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INSTALLATION INSTRUCTIONS 20 Series Electric Strike

Installation:

- 1. For proper installation of the 20 Series Electric Strike refer to the appropriate template drawing.
- 2. Prior to installation, make the necessary wire connections per the appropriate wiring diagram.
- 3. Proper operating voltage must be supplied to the strike if it is to function correctly. Voltage at the strike must be within +/- 10% of the required voltage listed on the strike label.
- 4. To install the strike into the frame opening.
 - a. Position the wiring either down or up toward the back of the hollow metal frame, making sure it stays completely out of the way of the strike so as not to pinch it when installing.
 - b. Mount the strike using screws supplied:

Strike ModelMounting ScrewsMETAL FRAMES(2) 12-24 X 1/2 FH PHIL MACH SCSWOOD FRAMES(2) 12 X 3/4 FH PHIL WOOD SCS

5. After installation, check the horizontal alignment. Be certain that the centerline of the latchbolt is aligned with the centerline of the strike keeper.

Operation:

The SDC 20 Series Electric Strike is a solenoid operated device.

1. NFS Operating mode (NON-FAIL SAFE)

When power is applied, the solenoid pulls the locking slide into the unlocked position, allowing the door to be opened. If power fails, the strike will remain locked. NOTE: Non-fail safe 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.

2. FAIL-SAFE OPERATING MODE

When power is applied, the solenoid pushes the locking slide into the locked position and the door cannot be opened. If power fails the strike will unlock.

NOTE: Non-fail safe 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.

OPTIONAL FEATURES:

1. SOLENOID VOLTAGE:

24VDC is standard. Optional voltages available are 12VDC, 12VAC or 24 VAC.

NOTE: When control power source is AC, the strike is supplied with an externally attached bridge rectifier. The solenoid is rated for DC and cannot be used with AC. It can be used with a rectifier however.

2. 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.

OPERATIONAL NOTE:

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

Troubleshooting

| Troubleoning | |
|---|--|
| Solution | |
| Check for proper voltage being supplied to the strike. | |
| Check for proper voltage being energized. | |
| 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. | |
| Check for loose wire connection. | |
| 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 relocks check the horizontal alignment between the strike keeper and the latchbolt. | |
| Check the solenoid assembly to insure the solenoid plunger is moving freely. | |
| Check alignment between solenoid plunger and slide. | |
| | |

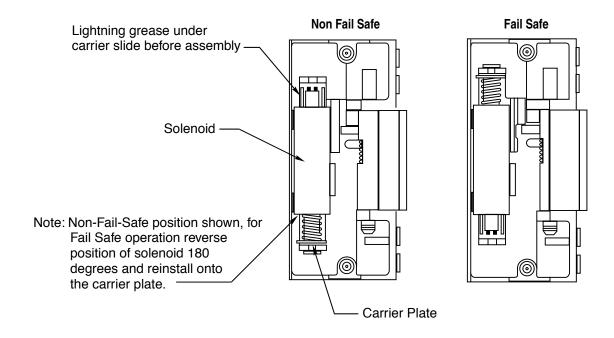
Maintenance and Lubrication Instructions

Maintenance and Lubrication

Under normal usage the 20 Series 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 the illustration. When servicing the 20 Series Electric Strike, inspect the internal parts for excess wear or breakage and lightly lubricate per instructions below. Lubricate with lightning grease available from SDC. 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 (4) 8-32, 1/4 FHPMS). Remove the strike frame from the strike.
- 2. Remove the top cover (held on by (2) 6-32 x 3/8 FHPMS).
- 3. Remove the solenoid from the strike case.
- 4. Remove the solenoid slide carrier from the case.
- 5. Check and remove any old excess lubricant in the case and the slide carrier.
- 6. Lightly lubricate the area in the case where the slide carrier surface rests.
- 7. Reinstall the slide carrier into the case.
- 8. Check the solenoid and plunger for excess wear, dirt, grime, or oil.
- 9. Reinstall the solenoid assembly to the case.
- 10. Reinstall the top cover, keeper guard and face plate.

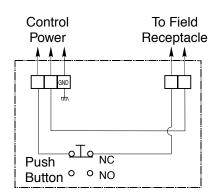


20 Series Electric Strike Wiring Diagram

20 Series Electric Strike Wire Harness Options



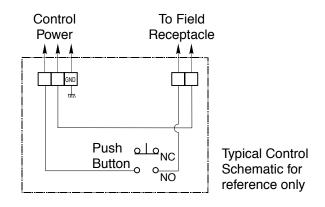
20 Series Electric Strike Control (Fail Safe)

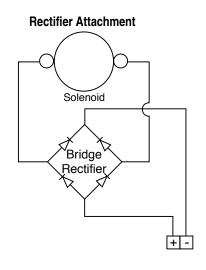


NOTE: Fail Safe / Non-Fail Safe
Operation is also controlled
by the position of the solenoid
inside the strike see installation
instructions.

Push Button Switch Conditions

20 Series Electric Strike Control (Non-Fail Safe)





Installation of 20 Series Electric Strike Keepers

Illustration showing the assembly of a strike keeper and LBM switch tripper. Illustration is to be used with instructions on page — for changing and replacing keepers.

