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# Spectra Series™ Power Panelboards

*60 A/600 V, 100 A/240 V, 100 A/600 V Expansion Kits for Type ADS Fusible Switch Units*

***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.

## Installing the Expansion Kit

1. **Remove the fusible switch unit from the panelboard or switchboard.** Remove the load-side wires from the switch load-side terminal. Loosen the rail latch screws on each side of the switch unit and remove the switch by pulling up on both latch handles, as shown in Figure 1, while pulling the device from the panelboard.
2. **Prepare the enclosure.** Remove and discard the blank cover and the bottom insulator from the bottom of the device, as shown in Figure 2.
3. **Install the straps.** Install the connecting straps with the #10-32 x 1/2" mounting screws provided, as shown in Figure 3. Tighten the screws to 27–32 in-lb.

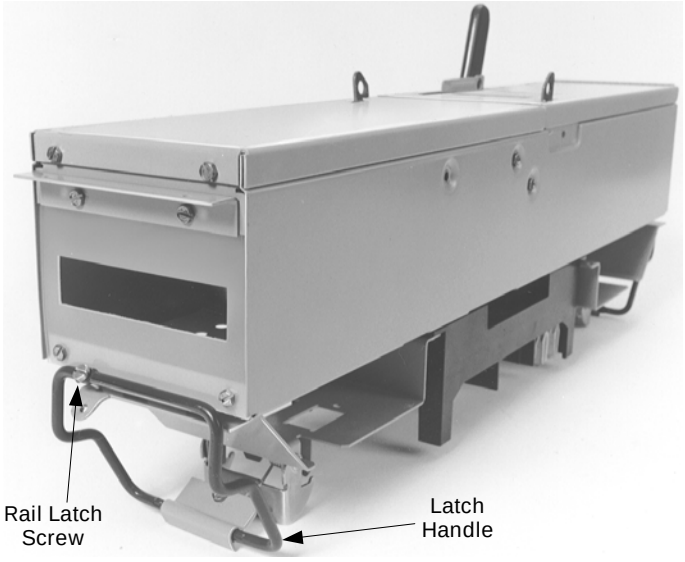


*Figure 1. Removing the fusible switch from the equipment.*

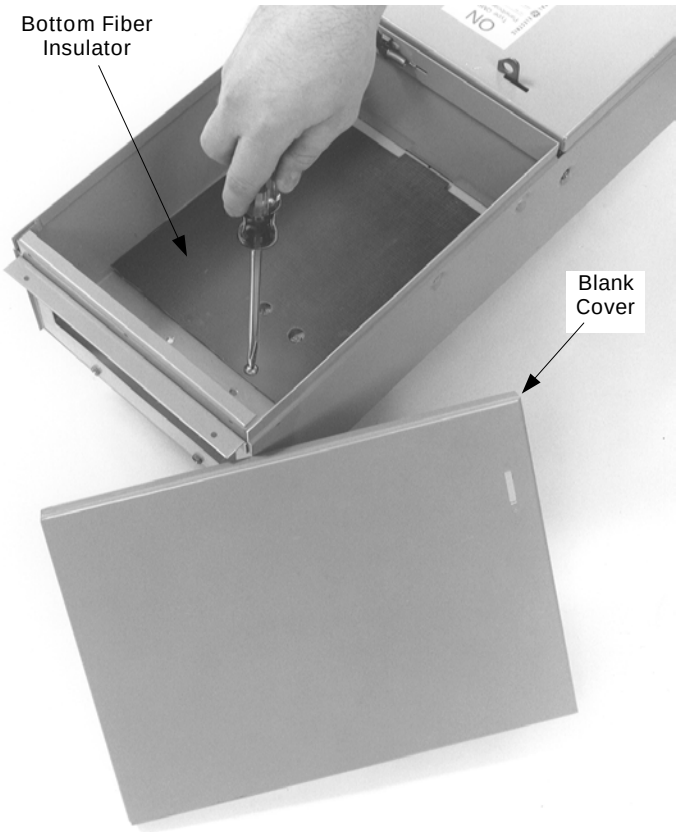


*Figure 2. Removing the blank cover and bottom insulator.*

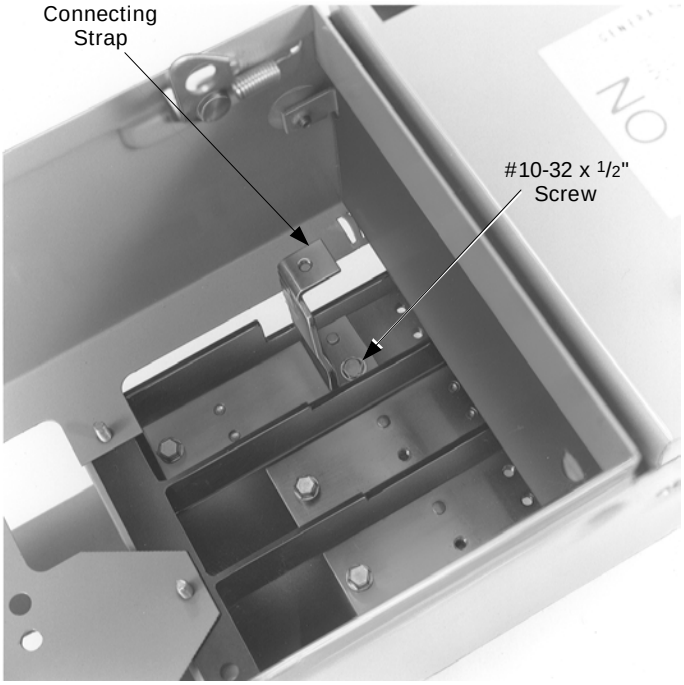


*Figure 3. Installing the connecting straps.*

4. **Prepare the switch.** Remove and save the hex nuts from the studs and red arc cover on the expansion switch. When installing a 60- or 100-ampere, 600-volt expansion switch, you must bend the expansion switch unit 10 to 15 degrees, as shown in Figure 4.

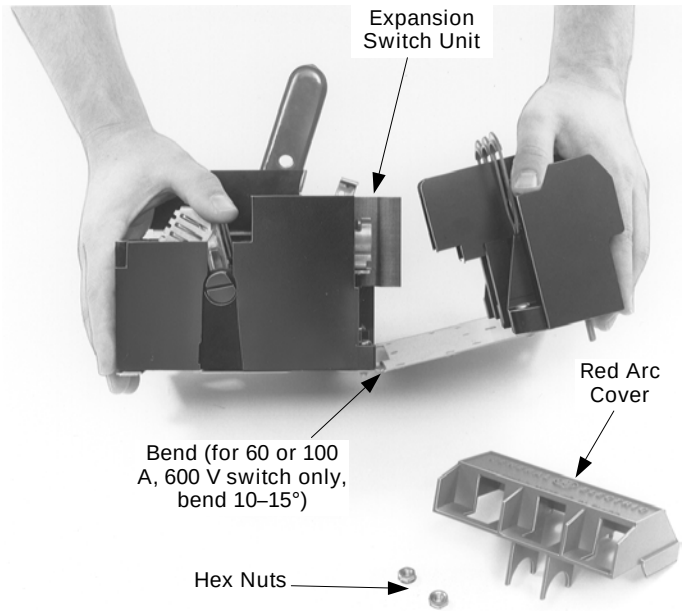


*Figure 4. Preparing the switch for installation.*

5. **Install the kit.** Position the load side of the expansion plate down into the enclosure, then place the switch base over the connecting straps, as shown in Figure 5. Replace the hex nuts on the plate studs and tighten to 27–32 in-lb.

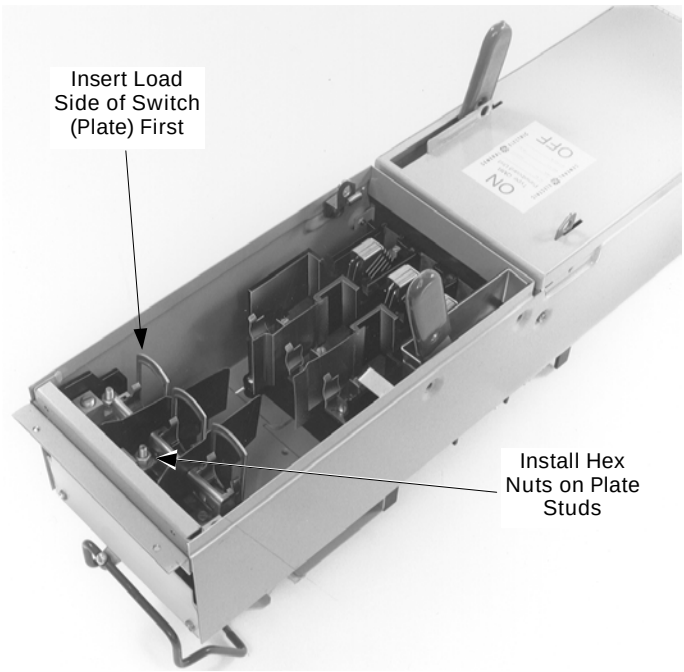


*Figure 5. Install the expansion switch into the enclosure.*

6. **Make the electrical connections.** Install #10-32 screws with washers into the connecting straps inside the switch base, as shown in Figure 6, and tighten the screws to 27–32 in-lb. Replace the red arc cover onto the switch and tighten the screws to 9–11 in-lb.


*Figure 6. Making the electrical connections.*

7. **Install the screws.** Tighten the switch base screw to 27–32 in-lb, as shown in Figure 7. Install the #10-32 x 1/4" handle assembly mounting screws into the mechanism shroud mounting holes and tighten to 27–32 in-lb.

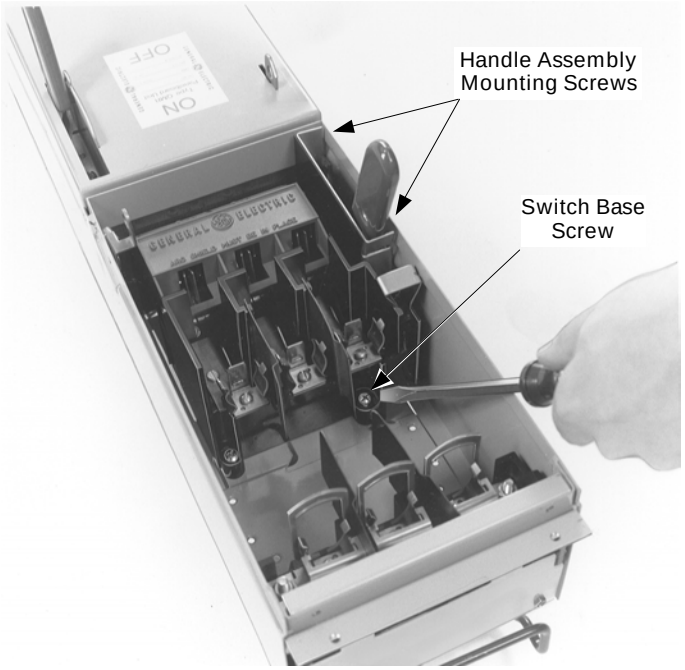


*Figure 7. Installing the handle mounting screws.*

8. **Install the cover.** Position the new enclosure cover in place on the enclosure, as shown in Figure 8, and secure to the hinge with #10-32 x 1/4" screws tightened to 27–32 in-lb. Reinstall the fusible switch unit and secure it to the rail locking screws.

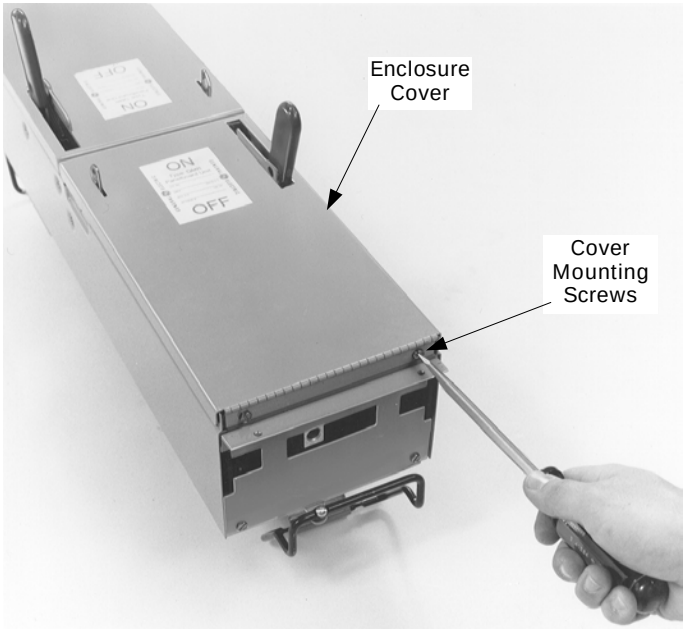


*Figure 8. Installing the cover on the enclosure.*

## *For Two-Pole Devices on Three-Phase Systems Only*

To balance the panelboard load, remove the screws on the appropriate bus clip, reposition the bus clip as shown in Figure 9, then install and tighten the screws to 27–32 in-lb.

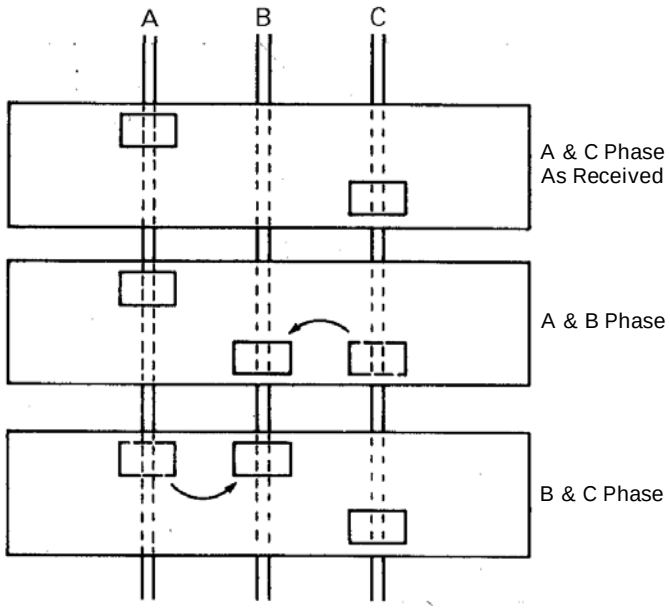


*Figure 9. Repositioning the bus clip to balance the load.*

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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