



Spectra Series™ Power Panelboards

Bolt-On Circuit Breaker Kits

Application

This instructions applies to bolt-on circuit breaker kits with catalog numbers AMCB3KM and AMCB2KM.

For use with circuit breaker types SKH, SKL, SKP, TKM, and THKM.

For use with circuit breaker cover kit AFP6SKS.

Installation



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. Equipment is to be installed and maintained by properly trained and qualified personnel only.

In the following instructions, numbers in brackets in the text and figures refer to the items in Table 1.

- 1. Confirm the contents of the kit.** These kits are used to install Spectra K-frame main circuit breakers into Spectra APNB bolt-on-style interiors. The parts included in these kits are listed in Table 1.

Item	Description	Qty. in AMCB2KM	Qty. in AMCB3KM
1	A pole strap assembly	1	1
2	Carriage bolt, 1/4-20 x 1 1/2"	4	6
3	Conical spring washer, 1/4"	4	6
4	Nut, 1/4-20	4	6
5	B pole strap assembly	1	1
6	C pole strap assembly	1	1
7	Breaker mounting bracket	2	2
8	Thread-forming screw	4	4
9	Conical spring washer, 3/8"	2	3
10	Nut, 3/8-16	2	3
11	Screw, 1/4-20 x 1 1/4"	4	4
12	Flat washer, 1/4"	4	4

Table 1. Parts included in kits AMCB2KM and AMCB3KM.

- 2. Locate the side of the interior with a 2.75-inch reference distance.** The circuit breaker straps are mounted on the side of the panel interior bus at which the distance from the nearest vertical bus face to the inner face of the bus-support rail is 2.75 inches, as indicated in Figure 2.

- 3. Install the circuit breaker straps.** For three-phase applications (kit AMCB3KM), align the strap assemblies [1, 5, 6] with the corresponding holes in the vertical bus, as shown in Figure 1. Fasten each strap assembly loosely to the vertical bus with two carriage bolts [2], conical washers [3], and nuts [4].

For single-phase panels, dc applications, and phase-balancing purposes (kit AMCB2KM), Table 2 lists the possible configurations. Align the appropriate strap assemblies [1, 5, 6] with the corresponding holes in the vertical bus, as shown in Figure 1. Fasten each strap assembly loosely to the vertical bus with two carriage bolts [2], conical washers [3], and nuts [4].

A Phase	B Phase	C Phase
X	X	
X*		X*
	X	X

* Use for single-phase panels and dc applications.

Table 2. Possible pole configurations with kit AMCB2KM.

- 4. Install the breaker mounting brackets.** Attach the breaker mounting brackets [7] to the panel side rails with two thread-forming screws [8] each. Tighten the screws to 35 in-lb.
- 5. Install the circuit breakers.** Position the main circuit breaker so that the strap assembly bolts extend through the holes in the load- or OFF-side terminals and the breaker base is supported by the mounting brackets. Align the holes in the breaker base with the holes in the mounting brackets. Secure the breaker to the brackets with the machine screws [11] and flat washers [12], tightened to 50 in-lb. Secure the load-side breaker terminals to the straps with conical washers [9] and nuts [10]. Tighten the connections to 275 in-lb. Note that the straps may require minor adjustments for proper hole alignment.
- 6. Tighten the strap connections.** Tighten the bolted strap connections at the vertical bus to 65 in-lb. It may be necessary to remove adjacent circuit breaker modules to allow access to the bolted connections at the vertical bus.

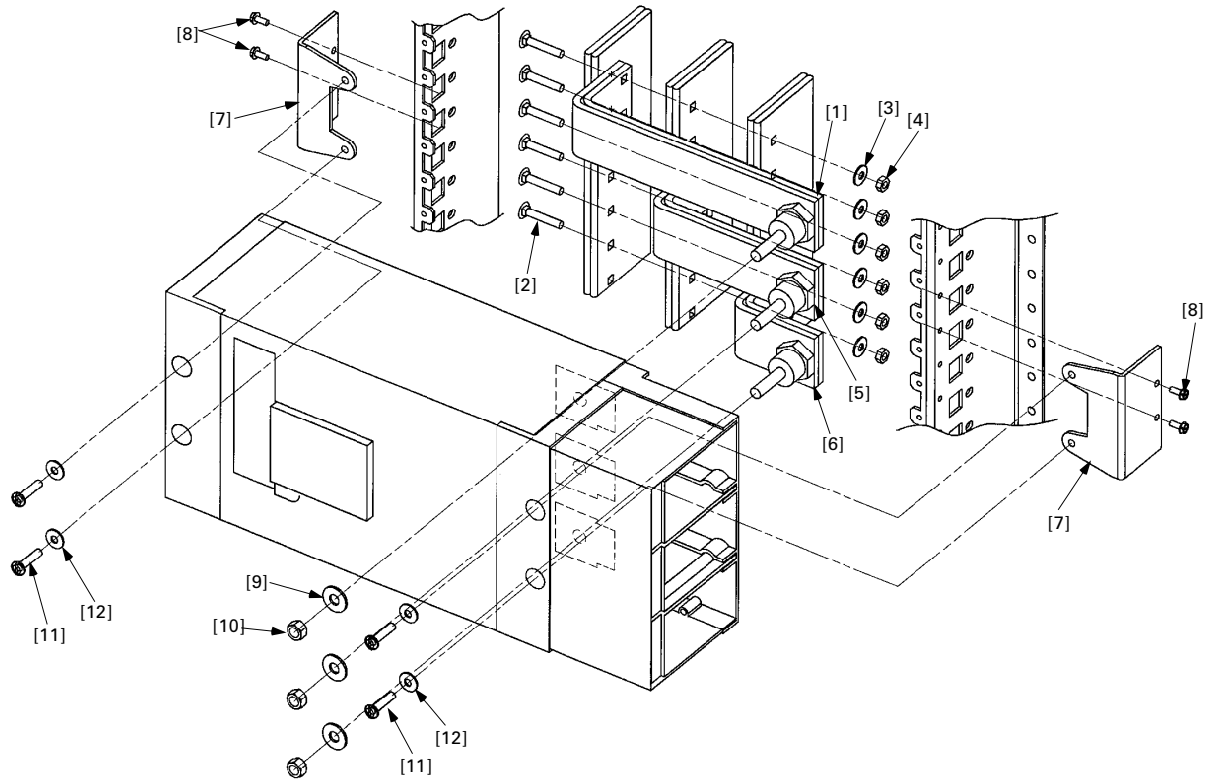


Figure 1. Mounting a K frame bolt-on circuit breaker, exploded assembly view.

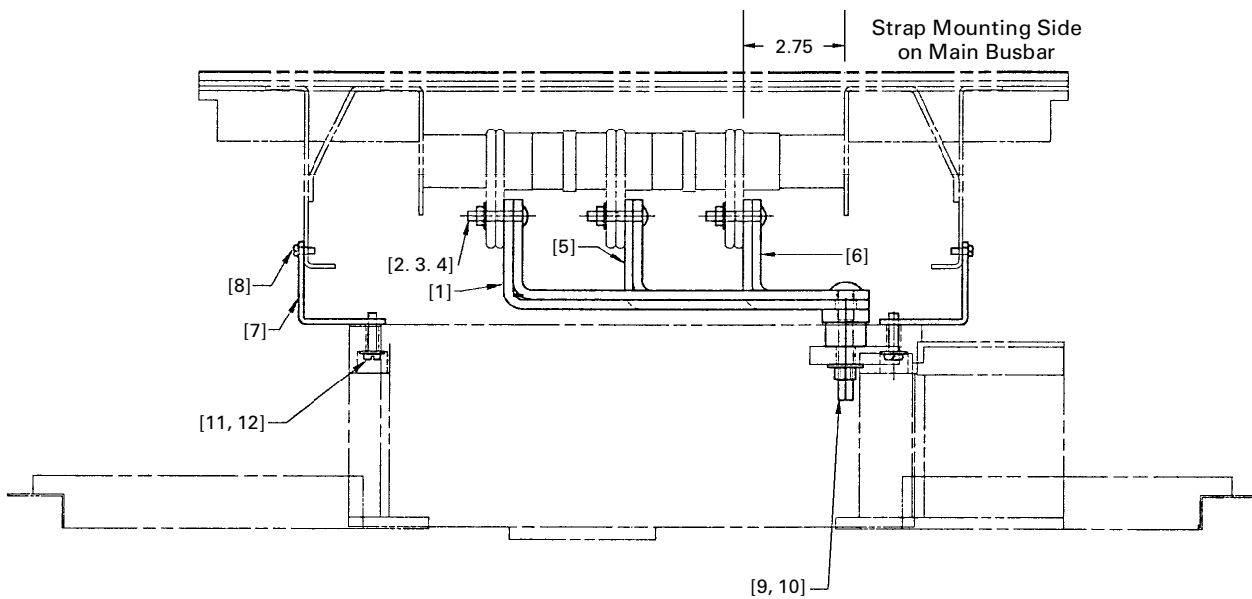


Figure 2. Mounting a K frame bolt-on circuit breaker, assembly end view.

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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