

4500C Series Electric Strike

Installation Instructions



ASSA ABLOY

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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 (#4-40 x 1/8")

Electrical Specifications

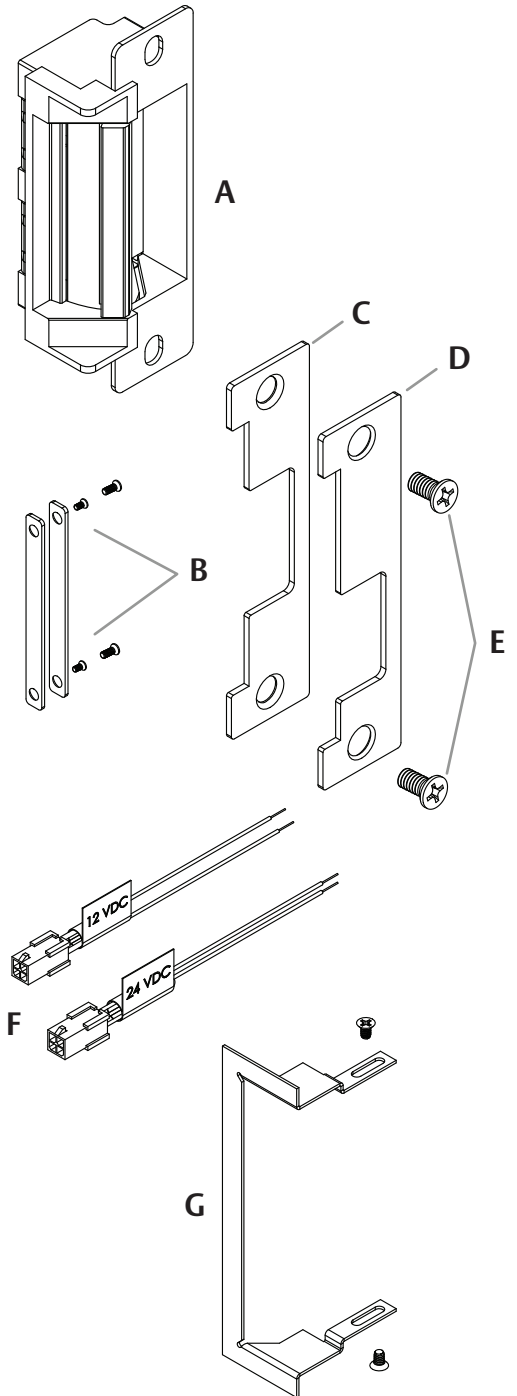
Electrical Ratings for Solenoid	Continuous Duty		Intermittent Duty*	
	12 VDC	24 VDC	12-16 VAC	24 VAC
Voltage				
Resistance in Ohms	50	200	50	200
Amps	.24	.12	.24-.32	.12

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 Gauge Requirements			
Voltage	12 VDC	24 VDC	
200 feet or less	18 gauge	20 gauge	
200-300 feet	16 gauge	18 gauge	
300-400 feet	14 gauge	16 gauge	

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

NOTE: BLACK wire is NEGATIVE (-)

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 an OPTIONAL Latchbolt Monitor (LBM) or Latchbolt Strike Monitor (LBSM), THEN COMPLETE wiring in accordance with Table 1.

NOTE: Not all strikes include an LBM or LBSM monitor switch. Verify your model number to confirm if the strike has additional monitoring capabilities.

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).

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.

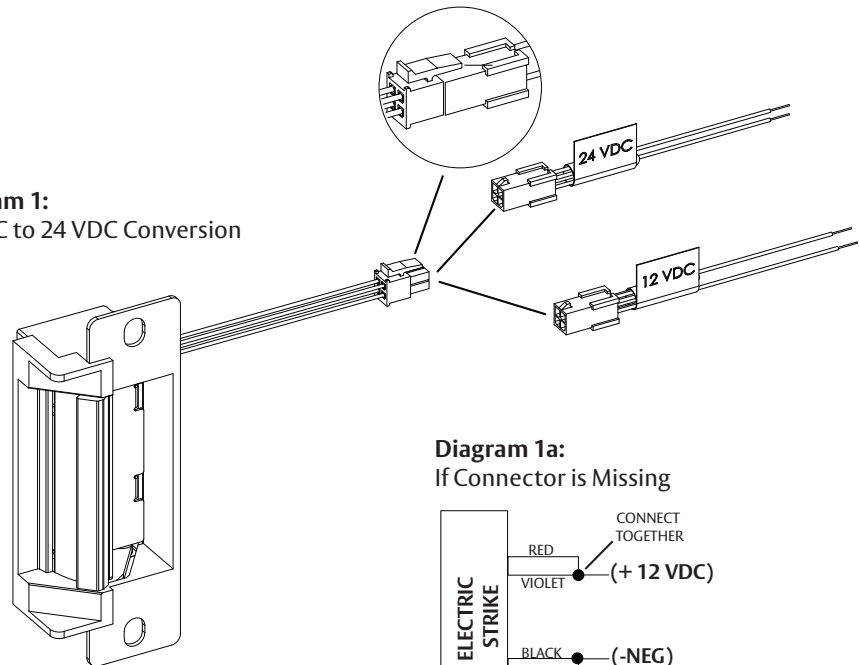
4 IF horizontal adjustment is needed, THEN GO TO "Adjusting the Horizontal" section (see page 3).

Table 1: Optional Monitoring Switches

Latchbolt Monitor (LBM)	
Contact Rating	500mA @ 30V
White	Common
Orange	Normally Closed
Green	Normally Open
Latchbolt Strike Monitor (LBSM)	
Contact Rating	500mA @ 30V
Brown	Common
Yellow	Normally Closed
Blue	Normally Open

Note: LBM switch state as shown when door is closed. LBSM switch state as shown when strike is unpowered.

Diagram 1:
12 VDC to 24 VDC Conversion

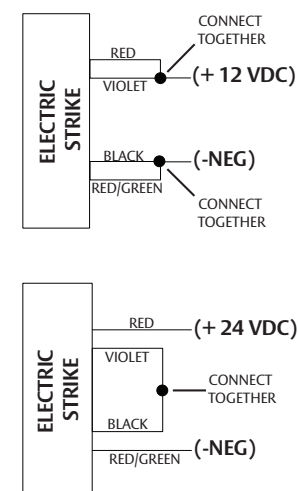


Preparing the Frame

Schlage L9000 and ASSA ABLOY ACCENTRA™ 8700 (formerly Yale Commercial) locksets must refer to the template labeled "Schlage L9000 & ASSA ABLOY ACCENTRA™ 8700 Locks Only." All other locksets should refer to the template labeled "Cylindrical Lockset" or Mortise Lockset" depending on lock type.

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

Diagram 1a:
If Connector is Missing



Installation *(continued)*

Converting the Operation Mode

- 1 REMOVE the Fire Door Safety Screw as shown in Diagram 4.
- 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 REPEAT the process, ensuring the bottom screw (wire side) is tightened FIRST, followed by the top screw. Ensure the screws are fully seated in the top position as shown in Diagram 4.

Diagram 4: Fail Safe Conversion

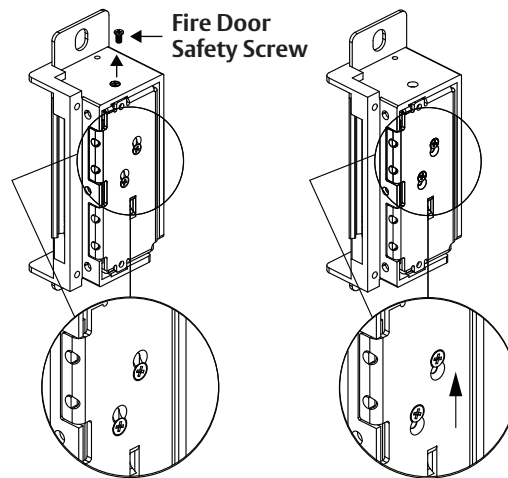
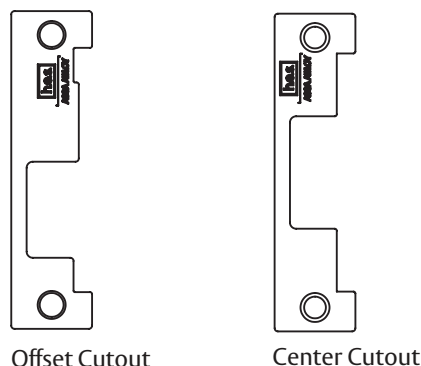


Diagram 5: Faceplate Options

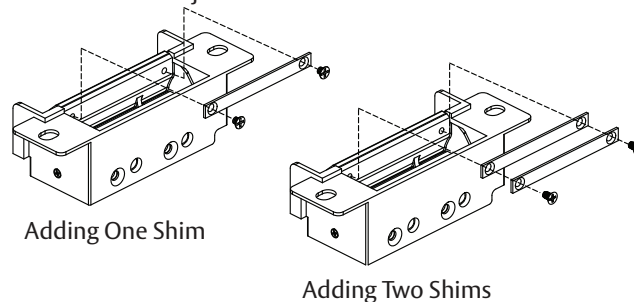


Faceplates

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.

Diagram 6: Horizontal Adjustment

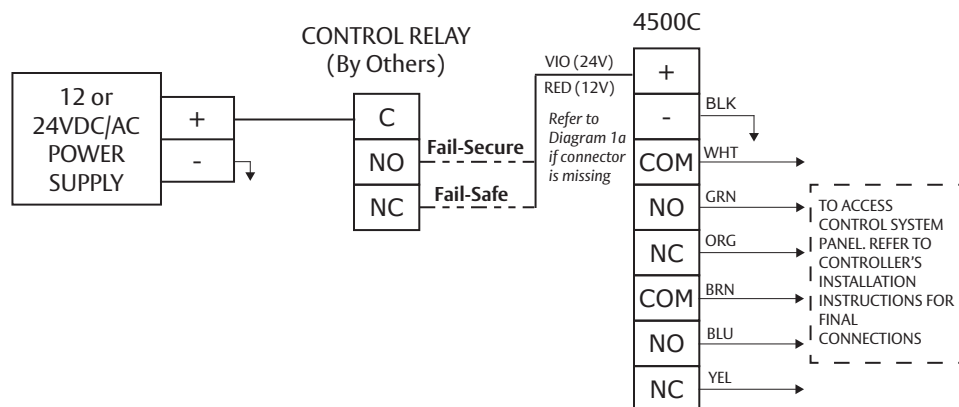


Horizontal Adjustment

IF horizontal adjustment is needed, INSTALL 1 or 2 keeper shims as shown in Diagram 6.

- 1 USE the #4-40 x 1/8" keeper shim screws if adding one (1) shim; USE the #4-40 x 3/16" keeper shim screws if adding two (2) shims.

Diagram 7: Wiring Diagram Example

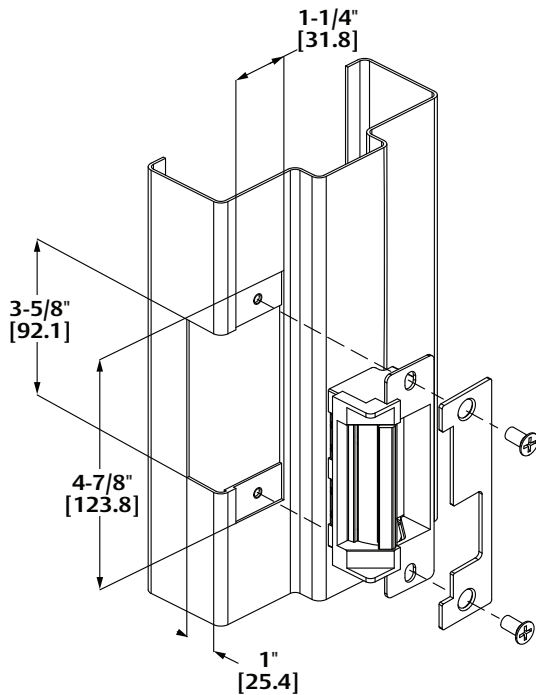


Cutout Templates

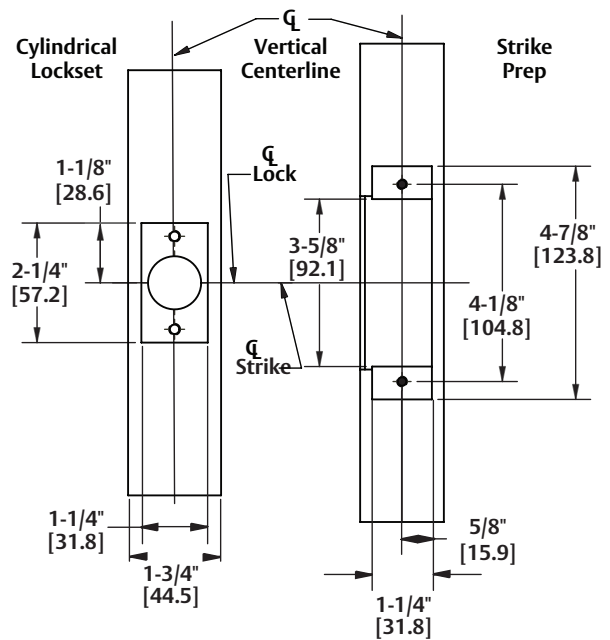
Inches [Millimeters]

NOTE: Templates can be used for single door and double door applications.

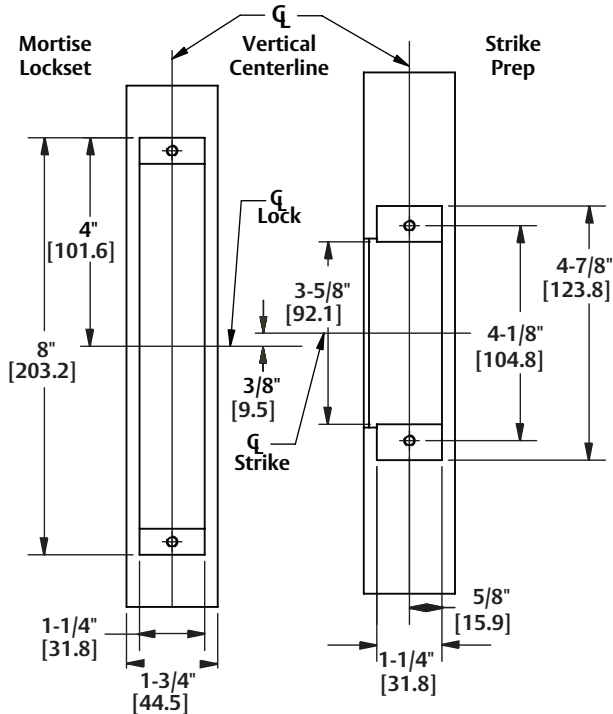
JAMB Cutout Dimensions



4500 with Cylindrical Locksets

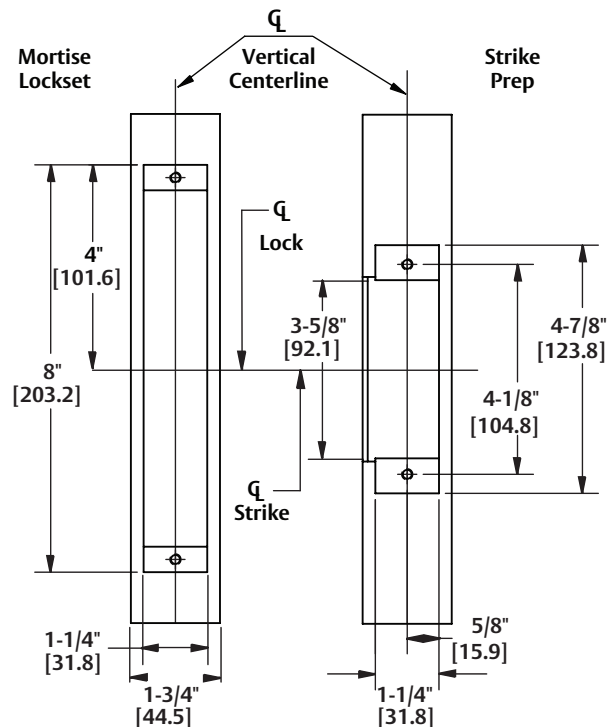


4500 with Mortise Locksets



Schlage L9000 and ASSA ABLOY ACCENTRA™* 8700 Locks ONLY

*Formerly Yale Commercial



Warranty For information on warranty coverage and replacement options, please visit hesinnovations.com/warranty



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