

The following instructions cover all models of the 700 series strike: 710-75, 710, 712-75, 712, 730-75, 730, 732-75, 732, 740-75 and 742-75

**INSTALLATION**

- For proper installation of the 700 strike refer to the appropriate template drawing.
- Prior to installation make the necessary wire connections per the appropriate wiring diagram.
- Proper operating voltage must be supplied to the strike if it is to function correctly. Voltage at the strike must be within + or - 10% of the required voltage listed on the strike label.
- To install the strike into the frame opening:
  - Position the wiring either down or up or toward the back of the hollow metal frame, making sure that it stays completely out of the way of the strike so as not to pinch it when installing.
  - Mount the strike using the screws supplied:
 

Strike Model	Mounting Screws
712, 712-75, 742-75	(2) 12-24 x 1/2 FH Phil Mach SCS
732, 732-75	(2) 12 x 1 1/2 FH Phil Wood SCS
- After installation check the horizontal alignment.
- In case of misalignment there is a horizontal adjustment between the strike mechanism and the face plate. To adjust:
  - Remove mounting screws.
  - Remove strike from frame.
  - Loosen the two (2) 8-32 PHPMS.
  - Reposition strike and re-tighten PHPMS screws.
  - Reinstall strike in frame.
  - Reinstall mounting screws.

**OPERATION**

The Folger Adam 700 electric strike is a solenoid operated device.

- 710 & 740-75 Fail Secure**  
When power is applied the solenoid pulls the locking cam into the unlocked position allowing the door to be opened. If power fails the strike will remain locked.  
  
NOTE: Fail Secure strikes for use in fire rated doors can only be operated by momentary contact switching (energized only when the push button is held depressed) and cannot be held in the unlocked position.
- 710 & 740-75 FAIL-SAFE**  
When power is applied the solenoid pushes the locking cam into the locked position and the door cannot be opened. If power fails the strike will unlock.
- 730 Fail Secure**  
When power is applied the solenoid pushes the locking cam into the unlocked position allowing the door to be opened. If power fails the strike will remain locked.  
  
NOTE: Fail Secure strikes for use in fire rated doors can only be operated by momentary contact switching (energized only when the push button is held depressed) and cannot be held in the unlocked position.
- 730 FAIL-SAFE**  
When power is applied the solenoid pulls the locking cam into the locked position and the door cannot be opened. If power fails the strike will unlock.

**OPTIONAL FEATURES**

- LBM SWITCH (Latch Bolt Monitor)**  
A switch operated by the switch tripper that signals whether or not the latch bolt is extended into the strike.
- LCM SWITCH (Locking Cam Monitor)**  
A switch operated by the roll pin on the locking cam that monitors the position of the locking cam and signals that the strike is either locked or unlocked.
- LBMLCM SWITCH (Locking Cam and Latch Bolt Monitor)**  
A combination of the LCM and LBM switches. By wiring these two switches together, externally, they will indicate that the strike is locked (LCM) and the latch bolt is extended (LBM) into the strike.
- SOLENOID VOLTAGE**  
12VDC or 24VDC  
  
When control power source is AC, the strike should be supplied with an externally attached bridge rectifier.  
  
When control power source is VDC, the strike is supplied without the bridge rectifier.
- FAIL-SAFE**  
The strike is locked when energized. This feature should be used for applications that require automatic unlocking in case of power failure.  
  
CAUTION: Fail-safe is **not** permitted with the UL Fire Door Accessory label.
- MOUNTING TAB**  
The mounting tab is designed to be used with 712, 712-75 and the 742 electric strikes when mounting in metal frames.
- ASTRAGAL**  
A lock guard, designed to prevent tampering with the strike keeper and the latch bolt.
- EXTENDED LIP**  
A lip extension is added to the face plate to form a path for the latch bolt when released electrically. Extension is available in increments of 1/4" up to 2" maximum. (Does not apply to 742-75 and 740-75)

**OPERATIONAL NOTE**

This product may be provided fail safe or fail secure. Fail safe versions allow exit in the event of power failure. Fail secure versions do not. Consult with the local authority having jurisdiction concerning the installation of this type of product and whether listed panic hardware is required to allow emergency exit from the secured area.

**Note:** The term "Non-Fail Safe" (NFS) has been changed to Fail Secure to conform with ANSI/BHMA standards and definitions. Fail Secure is the standard operation mode for all FAEDC electric strikes and therefore does not require a letter designation when ordering.

**TROUBLE SHOOTING**

Problem	Solution
Strike does not operate when energized.	Check for proper voltage being supplied to the strike. Check all wiring. Check the coil resistance of the solenoid and compare it to the chart located on the wiring diagram, to insure the correct solenoid is being used.
Strike operates intermittently.	Check for loose wire connection.
Solenoid overheating or burned out.	Check for proper voltage being supplied to the strike.
Strike is not re-locking or is not unlocking.	Check for proper alignment between strike keeper and bolt, realign face plate if necessary. The keeper may not be returning to the fully locked position. Check the strike with the door open, if the strike re-locks check the horizontal alignment between the strike keeper and the latch bolt. There is a horizontal adjustment between the strike assembly and the face plate (see installation instructions for adjustment). If vertical alignment is off, reposition the face plate.  Check the locking cam spring to insure it is moving the locking cam into the locked position (fail secure) or the unlocked position (fail-safe).  Check the solenoid assembly to insure the solenoid plunger is moving freely.
Improper indication. (LCM, LBM, LBMLCM)	Check wiring. Check latch bolt for correct engagement with switch tripper. Check switch actuator arm, re-bend if necessary. Check continuity of indication switches, common to normally open, common to normally closed.
Solenoid plunger binding (Plunger will not extend or retract).	Check alignment between solenoid plunger and cam.

**700 Strike  
Installation Instructions**

**FOLGER ADAM**  
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## MAINTENANCE AND LUBRICATION

Under normal usage the 700 electric strike should be cleaned and lubricated once a year to maintain its reliability. In applications with high usage or dirty conditions more frequent service may be necessary. Lubrication points are identified in illustration 2. When servicing a 700 inspect the internal parts for excess wear or breakage and lightly lubricate per the instructions below. Lubricate with Lightning Grease, available from Folger Adam. Never lubricate any strike with oil, such lubrication collects dirt and forms an abrasive and sticky compound that may affect the function of the strike.

### TO INSPECT AND LUBRICATE THE STRIKE:

1. Remove the strike from the face plate, held on by two (2) 8-32 x 3/8 PHPMs.
2. Remove the front cover, held on by two (2) 4-40 x 3/16 FHMS. Removal of front cover should be done slowly because the locking cam spring may snap out of place. Also, care should be taken to insure that the baffle is not lost.
3. Remove the cam spring and the baffle.
4. **PULL TYPE:** Loosen the lock nut holding the solenoid, then remove the solenoid and then the plunger.

**PUSH TYPE:** Loosen the lock nut holding the solenoid, then remove the solenoid and plunger assembly.

5. Remove the locking cam.
6. Remove the locking lever spring and locking lever.
7. Lubricate the area in the case where the locking lever and locking cam rest. (Be careful not to get any lubricant on the solenoid or switches.) Lubricate the cam pin and lever pin.
8. Check the locking angle of the keeper and locking lever for wear. Replace the keeper and/or lever if worn. (If the keeper is disassembled for replacement or adding of a switch, lubricate the keeper pin.)
9. Reinstall the locking lever and the locking lever spring, the spring must be held compressed into the hole in the locking lever for installation.
10. Check the solenoid, plunger and plunger guide for excess wear, dirt grime or oil, if present wipe clean.

**PUSH TYPE:** Remove the retaining ring for inspection of the plunger guide. Reassemble the solenoid and plunger with a new retaining ring.

11. **PULL TYPE:** Lubricate the roll pin and the locking cam surfaces between the solenoid plunger (contact points of the solenoid plunger).

**PUSH TYPE:** Lubricate the edge of the locking cam (contact point of the solenoid plunger).

12. Reinstall the locking cam. If the strike has a LCM, LBM or LBMLCM switch make sure the roll pin on the locking cam is positioned in front of the switch actuator arm.

## 13. INSTALLING AND ADJUSTING THE SOLENOID

- A) 710 & 740-75 Fail Secure: In the bottom hole in the case, install the plunger with the opening for the roll pin toward the lever side of the case then install the solenoid.

730 Fail Secure: In the back hole in the case, install the solenoid and plunger assembly.

710 & 740-75 FAIL-SAFE: In the bottom hole in the case, install the solenoid and plunger assembly.

730 FAIL-SAFE: In the back hole in the case, install the plunger with the opening for the roll pin toward the bottom of the case, then install the solenoid.

- B) 710, 730 & 740-75 Fail Secure: Install the locking cam spring with the L-shaped leg of the spring on the bottom of the locking cam (plunger side) and the other leg in the groove in the side of the case. See illustrations.

710, 730 & 740-75 FAIL-SAFE: Install the locking cam spring with the L-shaped leg of the spring on the top of the locking cam (locking lever side) and the other leg in the groove in the case (near the locking lever). See illustrations.

- C) 710 & 740-75 Fail Secure (Pull Type): Before tightening the lock nut, energize the solenoid and adjust the solenoid position until the locking cam is pulled into the unlocked position, tighten the lock nut on the solenoid.

710 & 740-75 FAIL-SAFE (Push Type): Before tightening the lock nut, energize the solenoid and adjust the solenoid position until the solenoid plunger pushes the locking cam into the locked position (do not screw in the solenoid more than required or the solenoid plunger will not seat in the solenoid). De-energize the solenoid and check that the locking cam moves to the unlocked position. Tighten the solenoid lock nut.

730 Fail Secure (Push Type): Before tightening the lock nut, energize the solenoid and adjust the solenoid position until the solenoid plunger pushes the locking cam into the unlocked position, tighten the lock nut on the solenoid.

730 FAIL-SAFE (Pull Type): Before tightening the lock nut, energize the solenoid and adjust the solenoid position until the locking cam is pulled into the locked position. De-energize the solenoid and check that the locking cam moves to the unlocked position, tighten the solenoid lock nut.

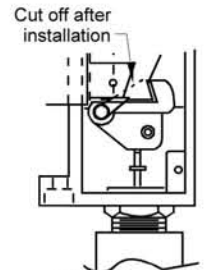
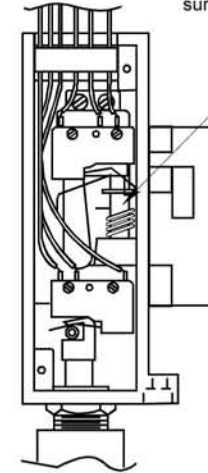
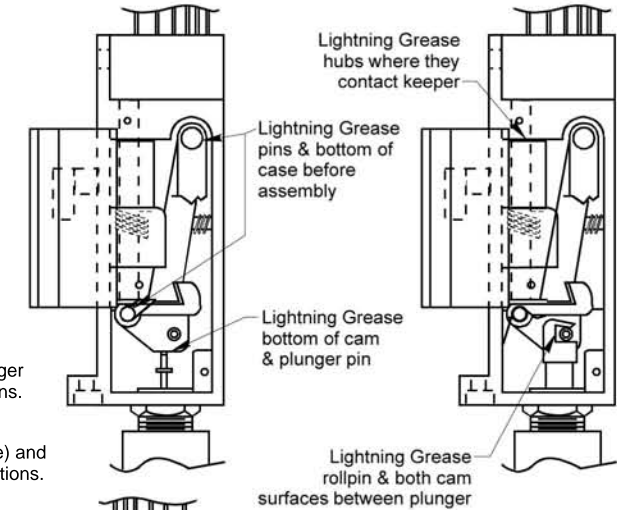
**HINT:** Hold cam spring in place or place cover over cam spring before energizing solenoid.

14. Check all screws, tighten if necessary. **CAUTION:** Do not over tighten the switch screws, over tightening could break the switch.

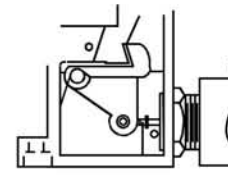
15. Reinstall the baffle.

16. Reinstall the front cover.

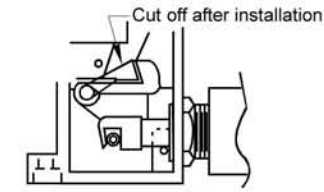
17. Reassemble the strike to the face plate.



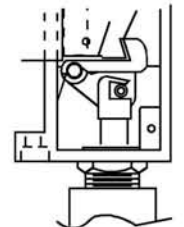
**710 FAIL SAFE  
712  
740-75**



**730 FAIL SECURE  
732**



**730 FAIL SAFE  
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