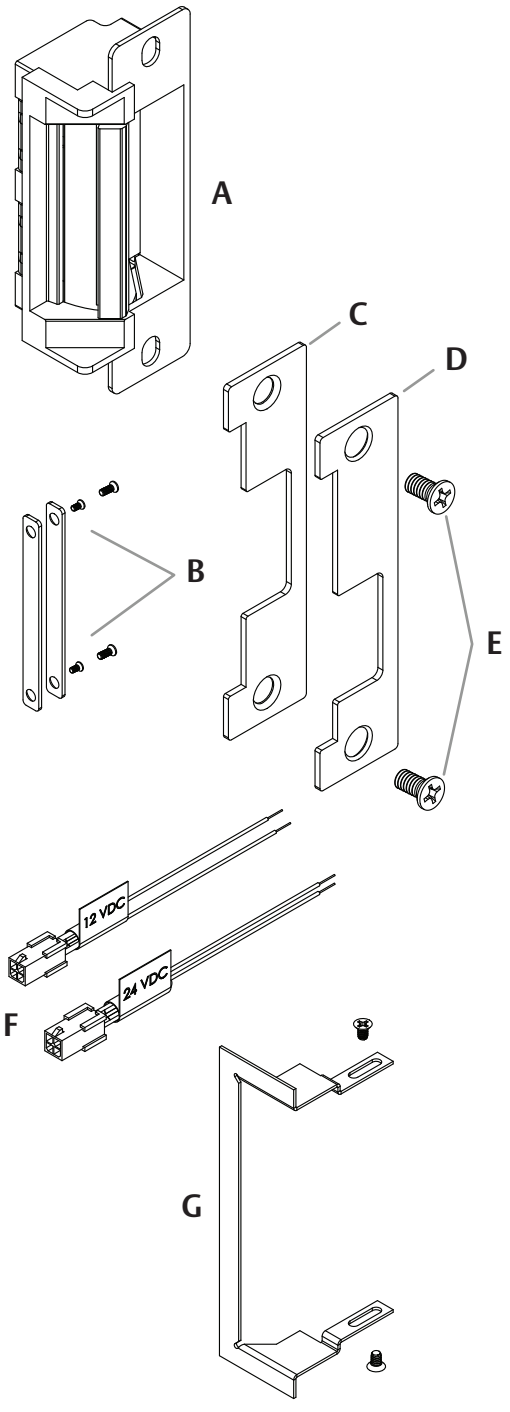
C Centerlined and Non-handed Faceplate for Cylindrical Locksets

D Offset and Non-handed Faceplate for Mortise Locksets

E #12-24 x 1/2" Mounting Screws

F 12 & 24 Volt Plug In Connectors

G Trim Enhancer & Screws



Electrical Specifications

Electrical Ratings for Solenoid	Continuous Duty		Intermittent Duty*	
Voltage	12 VDC	24 VDC	12–16 VAC	24 VAC
Resistance in Ohms	50	200	50	200
Amps	.24	.12	.24–.32	.12

Solenoids are rated at +/– 10% indicated value.
** 10% max duty cycle (2 min. max on time)*

For inductive kickback protection, consider using with the HES 2005M3 SMART Pac® III or 2001M Plug-in Bridge Rectifier with built-in MOV.

Minimum Wire Guage Requirements		
Voltage	12 VDC	24 VDC
200 feet or less	18 guage	20 guage
200–300 feet	16 guage	18 guage
300–400 feet	14 guage	16 guage

Lengths based on round trip.

Installation

WARNING: Before connecting any device at the installation site, verify input voltage using a multimeter. Many power supplies and low voltage transformers operate at higher levels than listed. Any input voltage exceeding 10% of the solenoid rating may cause severe damage to the unit.
Installation wiring for the product and wiring methods shall be in accordance with the National Electrical Code, ANSI/NFPA 70.

Preparing the Strike

For 12 VAC, 12 VDC, or 16 VAC, the Plug In Connector (pigtail) marked "12 VDC" should be used; for 24VAC or 24 VDC, the pigtail marked "24 VDC" should be used.

1 SELECT the appropriate plug in connector that matches system power and electrically CONNECT as shown in Diagram 1, "12 VDC to 24 VDC Conversion."

2 IF using a Latchbolt Monitor (LBM) or Latchbolt Strike Monitor (LBSM), THEN COMPLETE wiring in accordance with Diagram 2, "Latchbolt Monitor" and Diagram 3, "Strike Monitor" (see page 3).

3 VERIFY that the strike is in the correct mode of operation.

4 IF the 4500C Series Electric Strike must be converted to Fail Safe mode, THEN CONVERT in accordance with Diagram 4, "Fail Safe Conversion" (see page 3).

Preparing the Frame

Schlage L9000 and ASSA ABLOY ACCENTRA™ 8700 *(formerly Yale Commercial)* locksets must use the template labeled "Schlage L9000 & ASSA ABLOY ACCENTRA™ 8700 Locks Only." All other locksets should use the template labeled "Cylindrical Lockset" or Mortise Lockset."

1 PREPARE the frame for lockset using appropriate cutout template, as shown (see page 4).

Finishing the Installation

1 CHOOSE the appropriate faceplate for the strike as shown in Diagram 5, "Faceplate Options" (see page 3).

2 CONNECT wires from the power source to the strike.

3 INSTALL the electric strike unit in jamb cutout, using #12-24 x 1/2" Mounting Screws provided.

4 IF horizontal adjustment is needed, THEN GO TO "Adjusting the Horizonal" section (see page 3).

Wiring

Diagram 2: Latchbolt Monitor (LBM)	
White	Common
Orange	Normally Open
Green	Normally Closed

Diagram 3: Latchbolt Strike Monitor (LBSM)	
Brown	Common
Blue	Normally Open
Yellow	Normally Closed

NOTE: The state of switch is listed for an unpowered strike and LBM in unactuated (door open) position.

Diagram 1:
12 VDC to 24 VDC Conversion

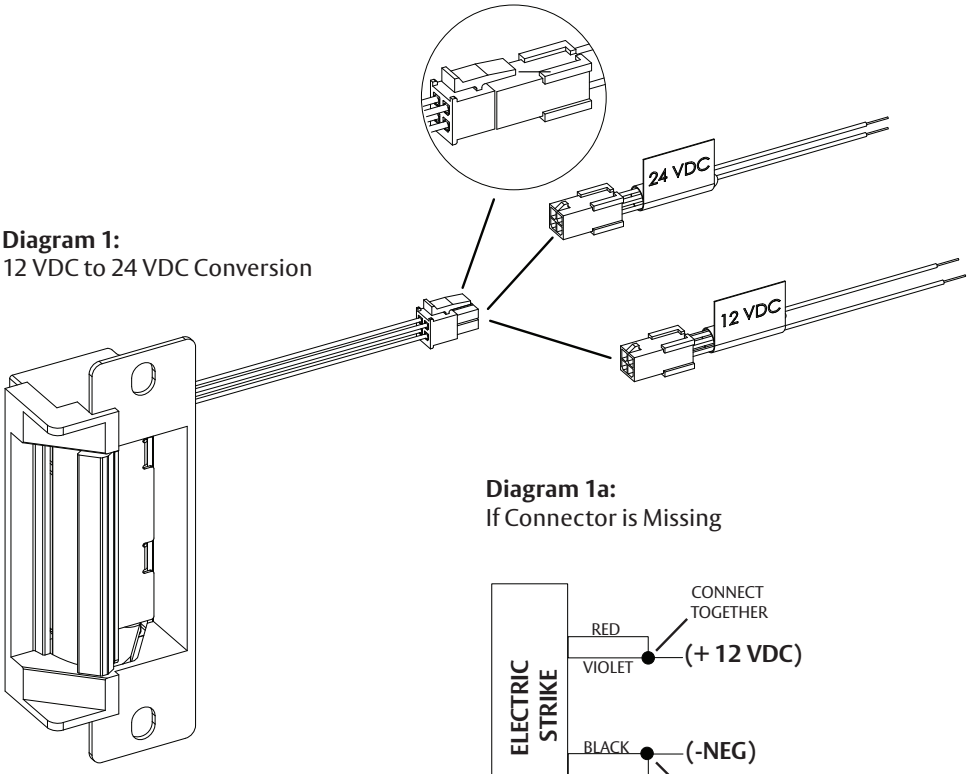
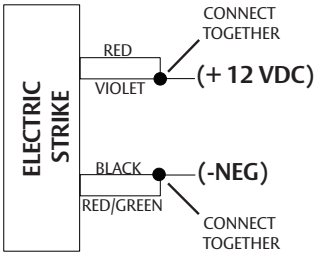
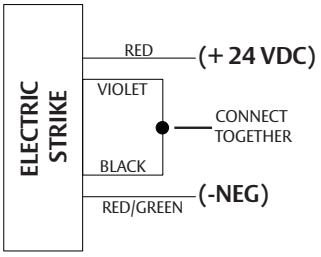


Diagram 1a:
If Connector is Missing





Converting the Operation Mode

1 REMOVE the Fire Door Safety Screw as shown in Diagram 4.

NOTE: If no Fire Safety Screw is used the electric strike WILL NOT be fire-rated.

2 LOOSEN the two #2-56 screws located on the back of the strike, but DO NOT REMOVE them.

3 MOVE screws from the bottom of the hole (Fail Secure mode position) to the top hole (Fail Safe mode position).

> **WARNING**: This unit ships in Fail Secure mode. Converting the 4500C Series Strike to Fail Safe Mode negates the unit's fire rating.

4 TIGHTEN the bottom screw first (wire side), and THEN TIGHTEN the top screw.

5 VERIFY the strike is now in the Fail Safe operation mode.

6 IF the strike still operates as Fail Secure, THEN ENSURE the screws are fully seated in the top position.

Faceplates

A non-handed offset faceplate is provided for use with mortise locksets. The mortise lock deadlatch should be depressed by the faceplate when the door is closed.

A Non-handed center-lined faceplate is provided for use with cylindrical locksets.

Adjusting the Horizontal

IF horizontal adjustment is needed, THEN ADD 1 or 2 keeper shims as shown in Diagram 6, "Horizontal Adjustment."

1 USE the #4-40 x 1/8" keeper shim screws if adding one shim; USE the #4-40 x 3/16" keeper shim screws if adding two shims.

Diagram 2:
Latchbolt Monitor

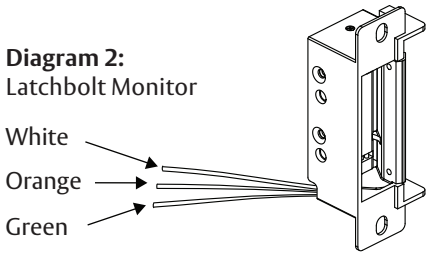


Diagram 3:
Strike Monitor

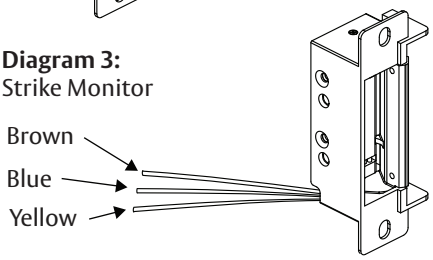


Diagram 4: Fail Safe Conversion

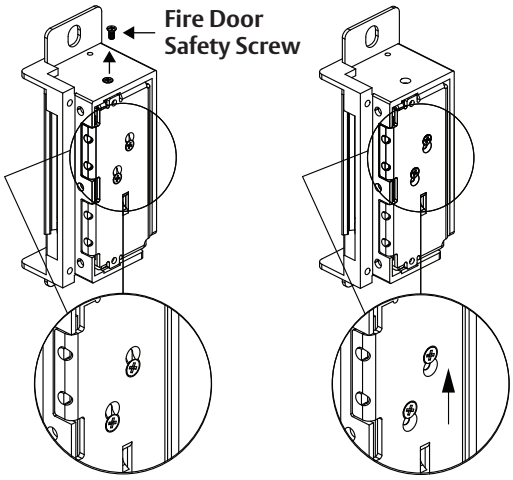


Diagram 5: Faceplate Options

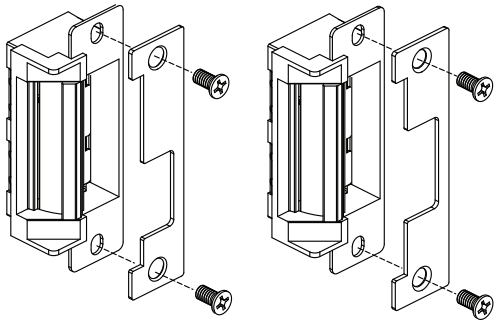
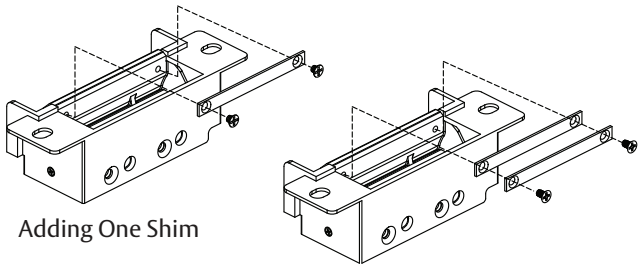


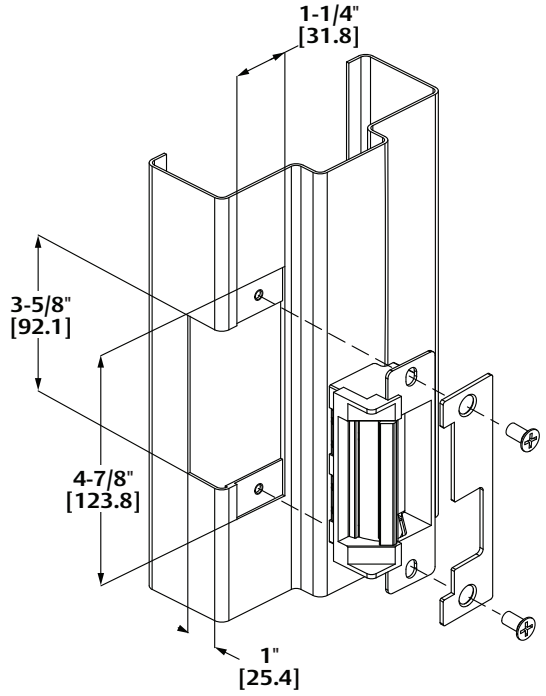
Diagram 6: Horizontal Adjustment



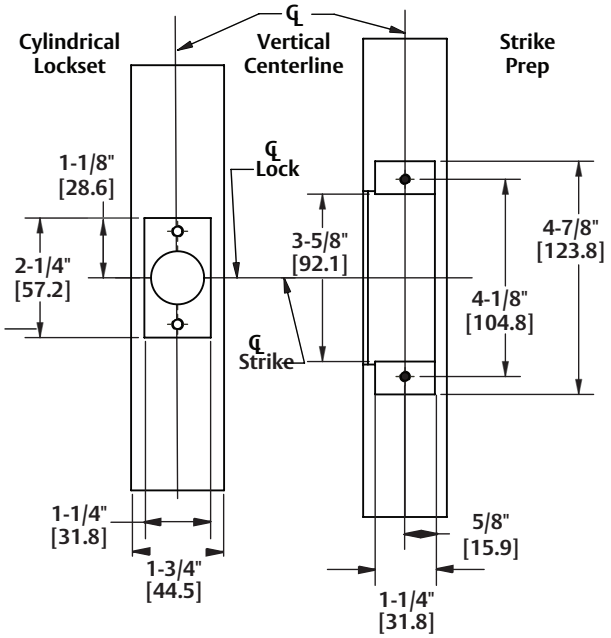
Cutout Templates

Inches [Millimeters]

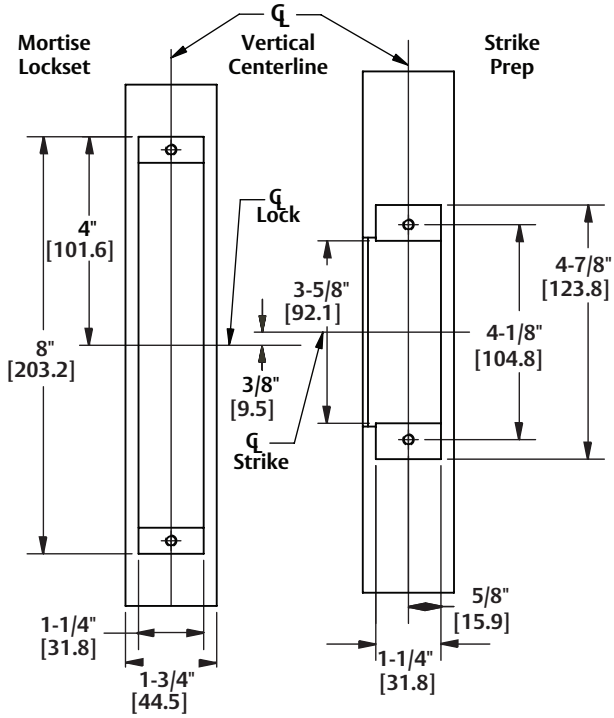
JAMB Cutout Dimensions



4500 with Cylindrical Locksets

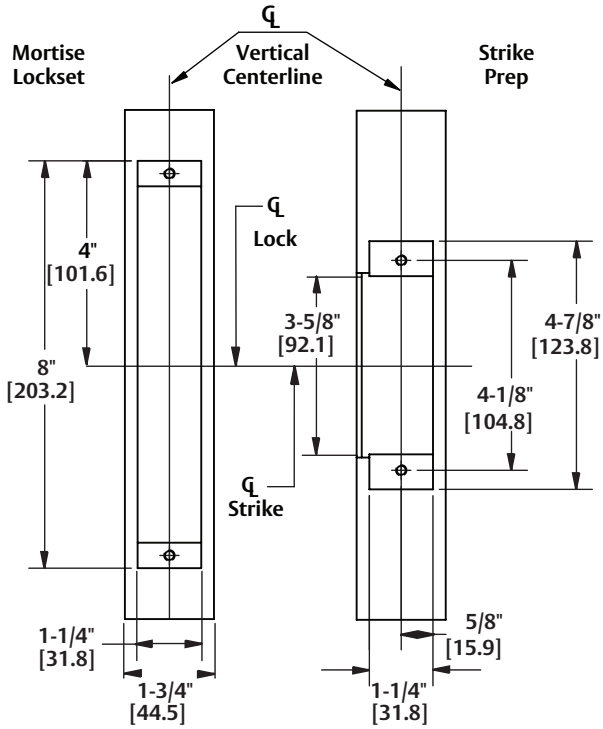


4500 with Mortise Locksets



Schlage L9000 and ASSA ABLOY ACCENTRA™* 8700 Locks ONLY

**Formerly Yale Commerical*



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