

## Load Bus (kit PA–274690)



### **⚠ WARNING**

**Hazardous voltage can cause death or severe injury.** Install this kit before connecting the generator to the planned system. Make sure that starting battery(ies) is not connected to the generator set, while installing kit. Disconnect battery negative (–) lead first, and reconnect it last.

This kit provides load bus bars for 80RZ/ROZ, and 100RZ/ROZ generator sets. See the following illustrations for reference in installing the kit. Use one of the three following terminal lug kits, selection depending on size of cables to be connected to the bus bars.

| Cable Size   | Terminal Lug Kit | Cables per Lug | Terminal Lug No. | Attaching Hardware                                            |
|--------------|------------------|----------------|------------------|---------------------------------------------------------------|
| 350 MCM – 06 | 274694           | 1              | X–6207–8 (4)     | X–6238–4 (4), 275471 (4), X–83–2 (4), X–22–1 (4), X–25–18 (8) |
| 350 MCM – 06 | 274696           | 1              | X–6207–8 (8)     | X–6238–4 (8), 275469 (4), X–83–2 (8), X–22–1 (8), X–25–18 (8) |
|              |                  |                |                  |                                                               |

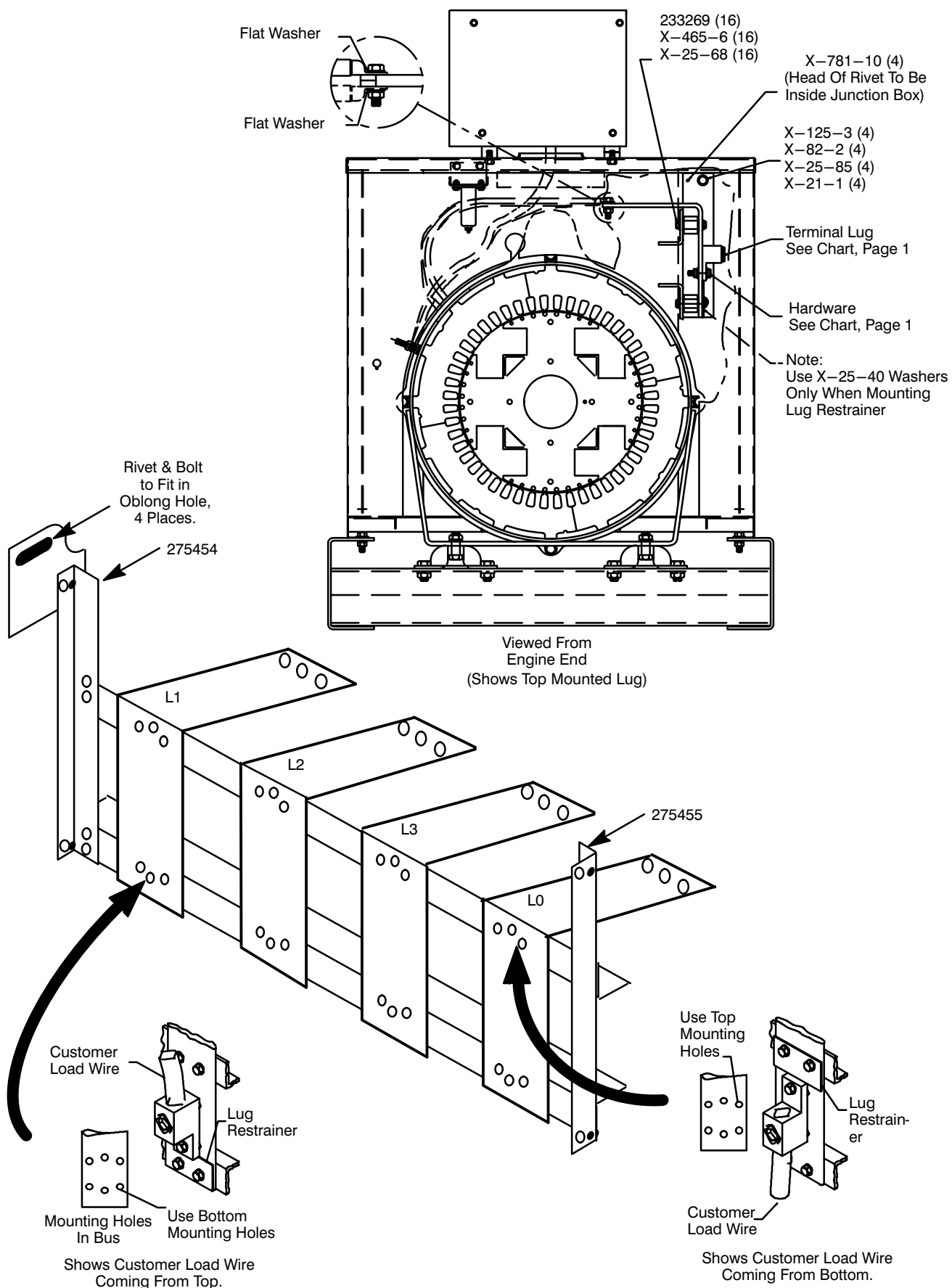
### Lug Kit Selection

#### Installation

##### Note:

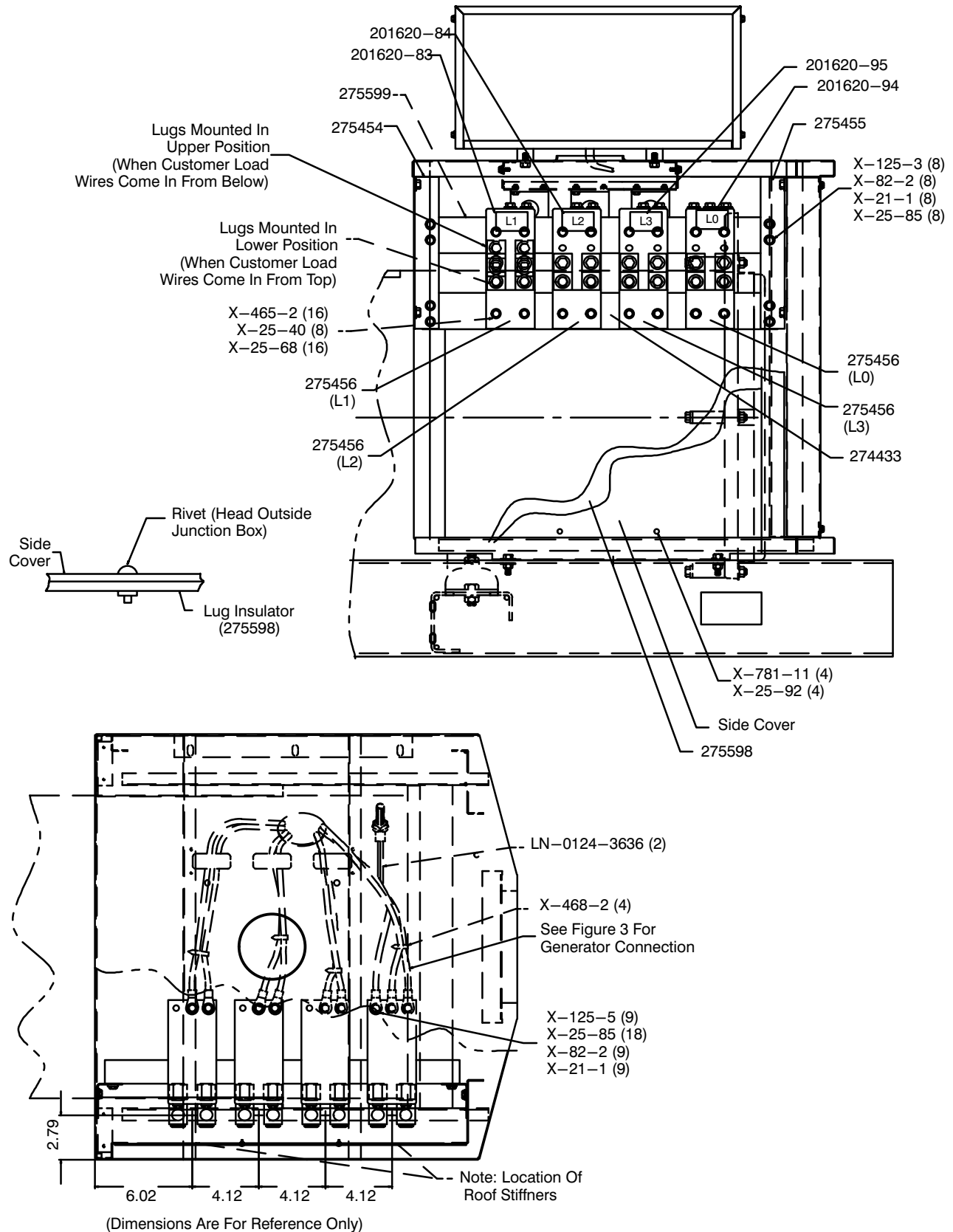
**Before starting, decide whether terminal lugs are to be mounted in upper, or lower positions (based on junction box entry point for output cables as specified in plans).**

1. Remove junction box side covers. See Figures 1 and 2 for parts and positions.
2. Install vertical angle 275455 to junction box, positioning bolts (X–125–3) and rivet heads (X–781–10) in oblong holes.
3. Assemble bus bars, support angles, insulating standoffs and terminal lugs as shown in Figure 1. Install assembly in junction box.
4. Route generator leads through current transformers for connection to bus bars as shown in Figure 3, according to system voltage specified in plans. Connect generator leads to bus bars as shown in Figures 2 and 3.
5. Mount the lug insulator pad (275598) to the left–side junction box side cover, as shown in Figure 2. Reinstall junction box side covers.

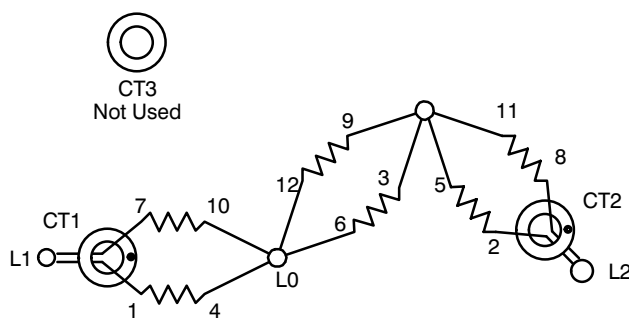


**Figure 1. Assembly**

**Note:**  
**For Use In Junction Box 273482.**

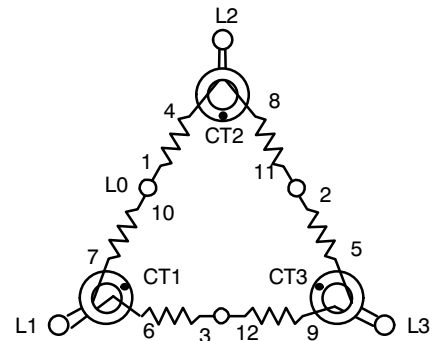


**Figure 2. Installation**



120/240—Volt, 60 Hz, 1—Phase, 3—Wire;  
110/220—Volt, 50 Hz, 1—Phase, 3—Wire  
(20 – 100 kW Only).

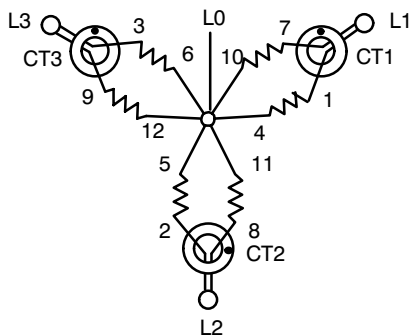
TB2 **UP V7 LO**  
Meter Scale  
Lamp Jumper  
Located in  
Meter Box



120/240—Volt, 60 Hz, 3—Phase, 4—Wire, Delta;  
110/220—Volt, 50 Hz, 3—Phase, 4—Wire, Delta.

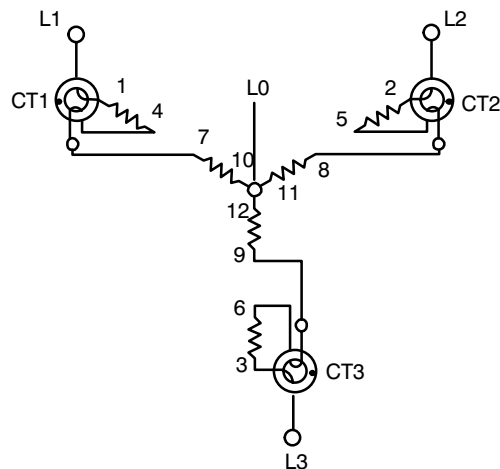
TB2 **UP V7 LO**  
Meter Scale  
Lamp Jumper  
Located in  
Meter Box

**Note:**  
Current Transformer Dot Or  
“HI” Toward Generator, for all  
connections.



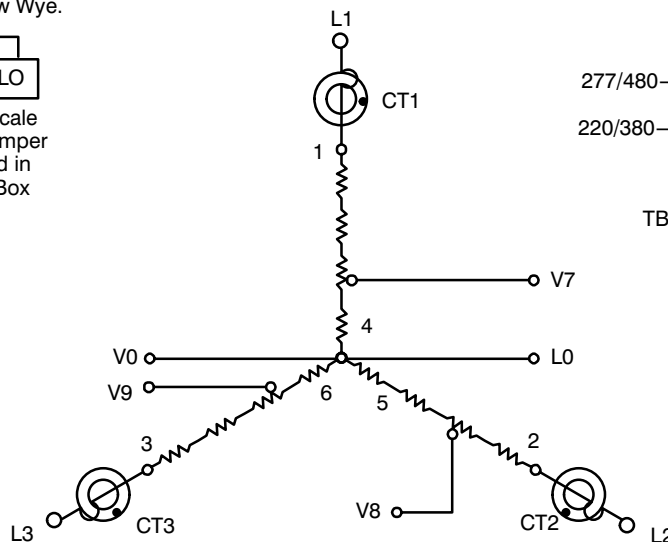
120/208 OR 139/240—Volt, 3—Phase, 4—Wire  
Low Wye;  
120/208 OR 110/190—Volt, 3—Phase, 4—Wire  
Low Wye.

TB2 **UP V7 LO**  
Meter Scale  
Lamp Jumper  
Located in  
Meter Box



277/480—Volt, 60 Hz 3—Phase, 4—Wire  
High Wye;  
220/380—Volt, 50 Hz, 3—Phase, 4—Wire  
High Wye.

TB2 **UP V7 LO**  
Meter Scale  
Lamp Jumper  
Located in  
Meter Box



600—Volt  
6—Lead Stator.  
Note:  
Two Wire Turns  
Through Each  
Current Transformer.

TB2 **UP V7 LO**  
Meter Scale  
Lamp Jumper  
Located in  
Meter Box

**Figure 3. Generator Connections**