



# Spectra Series™ Power Panelboards

## Circuit Breaker Mounting Hardware Kits



**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 circuit breaker mounting hardware kits with catalog numbers AHKE1, AHKEL1, AHKF1, AHKG1, AHKJ1, AHKLB1, and AHKQ1.

### Installation

- 1. Prepare the module.** Remove the side trim and filler plate from the new circuit breaker position, as shown in Figure 1. Remove the protective caps or insulating tape from the tops of the line end posts and discard.
- 2. Install the circuit breaker.** Remove the lug cover(s) on the circuit breaker, if present, but *do not* discard. Place the ON side of the breaker over the stud posts and resting on the load-end mounting bracket. Tighten the line- and load-end mounting screws according to Table 1. Replace the lug cover(s) on the circuit breaker.



**NOTE:** On J-Frame breakers only, the line-mounting screws are replaced with 5/16-18 nut-washer assemblies.

- 3. Wiring the circuits.** Refer to the rating label on the circuit breaker for the proper tightening torque levels.
- 4. Reinstall the filler plate and side trim.** Remove the breaker plug cap(s) from the filler plate and reinstall on the module. Reinstall the side trim plate(s).

### 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 torque indicated on the rating label.

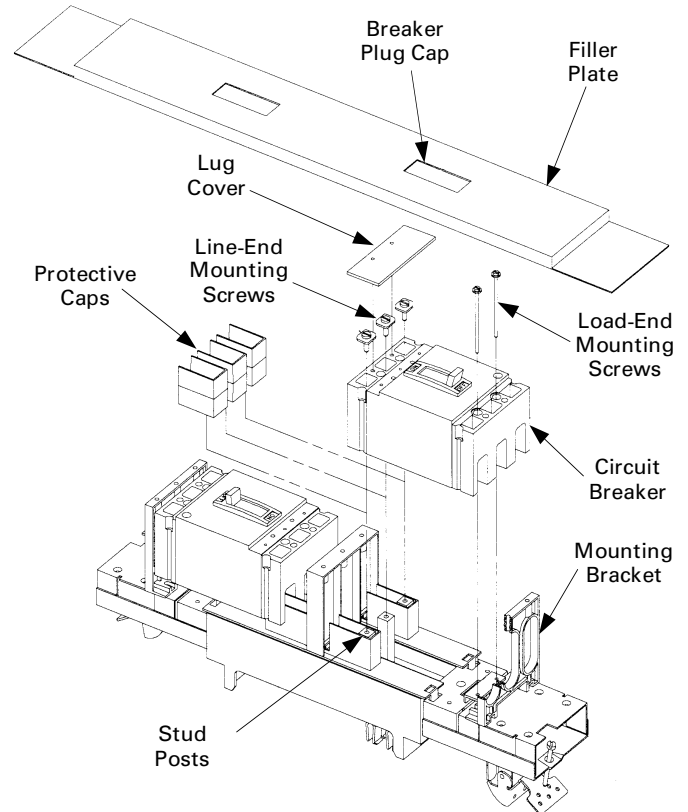


Figure 1. Typical circuit breaker module. (Your specific module configuration may not appear as shown.)

Cat. No.	Line-End Mtg. Screw	Torque (in.-lbs.)	Load-End Mtg. Screw	Torque (in.-lbs.)
	Description		Description	
AHKE1	#10-32 x 1/2" pan head	27-32	#8-32 x 2 3/4" round head	16-20
AHKEL1			#8-32 x 2 1/2" round head	
AHKF1	1/4-20 x 3/4" hex head	40-50	#10-32 x 3 3/4" pan head	27-32
AHKG1	5/16-18 x 1" hex head	70-110	#10-32 x 3" round head	
AHKJ1	5/16-18 hex nut		1/4-20 x 1 1/2" round head	40-50
AHKLB1	1/4-20 x 1" socket head	40-50	#10-32 x 2 3/4" pan head	27-32
AHKQ1	1/4-20 x 3/4" round head		#10-32 x 2 3/4" round head	

Table 1. Tightening torque levels for the mounting screws in the hardware kits.

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.



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