

5200 Series Electric Strike

Installation Instructions



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Product Components

- A** 5200 Electric Strike Body
- B** Trim Enhancer & #4-40 x 1/8" Screws (2) Part No. 5200-105
- C** 12 & 24 Volt Plug In Connectors Part No. 2007M

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 (not evaluated by UL294/UL1034).

Shall be powered by a UL 294 Class 2 Power Limited power supply or Listed Access Control units or ULC-60839-11-1: Grade 1 listed Access Control Units.

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

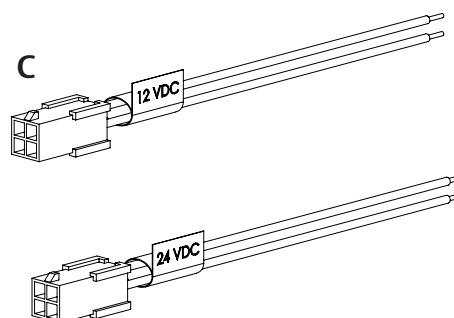
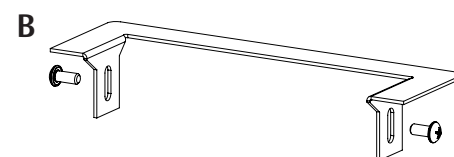
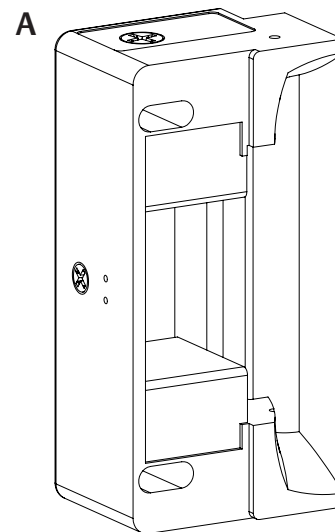
Lengths based on round trip.

UL1034 Performance Levels	
Static Strength	1,500 lbs
Dynamic Impact	70 ft-lbs
Endurance	250,000 cycles

Suitable for outdoor use.

UL60839-11-1 & UL294 Performance Levels*	
Destructive Attack	Level I (No attack test)
Line Security	Level I (No line security)
Endurance	Level IV (100,000 cycles)
Standby Power	Level I (No secondary power source)

*Monitor options were not evaluated to UL294/UL1034/
ULC-60839-11-1: Grade 1. Indoor use.



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, and Canadian Electrical Code, Part 1.

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."

NOTE: BLACK wire is NEGATIVE (-).

- 2 IF using a Latchbolt Monitor (LBM) or Latchbolt Strike Monitor (LBSM), THEN COMPLETE wiring in accordance with **Table 1**.
- 3 VERIFY that the strike is in the correct mode of operation (Fail Secure or Fail Safe).
- 4 IF the 5200 Series Electric Strike must be converted to Fail Safe mode, THEN GO TO "Converting the Operation Mode" section (see page 3).

Preparing the Frame

- 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 (see page 4).
- 2 CONNECT wires from the power source to the strike.
- 3 INSTALL the electric strike unit in jamb cutout, using 2X #12-24 x 1/2" Mounting Screws provided with the faceplate (sold separately).

NOTE: The 5200C Complete Pac will include the 501 and 501A faceplate and hardware in a complete one box solution.

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

Table 1: Optional Monitoring Switches

Latchbolt Monitor (LBM)	
Contact Rating	500mA @ 30V
White	Common
Orange	Normally Open
Green	Normally Closed

Latchbolt Strike Monitor (LBSM)	
Contact Rating	500mA @ 30V
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

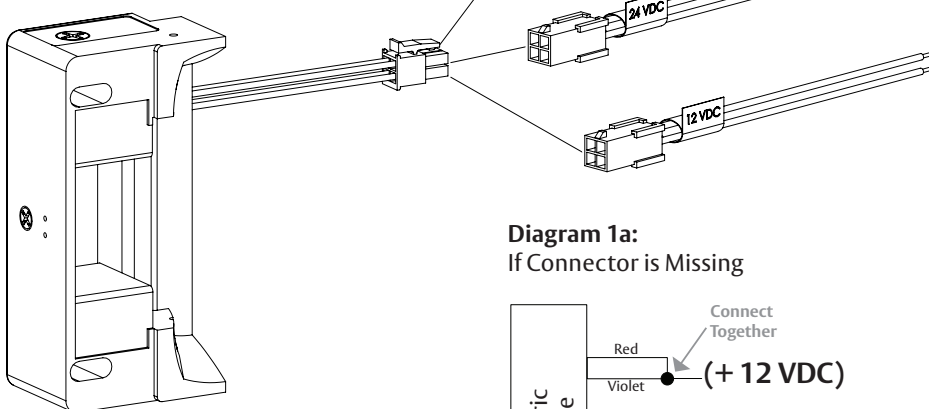
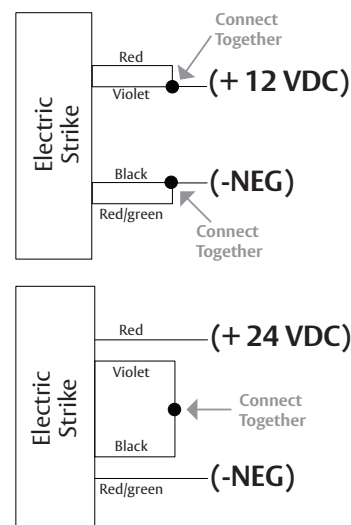


Diagram 1a:
If Connector is Missing



Converting the Operation Mode

This unit ships in Fail Secure mode. To convert to Fail Safe mode, perform the following instructions.

- 1 LOOSEN the two #2-56 screws located on the back of the strike, but DO NOT REMOVE them.
- 2 MOVE screws from the bottom of the hole (Fail Secure mode position) to the top of the hole (Fail Safe mode position). **Diagram 3.**
- 3 TIGHTEN the bottom screw first, and THEN TIGHTEN the top screw (wire side).
- 4 VERIFY the strike is now in the Fail Safe operation mode.
- 5 IF the strike still operates as Fail Secure, THEN ENSURE the screws are fully seated in the top position.

Adjusting the Horizontal Position

This unit can be adjusted horizontally - up to 3/16" away from or towards the door stop - after installed to achieve the desired operation.

- 1 LOOSEN the horizontal adjustment screws slightly, as shown in **Diagram 4.**
- 2 DO NOT REMOVE the screws or ROTATE them more than 3 full turns.
- 3 TIGHTEN the screws securely once the strike has been adjusted to allow the K-Nut teeth to dig into the strike housing and prevent slippage during use.

Diagram 2:
Wiring Diagram Example

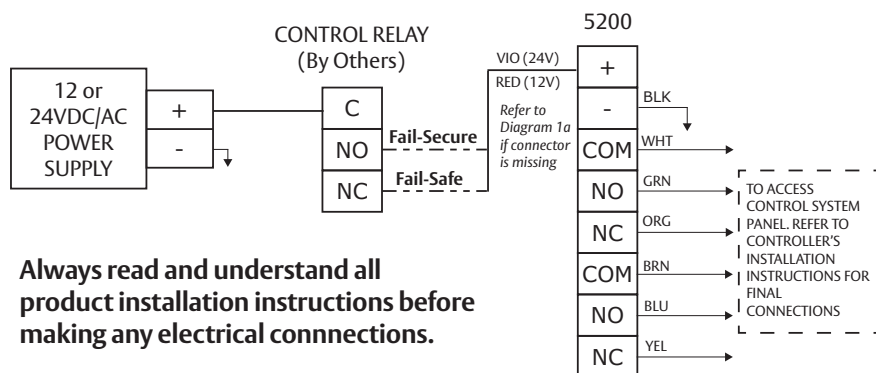


Diagram 3: Fail Safe Conversion

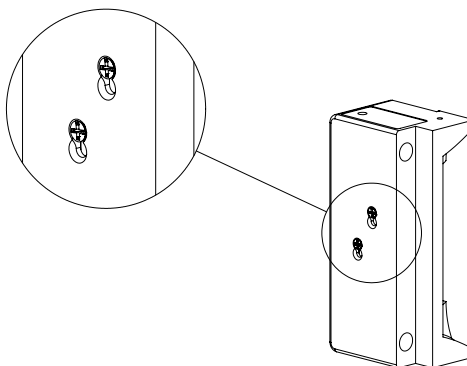
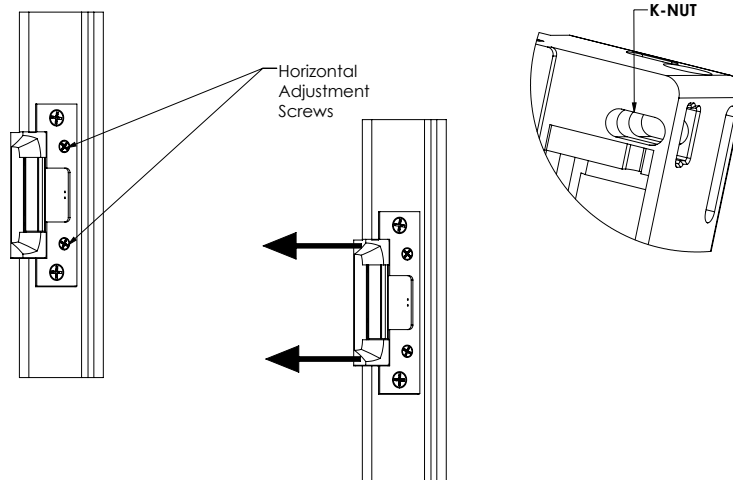


Diagram 4: Horizontal Adjustment



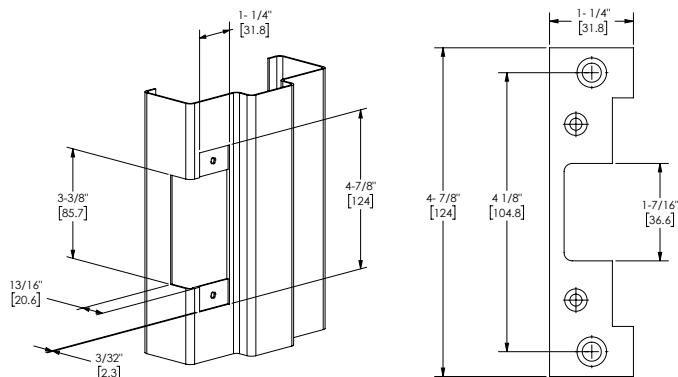
Cutout Templates for Frame Preparation

Inches [Millimeters]

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

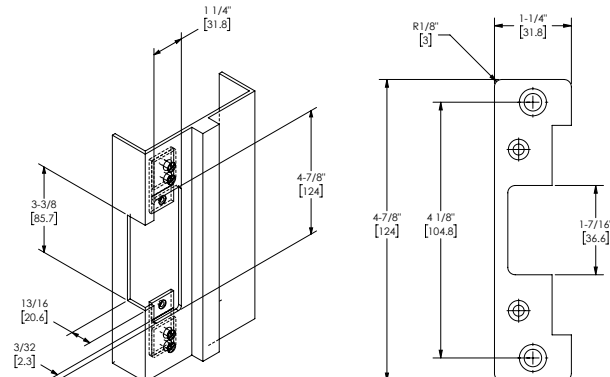
501 Faceplate Option

(4-7/8" x 1-1/4"), Square Corners and Flat Faceplate; Used with cylindrical locksets in ANSI metal jambs.



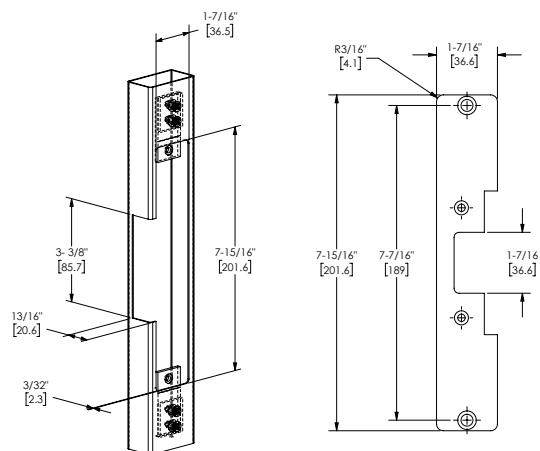
501A Faceplate Option

(4-7/8" x 1-1/4"), Radius Corners and Flat Faceplate; Used with cylindrical locksets or spring latches in aluminum frames.



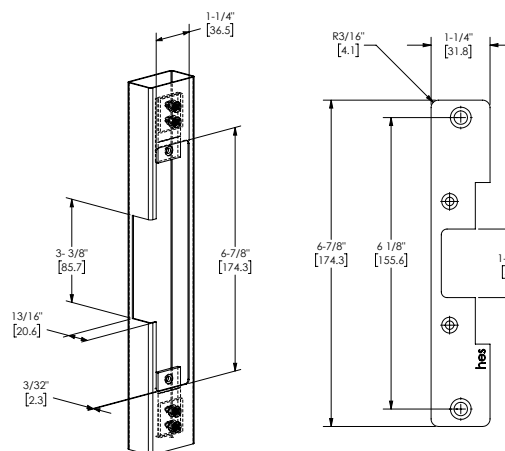
502 Faceplate Option

(7-15/16" x 1-7/16"), Radius Corners and Flat Faceplate; Used with cylindrical locksets or spring latches in aluminum frames.



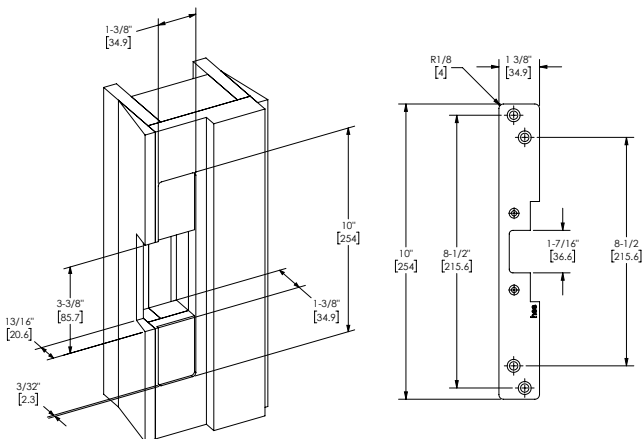
503 Faceplate Option

(6-7/8" x 1-1/4"), Radius Corners and Flat Faceplate; Used with cylindrical locksets or spring latches in aluminum frames.



504 Faceplate Option

(10" x 1-3/8"), Radius Corners and Flat Faceplate; Used with cylindrical locksets; four-point mounting for wood installations.



Width of Pocket Opening

Faceplate: 1-3/8" (34.9 mm)

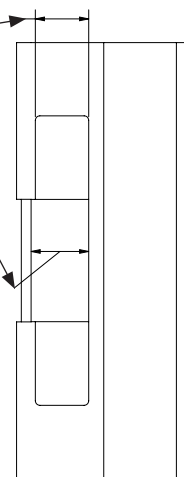
CAUTION:

Do not break through wood frame.

5200 Electric Strike Opening:

1-1/2" (38.1 mm) when no horizontal adjustment is needed. **The 5200 has an in-frame horizontal adjustment range of about 1/4" (6.4 mm) to adjust the electric strike in the opening to accommodate for the horizontal position of the latchbolt after the strike has been installed.

NOTE: Extra material may have to be removed in the opening, as necessary, for proper wood door installation.



Warranty For information on warranty coverage and replacement options, please visit [hesinnovations.com/warranty](https://www.hesinnovations.com/warranty)



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