Installation instructions for Series C rotary handle mechanism for G-, F-, J-, K-, L-, and MDL-Frame circuit breakers

⚠️ WARNING

DO NOT ATTEMPT TO INSTALL OR PERFORM MAINTENANCE ON EQUIPMENT WHILE IT IS ENERGIZED. DEATH, SEVERE PERSONAL INJURY, OR SUBSTANTIAL PROPERTY DAMAGE CAN RESULT FROM CONTACT WITH ENERGIZED EQUIPMENT. ALWAYS VERIFY THAT NO VOLTAGE IS PRESENT BEFORE PROCEEDING WITH THE TASK, AND ALWAYS FOLLOW GENERALLY ACCEPTED SAFETY PROCEDURES.

Introduction

Series C® rotary handle mechanism is specially designed for use with Series C, G-, F-, J-, K-, L, and MDL-Frame circuit breakers. The handle mechanism consists of an operating handle, shaft, and mechanism.

Installation

The following procedure is suitable for all frame sizes. Please use the supplied hardware to mount the handle mechanism.

Step 1
Turn circuit breaker to OFF position.

Step 2
Remove two cover fastening screws from circuit breaker (see Figure 1).

Note: This step is for K-Frame only.

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Figure 1. Remove Cover Fastening Screws from Circuit Breaker

Figure 2. G-Frame Circuit Breaker

Figure 3. F-Frame Circuit Breaker
Step 3
Mount mechanism onto the circuit breaker using the supplied hardware as shown in Figure 2 (for G-Frame breaker), Figure 3 (for F-Frame breaker), Figure 4 (for J-Frame breaker), Figure 5 (for K-Frame breaker), and Figure 6 (for L- and MDL-Frame breakers), and ensuring slide plate is engaged with the circuit breaker handle.

Figure 4. J-Frame Circuit Breaker

Figure 5. K-Frame Circuit Breaker

Note: For K-Frame, use two screws from the supplied package on the line side and two screws for the load side. For the load side, either two metric or two English/Imperial screws can be used.

Step 4
Determine where to drill the enclosure door cover per Figure 7 and the mounting position of the circuit breaker, and cut the hole in the enclose door per Figure 8.

Note: The simplest means to determine where to drill the door cover is to paint some color ink on the tip of the shaft; close the door with moderate force to mark the inside of the enclosure door with the tip of the shaft. Use this mark as the center point of the drill pattern in Figure 8. When using high performance rotary handle, please refer to handle specific installation instruction for drill pattern and cutout.
Figure 7. Dimension of the Handle Mechanism, Universal Handle Shown (Dimensions in mm)

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<th>B</th>
<th>C</th>
<th>D1</th>
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<th>E</th>
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</table>

Figure 8. Universal Handle Mounting Bolt Drilling Plan

Figure 9. Installation Handle onto Cover

Step 5

Fix the handle on the enclosure door cover (see Figure 9) and place the shaft into the pivot link on the operating mechanism. Close the enclosure door and test the function of the installed handle mechanism.
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Step 6
Check the handle mechanism function and the indication by switching the handle to ON and OFF positions.

Step 7
Turn circuit breaker to OFF and open the door. Tighten the set screw in the mechanism link.

Step 8
Close enclosure door and switch handle mechanism / circuit breaker to ON position. Check that the enclosure door cannot be opened.

Step 9
With the handle mechanism / circuit breaker in ON position, press interlock defeater with a small screwdriver and check that enclosure door can be opened. The interlock defeater is a small button located on the side of the handle.

Figure 10. Universal Handle Drill Template