



Spectra Series™ Power Panelboards

Bolt-On Main Lug Kits

Application

These instructions apply to main lug kits with the following catalog numbers. An “F” suffix indicates that the kit includes all cover plates.

- AMB2120N(F) AMB3120N(F) AMB2120DN(F)
- AMB3120DN(F) AMB2250CA(F) AMB3250CA(F)
- AMB2600CA(F) AMB3600CA(F) AMB2800CA(F)
- AMB3800CA(F) AMB2120CA(F) AMB3120CA(F)
- AMB2250DCA(F) AMB3250DCA(F) AMB2600DCA(F)
- AMB3600DCA(F) AMB2800DCA(F) AMB3800DCA(F)
- AMB2120DCA(F) AMB3120DCA(F)

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 stamped **LINE** or toward the line side of the interior, as illustrated in Figure 1.

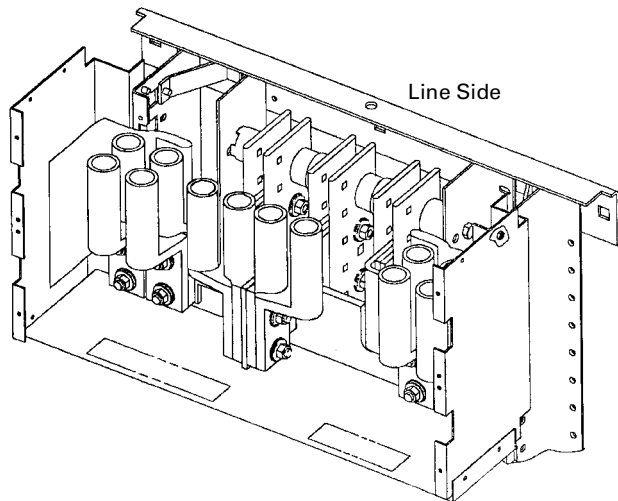


Figure 1. Lug assembly orientation.

- 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. The lug straps will be mounted on this side of each phase of the bus.

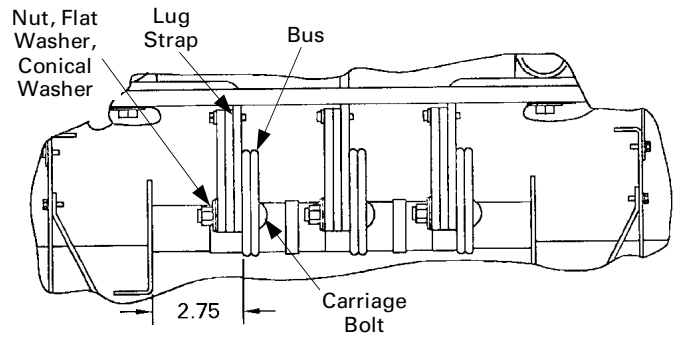


Figure 2. Lug strap positions relative to the bus bars of a Spectra APNB bolt-on interior.

For Spectra APN plug-in style interiors, the lug straps 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.

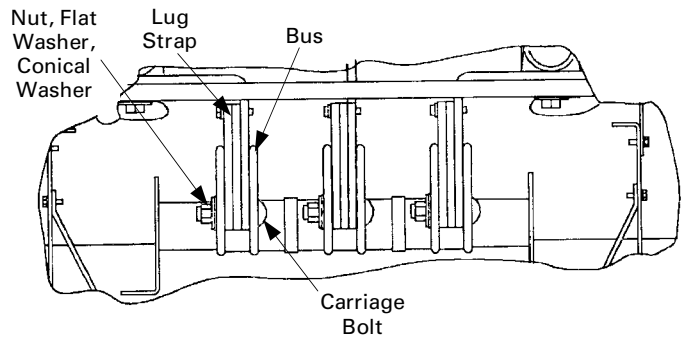


Figure 3. Lug strap positions relative to the bus bars of a Spectra APN plug-in interior.

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

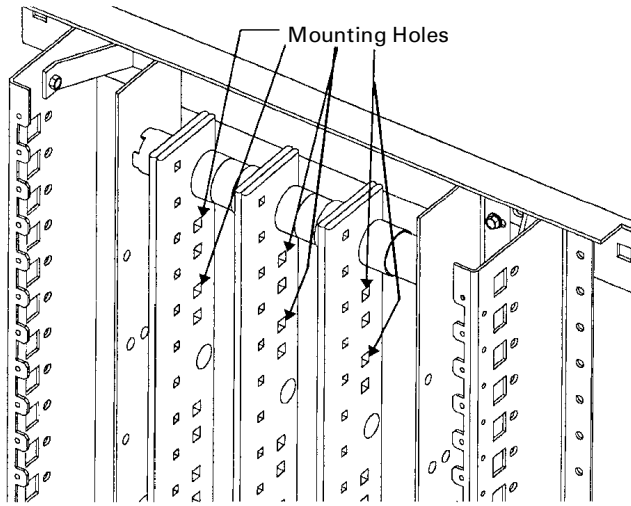


Figure 4. Bus bar mounting holes.

4. Fasten the lug straps to the bus using a carriage bolt, flat washer, Belleville washer, and nut, as shown in Figures 2 and 3. Tighten these bolted connections to 200–250 in.-lb.

5. Install the wire barriers. Position the wire barriers so that the second and fourth holes from the top of the wire barrier align with the first and fourth holes of the panel side rails or Z rails, as shown in Figure 5. Secure the wire barriers to the panel side rails or Z rails using the thread-forming screws supplied.

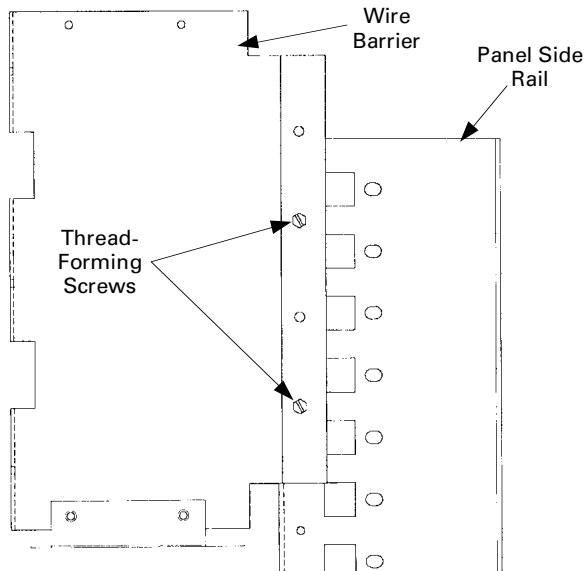


Figure 5. Wire barrier installation.

6. Wire the lugs using the conductor sizes and tightening torques listed in Table 1. If compression lugs are used, follow the tool and wire information stamped on the lugs.

| 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 cover plates. Two covers are included: one for 36"- and 40"-wide boxes and one for 44"-wide boxes. 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 Figures 6 and 7. Also use the black spacers for the style of cover shown in Figure 7. Tighten the screws to 25–30 in.-lb.

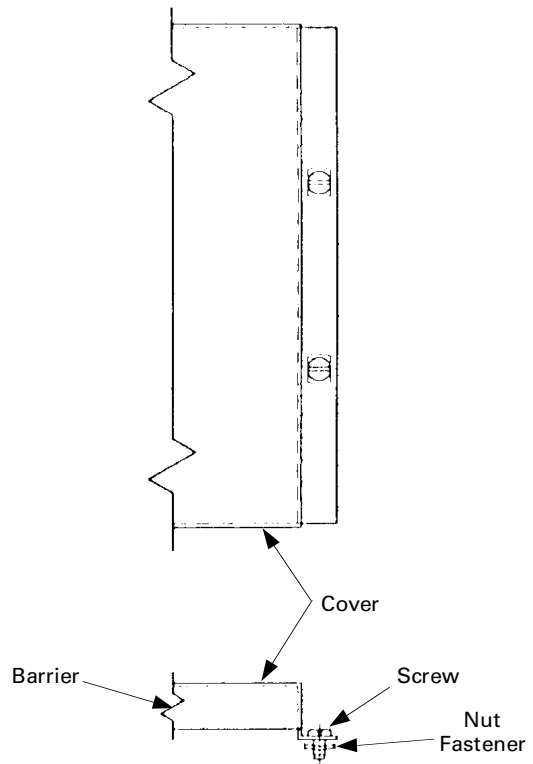


Figure 6. Installing the cover.

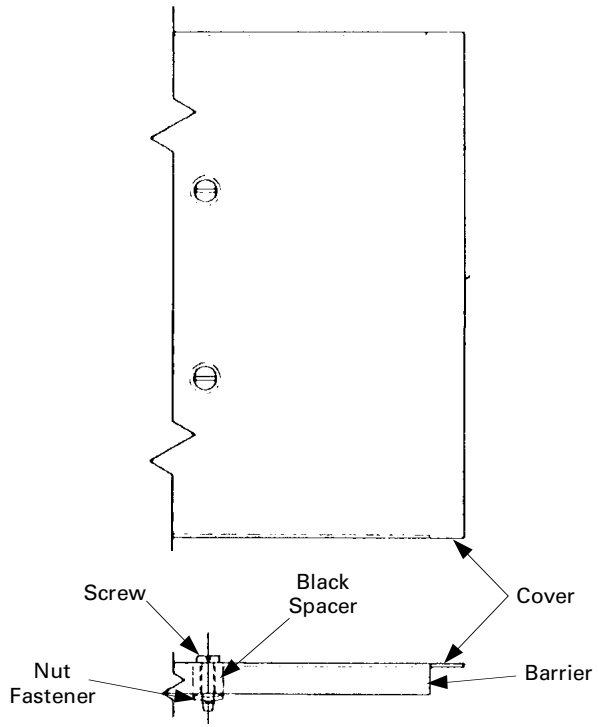


Figure 7. Installing the cover with black spacers.

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