Installation Instructions for Magnum Mechanism Face Plate Repair Kit

**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 REMOVED FROM ITS CASSETTE TO A SAFE WORK LOCATION.
(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 EQUIPMENT. THE SPECIFIED MAINTENANCE INTERVALS AS WELL AS THE INSTRUCTIONS FOR REPAIR AND EXCHANGE MUST BE STRICTLY ADHERED TO IN ORDER TO PREVENT INJURY TO PERSONNEL AND DAMAGE TO THE SWITCHBOARD.

**Section 1: General information**

- **Figure 1. 2A10895G01 Kit Contents**

**Required tools**
- 10 mm socket and 1/4" drive
- Small flat blade screwdriver
- Needle nose pliers
- Seal/dental pick (to remove e-clips and springs)

**Kit parts identification**
Refer to **Figure 1** (Kit 2A11895A01 for all breakers)
- (A) CHARGE/DISCHARGE flag wireform (one)
- (B) Face plate assembly (one)
- (C) CHARGE/DISCHARGE return spring (one)
- (D) "OFF" button (one)
- (E) Face plate mounting pin - bottom (one)
- (F) M4 e-clip (one)
- (G) M3.2.e-clip (one)
- (H) "ON" button (one)
- (I) Face plate mounting pin - top (one)
- (J) Button return springs (two)
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. Pull the charging handle down 45 degrees and pull the cover off of the breaker.

Figure 2. Remove Cover

Step 2: Locate the rating plug screw (Figure 3) and unscrew it using a small flat head screwdriver. The screw is located behind the rating plug door. Insert the screwdriver underneath the left side of the door and gently pry it open.

Step 3: Disconnect the trip unit by lifting the clips on the top and bottom of the trip unit and pulling the trip unit off of the breaker.

Section 2: Face plate removal

Proceed with the following four steps:

Step 1. Remove the M3.2 e-clip (G) and pull the charging handle down. Remove the mounting pin (I). Refer to Figure 4.

Figure 4. Removal of bottom mounting pin

Step 2: Remove the M4 e-clip (F) that is located on the side of the face plate mounting pin (I) closest to the handle. Next, remove the mounting pin (I). Be aware of three springs becoming disconnected from the pin (I) upon removal of the pin. Refer to Figure 4 for the location of the clips. Refer to Figure 5 for the pin location and Figure 6 for the location of the springs.

Note: Push the mounting pin (I) through the hole on the right side of the face plate while slightly twisting the plastic face plate. Connect the springs to the pin and align it with the holes. If done correctly, the new pin (I) will replace the old pin by pushing it toward the charging handle and out of the assembly.

Figure 5. Removal of top mounting pin
Section 3: Face plate installation
Proceed with the following four steps:

Step 1: To install the new face plate, perform Steps 1-2 of Section 2 in reverse. Please make a note of the spring mounting positions in Figure 6.

Step 2: Install the wireform (A) onto the face plate assembly (B) by snapping the wire into the plastic bosses and lining up the "Charge/Discharge" flag boss.

Step 3: When installing the face plate, make sure that the flag driver is straddling the wire form on the face plate assembly (B).

Step 4: Install the top and bottom mounting pins (I and E).

Step 5: Install the "Charge/Discharge" flag spring (C) into the top hole of the wireform and onto the pin (I).

Note: Insert the pin (I) into the mounting hole on the left side (near the charging handle) of the face plate. Connect the springs to the pin and align it with the holes.

Section 4: Functional tests
Perform the following tests before the trip unit is installed and the cover is reattached.

1. Once the parts are installed, charge and close the breaker. Confirm that the "OPEN/CLOSE" flag changes.
2. Open the breaker. Confirm that the flag changes to "OPEN".

Section 5: Reattach front cover and trip unit
1. Perform Steps 1-3 of Section 1 in reverse to reattach the front cover and trip unit.
Disclaimer of warranties and limitation of liability

The information, recommendations, descriptions, and safety notations in this document are based on Eaton Corporation’s (“Eaton”) experience and judgment, and may not cover all contingencies. If further information is required, an Eaton sales office should be consulted.

Sale of the product shown in this literature is subject to the terms and conditions outlined in appropriate Eaton selling policies or other contractual agreement between Eaton and the purchaser.

THERE ARE NO UNDERSTANDINGS, AGREEMENTS, WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY, OTHER THAN THOSE SPECIFICALLY SET OUT IN ANY EXISTING CONTRACT BETWEEN THE PARTIES. ANY SUCH CONTRACT STATES THE ENTIRE OBLIGATION OF EATON. THE CONTENTS OF THIS DOCUMENT SHALL NOT BECOME PART OF OR MODIFY ANY CONTRACT BETWEEN THE PARTIES.

In no event will Eaton be responsible to the purchaser or user in contract, in tort (including negligence), strict liability, or otherwise for any special, indirect, incidental, or consequential damage or loss whatsoever, including but not limited to damage or loss of use of equipment, plant or power system, cost of capital, loss of power, additional expenses in the use of existing power facilities, or claims against the purchaser or user by its customers resulting from the use of the information, recommendations, and descriptions contained herein.

The information contained in this manual is subject to change without notice.