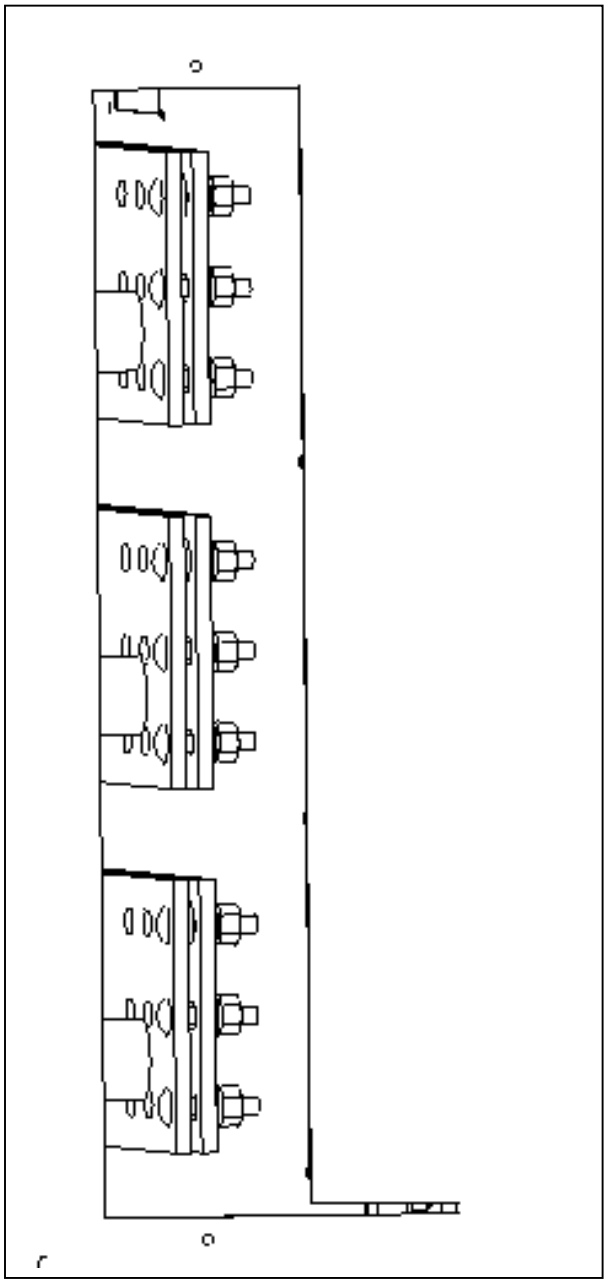
Commercial Metering Switchboards

Splicing and joining sections

Application

These instructions are provided for the installation of splice bars, and to join switchboard sections at the installation site for ease of installation. These steps must be performed prior to setting the switchboard sections on the final pad and termination of cables.

1. **Check installed hardware.** Make sure hardware is installed at the end of the bus bar on each section as shown in the picture in below:

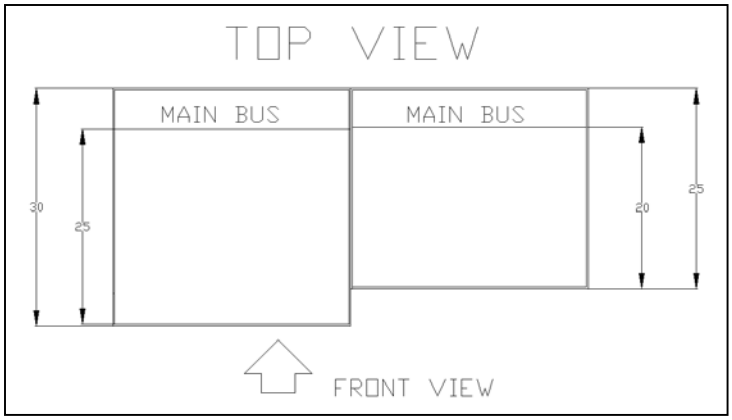


Installation

WARNING: Danger of electrical shock or injury. Turn OFF power ahead of the switchboard before working inside the equipment or removing any component. Equipment is to be installed and maintained by properly trained and qualified personnel only.

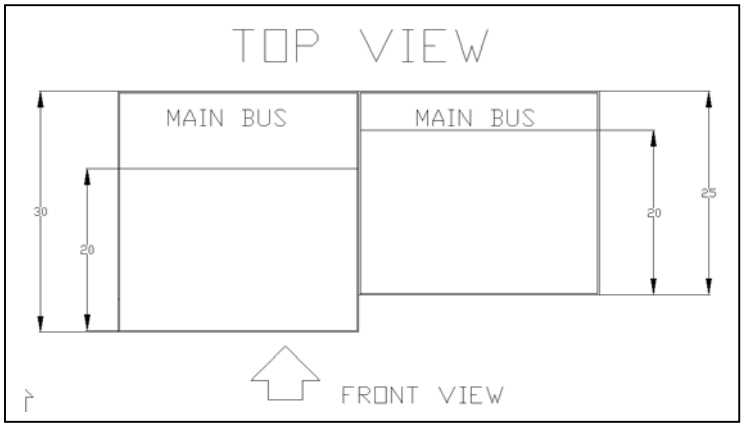
Keep in mind this hardware is loose and is held to the bus by a rubber band. To avoid losing any hardware, do not remove the rubber band until the splice bars are going to be installed. The splice bars are located in the Section marked with the yellow label " Splices in this section."

2. **Check splice dimensions.** Compare the dimensions of the bus against the splice bars to ensure the 2 sections are going to be joined successfully. First, measure from the front of each section to the horizontal bus, then subtract the distance of the first sections from the second. This should be equal to the length of the splice bars.



In the picture above the first section is 5" deeper then the second one, and the main bus is located an equal distance from the rear. Therefore flat bus splices are required.

The picture below shows the main bus installed in a different position relative to the adjoining section. This condition makes it necessary to use a splice bar with 5" offset.



3. **Splicing sections.** The first step is to install the splice bars on one of the sections. Do not tighten these bolts. Just add bolts, washers, and nuts and leave loose.

Second, attach the next section and make the bus bar holes align with the splice bar slots. There is a removable cut out for temporary removal during the splicing of the section.

Use a screwdriver to make sure the holes align. Then add the hardware to join the bus and splice bars.

If Bellville washers are provided with the joints , torque to 35 lb-ft. If lock washers are provided with the joints, , torque to 39 lb-ft.

The last step is to bolt the sections together. To do so, please read instruction bulletin (GEH5875), which is included in the first section of every switchboard line up. When connections are complete, set the switchboard on the final pad for cable terminations.

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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