



Spectra Series™ Power Panelboards

Type AMB Main Lug Kit

Application

These instructions apply to main lug kits with the following catalog numbers:

AMB2600MA	AMB3600MA	AMB2600MC
AMB3600MC	AMB2120MA	AMB3120MA
AMB2120MA	AMB3120MC	AMB2120DMC
AMB3120DMC	AMB2120DMA	AMB3120DMA

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.

1. **Orient the lug base** with the lug wire holes facing the end of the box marked LINE. For catalog numbers AMB2120MA, AMB3120MA, AMB2120MC, AMB3120MC, AMB2120DMC, AMB3120DMC, AMB2120DMA, and AMB3120DMA, feed the lug tangs through the support, as shown in Figure 1. Catalog numbers AMB2600MA, AMB3600MA, AMB2600MC, and AMB3600MC do not contain this support.



CAUTION: Failure to properly insert the lug tang in the support for the required kits will cause destructive behavior during short-circuit conditions.

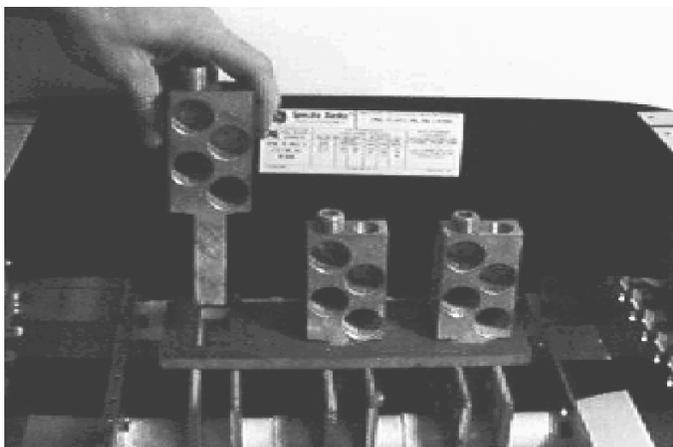


Figure 1. Lug tang inserted into the support.

2. **Locate the mounting position.** For Spectra APNB bolt-on style interiors, locate the side of the panelboard interior in which the dimension from the nearest bus face to the inner face of the bus support rail is 2.75 inches, as shown in Figure 2. Lug tangs will be mounted on this side of each phase of the bus.

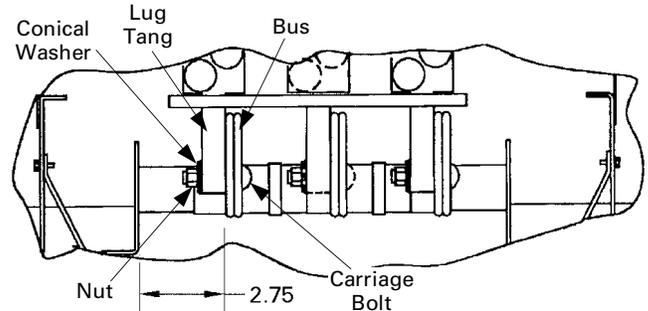


Figure 2. Lug tang position relative to the bus bars of a Spectra APNB bolt-on interior.

For Spectra APN plug-in style interiors, the lug tangs are positioned between the buses for each phase, as shown in Figure 3. For Spectra APN interiors, rated at 600 A or less, the lug tangs are positioned as described above for Spectra APNB interiors.

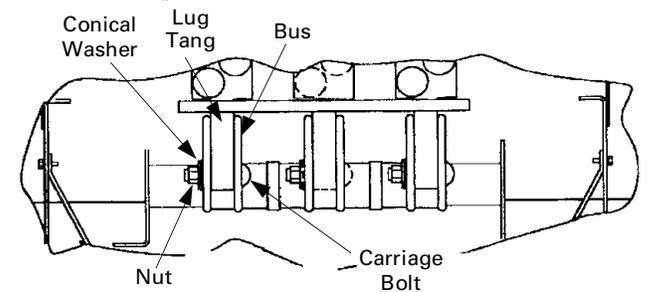


Figure 3. Lug tang position relative to the bus bars of a Spectra APN plug-in interior.



WARNING: Positioning the lugs correctly relative to the bus bars is crucial to product safety and if installed improperly will result in electrical shock or injury.

3. **Align the mounting holes.** Align the lug tang mounting holes with the first and second bus holes from the box end stamped LINE on the rear row of holes, as shown in Figure 4.

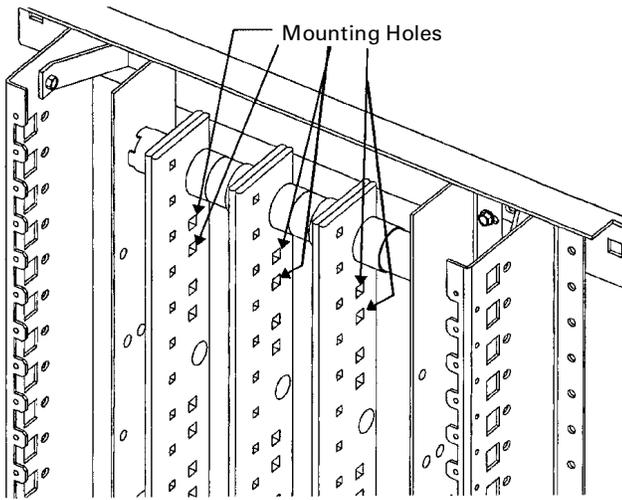


Figure 4. Bus bar mounting holes.

4. **Fasten lugs to the bus.** Fasten the lug tangs to the bus using a carriage bolt, flat washer, Belleville washer, and nut, making certain that the carriage bolt is fed through the bus first, as shown in Figures 2 and 3. Tighten these bolted connections to 200–250 in.-lb.
5. **Install the wire barriers.** Position the upper edge of the wire barriers flush with the panel side rails or Z rails, as shown in Figure 5. Fasten the wire barriers to the panel side rails or Z rails using the thread-forming screws supplied.

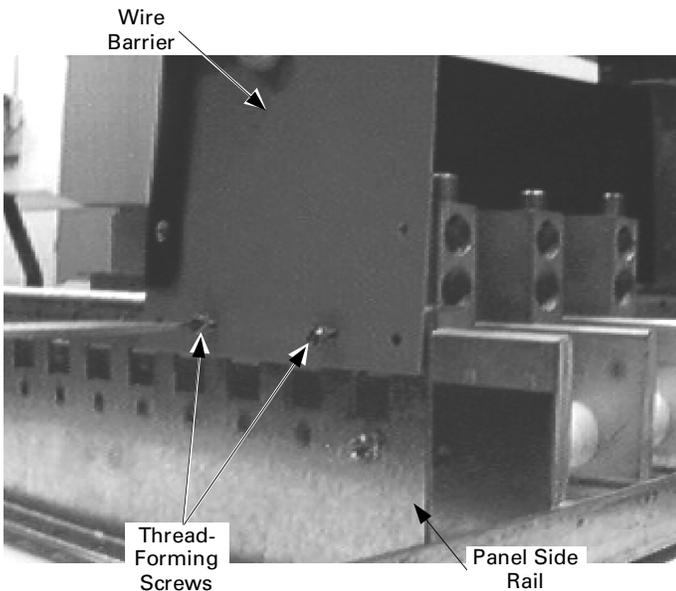


Figure 5. Installing the wire barriers.

6. **Wire the lugs** using the conductor sizes and tightening torques listed in Table 1.

Lug Part No.	Torque, in.-lb.	Wire Size (# of wires)
252B3638G9-10	375	8-500 kcmil (1) #2/0-600 kcmil (1)
252B3638G1-2	450	2/0-600 kcmil (4)
252B3638G3-8	450	2/0-600 kcmil (8)
GEA2-750	475	3/0-750 kcmil (2)

Table 1. Recommended tightening torque and wire sizes.

7. **Install the cover.** Lug kits whose catalog numbers have an F suffix include AFPML cover plates. Covers are included for the following box sizes: 27" and 31" wide, 36" and 40" wide, and 44" wide. Choose the appropriate cover for the box to be used.

Attach the cover to the barriers in four places with the screws and nut fasteners provided, as shown in Figure 6. Tighten the screws to 25–30 in.-lb.

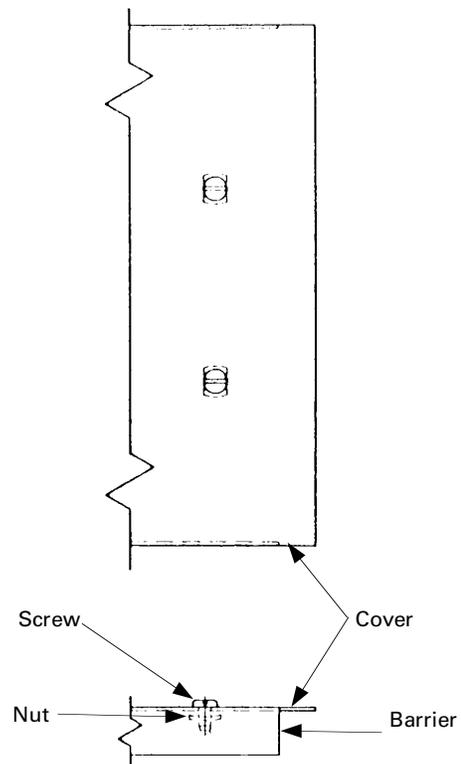


Figure 6. Installing the cover.

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

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