5200 Series
Electric Strike

Installation Instructions

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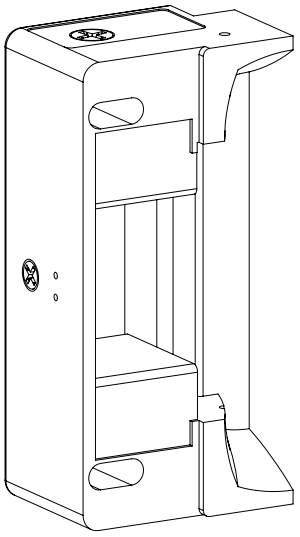
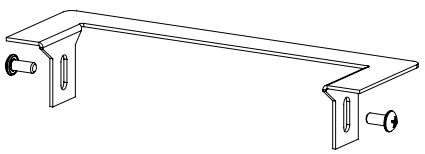
Product Components

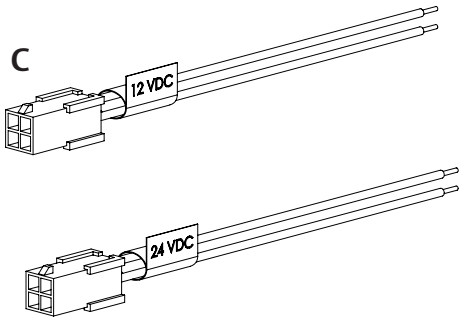
A 5200 Electric Strike Body

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

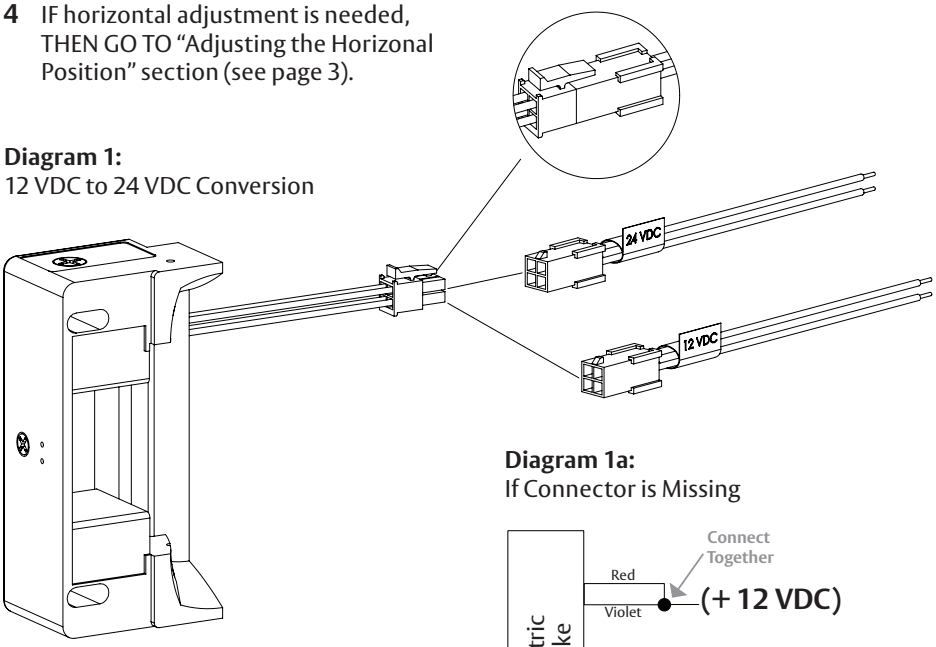
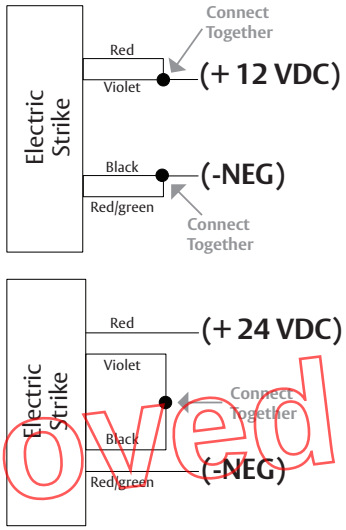


Diagram 1a:
If Connector is Missing



Converting the Operation Mode

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

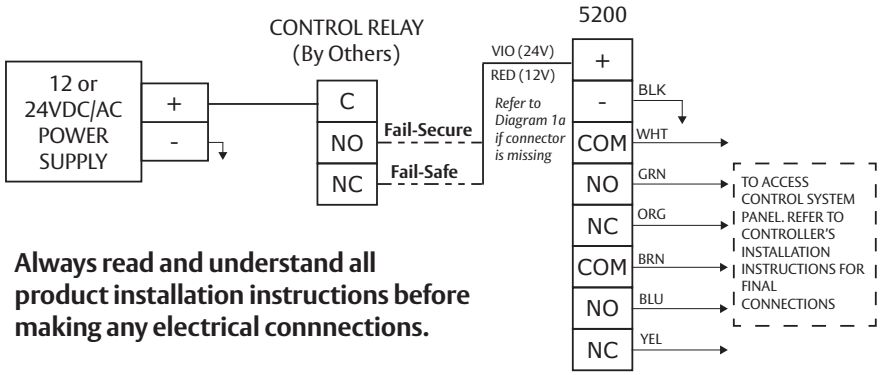
1. LOOSEN the two #2-56 screws located on the back of the strike, but DO NOT REMOVE them.
2. MOVE screws from the bottom of the hole (Fail Secure mode position) to the top of the hole (Fail Safe mode position). **Diagram 3**.
3. TIGHTEN the bottom screw first, and THEN TIGHTEN the top screw (wire side).
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



Always read and understand all product installation instructions before making any electrical connnections.

Diagram 3: Fail Safe Conversion

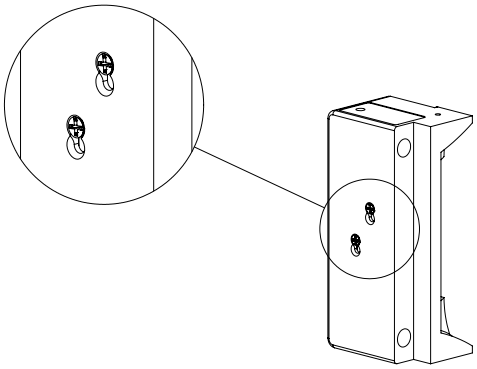
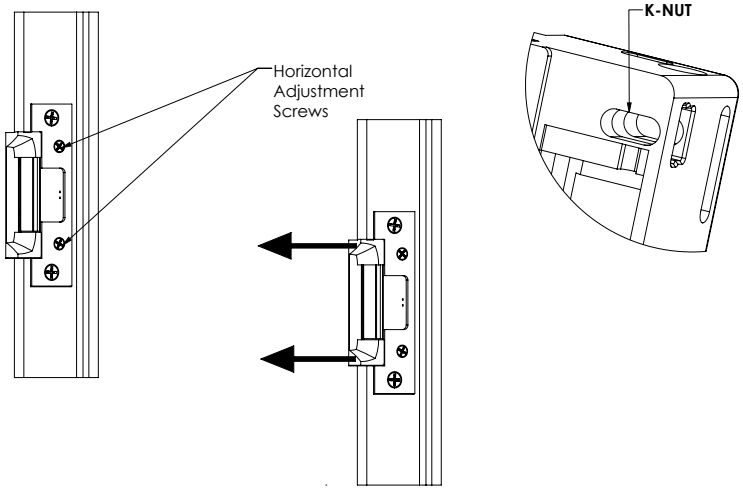


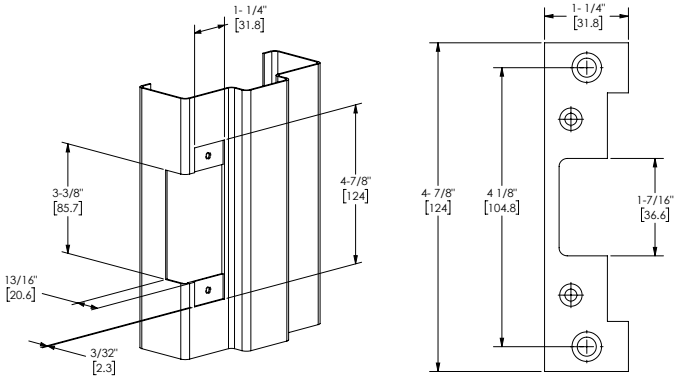
Diagram 4: Horizontal Adjustment



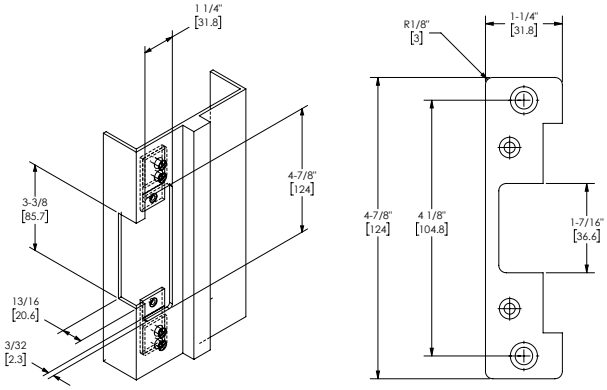
Cutout Templates for Frame Preparation

Inches [Millimeters] ***NOTE:*** *Templates can be used for single door and double door applications.*

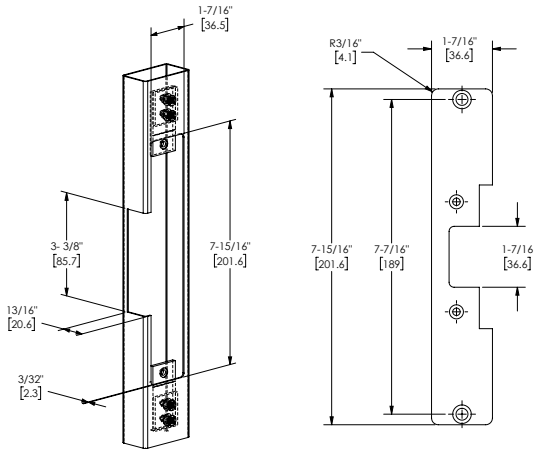
501 Faceplate Option
(4-7/8" x 1-1/4"), Square Corners and Flat Faceplate;
Used with cylindrical locksets in ANSI metal jambs.



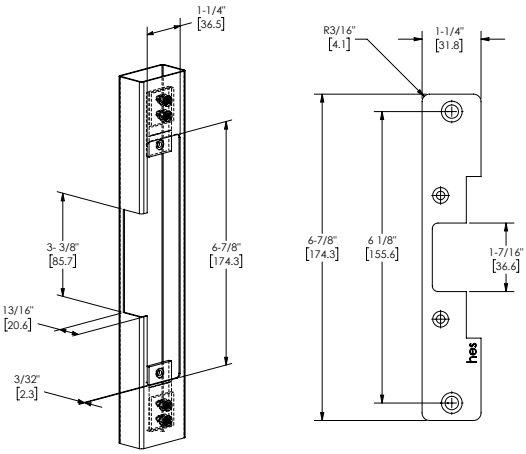
501A Faceplate Option
(4-7/8" x 1-1/4"), Radius Corners and Flat Faceplate; Used with cylindrical locksets or spring latches in aluminum frames.



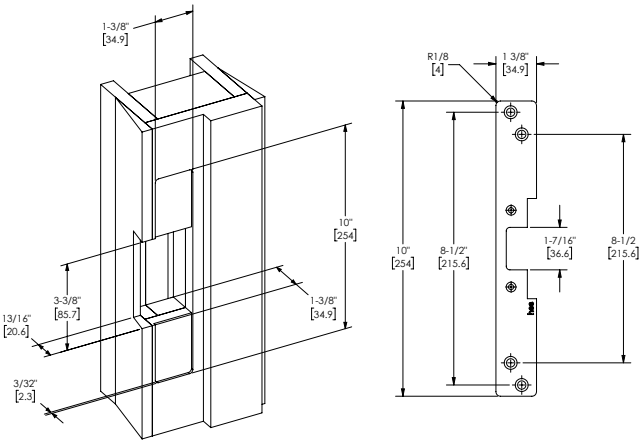
502 Faceplate Option
(7-15/16" x 1-7/16"), Radius Corners and Flat Faceplate; Used with cylindrical locksets or spring latches in aluminum frames.



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.



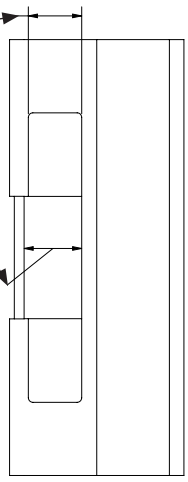
Width of Pocket Opening

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

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