

Remote latch check switch (LCS) for 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

A latch check switch (LCS) indicates when the circuit breaker is "ready to close" (**Figure 1**). The internal version of the LCS is wired to the spring release. It will not permit activation of the spring release until the circuit breaker is fully charged and the trip latch is reset.

Required tools

- 1/4-inch drive ratchet
- 10 mm socket

Kit parts identification

Refer to **Figure 1** for visual identification of the contents of kit.

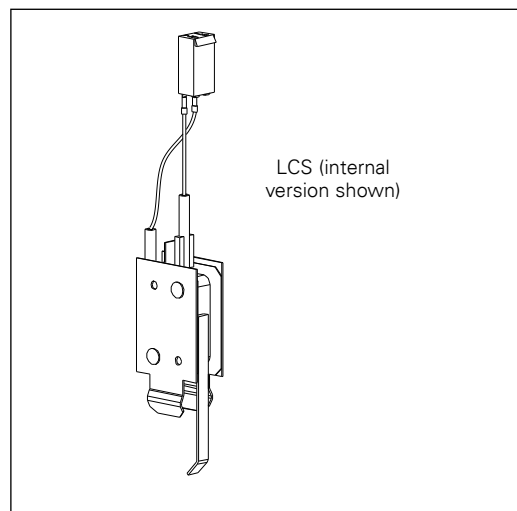


Figure 1. Contents of Kit

Section 2: Installation of internal remote LCS

To install the LCS, 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 at about a 45-degree angle to pull off the cover.

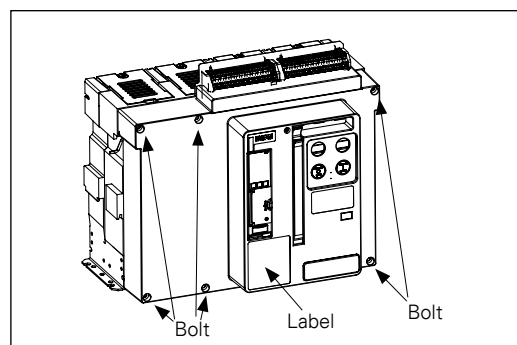


Figure 2. Step 1

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Step 2: Remove the accessory (if installed) and the spring release (SR) from the indicated positions on the accessory tray by lifting its lock up and sliding the accessory toward the front of the breaker. Then lift accessory up and out of tray. Do not disconnect the wiring.

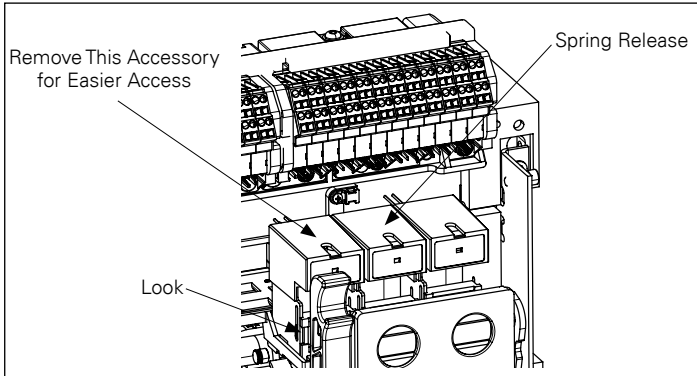


Figure 3. Step 2

Step 3: Plug the connector from the LCS onto the two pins of the spring release circuit board. Then push the LCS into the slot in the accessory tray. Make sure the LCS is fully seated.

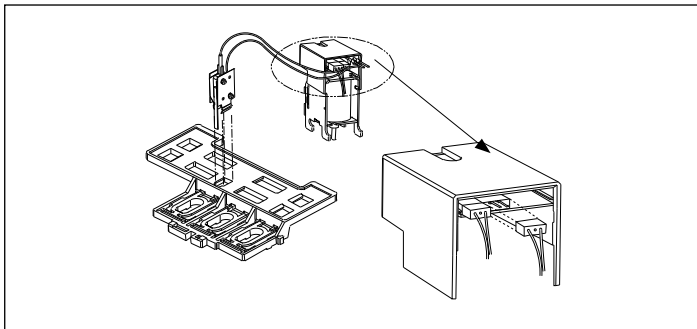


Figure 4. Step 3

Step 4: Reinstall any accessory that was removed in Step 2.

Step 5: Test the installation.

⚠ CAUTION

PUSH THE OFF BUTTON FIRST TO ENSURE THAT THE BREAKER IS NOT CHARGED. FAILURE TO FOLLOW THIS ACTION COULD RESULT IN A SERIOUS INJURY.

With the breaker OPEN and DISCHARGED, push down on the trip lever platform (to its stop) and release. The LCS should not operate. This is indicated by the absence of an audible “click” from the switch.

Now charge the breaker using the manual handle. When the breaker is fully charged, the trip lever will return to the latched (platform

level) position. Repeat the above test by pushing the trip lever platform down and releasing it. An audible “click” from the switch should be heard.

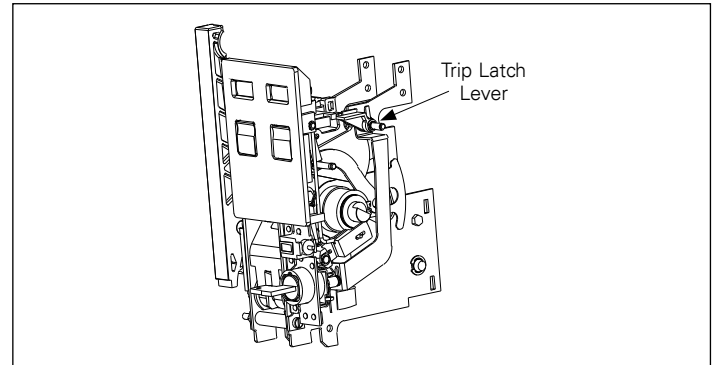


Figure 5. Step 5

Step 6: Reinstall the front cover. Push the CLOSE and then the OPEN pushbuttons to discharge all energy from the mechanism, leaving it in an OPENED and DISCHARGED status.

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