



Spectra Series™ Power Panelboards

Circuit Breakers and Modules



WARNING: Danger of electrical shock or injury. Turn OFF power ahead of the panelboard or switchboard before working inside the equipment or removing any component. Do not remove circuit protective devices or any other component until the power is turned OFF.

General

These instructions apply to the following catalog numbers:

- Circuit breaker modules AMC6EB, AMC4EB, AMC6EL, AMC6EBS, AMC4EBS, and AMC4SE
- Circuit breaker frames TEB, TED, THED, TEL, SEDA, SEHA, SELA, and SEPA

Installation

- 1. Phase balancing for two-pole devices on three-phase systems.** To balance the panelboard load, remove the screws on the appropriate bus clip, reposition the bus clip as shown in Figure 1, then install and tighten the screws to 27–32 in-lb.

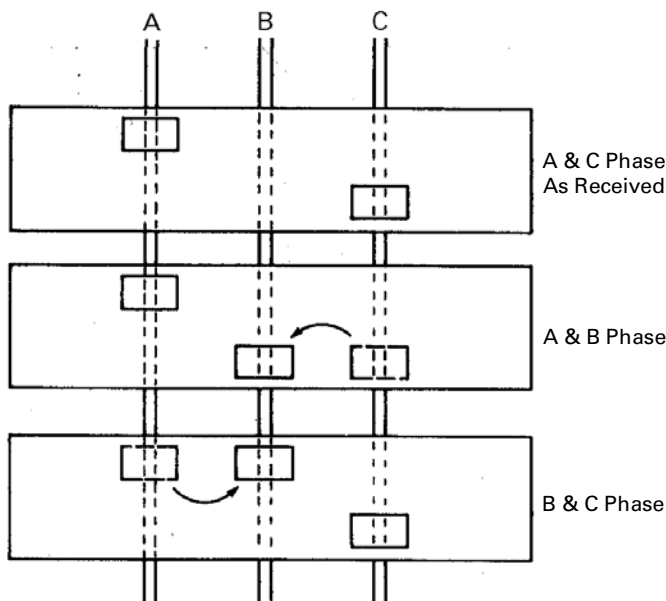


Figure 1. Repositioning the bus clip to balance the load.

- 2. Prepare the module.** Remove the protective caps or insulating tape only from the tops of the stud posts to which the circuit breaker is to be attached, as shown in Figure 2. Fasten the filler supports, as shown in Figure 3, with #10-32 x 3/4" hex-head screws tightened to 15–20 in-lb.

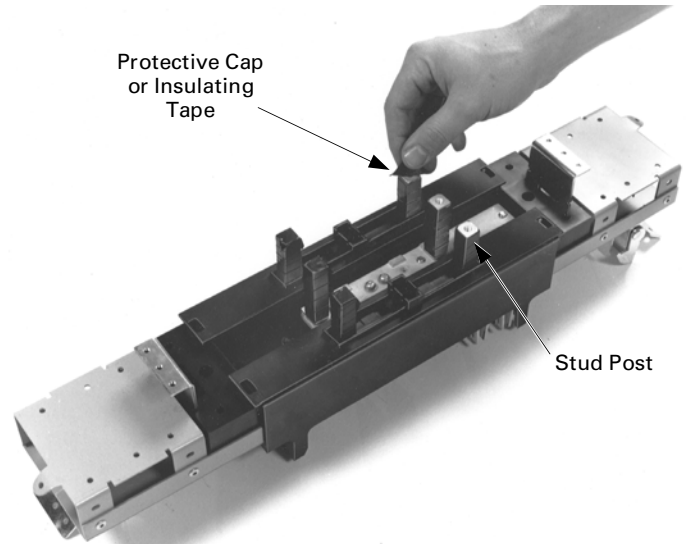


Figure 2. Removing the cap or tape from the stud posts of the breaker module.

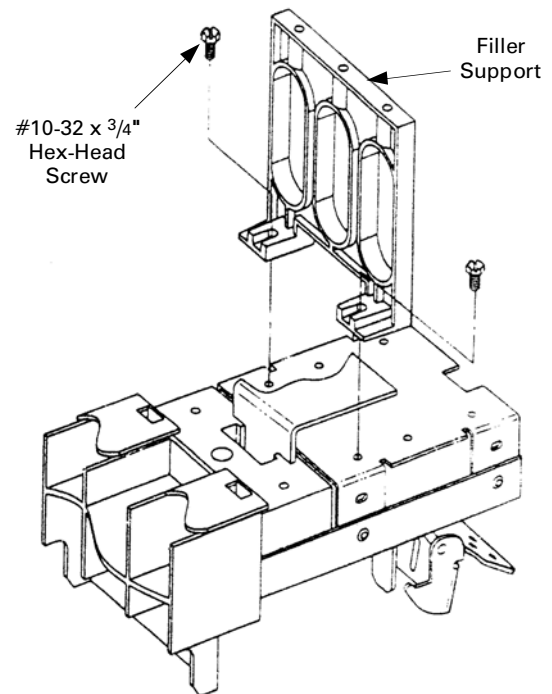


Figure 3. Attaching the filler breaker module.

- 3. Install the circuit breaker.** Remove the lug cover, if present. Place the ON side of the breaker over the stud posts, as shown in Figure 4. Secure the breaker to the module with #10-32 screw and washer assemblies and #8-32 x 2 3/4" screws with cup washers. After all screws are in place, tighten the #10-32 screws to 27–32 in-lb and the #8-32 screws to 15–20 in-lb. Replace the lug cover, if present.

For double-branch devices, repeat this procedure for the second breaker. Combinations of circuit breaker types TEB, TED, THED, SEDA, SEHA, SELA, or SEPA may be used. Breaker type TEL may be used only with a breaker of like type.

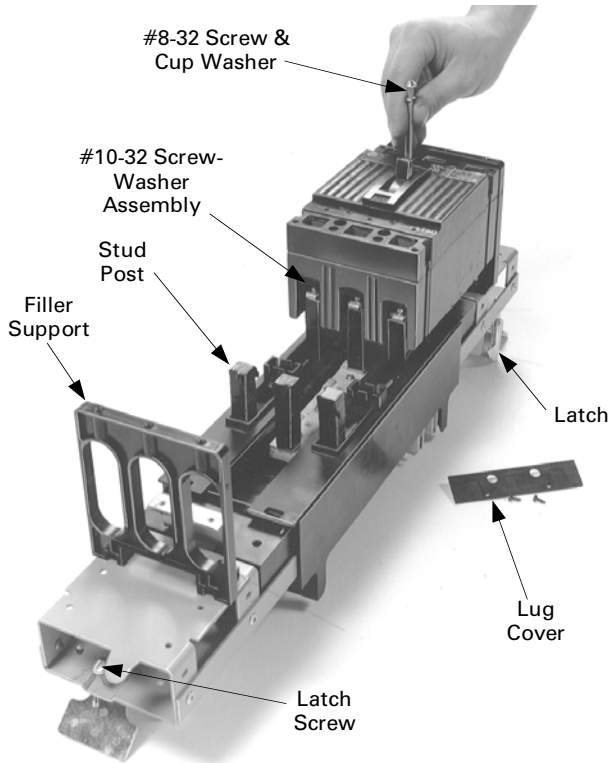


Figure 4. Installing the breaker on the module.

4. Position the breaker module. Loosen the latch lock screws and fully retract the latches, as shown in Figure 5. Line up the guide fingers on both ends of the rails with the notches in the panelboard interior rails. Allow no space between units.

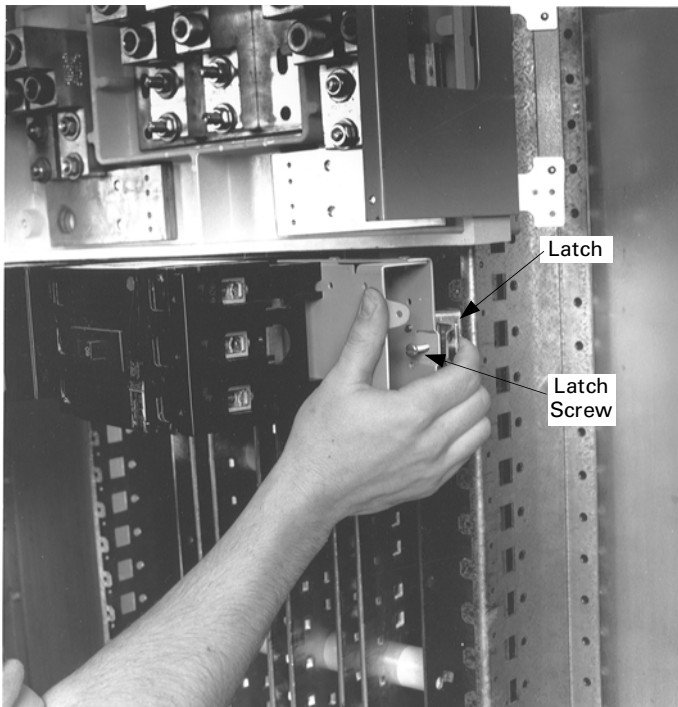


Figure 5. Positioning the breaker module.

5. Install the module. Latch one side of the circuit breaker module. Release the rail latch. Pivot the module onto the bus bars and engage the second latch. Release the rail latch. Tighten the rail latch screws to 25 in-lb, as shown in Figure 6.

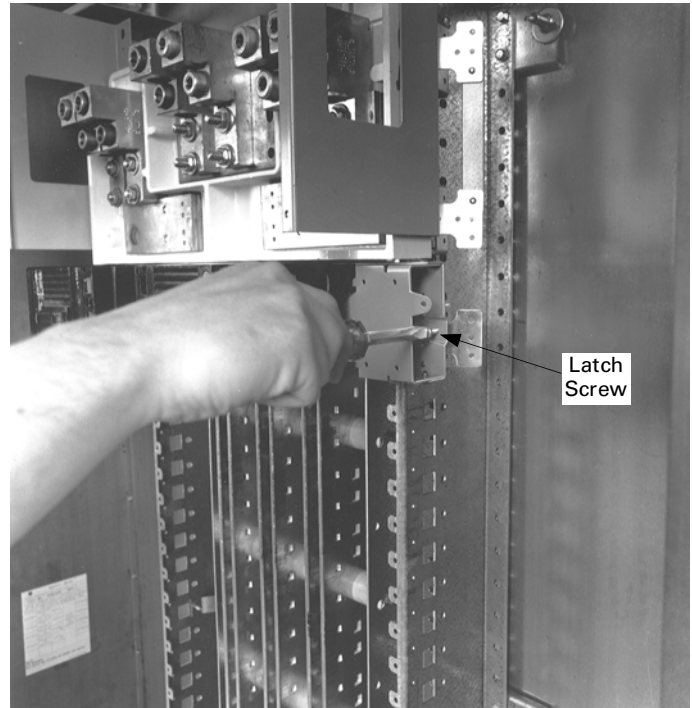


Figure 6. Installing the breaker module.

6. Wire the circuits. Refer to the label on the circuit breaker for the proper tightening torque.

7. Filler plate kits. Install the appropriate filler plate kits, as listed in Table 1.

Filler Plate Cat. No.	Module Type
AFP3SED	AMC6EB AMC4SE
AFP2TED	AMC4EB
AFP4SED	AMC6EBS AMC4EBS
AFP3ELD	AMC6EL

Table 1. Filler plate kit for each breaker module type.

Attention – Procedure for Aluminum Terminations

- Strip the insulation, being careful to not nick the wire.
- Clean the wire strands with a wire brush.
- Thoroughly coat the stripped conductor with a suitable antioxidant compound, such as ALNOX or PENETROX A13.
- Insert the conductor and tighten the connector screw to the indicated torque, as indicated on the rating label.

These instructions do not cover all details or variations in equipment nor do they provide for every possible contingency that may be met in connection with installation, operation, or maintenance. Should further information be desired or should particular problems arise that are not covered sufficiently for the purchaser's purposes, the matter should be referred to the GE Company.



GE Industrial Systems