HES® 9800 | Adams Rite® 7800 Electric Strike

ASSA ABLOY

Installation Instructions and Frame Preparation

The global leader in door opening solutions

Product Components

A HES 9800 | Adams Rite 7800 Strike Body

B HES 9800 | Adams Rite 7800 Cover

C 1/4"-20 x 1" Mounting Screws

D #10-32 & 10-24 Lockdown Screws (optional)

E #6-32 x 1/4" Cover Screws

F 5/64" Hex Key

G 12-Volt and 24-Volt Pigtails

H 1/8" and 1/16" Spacers

Electrical Specifications

Electrical Ratings for Solenoid		
Voltage	12 VDC	24 VDC
Resistance in Ohms	24	96
mA Continuous Duty	450	250

Solenoids are rated at +/- 10% indicated value.

Minimum Wire Gauge Requirements *(Based on Round Trip)*	Solenoid Voltage	
	12 VDC	24 VDC
200 feet or less	18 gauge	22 gauge
200 – 300 feet	16 gauge	22 gauge
300 – 400 feet	16 gauge	20 gauge

UL1034

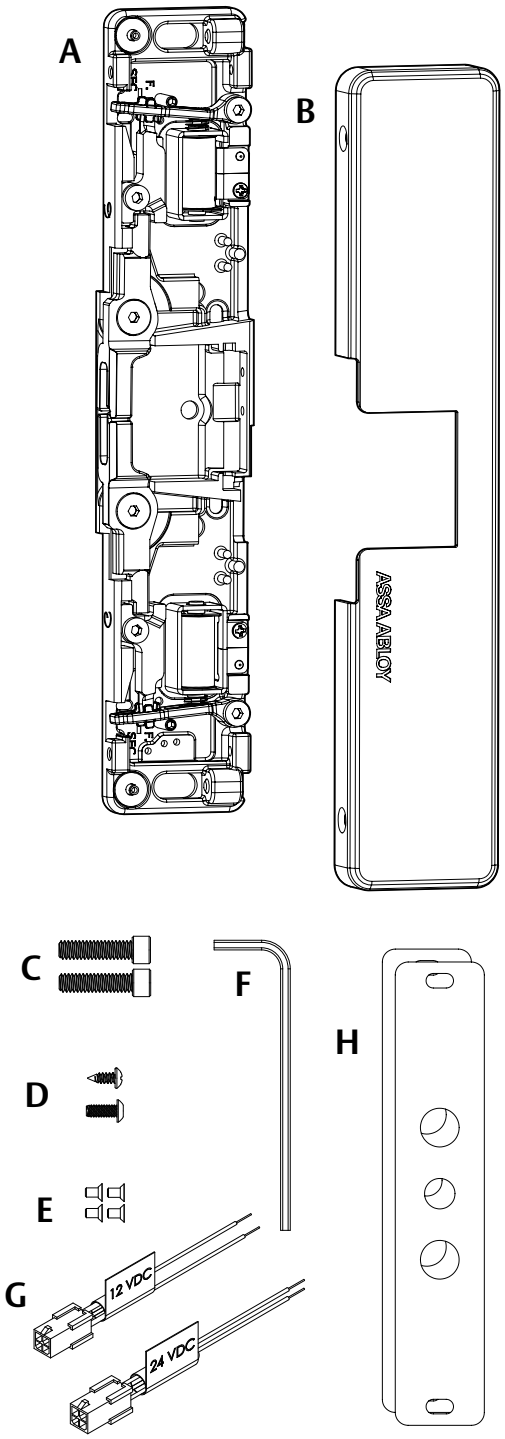
- Static Strength: 1500 lbs
- Dynamic Strength: 70 ft – lbs
- Endurance: 250,000 cycles

UL294 Performance Levels

- Destructive Attack: Level I
- Line Security: Level I
- Endurance: Level IV
- Standby Power: Level I

NOTE: Installation wiring for the product and wiring methods shall be in accordance with the National Electrical Code, ANSI/NFPA70

Diagram 1: Product Components



⚠ CAUTION ⚠ 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 and will void the warranty.

Preparing the Strike

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

- SELECT the appropriate pigtail that matches system power and electrically CONNECT as illustrated in Diagram 1.
- IF no connector is present, THEN CONFIGURE the wires as shown in Diagram 2.
- IF using the Latchbolt Monitor (LBM) or Latchbolt Strike Monitor (LBSM), THEN REFER to Diagrams 5 and 6 to complete wiring (see page 3).

Diagram 1: 12V to 24V Conversion

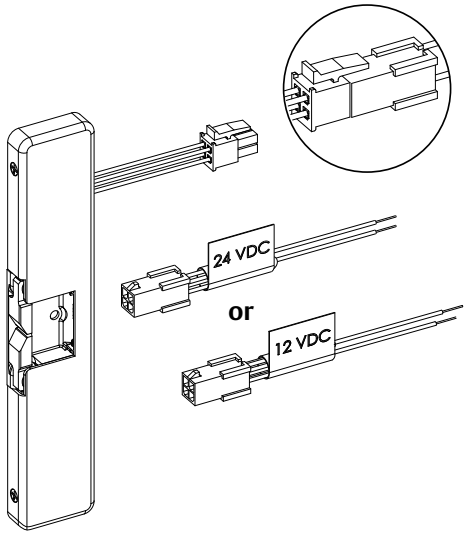
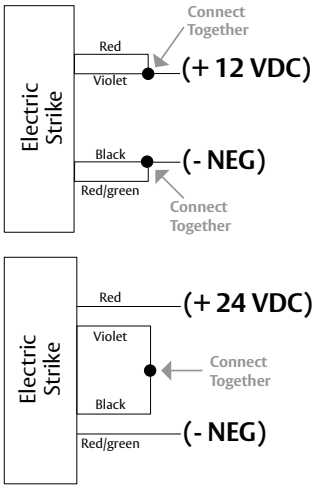


Diagram 2: If Connector Is Missing

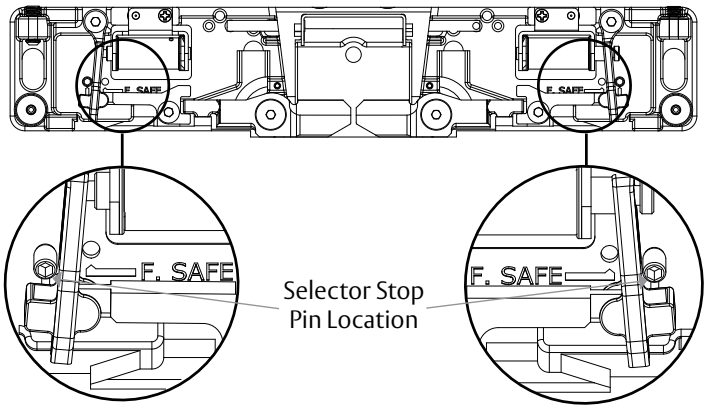


Verifying the Operation Mode

The HES 9800 | Adams Rite 7800 Electric Strike is pre-set for FAIL SECURE OPERATION as shown in Diagram 3.

- VERIFY that both keepers are in FAIL SECURE OPERATION.

Diagram 3: Fail Secure Operation



Converting the Operation Mode

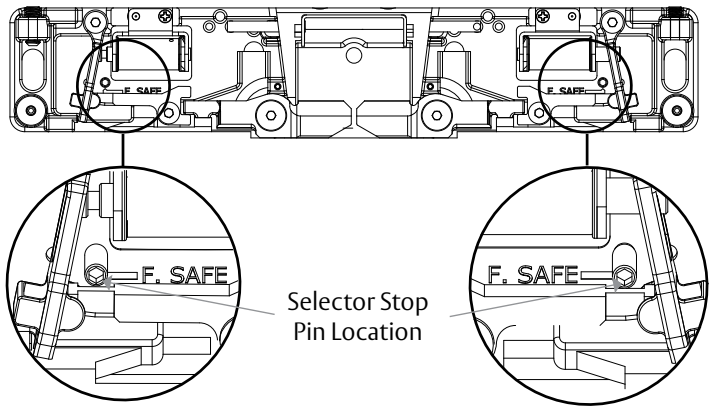
There are two Selector Stop Pins, one on the left side and one on the right side. Both Selector Stop Pins must be repositioned (as shown in Diagram 4) to convert the strike to FAIL SAFE OPERATION.

IN FAIL SAFE OPERATION: Both keepers should be unlocked without power but locked when power is applied.

- To convert to FAIL SAFE OPERATION, REMOVE the Selector Stop Pins on each side of the strike body using the provided 5/64" hex key.
- MOVE the Selector Stop Pins to the FAIL SAFE OPERATION position (towards the center of the strike) as shown in Diagram 4.
- TIGHTEN both Selector Stop Pins after they have been moved to the FAIL SAFE OPERATION position using the 5/64" hex key.

FAIL SAFE OPERATION mode should not be used in fire rated or windstorm-resistant applications.

Diagram 4: Fail Safe Operation



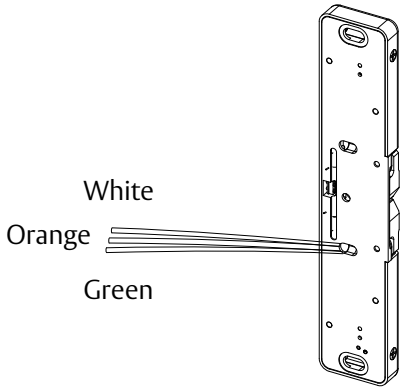
Preparing the Frame

When mounting on an aluminum frame, with a blade stop, an HES 9000-ASB (sold separately) is necessary to provide a secure installation. The HES 9000-ASB is shown installed in Diagrams 8 and 9.

- IDENTIFY and MARK the latchbolt centerline on the frame.
- Using the dimensions provided on page 4, MARK all appropriate holes. If using a HES 9000-ASB, reference the installation instructions provided with that product. NOTE: This may require the exit device to shift horizontally towards the hinge side of the door to compensate for the HES 9000-ASB.
- PUNCH, DRILL and TAP the marked holes as required.

Diagram 5
Latchbolt Monitor

White	Common
Orange	Normally Open
Green	Normally Closed

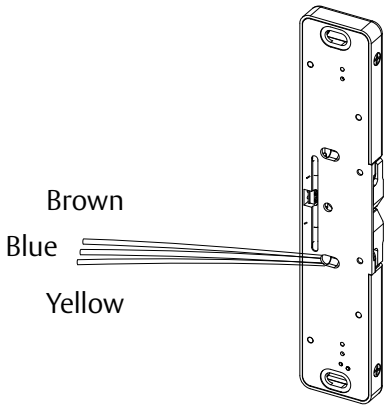


Finishing the Installation

- ELECTRICALLY CONNECT the HES 9800 | Adams Rite 7800 to the Plug In Connector, and ATTACH the electric strike to the jamb using the 1/4"-20 x 1" mounting screws provided.
- CHECK the starwheel interaction with the keepers to ensure proper engagement and clearance. The starwheel's latchguard needs to be centered within the keepers as seen in Diagram 7. If horizontal adjustment is needed, use one or both of the spacers to provide latch guard/keeper clearance. Additional spacers can be ordered separately.

Diagram 6
Latchbolt Strike Monitor

Brown	Common
Blue	Normally Open
Yellow	Normally Closed



Adjusting Horizontal and Lockdown

- TIGHTEN the two 1/4"-20 x 1" mounting screws.
- SECURE the adjustment by tightening the set screws. Shown in Diagram 8 on page 4.
- OPTIONAL LOCKDOWN FEATURE: INSTALL the #10-24 UNC or 10-32 UNF lockdown screw if additional security is required; however, REMOVE the strike before drilling hole. If using a HES 9000-ASB it will require drilling and tapping of the lockdown hole.
- INSTALL the cover plate, and SECURE in place using the #6-32 x 1/4" Cover Screws as illustrated in Diagram 9 on page 4.

Diagram 7: Starwheel & Keeper Cross-section

Latchguard should be centered between the keepers.

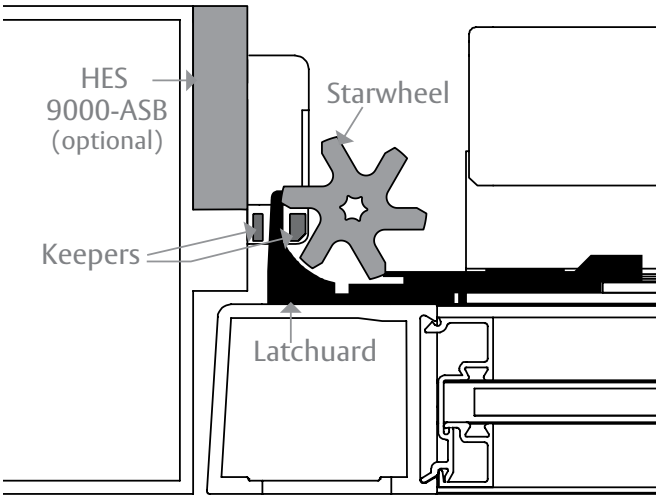


Diagram 8

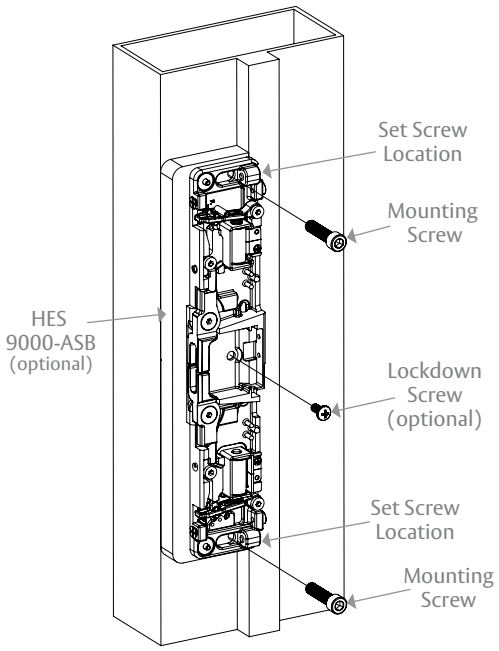
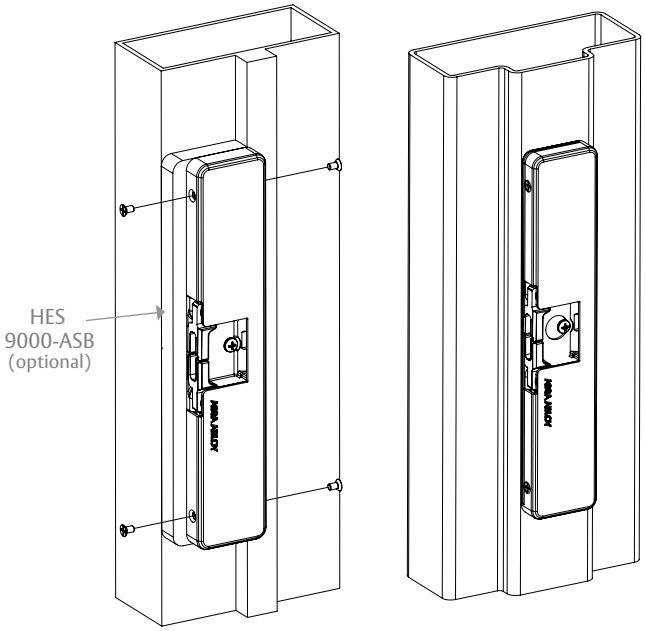


Diagram 9

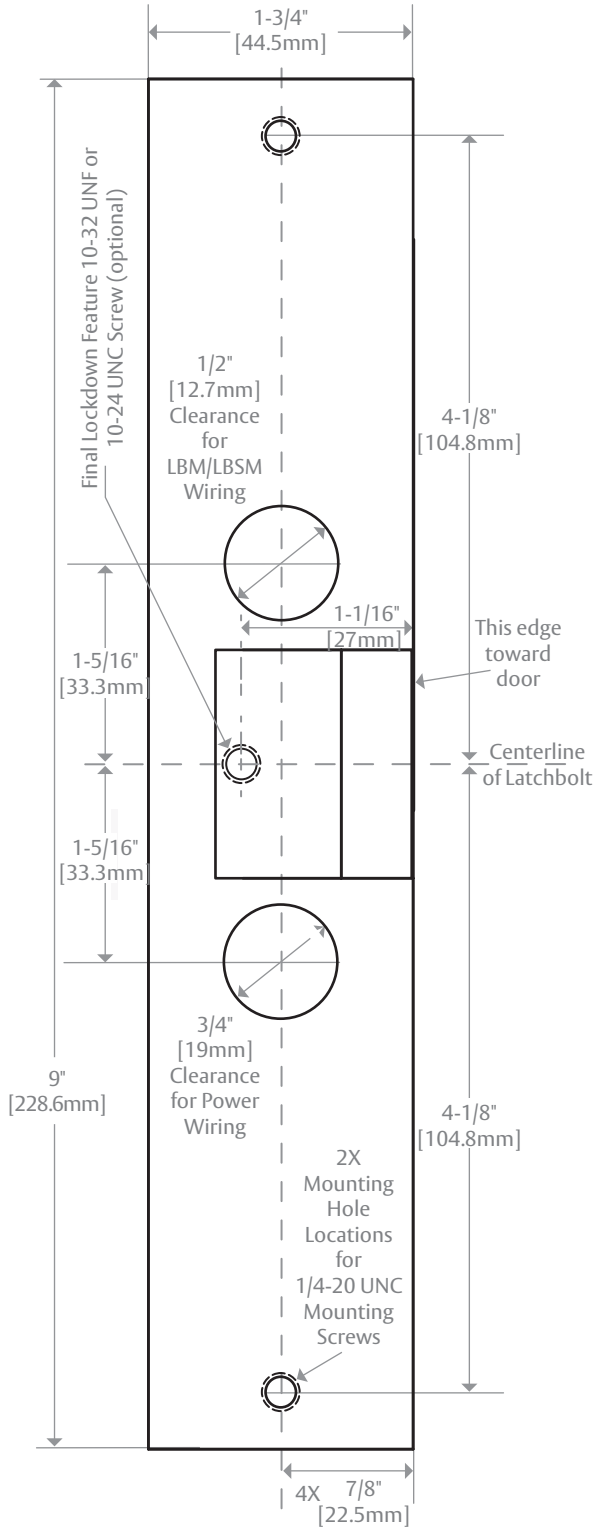


Mounted on Aluminum Frame with HES 9000-ASB

Mounted on Hollow Metal Frame

Dimensions

NOTE: May not be to scale. For easy installation, the HES 9000-MTK should be ordered.



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