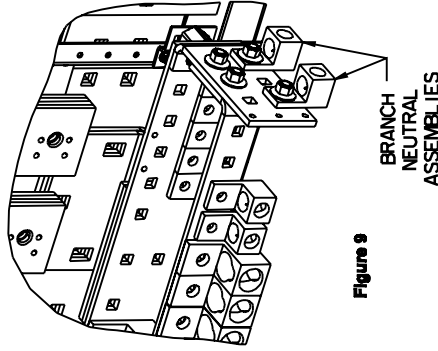


Switchboard/Power Panel Kit MG1/MG1D/SLM1/SLM1D for Branch Mounting Sentron LMD and VL MG Frame Breakers

Installation Instructions

10. Reference fig. 9 - Installing the Branch Neutral Lug (item 11) in a Switchboard. The Branch Neutral is located at the bottom of the "Z-rails", or mirrored at the top depending upon the feed cable location. Two (2) different Neutral lug assemblies are included in the kit, be sure to install the type pictured below. The Neutral lug assemblies can be mounted, as shown, or on any available hole of the Branch Neutral depending on cable feed location. Torque all hardware as specified on the rear of the dead front.



11. Reinstall the dead front using one of the breaker cover plates supplied with this kit. For Thermal Magnetic Trip Units (TMTU) type breakers, use the cover with a rectangular cutout. For Electronic Trip Unit (ETU) type breakers, install the cover with "I" cutout. Other filler plates may be required for proper fit. See filler plate kits listed on the rear of the dead front.

Installation Instructions

The following instructions are for the installation of Siemens Sentron LMD & VL MG Frame breakers in switchboard or shallow/deep panelboards. This kit will require 8-3/4" of unit space. The parts provided in this kit are for connections to a 3 phase / 3 wire or 4 wire system.

⚠ DANGER

Hazardous voltage.
Will cause death or
serious injury.

Keep out.
Qualified personnel only.
Disconnect and lock off all
power before working on this
equipment.

1. Lock off power supplying this equipment before working on it.

2. Reference fig. 1 - Remove the (2) gutter covers and all cover plates.

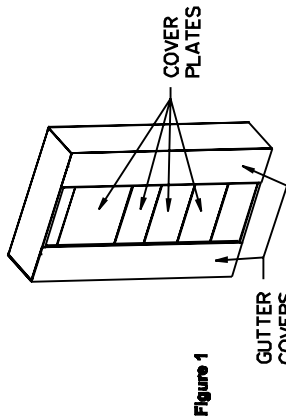


Figure 1

3. Reference fig. 2 - To mount a LMD or MG Frame breaker, 8-3/4" of empty unit space is required. To locate the mounting position, measure from the top dead front support to the top of the empty unit space filler on the dead front. Transfer this dimension from the dead front support along the Z-rail and mark. This will be the unit space as shown on Fig. 6. After marking the Z-rail, remove the dead front.

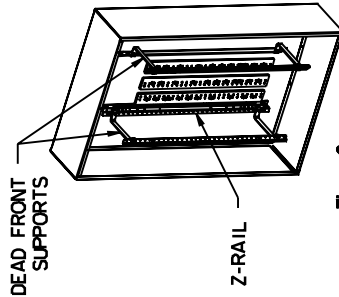


Figure 2

4. Open the shipping box and check the hardware against the following list.

ITEM	DESCRIPTION	QTY.
1	VL MG BRANCH BRKR INSTALL. INSTR.	1
2	STRAP SUPPORT BARRIER	1
3	LONG PHASE CONNECTOR	1
4	MEDIUM PHASE CONNECTOR	1
5	SHORT PHASE CONNECTOR	1
6	STRAP - SECTION BUS HARDWARE KIT	1
7	BARRIER MOUNT	2
8	BRANCH BRKR COVER PANEL	2
9	CARD HOLDER	1
10	CIRCUIT ID CARD	1
11	1/4-20 X 3/8" - SMALL HEAD	2
12	1/4-20 X 1/2" - SMALL HEAD	4
13	1/4-20 X 4-1/4"	2
14	3/8-16 X 1-1/4"	3
15	1/4-20 X 1/2"	4
16	NEUTRAL LUG ASSEMBLY	3
17	PACKAGING ASSEMBLY	1
18	BELLEVILLE WASHER	3

• - ITEMS NOT INCLUDED IN SLMi or MGi (shallow) KIT

5. Reference fig. 4 - Installing the Phase Connectors. Align the square holes in the Long Phase Connector (item 3) over the snaps on the Strap Support Barrier (item 2) and press down latching the Phase Connector in place upon the Barrier. Repeat this step for the Medium and Short Phase Connectors (items 4 and 5).

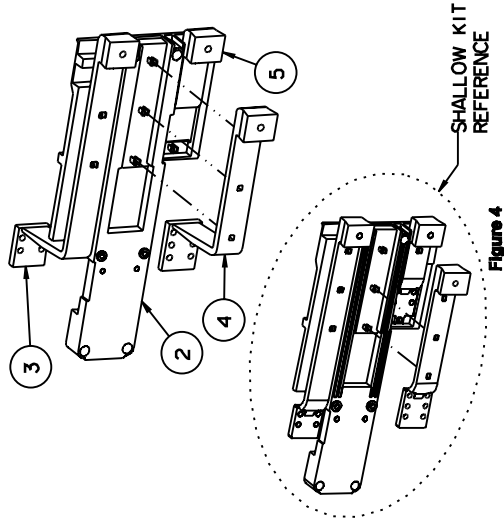


Figure 4

NOTE: If using the shallow kit, skip to Step 7.

6. Reference fig. 5 - Attach the Mounting Brackets. Locate two $\varnothing 0.312$ " holes at one end of the Support Barrier, insert two 1/4-20 X 1/2" screws (item 12) through the holes and then into the two $\varnothing 0.228$ " holes at the small end of the Barrier Mount Bracket (item 7) and tighten. Repeat this step for a second Mount Bracket at the other end of the Support Barrier.

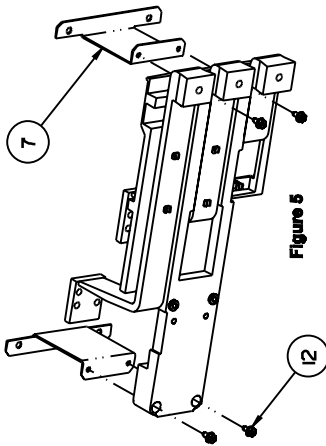


Figure 5

7. Reference fig. 6 - Installing the Support Barrier assembly. Deep Kit: Locate a $\varnothing 0.228$ " diameter hole on each Z-rail 1-7/8" down from the top of the 8-3/4" unit space selected in Step 3. Insert one 1/4-20 X 1/2" screw (item 15) through the top $\varnothing 0.312$ " diameter hole on each Mounting Bracket and then into the selected holes in the Z-rails. Repeat this step to install one 1/4-20 X 1/2" screw into the bottom hole of each Mounting Bracket. Shallow Kit: Locate a $\varnothing 0.228$ " diameter hole on each Z-rail 3-1/8" down from the top of the 8-3/4" unit space selected in Step 3. Insert one 1/4-20 X 1/2" screw (item 12) through the top two holes of the Support Barrier and then into the selected holes in the Z-rails. Repeat this step to install one 1/4-20 X 1/2" screw into the bottom holes of the Barrier.

Both Kits: Insert four 1/4-20 thread forming screws (see the Section Bus Hardware Kit for the proper length) through the four $\varnothing 0.312$ " diameter holes of the Short Phase Connector and into the $\varnothing 0.228$ " diameter holes on the vertical bus and tighten. Repeat this step for both the Long and Medium Phase Connectors.

NOTE: The Support Barrier Assembly can be reversed for a left-hand LINE application.

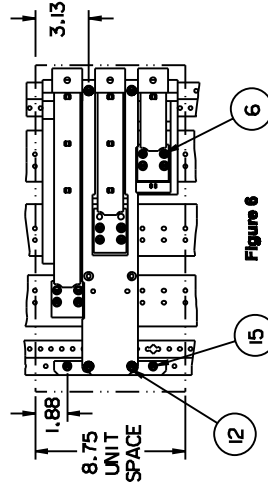


Figure 6

8. Reference fig. 7 - Installing a LMD or MG Frame Circuit Breaker. Insert one 3/8-16 X 1-1/4" machine screw (item 14) and Belleville washer (item 18) through each of the three contacts on the line side of the breaker and into the $\varnothing 0.344$ " diameter holes at the end of the three Phase Connectors. Insert two 1/4-20 X 4-1/4" threaded forming screws (item 13) into the two mounting holes at the line side of the breaker and into the two $\varnothing 0.228$ " diameter holes in the breaker mounting bracket and tighten. Torque all connections to the values specified on the rear of the dead front.

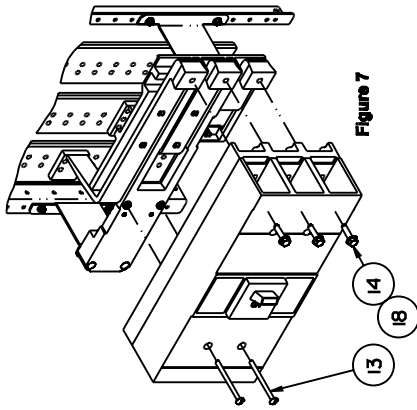


Figure 7

NOTE: If a Branch Neutral Lug Assembly is NOT Required Skip To Step 11.

NOTE: For switchboard applications, skip to Step 10.

9. Reference fig. 8 - Installing the Branch Neutral Lug (item 16). The Branch Neutral is located at the bottom of the "Z-rail", or mirrored at the top depending upon the feed cable location. The Neutral Lug assemblies can be mounted, as shown, on either side of the Branch Neutral depending on cable feed location. Torque all hardware as specified on the rear of the dead front.

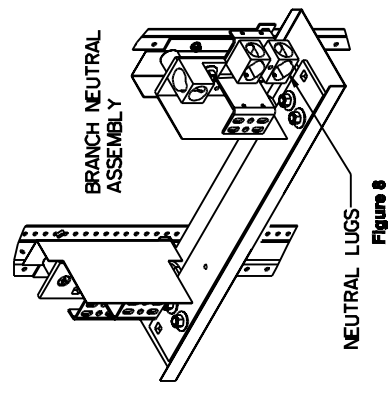


Figure 8