Shunt trip in IZM low voltage circuit breakers

△ WARNING

(1) ONLY QUALIFIED ELECTRICAL PERSONNEL SHOULD BE PERMITTED TO WORK ON THE EQUIPMENT.
(2) ALWAYS DE-ENERGIZE PRIMARY AND SECONDARY CIRCUITS IF A CIRCUIT BREAKER CANNOT BE REMOVED TO A SAFE WORK LOCATION.
(3) DRAWOUT CIRCUIT BREAKERS SHOULD BE LEVERED (RACKED) OUT TO THE DISCONNECT POSITION

(4) ALL CIRCUIT BREAKERS SHOULD BE SWITCHED TO THE OFF POSITION AND MECHANISM SPRINGS DISCHARGED.

FAILURE TO FOLLOW THESE STEPS FOR ALL PROCEDURES DESCRIBED IN THIS INSTRUCTION LEAFLET COULD RESULT IN DEATH, BODILY INJURY, OR PROPERTY DAMAGE.

Section 1: General information

The shunt trip opens the circuit breaker when its coil is energized by a voltage input. When replacing a shunt trip, both the shunt trip and the cut-off switch must be replaced.

Section 2: Installation of the shunt trip

To install the spring release, proceed with the following six steps:

Step 1: Remove the front cover by unscrewing the hex-head captive bolts (four for three-pole, six for four-pole) that join the cover to the breaker housing using a 10 mm 1/4-inch drive socket. Then hold the charge handle down approximately 45 degrees to pull off the cover.

Step 2: Place the appropriate label on the front cover nameplate space located under "Accessories."

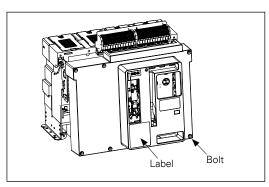


Figure 1. Steps 1 and 2

Step 3: Each shunt trip comes with a cut-off switch. Mount the switch by sliding the lock to the unlocked (up) position. Install the hook feet down through openings as shown. Then slide the assembly forward so the hook feet engage the mounting plate. Slide the lock down into the locked position.

Note: The cut-off switch is not applicable for the continuous duty shunt trip.

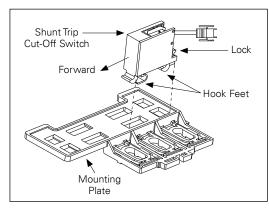


Figure 2. Step 3

Step 4: Slide the lock on the shunt trip to the unlocked (up) position, and install the hook feet down through the opening. Then slide it forward until the feet engage the mounting plate. Slide the lock back down to lock the shunt trip in place.



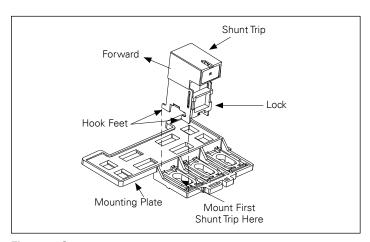


Figure 3. Step 4

Step 5: Mate the shunt trip connector with the cut-off switch connector.

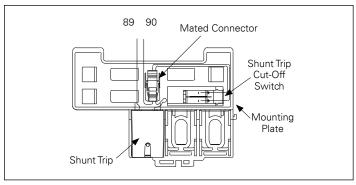


Figure 4. Step 5

Step 6: Wire to the secondary contact block positions 89 and 90 in keeping with the wire markings.

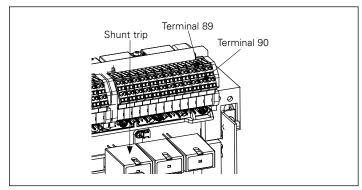
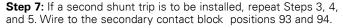


Figure 5. Step 6



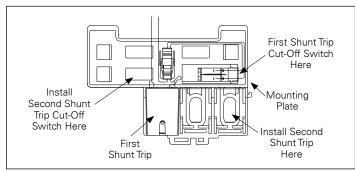


Figure 6. Step 7

Step 8: Reinstall front cover removed in Step 1.

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