

# 9400 | 9500 | 9600 | 9700 | 9800

## Electric Strike



**ASSA ABLOY**

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### Installation Instructions & Frame Preparation

## Product Components

- A** 9400 | 9500 | 9600 | 9700 | 9800  
Electric Strike Body
- B** 9400 | 9500 | 9600 | 9700 | 9800  
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 & 24 Volt Plug In Connectors

## Electrical Specifications

Electrical Ratings for Solenoid	Continuous Duty	
Voltage	12 VDC	24 VDC
Resistance in Ohms	24	96
mA Continuous Duty	500	250

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

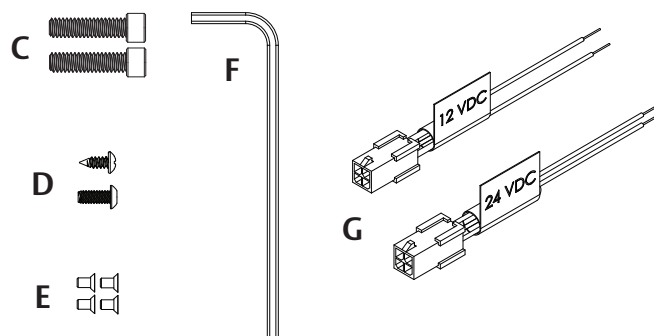
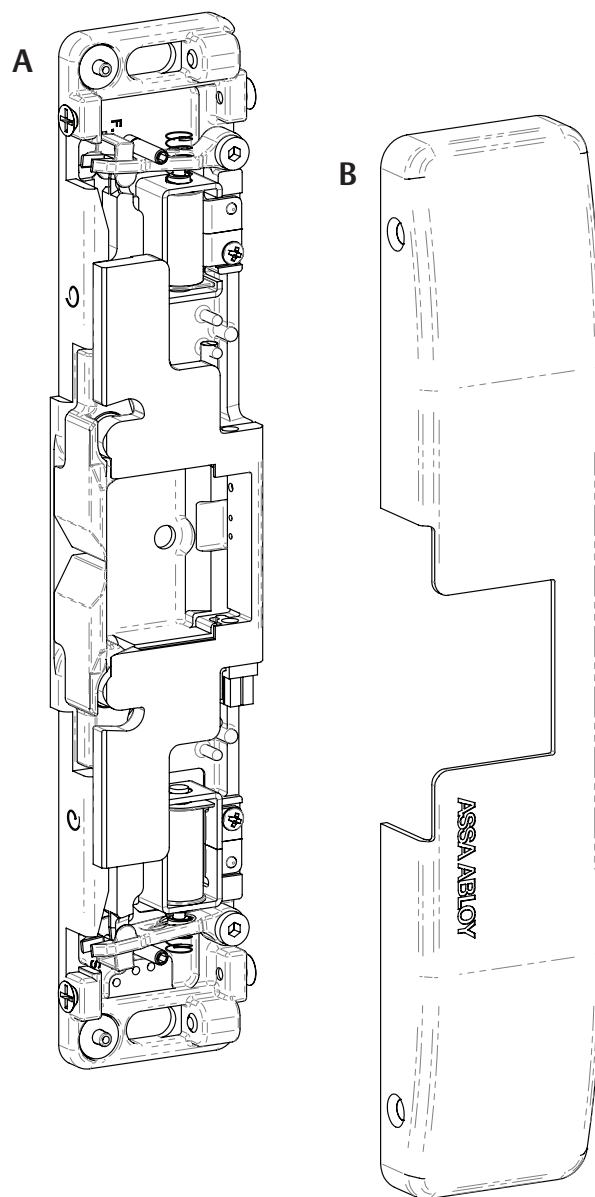
Minimum Wire Gauge Requirements	Continuous Duty	
Voltage	12 VDC	24 VDC
200 feet or less	18 guage	22 guage
200-300 feet	16 guage	22 guage
300-400 feet	16 guage	20 guage

*Lengths based on round trip.*

9400   9500   9600   9700   9800 Series UL1034 Rating	
Static Strength	1,500 lbs
Dynamic Impact	70 ft-lbs
Endurance	250,000 cycles

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 by UL294/UL1034/ULC60839-11-1*



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

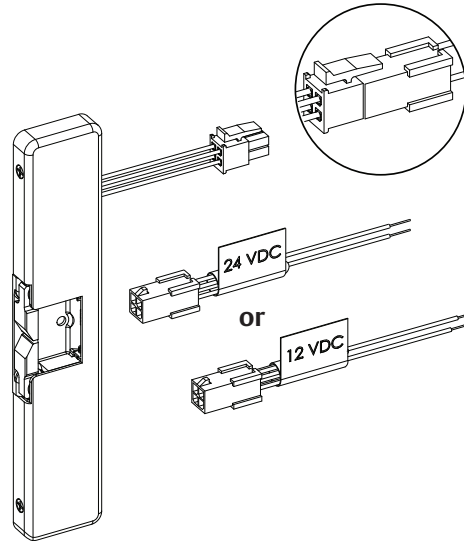
- 1 SELECT the appropriate plug in connector that matches system power and electrically CONNECT as shown in Diagram 1.
- 2 IF no connector is present, THEN CONFIGURE the wires as shown in Diagram 2.
- 3 IF using a Latchbolt Monitor (LBM) or Latchbolt Strike Monitor (LBSM), THEN REFER to Diagrams 6 and 7 (see page 3).



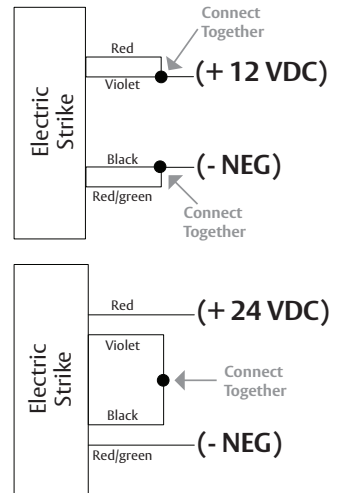
**WARNING:** This unit ships in Fail Secure mode. Converting the 9400 | 9500 | 9600 | 9700 Series Strike to Fail Safe Mode negates the unit's fire rating.

- 4 VERIFY that both keepers are in FAIL SECURE OPERATION as shown in Diagram 3.
- 5 IF the Electric Strike must be converted to Fail Safe mode, THEN CONVERT in accordance with Diagram 4.

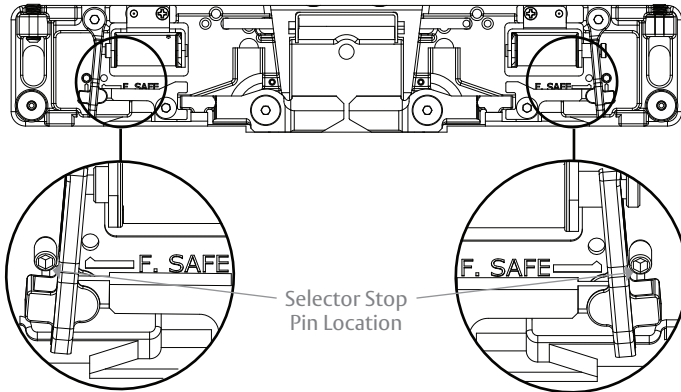
**Diagram 1:**  
12 VDC to 24 VDC Conversion



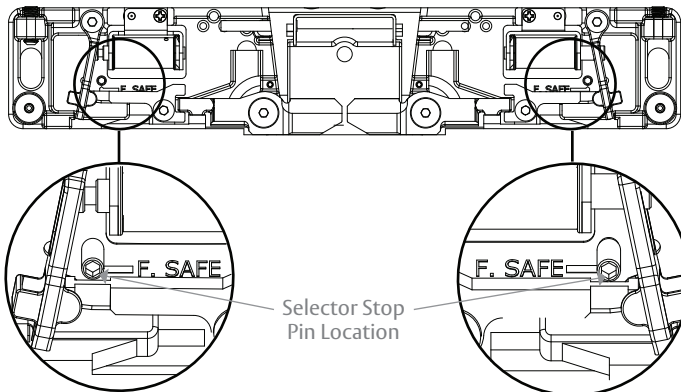
**Diagram 2:**  
If Connector Is Missing



**Diagram 3:** Fail Secure Operation



**Diagram 4:** Fail Safe 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 to convert the strike to FAIL SAFE OPERATION as shown in Diagram 4.

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

- 1 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.
- 2 MOVE the Selector Stop Pins to the FAIL SAFE OPERATION position (towards the center of the strike) as shown in Diagram 4.
- 3 TIGHTEN both Selector Stop Pins after they have been moved to the FAIL SAFE OPERATION position using the 5/64" hex key. When converting LBSM from fail secure to fail safe, be sure to move the monitoring switch position shown in Diagram 5.



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

## Preparing the Frame

**NOTE:** When using a Corbin Russwin 5000 Series or ASSA ABLOY ACCENTRA™ 7000 Series (formerly Yale Commercial) equipped with an offset deadlatch, the deadlatch is located just above the vertical alignment line as shown in the dimensions (see page 4).

- 1 IDENTIFY and MARK the latchbolt centerline on the frame.
- 2 USING the dimensions provided (see page 4), MARK all appropriate holes. If using a HES 9000-ASB\*, reference the installation instructions provided with that product.

**NOTE:** In retrofit applications this may require the exit device to shift horizontally towards the hinge side of the door to compensate for the HES 9000-ASB.

- 3 PUNCH, DRILL and TAP the marked holes as required.

**NOTE:** 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 Diagram 10 (see page 4).

## Wiring

**Diagram 6: Latchbolt Monitor (LBM)**

White	Common
Orange	Normally Open
Green	Normally Closed

**Diagram 7: Latchbolt Strike Monitor (LBSM)**

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.

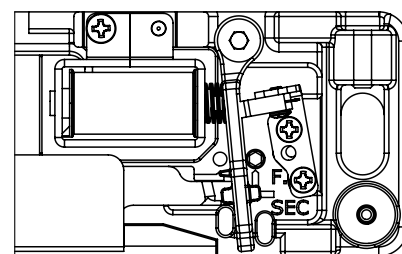
## Finishing the Installation

- 1 ELECTRICALLY CONNECT the HES 9400/9500/9600/9700/9800 to the Plug In Connector, and ATTACH the electric strike to the jamb using the 1/4"-20 x 1" mounting screws provided.
- 2 CHECK the latchbolt interaction with the keepers to ensure proper engagement and clearance. If horizontal adjustment is needed, ADJUST the strike and LOCKDOWN the horizontal adjustment using the 10-32 set screws as show in Diagram 8.
- 3 TIGHTEN the two 1/4"-20 x 1" mounting screws.
- 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.
- 5 INSTALL the cover plate, and SECURE in place using the #6-32 x 1/4" Cover Screws.

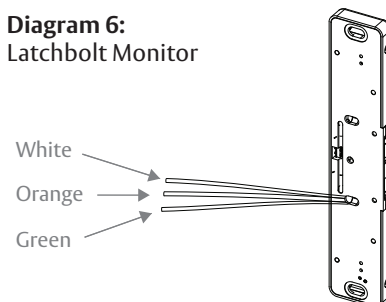


**WARNING:** If no LOCKDOWN SCREW is used, the electric strike WILL NOT be windstorm rated and windstorm label should be removed. This pertains ONLY to the 9600 and 9700.

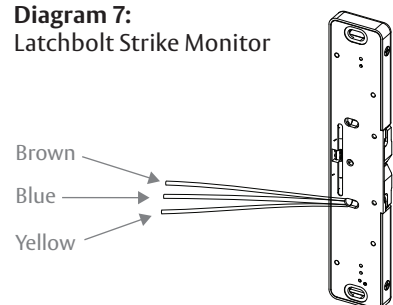
**Diagram 5:**  
Monitoring Switch Position



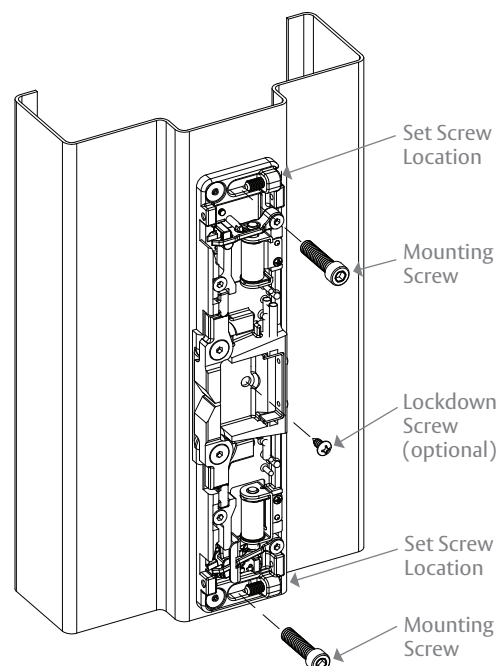
**Diagram 6:**  
Latchbolt Monitor



**Diagram 7:**  
Latchbolt Strike Monitor

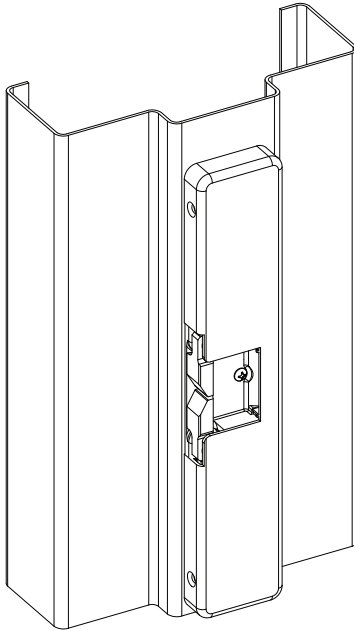


**Diagram 8:**  
Adjusting the Horizontal

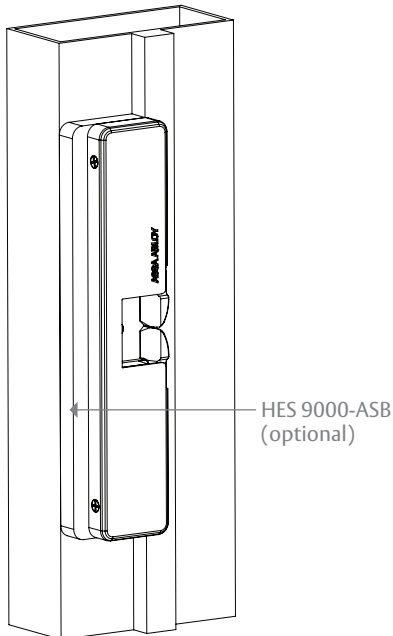


# Installation *(continued)*

**Diagram 9:**  
9400 Mounted on Hollow Metal Frame

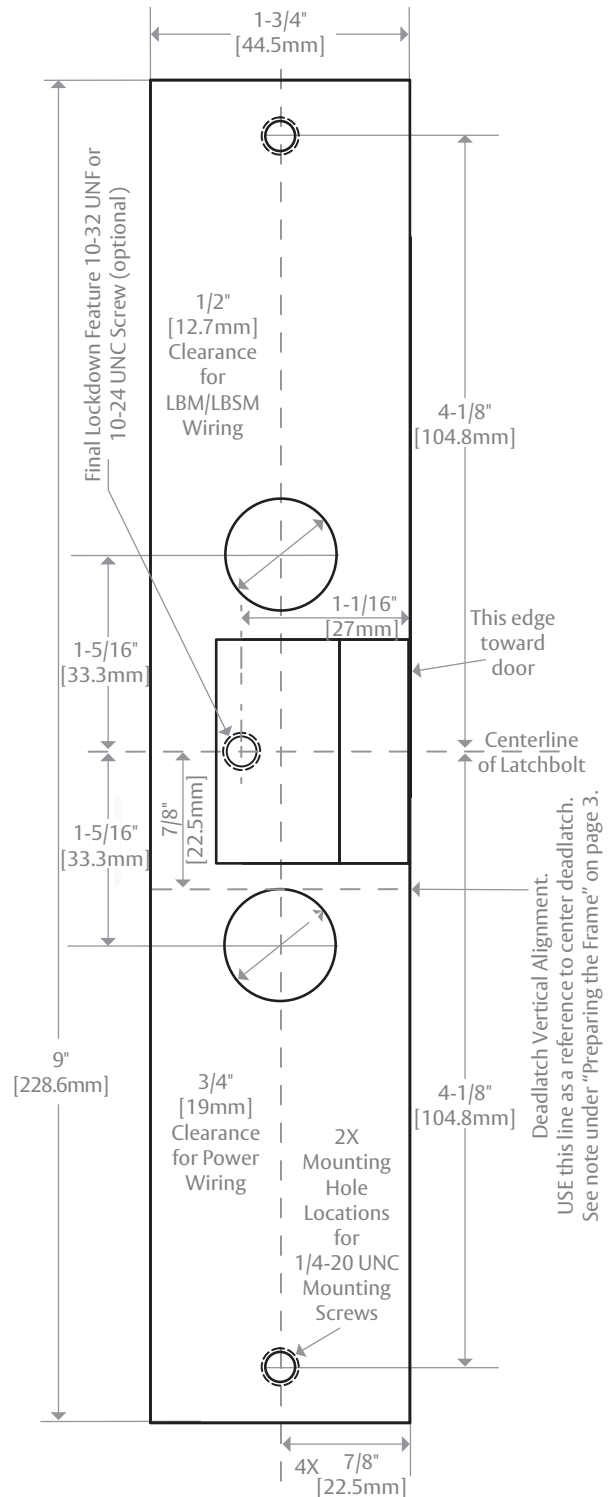


**Diagram 10:**  
9400 Mounted on Aluminum Frame with Blade Stop



## Dimensions

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



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



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