

8500 Series Electric Strike

Installation Instructions



ASSA ABLOY

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Product Components

- A 8500 Series Electric Strike Body
- B Horizontal Lockdown Shims
- C #4-40 Screws (2)
- D 12 & 24 Volt Plug In Connectors

Electrical Specifications

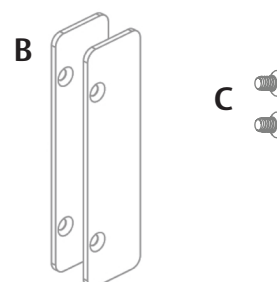
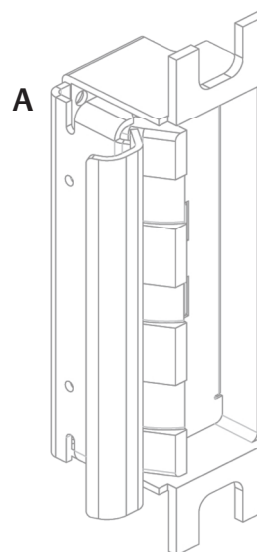
Electrical Ratings for Solenoid	Continuous Duty		Intermittent Duty*	
Voltage	12 VDC	24 VDC	12-16 VAC	24 VAC
Resistance in Ohms	50	200	50	200
Amps	.24	.12	.24-.32	.12

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

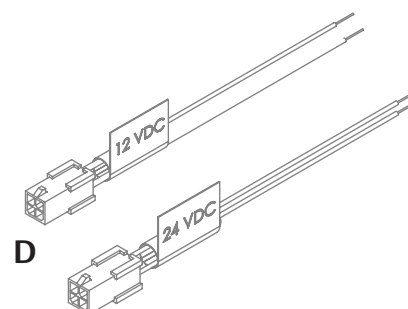
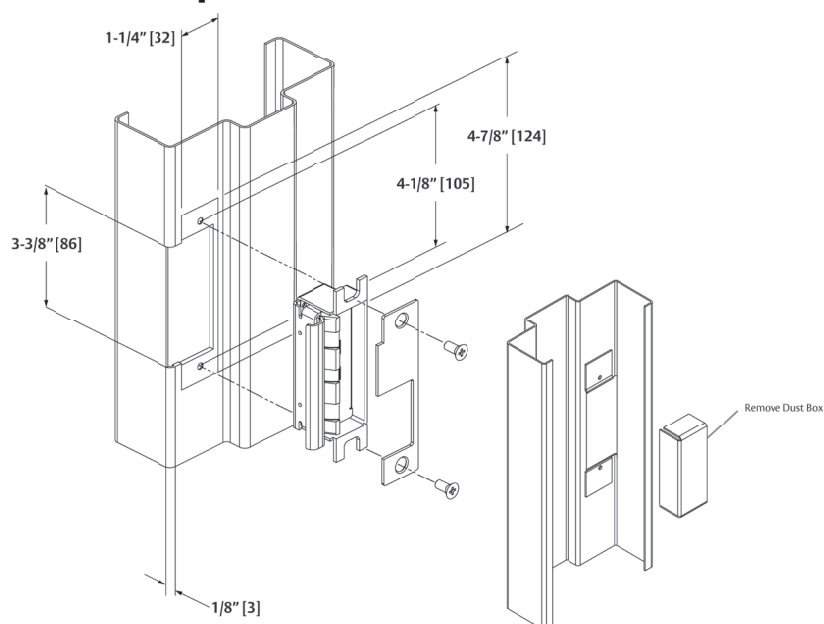
For inductive kickback protection, consider using with the HES 2005M3 SMART Pac® III or 2001M Plug-in Bridge Rectifier with built-in MOV.

Minimum Wire 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.



Frame Preparation



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.

Evaluate Opening

Verify opening is plumb and square and evaluate latch bolt condition. Reference Appendix for important details and "Troubleshooting Tips".

Preparing the Frame

The 8500 is designed to drop into the existing 4-7/8" frame preparation and requires minimal preparatory work. Remove dustbox if necessary to make room for the electric strike body. Be sure to allow enough room behind the electric strike in the cutout to avoid pinching the wires.

Preparing & Installing 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**.
- 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.
- 4 IF the 8500 Series Electric Strike must be converted to Fail Safe mode, THEN CONVERT in accordance with **Diagram 2** (see page 3).

Installing the Deadlatch Platform

- 1 SELECT correct option. Refer to page 4 for the appropriate option kit based on lockset brand and model number. **Do NOT attempt to use the 8500 series with brands and model numbers not listed.**
- 2 INSERT deadlatch platform into the keeper slot as shown in **Diagram 3** (see page 3) ensuring that the screw holes in the deadlatch platform foot and outer casing are aligned. It may be necessary to slightly retract the keeper in order to properly seat the deadlatch platform fastening foot.
- 3 FASTEN the deadlatch platform to the electric strike using the #4-40 screw provided.
- 4 SELECT deadlatch platform style and mounting position as detailed in **Diagram 3** (see page 3).
- 5 INSTALL deadlatch platform as detailed in **Diagram 4** (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.

Installing the Shims

- 1 INSTALL horizontal lockdown shims (if needed) as shown in **Diagram 5** (see page 3).

Diagram 1:
12 VDC to 24 VDC Conversion

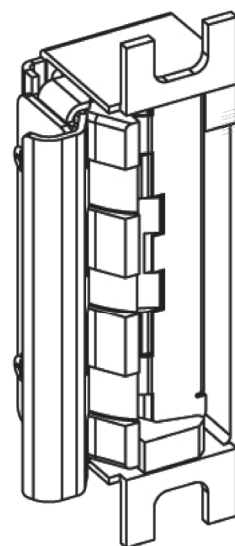
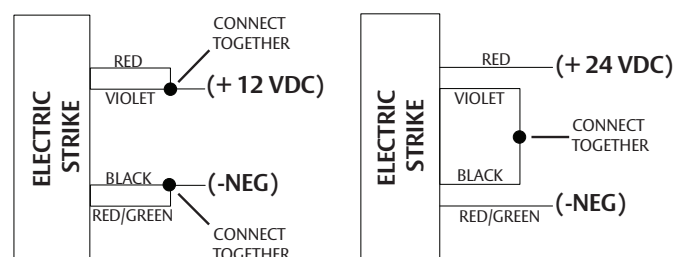


Diagram 1a:
If Connector is Missing



Converting the Operation Mode

- 1 REMOVE and discard the fire screw (Located under the UL fire label).
- 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 8500 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 Discard the UL Label that's located over the screw, as well as the UL label located inside the strike pocket.
- 6 VERIFY the strike is now in the Fail Safe operation mode.
- 7 IF the strike still operates as Fail Secure, THEN ENSURE the screws are fully seated in the top position.

NOTE: If you are using LBSM and you want to convert to Fail Safe mode, follow Steps 1, 2 and 3. Then move the switch to the Fail Safe position as shown in **Diagram 2**.

Adjusting the Horizontal

- 1 OPEN the door. Pull the electric strike flush with the inside face of the frame (in the direction of the opening), and tighten screws.
- 2 CLOSE the door. If excessive movement (door play) when latched, remove strike from the jamb cutout, and add one or two of the horizontal lockdown shims to the front face of the electric strike as shown in **Diagram 5**.
- 3 ENSURE the horizontal lockdown shim is making contact with the inside face of the frame. Check again and add or remove additional shims until proper horizontal adjustment is achieved.

NOTE: The gap between the door and the frame at the strike plate varies. Verify latchbolt guarding with door closed.

Diagram 2: Fail Safe Conversion

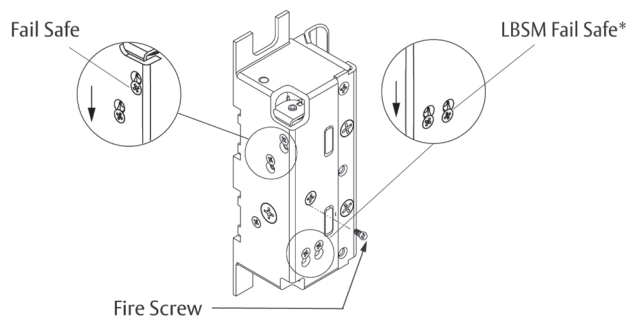
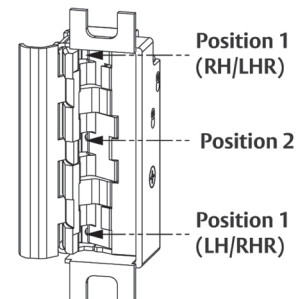


Diagram 4: Deadlatch Platform Installation



Strike shown in LH/RHR position

Diagram 3: Deadlatch Platform Position

Lockset	Platform Style	Platform Position
Sargent 8100, 8200, 9200; ASSA ABLOY ACCENTRA™ 8800 (formerly Yale Commercial), Accurate, Falcon, Kaba Ilco/Unican	M	
Corbin Russwin ML 2000	K	
ASSA ABLOY ACCENTRA™ 8700 (formerly Yale Commercial)	M	
Schlage L9000	L	

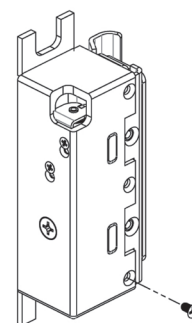
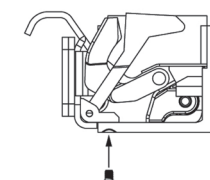
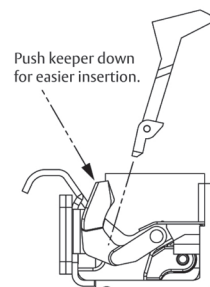
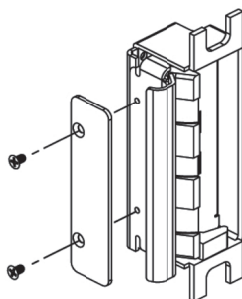


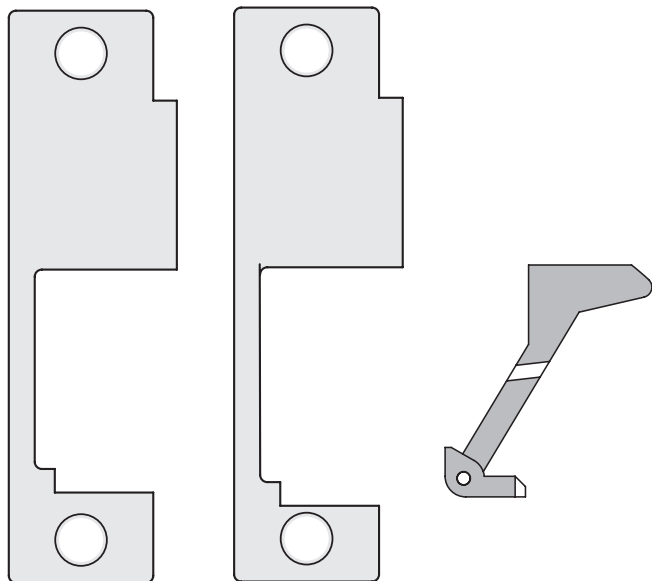
Diagram 5: Horizontal Lockdown Shim Installation
1 Shim = 1/16" (1.6mm)
2 Shims = 1/8" (3.2mm)



8500 Options

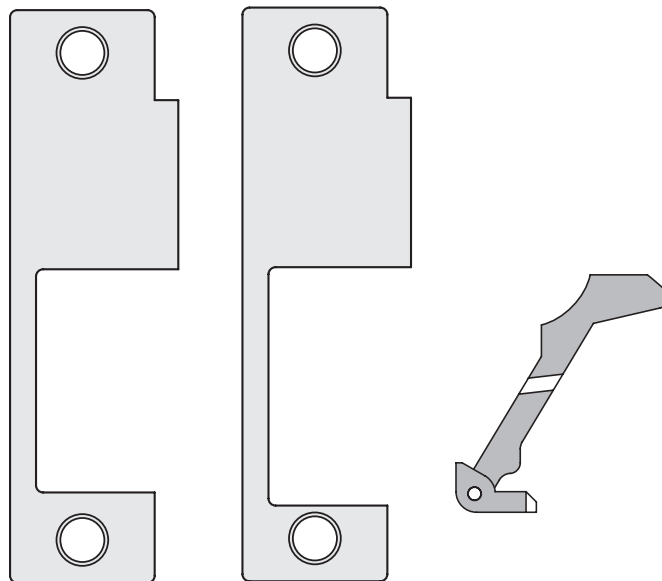
851M

Compatible with mortise locksets:
Sargent (8100, 8200, 9200)



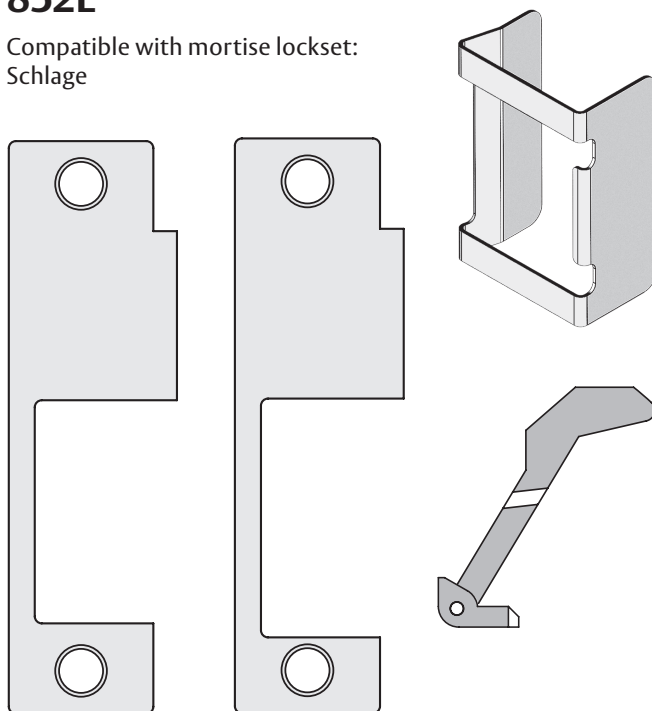
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Compatible with mortise lockset:
Corbin Russwin (ML 2000)



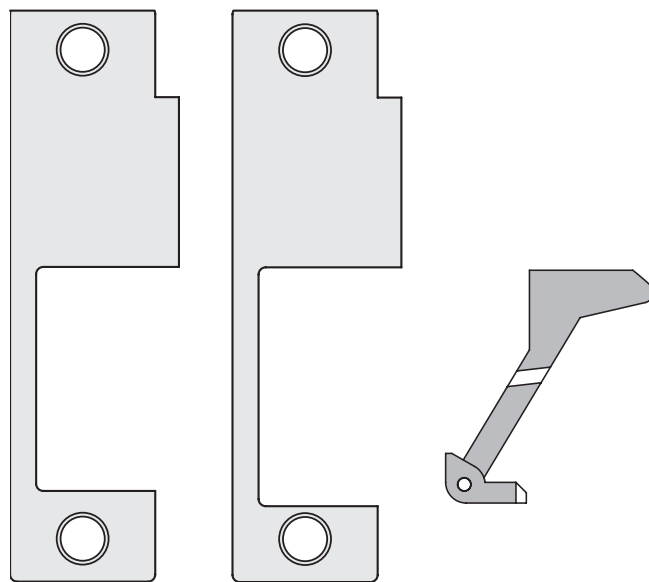
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Compatible with mortise lockset:
Schlage



852M

Compatible with mortise lockset: ASSA ABLOY
ACCENTRA™ 8700 & 8800 (formerly Yale Commercial)
Accurate, Falcon, Kaba Ilco/Unican



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



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8500 Install Instructions Appendix



WARNING: In order to ensure proper catch and release of the latchbolt, the 8500 electric strike requires that the opening be plumb and square .

Important Troubleshooting Tips

Door sag and latchbolt wear are two common conditions that may prevent an electric strike from working properly. Here are some quick tips to ensure the HES 8500 performs at its best:

Evaluating Latch Bolt Condition

Poorly constructed, worn or damaged latchbolts may not interact properly with the ramp of an electric strike. Check the condition of your latchbolt by lightly pressing the tip of the latchbolt at a 45 degree angle to the door face (See Figure 1). The latchbolt should be pushed easily into the door.

If abnormal resistance is encountered, apply a lubricant to the inside of the latchbolt opening while pressing the latchbolt (See Figure 2). If this does not correct the friction, additional maintenance on the latchbolt may be required.

NOTE: Check with the latchbolt manufacturer regarding proper latchbolt maintenance and approved lubricants.

Accommodating Door Sag

Most doors experience some sagging over time. To check for door sag, look at the location of the lock's deadlatch in relation to the 8500's deadlatch platform. The deadlatch should rest on the deadlatch platform. If the deadlatch contacts the faceplate or the edge of the 8500's body, the latchbolt may not be fully released when the strike is activated causing the door not to be released.

To correct this condition, remove the 8500 and cut material from the bottom edge of the frame opening and possibly the mounting tabs (See Figure 3).

NOTE: Note: make sure to sure to retain the mounting hole). This allows the 8500 to be shifted down slightly in the frame. Reinstall the 8500, using the SD faceplate instead of the standard faceplate.

If this does not correct the issue, additional maintenance on the door may be necessary.

Strike Lubrication

Lubrication of the 8500 electric strike is not necessary.

Strike Operation

When the electric strike receives power, the deadlatch platform and the strike keeper should release. If the deadlatch platform does not release when powered, verify the location and installation of the platform. The screws should be securely holding the platform in place. If the screws are loose, the deadlatch platform may not release properly.

Compatibility

The 8500 is compatible with the following :

- ASSA ABLOY ACCENTRA™ 8700 & 8800 (formerly Yale Commercial)
- Accurate
- Falcon
- Kaba Ilco/Unican
- Corbin Russwin ML 2000
- Sargent 8100, 8200, 9200
- Schlage L9000

Use the faceplate kit appropriate for the brand and model of your lockset. **Do not attempt to use the 8500 with brands and model numbers not listed.**

Figure 1:
Apply Force to Latch Bolt

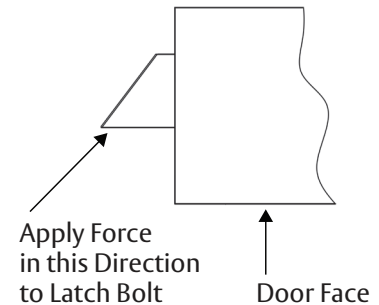


Figure 2:
Lubricate Latch Bolt as Required

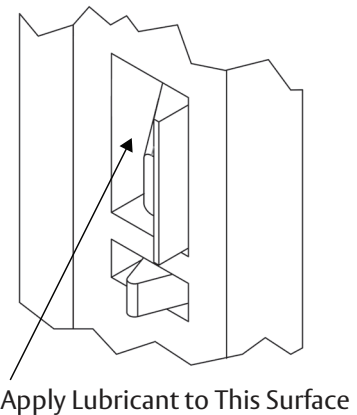
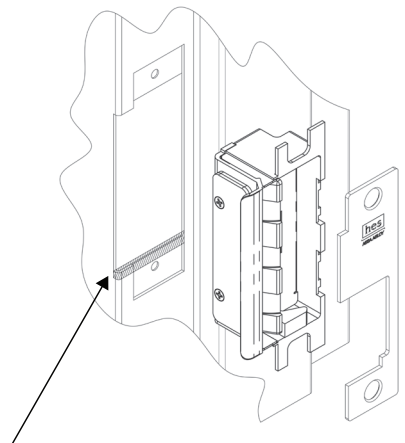


Figure 3:
Door Sag Adjustment



If Latch Bolt does not clear faceplate, remove material as shown and install SD faceplate.