Installation and Removal Instructions for Series NRX Fixed Breaker Arc Hood

Instructions apply to:

![Type NF Frame Series NRX](image)

**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.

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**Section 1: General information**

The arc hood on a Series NRX™ fixed circuit breaker is positioned over the breaker’s arc chambers. It is used primarily to direct arc gas discharge (Figure 1). An arc hood is used on all fixed circuit breakers, whether they are configured for front or rear connection (Figure 1).

![Mounted Arc Hood](image)
Section 2: Arc hood installation

The arc hood pieces supplied fit together easily and accurately. To assemble and install the arc hood, proceed with the following 12 steps:

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

![Figure 2. Step 1](image1)

**Step 2:** Remove the front cover. Pull down on the charging handle to simplify removal.

![Figure 3. Step 2](image2)

**Step 3:** Remove the three mounting bolts holding the secondary mounting bracket in place along with any mounted secondary blocks. This will allow the secondary mounting bracket to be moved out of the way permitting the first part of the arc hood to be installed.

![Figure 4. Step 3](image3)

**Step 4:** Become familiar with the top portion of the fixed breaker where the arc hood will be mounted. T-shaped molded guides located on top and between the arc chambers are key to the installation. These T-shaped guides ensure accurate placement and assembly of the arc hood pieces.

![Figure 5. Step 4](image4)

**Step 5:** Position part “A” as shown starting from the front of the breaker so the two guides located on the bottom of part “A” mate with the T-shaped guides on the breaker shown in Step 4. Slide part “A” toward the rear of the breaker, ensuring that part “A” totally engages the two guides on the breaker.

**Note:** Part “A” is shown as being transparent only for clarity purposes.
Step 6: Remount the secondary mounting bracket removed in Step 3 using the three mounting screws. Hand tighten the mounting screws.

Step 7: Once the secondary mounting bracket is securely mounted, slide part “A” forward as far as it will go up against the back of the secondary mounting bracket.

Step 8: Position part “B” as shown so the two guides located on the bottom of part “B” mate with the same T-shaped guides on the breaker shown in Step 4. Slide part “B” forward until it meets with and is up against part “A.”

Step 9: Slide the three part “C” baffles (four for four-pole) all the way into the slots provided in part “B” of Step 8 as shown. Make certain that the baffle vent holes are oriented as shown.

Step 10: Position the front of the arc chamber, part “D,” as shown in front of part “B” so that the mounting holes in each part match to accommodate two provided mounting screws.

Step 11: Hand tighten the supplied mounting screws as shown to complete the arc hood installation.
Step 12: Replace the front cover, and secure it in place with the mounting screws previously removed in Step 1.

Section 3: Arc hood removal
To disassemble and remove the arc hood from a fixed circuit breaker, reverse the procedure just described in Section 2.
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