Levering mechanism assembly replacement parts kit in Magnum low voltage drawout 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) A DRAWOUT CIRCUIT BREAKER SHOULD BE REMOVED FROM ITS COMPARTMENT.
(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 levering device (mechanism) is hand operated using a standard 3/8-inch square drive and ratchet. By rotating the levering-in screw in a counterclockwise direction, the circuit breaker is moved out of its compartment. Rotating the levering-in screw in a clockwise direction moves the circuit breaker into its compartment. When the circuit breaker is levered fully to the DISCONNECT or CONNECT position, the levering shaft hits a hard stop. Do not exceed 25 ft-lbs (33 Nm) of torque for the levering mechanism.

Required tools
• 10 mm socket
• 1/4-inch socket drive
• Phillips head screwdriver (#3 recommended)

Kit parts identification
Refer to Figure 1 for visual identification of the parts listed below:
(A) Levering mechanism assembly (one)
(B) Left-side plate (one)
(C) Right-side plate (one)
(D) M6 x 65 mm hex bolt (one)
(E) M6 x 16 mm flat-head screw (six)
(F) M6 square nut (six)
(G) M6 Nyloc hex nut (one)

Figure 1. Contents of Kit
Section 2: Installation of levering mechanism assembly replacement parts

Proceed with the following 14 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:** Remove the three flat-head screws from each side plate and the right- and left-side plates. Discard the plates and all mounting hardware.

**Step 3:** Unscrew the M6 x 65 mm long hex bolt from the Nyloc hex nut that fastens the levering assembly to the mechanism side plates and discard the screw and nut.

**Step 4:** Lower the levering mechanism assembly out of its position.

**Step 5:** Replace the M6 square nuts (F), three on each side. Install with the flat face toward the outside of the breaker.

**Step 6:** Mount the left-side plate (B) with three M6 x 16 mm flat-head screws (E) to the just inserted nuts. Torque the screws to 18–22 in-lbs (2–2.5 Nm).

**Step 7:** Replace lubricant (Magnalube G or equivalent) on the turn-down surface on both ends of the shaft on the levering mechanism.
Step 8: Move the levering mechanism assembly (A) up into position while holding the tab forward as shown. Fit the left end of the shaft into the left-side plate (B). Then fit the right-side plate (C) onto the right end of the shaft. Mount the right-side plate to the square nuts (F) inserted in the housing with three M6 x 16 mm flat-head screws (E). Torque the screws to 18–22 in-lbs (2–2.5 Nm).

Figure 7. Step 8

Step 9: Fasten the levering mechanism assembly to the mechanism side plates with the M6 x 65 mm long hex bolt (D) and Nyloc hex nut (G). Torque to 75–85 in-lbs (8.4–9.5 Nm).

Step 10: Check to be certain that the tab on the levering mechanism is resting on the swing arm on the mechanism side plate (with the breaker in the OPEN and DISCHARGED condition). If not, move tab to the position shown.

Step 11: Check to be certain that the access door opens and slides freely.

Figure 8. Steps 9, 10, and 11

Step 12: Reinstall front cover removed in Step 1.

Step 13: CHARGE and CLOSE the breaker. The access door should not open.

Step 14: OPEN the breaker. The access door should be free to open.
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