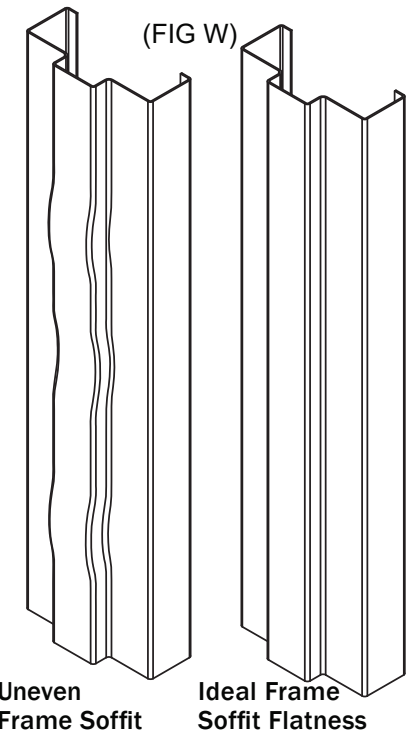
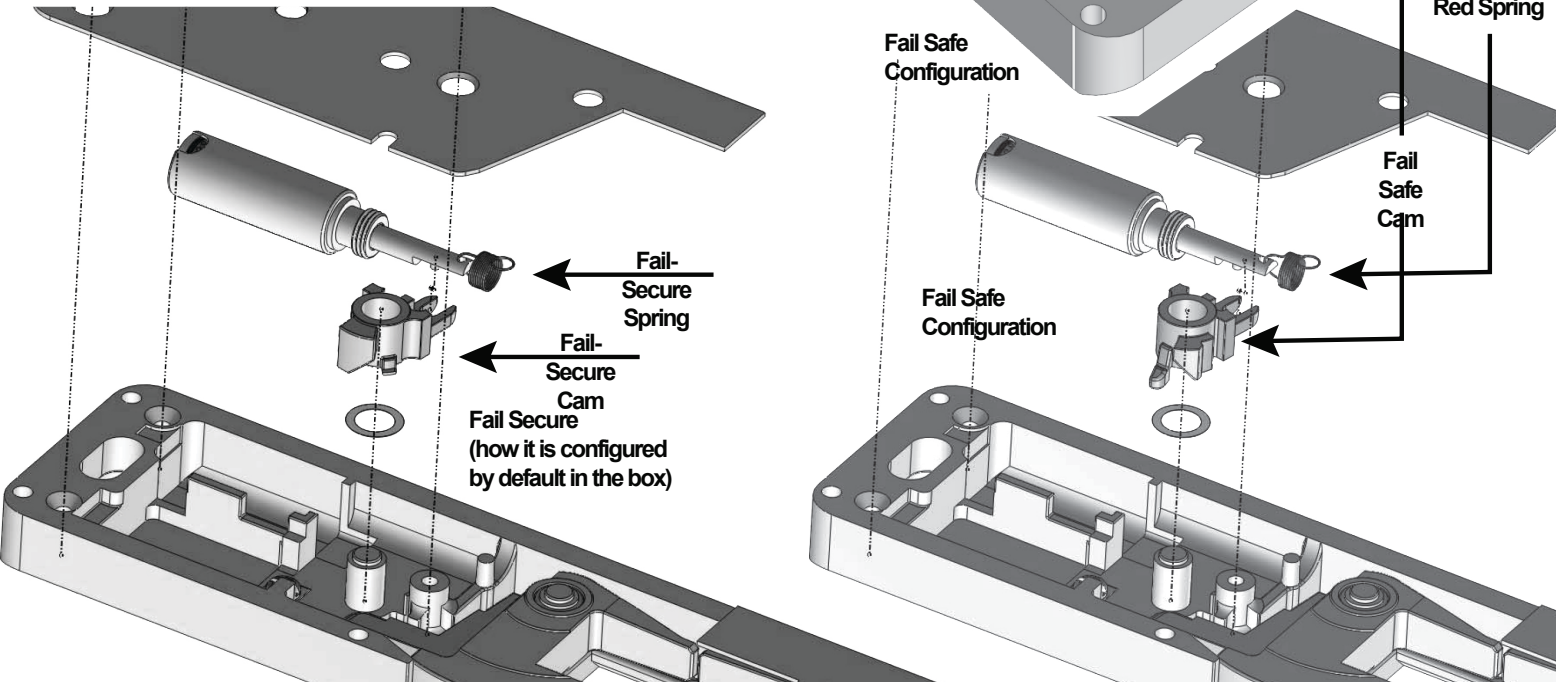


INSTRUCTIONS FOR CHANGING THE THE 4850 FROM FAIL SECURE TO FAIL SAFE:

To change the Fail Secure 4850 into a Fail Safe, open the mechanism side of the strike (as shown on the right) by removing the mechanism cover screws (3 places) and the cover. Lift the solenoid and gently pull off the solenoid plunger and spring assembly and replace it with the solenoid plunger and RED colored spring assembly. Pull off the actuator cam, and replace it with the fail-safe cam. Before closing the unit, make sure that the wires are properly seated on the wire channel (see figure on right). Save the fail secure plunger and spring assembly for future use.

To change from Fail Safe to Fail Secure, just reverse the procedure



TROUBLESHOOTING THE COMPLETED INSTALLATION:

SYMPTOM: ELECTRIC RELEASE IS NOT ACTUATING:

1. Verify proper voltage is present AT STRIKE. If voltage is present: the strike may have been affected during the installation, or dirt or debris may be preventing proper operation. Inspect electric release and clean. NOTE: DO NOT LUBRICATE SOLENOID
2. If voltage IS NOT present:  
A) Verify Circuit breaker is on, B) Verify voltage at the transformer/power supply output. C) Verify that there are no additional, external switches or devices which may be interrupting your circuit. D) Check for damaged wiring or bad wire splices.

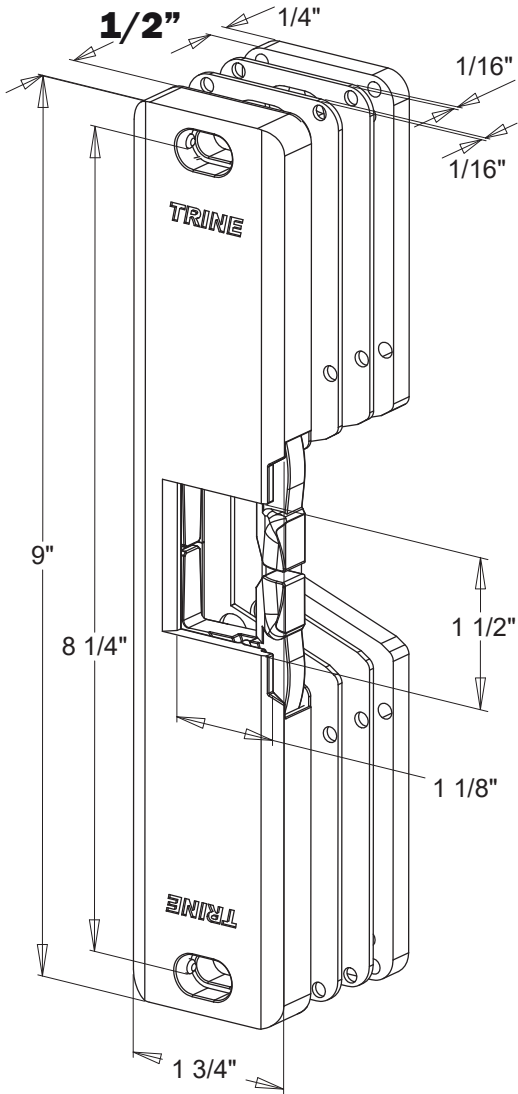
SYMPTOM: STRIKE IS WORKING BUT WILL NOT OPEN:

1. Check for other locks on door
2. Check for proper lock-latch engagement
3. Check for excessive back pressure on door release latch by following these steps:  
A) Push the door from the outside to try and relieve the bolt to latch pressure and actuate the 4800F. B) While the 4850 is unlatched swing the door open. If the door opens, then the bolt maybe applying pressure to the latch. Adjust the position of the 4850 to relieve the pressure.

POSSIBLE REMEDIES:

1. Re-adjust (or install) a door closer, Remove door silencers, Re-center electric release in jamb, Remove or trim weather stripping around the door.
2. Installing this strike on an uneven surface can cause problems with the internal mechanism of this device. Specifically, it will cause localized mechanical pinching of the moving parts. Locate where the pinching is occurring and level the frame surface at that location. (FIG W)

ENHANCED 4850  
ELECTRIC  
STRIKE  
INSTALLATION INSTRUCTIONS



TRINE 4850 - 1/2" THICK ELECTRIC  
THE ONE BOX SOLUTION  
FOR RIM PANIC EXIT DEVICES

Congratulations on the purchase of this quality TRINE security product. This product has been designed to install easily, perform reliably, and provide years of trouble free security.

BEFORE PROCEEDING with your installation, please review the following list of features. If you have any questions after reading this document please call TRINE's TECHNICAL SUPPORT (203) 730-1756 , or visit us online @ trineonline.com



The 4850 is ETL recognized for:

- Grade 1 UL1034 Burglary Rating
- UL294 Access Control Accessory

See Installation Procedure Note 12: Two (2)  
center anchoring pins must be used for installation.

Product is intended to be energized from the output  
of a regulated 12VDC - 24VDC supply.

Do not connect with input/output circuit cables greater than  
98.5 feet (30 meters) long.

All field wiring is to be in accordance with National Electrical Code, ANSI/NFPA 70

Leads shall not be spliced to conductor larger than 18AWG (0.82mm2)" or  
equivalent to the product instructions of all devices covered by this evaluation.

FOR INDOOR USE ONLY.

Tested by ETL to the following performance for Electric Strikes:

- 500,000+ Life Cycles
- 1,500+ lbs Holding Force
- 70 foot-pound force
- Single Locking Mechanism

The 4300 is WH recognized for UL294

Feature	Level
Destructive Attack	I
Line Security	I
Endurance	IV
Standby Power	I

4850 THICKNESSES:

Combining the 1/8" spacer and 1/4" spacer the 4850's open  
cavity allows for multiple thicknesses: 1/2", 5/8", 3/4" and 7/8"

4850 ELECTRICAL CHARACTERISTICS:

Voltage	Current Draw (Amps)	Connector
12DC	.218	Use 12DC Connector
16DC	.290	Use 12DC Connector
24DC	.195	Use 24DC Connector

Duty: Intermittent & Continuous Sound: Silent

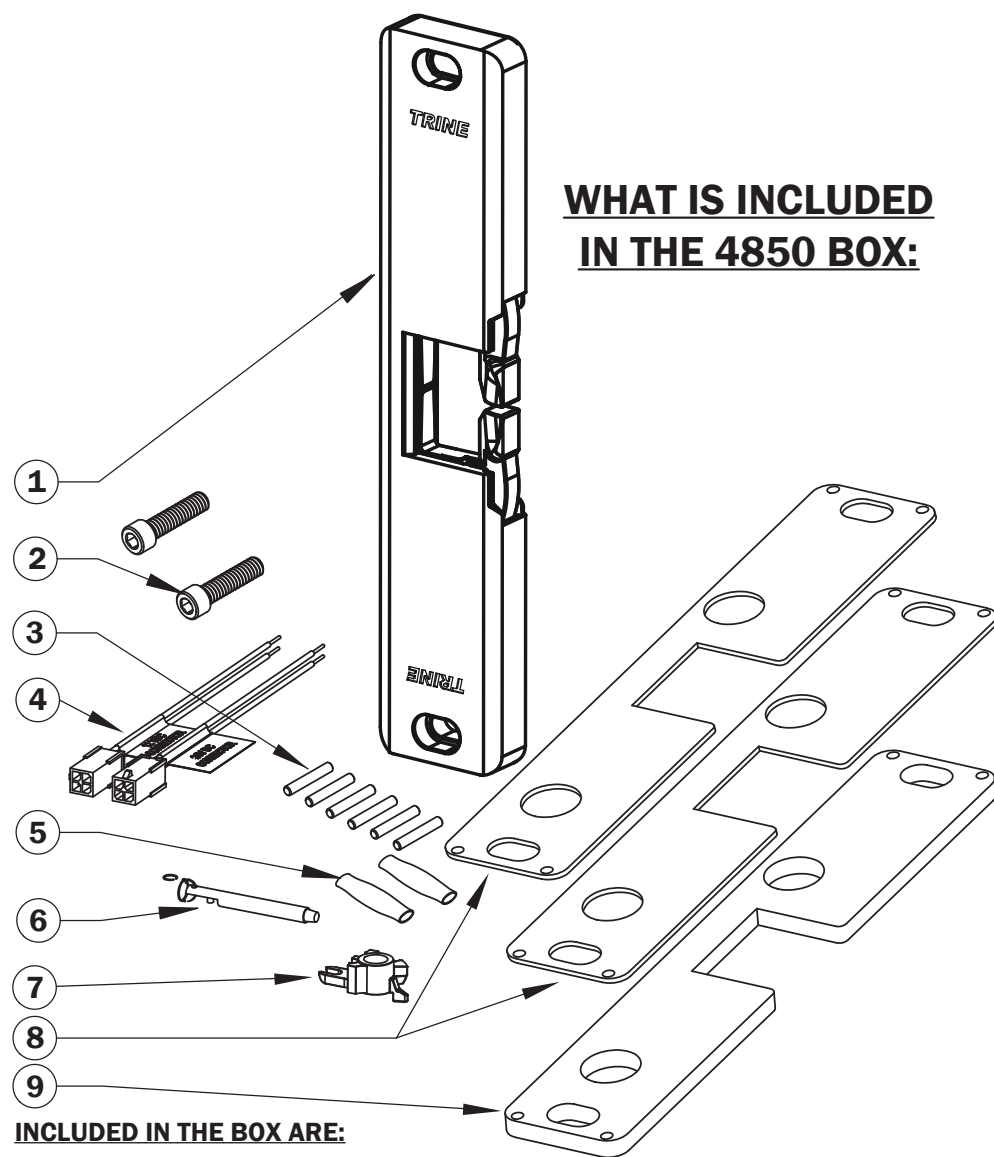
Wire Color:

The enhanced 4850 has three wires for 12 and 24 DC  
Red & Blue = 12 and 16 DC  
Brown & Blue = 24 DC

DO NOT APPLY AN OVER VOLTAGE OF MORE THAN 10% OVER  
THE RATED OPERATING VOLTAGE OF THE STRIKE OR THE SOLENOID WILL  
BE DAMAGED.

DO NOT APPLY AC POWER OR THE SOLENOID WILL BE DAMAGED.  
OPERATING TEMP RANGE: -20 °C TO +65 °C





**WHAT IS INCLUDED  
IN THE 4850 BOX:**

**INCLUDED IN THE BOX ARE:**

- 1 - (1) 4850 SURFACE MOUNTED STRIKE
- 2 - (2) 1/4-20 x 1" UH CAP SOCKET MOUNTING SCREWS
- 3 - (6) ANCHOR SYSTEM PINS
- 4 - (2) 12 & 24 DC WIRE CONNECTORS.
- 5 - (2) SEALED CRIMP CONNECTORS
- 6 - (1) FAIL SAFE SPRING (RED COLORED) & SOLENOID PLUNGER
- 7 - (1) FAIL SAFE CAM
- 8 - (2) 1/16" THICK SPACER PLATES (replaces single 1/8" plate)
- 9 - (1) 1/4" THICK SPACER PLATE

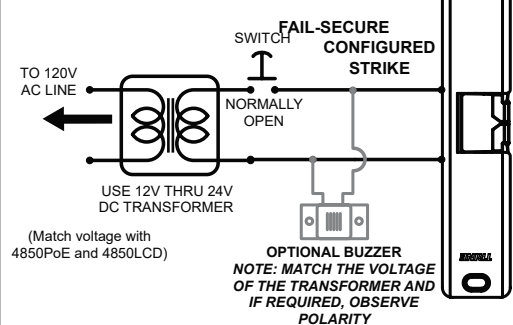
**RECOMMENDED PREINSTALLATION CHECK FOR THE 4850 SURFACE  
MOUNT STRIKE:**

- 1. Determine that door is properly adjusted; Door must operate properly in order for system to provide best results.
- 2. Door must swing properly, without interfering with jamb or sill
- 3. The door should be equipped with a door closer and the door closer "latch mode" must hold door in a completely closed position in order to avoid the lock latch from applying pressure against the releasing latch portion of the electric strike.
- 4. Electrical wire connections must be completed and ready to be terminated inside the frame.
- 5. Confirm that the power line in the frame is the correct voltage, amperage, and that the switch works properly.
- 6. Confirm proper clearance exists between the end of the lock latch and jamb.
- 7. The electric door strike must be aligned properly with lock latch when it is installed on the doorjamb.
- 8. For best installation results, the door frame must be reasonably flat and straight.

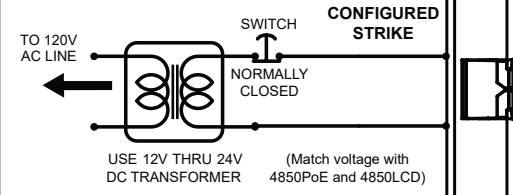
**RECOMMENDED  
TOOLS:**

- 3/32 inch Allen Wrench
- 3/16 inch Allen Wrench --
- 3/4 inch diameter Drill Bit
- #7 (0.201 inch diameter) Drill Bit
- #30 (0.128 inch diameter) Drill Bit (for the optional Anchor Pins)
- 1/4-20 Tap
- Drill
- Marker

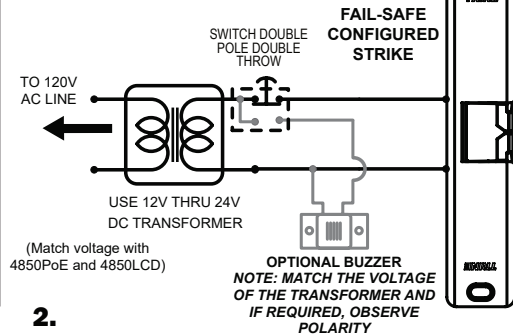
**WIRING FOR  
FAIL-SECURE MODE**



**WIRING FOR  
FAIL-SAFE MODE**



**WIRING FOR  
FAIL-SAFE MODE  
WITH OPTIONAL BUZZER**



2.

**USE THE 4850ITL TO QUICKLY  
MARK, TEST, ADJUST, CENTER  
PUNCH AND SKIP MOST OF  
THESE STEPS!**

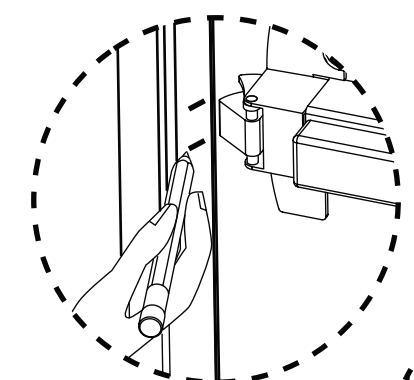


**CHECK OUT THE VIDEO ON  
SEARCH "4850ITL" YouTube**  
more info @ [trineonline.com/4850itl.php](http://trineonline.com/4850itl.php)

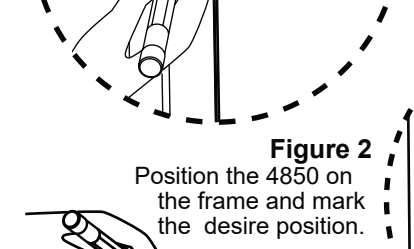
**INSTALLATION PROCEDURE:**

**CAUTION: TO AVOID ELECTRICAL SHOCK AND INJURIES,  
BEFORE DOING YOUR WIRING, TURN OFF THE POWER FROM  
THE CIRCUIT BREAKER.**

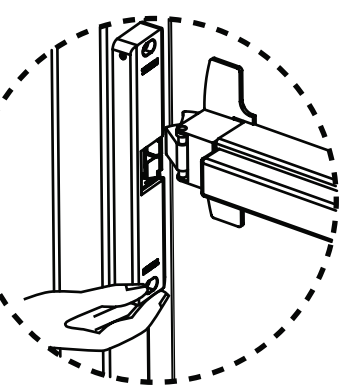
- 1. Mark the end position of the exit devices latchbolt on the doorframe. (Take off the original strike if present). See Figure 1.
- 2. Using the marks you just made as your guide, position the 4850 over the mark on the frame. Make sure that the Auxiliary latch rides up properly over the 4850's edge, and is engaged, and that the door is in the fully closed position. See Figure 2
- 3. When you are confident with the position of the 4850, mark two perpendicular edges of the 4850 on the frame See Figure 3
- 4. Put the 4850 aside for a moment and place the spacer supplied with the 4850 inside the marks you just made on the frame.
- 5. Using the spacer as a template; mark the two mounting holes and the wire exit hole. If you are using the optional anchor pins, mark the anchor pin positions using the spacer as a template. See Figure 4
- 6. Using a #7 bit, drill the two mounting holes and tap them 1/4-20.
- 7. Using a 3/4 inch diameter bit, drill the power wire exit hole
- 8. If you are utilizing the anchor pin system, use a #30 bit, drill the four anchor pin holes.
- 9. Deburr any sharp edges around the holes after drilling, so that the 4850 will rest on a smooth clean surface and the wires will not be accidentally cut or damaged while installing.
- 10. Pull the power wiring down the door frame and through the 3/4 inch diameter power wire hole.
- 11. Using the provided sealed crimp connectors, terminate the quick connect socket assembly to the power wires. See Figure 5 (NOTE: The 4850 is not polarized)
- 12. If you intend to use the anchor pins system, insert them into the 6 holes on the back side of the 4850. See Figure 6. If you also intend to use the 1/8" thick spacer plate, you can now slip the plate over the pins.
- 13. Snap together the power supply side connector coming off the frame to the 4850 connector. Carefully push the wires and connectors back into the frame.
- 14. Using the 2 mounting screws, mount the 4850 strike to the frame.
- 15. Adjust the strike to the desired position and tighten the mounting screws using the 3/16 inch Allen wrench.
- 16. Using the 3/32 inch Allen wrench turn the two setscrews on the side of the 4850 until they support the strike. DO NOT over tighten the setscrews.
- 17. Turn the power ON and test your installation. Installation is now complete.



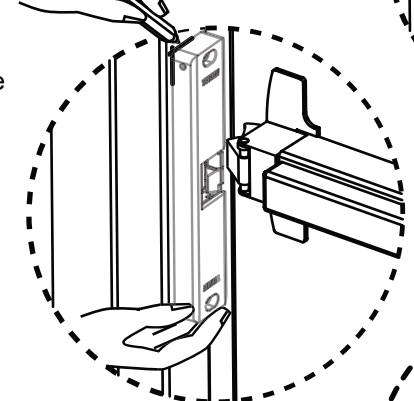
**Figure 1**  
With the door closed, mark the position of the bolt on the frame.



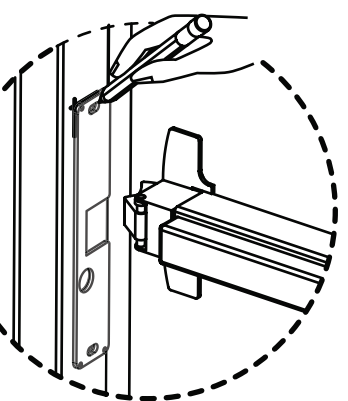
**Figure 2**  
Position the 4850 on the frame and mark the desired position.



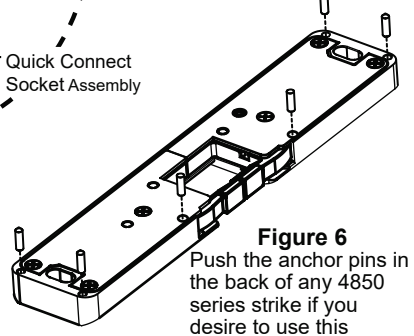
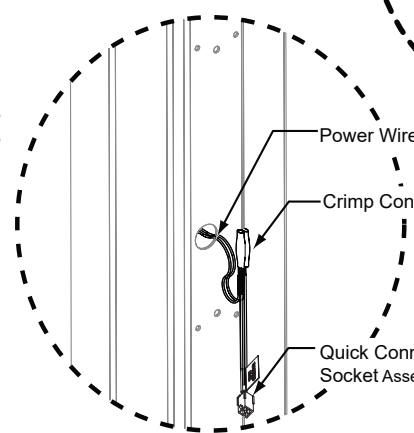
**Figure 3**



**Figure 4**  
Use the spacer as template to mark the holes you desire to use



**Figure 5**  
Crimp the quick connect socket assembly to the power wires.



**Figure 6**  
Push the anchor pins in the back of any 4850 series strike if you desire to use this

3.