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.

WARNING
THE INSTRUCTIONS CONTAINED IN THIS IL AND ON PRODUCT LABELS HAVE TO BE FOLLOWED. OBSERVE THE FIVE SAFETY RULES:
– DISCONNECTING
– ENSURE THAT DEVICES CANNOT BE ACCIDENTALLY RESTARTED
– VERIFY ISOLATION FROM THE SUPPLY
– EARTHING AND SHORT-CIRCUITING
– COVERING OR PROVIDING BARRIERS TO ADJACENT LIVE PARTS
DISCONNECT THE EQUIPMENT FROM THE SUPPLY. USE ONLY AUTHORIZED SPARE PARTS IN THE REPAIR OF THE EQUIPMENT. THE SPECIFIED MAINTENANCE INTERVALS AS WELL AS THE INSTRUCTIONS FOR REPAIR AND EXCHANGE MUST BE STRICTLY ADHERED TO PREVENT INJURY TO PERSONNEL AND DAMAGE TO THE SWITCHBOARD.
Section 1: General information

The optional pop-out mechanical trip indicator, located to the right of the trip unit on the breaker’s front faceplate, operates by releasing and popping out any time the breaker trips due to an overcurrent condition (Figure 1). Two versions of the pop-out trip indicator are available:

**Version 1:** The non-interlocking indicator will not prevent the breaker from being reclosed. The indicator is reset manually by pushing it back in.

**Version 2:** The interlocking pop-out indicator must be pushed in and reset before the breaker can be reclosed. When resetting either version, ensure that the button is fully reset to a hard stop.

An optional overcurrent trip switch (bell alarm) can be used in conjunction with either mechanical trip indicator. The overcurrent trip switch operates off the position of the mechanical trip indicator, and is reset when the indicator is reset.

Figure 1. Installed Pop-Out Trip Indicator Shown

Become familiar with the most current pop-out trip indicator being used. **Figure 2** illustrates the non-interlocking indicator version and **Figure 3** illustrates the interlocking indicator version. Both indicators look very similar externally. The only noticeable difference between the two is a small molded hook-shaped device on the interlocking indicator version. This hook operates the interlocking feature. Both indicators are, however, installed and removed in the same way.

Figure 2. Non-Interlocking Pop-Out Trip Indicator Shown

Figure 3. Interlocking Pop-Out Trip Indicator Shown

Section 2: Installation of pop-out trip indicator

The installation process will be simplified if one small, flat-blade screwdriver is available to use during the process. No particular size is required, since it will not be used to remove or install screws. The indicator is a snap-in device requiring no mounting hardware. Proceed with the following nine steps.

**Step 1:** Remove the four screws holding the front cover in place (two on each side of the cover).

**Step 2:** Remove the front cover. Pull down on the charging handle to simplify removal.
Step 3: Be aware that all circuit breakers have an indicator device of some type installed as supplied from the factory. It may be an indicator with a gray colored non-operable pop-out indicator or a red colored operable pop-out trip indicator. In any case, Steps 2 through 8 of Section 3 must be performed first to remove any already installed indicator. Once the removal is accomplished, return to Step 4 of this section and proceed with the remaining steps to complete the installation of the new red colored operable pop-out trip indicator.

Step 4: Locate and identify the mounting slot in the side plate where the indicator will be mounted. The indicator will slide down the slot and snap into place when the notch is reached near the end of the slot.

Step 4

Step 5: Position the pop-out indicator at the top of the slot and slide it down the mounting slot. If this is a drawout circuit breaker, lift up on the secondary mounting bracket loosened in Step 4 of Section 3 to provide additional clearance for the indicator. If it is advantageous, a small flat-blade screwdriver can be used on the body of the indicator to push it down the mounting slot.

Step 5

Step 6: After the indicator is down into the mounting slot, push the indicator toward the front of the breaker into the notch. The indicator will snap into its mounted position in the notch. A click sound will be heard indicating a successful installation. The installed pop-out indicator will appear as shown.

Step 6

Section 3: Removal of pop-out trip indicator

The removal process may be simplified if two small, flat-blade screwdrivers are available to use during the process. No particular size is required, since it will not be used to remove or install screws. The indicator is a snap-in device requiring no mounting hardware. Proceed with the following nine steps.

Step 1: If necessary, remove the front cover from the breaker by performing Steps 1 and 2 of Section 2.

Step 2: Locate the trip indicator mounted in the side plate.

Step 2

CAUTION

WHEN REPLACING THE FRONT COVER, ENSURE THAT THE HOLE IN THE FRONT COVER IS ALIGNED WITH THE TRIP INDICATOR BUTTON. FAILURE TO DO SO COULD RESULT IN DAMAGE TO THE INDICATOR AND/OR FAULTY OPERATION OF THE INDICATOR.
Step 3: Partially slide out the left accessory tray approximately 1/2-inch. The secondary wires do not need to be disconnected. This step is necessary to avoid any interference with accessory devices, particularly overcurrent trip switches (bell alarms), in the left accessory tray during the removal of the pop-out trip indicator.

Figure 10. Step 3

Step 4: If this is a fixed circuit breaker, skip this step and proceed directly to Step 5. If this is a drawout circuit breaker, loosen the three screws holding the secondary mounting bracket in place by one to two turns. This will allow for some bracket movement, which will simplify the removal process.

Figure 11. Step 4

Step 5: Note the small locking tab that locks the pop-out indicator into its mounted position in the mounting notch in the side plate.

Figure 12. Step 5

Step 6: It is recommended that Step 7 be read and understood before performing Step 6, since both steps are performed in a nearly simultaneous manner. Removal of the indicator at this point can be simplified through the use of two small screwdrivers, one in each hand. First push the indicator’s locking tab toward the rear of the breaker as shown. This will unlock the indicator from its mounted position. Hold the locking tab in this release position with the screwdriver.

Figure 13. Step 6

Step 7: While holding the locking tab in the pushed back (unlocked) position just described in Step 6, push the body of the trip indicator back out of its mounting notch using a small screwdriver in the other hand. The body of the trip indicator is accessed from the other side of the side plate as shown.

Figure 14. Step 7

Step 8: Once the trip indicator is released from its mounting notch, the trip indicator can be completely removed by pushing it up and out of the mounting slot with the small screwdriver in the left hand as shown in Step 7. If this is a drawout circuit breaker, removal will be simplified if you lift up on the secondary mounting bracket loosened in Step 4 to provide additional clearance for the indicator as it reaches the top of its mounting slot.

Step 9: To install a new pop-out trip indicator, follow Steps 4 through 9 of Section 2.
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