

DEADFRONT MODIFICATIONS & PANEL RE-ASSEMBLY

10. Refer to Figure 4: Identify the deadfront area that will cover the 6" kit unit space. Measure the unit space locating dimension **D** directly from the deadfront end plate (as shown).
11. Remove any full width plate & any center strip covering the deadfront area for the 6" kit unit space. Fasten the QR branch deadfront plate (Item 7) to the deadfront side rails with four #8-32 screws (Item 9) as shown.
12. Install the P2 QR deadfront escutcheon (Item 8) by first inserting the clips on one side of the opening and then rocking the other side into position until it firmly "clicks" into place. **NOTE:** There are notches on the deadfront plate and matching ribs on the escutcheon to ensure the correct one is used. Do **NOT** use if escutcheon will not fit into deadfront plate.
13. If the installed kit does not completely fill the unit space of removed modules, a deadfront filler plate kit is required to cover unit space where no branch components are installed. Use kit **DFFP3** for 3" gaps and kit **DFFP6** for 6" gaps.
14. If a deadfront center strip was removed to make space for this kit, and a shorter strip is needed to cover remaining dual mounted branch modules, use kit **DFK1** to install the appropriate length strip.
15. Replace the deadfront using the hardware removed during disassembly.
16. Tighten all hardware to the specified torque values on the back of the deadfront.
17. Replace the panelboard front cover using the hardware removed during disassembly.

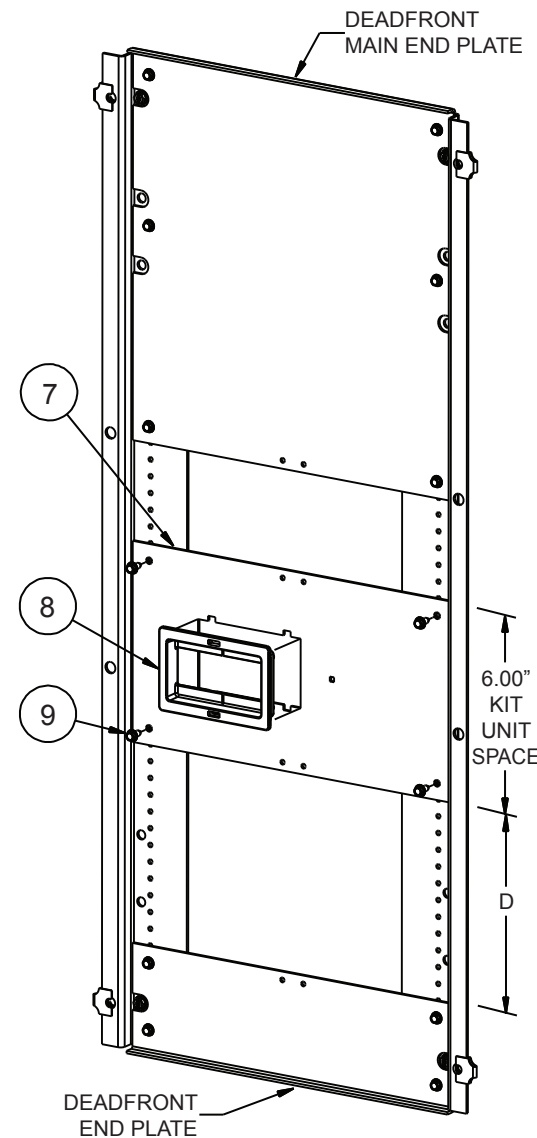


Figure 4

SIEMENS

P2 Panelboard Kit BBKQR1 for Branch Mounting of 225A MAX QR Breakers

Installation Instructions

These instructions do not purport to cover all details or variations in equipment, or to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise, which are not covered sufficiently for the purchaser's purposes, the matter should be referred to the local Siemens sales office. The contents of this Instruction manual shall not become part of or modify any prior or existing agreement, commitment or relationship. The sales contract contains the entire obligation of Siemens. The warranty contained in the contract between the parties is the sole warranty of Siemens. Any statements contained herein do not create new warranties or modify the existing warranty.

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Installation Instructions

The following instructions are for the installation of a Siemens branch breaker kit for **225A MAX QR2, QRH2, HQR2 & HQR2H** breakers in Type P2 Panelboards. The parts provided in this kit connect a 2-pole QR breaker to a 1-phase, 2 or 3-wire system or a 3-pole QR breaker to a 3-phase, 3 or 4-wire system. This kit requires 6" of branch unit space. If any part of the unit space for this kit is presently covered on the deadfront by a center strip for dual mounted breakers, the deadfront may require modifications using kit **DFK1**. The deadfront will need a blank filler plate if this kit does not completely fill the unit space of any removed branch module(s). These deadfront filler kits are **DFFP3** for a 3" gap and **DFFP6** for a 6" gap. The breaker is **NOT** included with this kit and must be purchased separately. Be sure to choose the appropriate breaker for the system in use. For systems with no neutrals, disregard the neutral connection.



1. Lock off all power supplying this equipment before working on it.
2. Remove the panelboard front cover & deadfront.
3. Refer to Figure 1: For taking unit space measurements, use the bus support located farthest from the main lug or device end of the panel. Note that unit space starts 0.25" from the inner surface of the bus support.

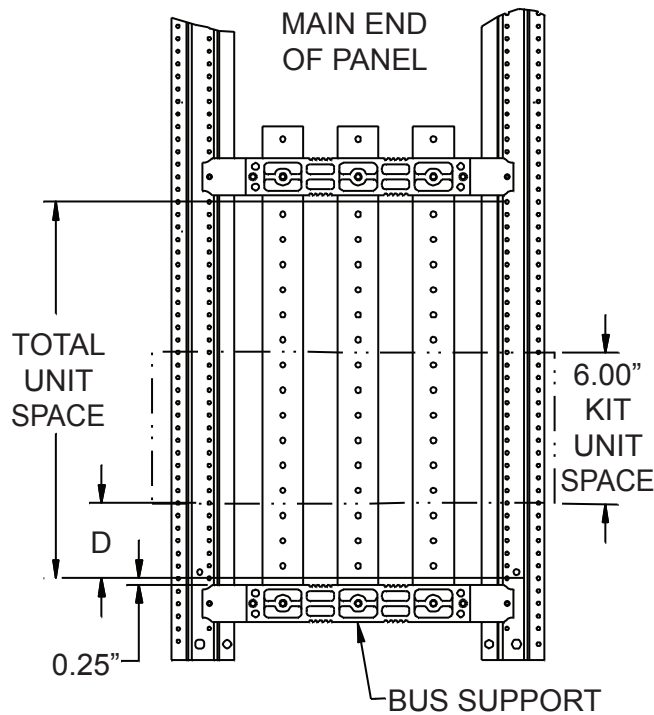


Figure 1

4. This kit requires 6" of unit space. Determine the location where the kit is to be installed. The kit locating dimension **D** in Figure 1 must be a multiple of 3" (0", 3", 6", 9", etc.). Add 0.25" to dimension **D** when taking measurements from the bus support (0.25", 3.25", 6.25", 9.25", etc.).
5. If an existing branch module occupies the location chosen for this kit, remove all of its devices & parts.

THIS KIT CONTAINS THE FOLLOWING ITEMS:

ITEM	DESCRIPTION	QTY	TORQUE
1	QR Breaker Support	1	N/A
2	Long Outer Connector Bus	1	N/A
3	Short Outer Connector Bus Type A	1	N/A
4	Short Outer Connector Bus Type B	1	N/A
5	Center Connector Bus	1	N/A
6	Branch Neutral Lug	1	N/A
7	QR Branch Deadfront Plate	1	N/A
8	QR Breaker Deadfront Escutcheon	1	N/A
9	#8-32 x 9/32" Thread-forming Screw	6	30 lb-in
10	1/4"-20 x 5/8" Thread-forming Screw	9	72 lb-in
11	1/4"-20 x 3/4" Thread-forming Screw	1	72 lb-in
12	1/4"-20 x 2-1/2" Machine Screw	2	30 lb-in

NOTE: Separate instructions are provided for kit installation in 1-phase & 3-phase panels. Each application uses some -- but not all -- of the above listed parts. Instructions for Deadfront Modifications & Panel Re-assembly are located on Page 4.

2-POLE 225A MAX QR INSTALLATION IN 1Ø PANELS:

6. Refer to Figure 2: Position the breaker support (Item 1) on the base rail in the center of the 6" kit unit space as shown. Fasten it to the base rail with two #8-32 screws (Item 9). Fasten the long outer connector (Item 2), and the Type A short outer connector (Item 3) to the panel bus with four 1/4"-20 x 5/8" screws (Item 10) as shown.
7. Keeping the connectors aligned and their breaker connection holes spaced 1.50" apart, tighten all of the screws to the torque values specified on the back of the deadfront (or the table above).

8. Position the breaker as shown in Figure 2, with the handle in the upper position and inline with the center of the support (Item 1) on one side and the center of the Type A short outer connector (Item 3) on the other side. Bring the breaker line pads into contact with the connectors. Fasten the breaker to the support with one 1/4"-20 x 2-1/2" machine screw (Item 12) through the lower hole in the support. Do NOT tighten until the bus connections are made. Fasten the breaker line pads to the connectors with two 1/4"-20 x 5/8" screws (Item 10).
9. If this kit is installed in a panel with a neutral, fasten the branch neutral lug (Item 6) to any one of the four indicated sites on the neutral cross bus with two 1/4"-20 x 3/4" screws (Item 11), as shown.
10. Tighten all screws to the torque values specified on the back of the deadfront.

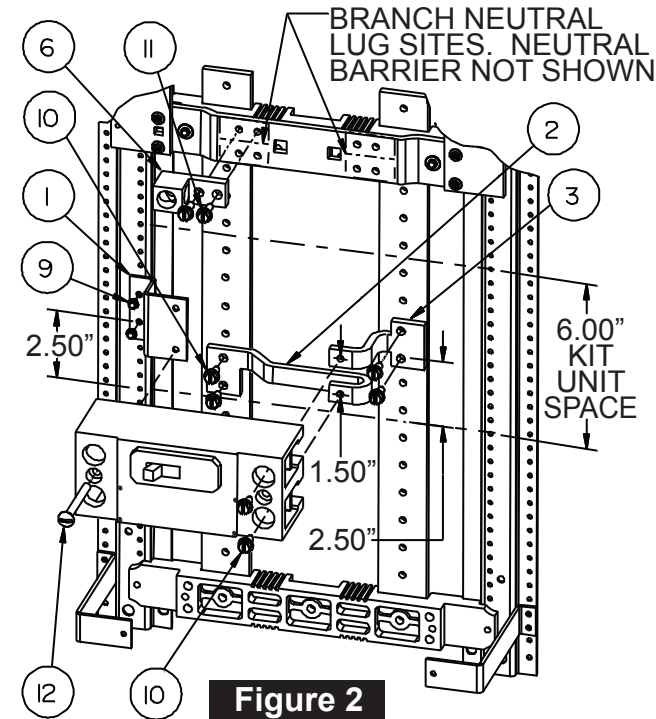


Figure 2

225A MAX QR INSTALLATION IN 3Ø PANELS:

6. Refer to Figure 3: Position the breaker support (Item 1) on the base rail in the center of the 6" kit unit space as shown. Fasten it to the base rail with two #8-32 screws (Item 9). Fasten the long outer connector (Item 2), the center connector (Item 5) & the Type B short outer connector (Item 4) to the panel bus with six 1/4"-20 x 5/8" screws (Item 10).
9. If this kit is installed in a panel with a neutral, fasten the branch neutral lug (Item 6) to any one of the four indicated sites on the neutral cross bus with two 1/4"-20 x 3/4" screws (Item 11), as shown.
10. Tighten all screws to the torque values specified on the back of the deadfront (or kit table on page 2).

7. Keeping the connectors aligned and their breaker connection holes spaced 1.50" apart, tighten all of the screws to the torque values specified on the back of the deadfront (or kit table on page 2).
- 8A. TO INSTALL A 3-POLE BREAKER: Position the breaker with its mounting holes aligned with the holes in the breaker support (Item 1). Bring the breaker line pads into contact with the connectors. Fasten the breaker to the support with two 1/4"-20 x 2-1/2" machine screws (Item 12). Do NOT tighten until the bus connections are made. Fasten the breaker line pads to the connectors with three 1/4"-20 x 5/8" screws (Item 10).
- 8B. TO INSTALL A 2-POLE BREAKER: Position the breaker with the handle in the upper position and inline with the center of the support (Item 1) on one side and the B-phase strap on the other side. Bring the two breaker line pads into contact with the B & C-phase connectors (Items 5 & 4, respectively). Fasten the breaker to the support with one 1/4"-20 x 2-1/2" machine screw (Item 12) through the lower hole in the support. Do NOT tighten until the bus connections are made. Fasten the breaker line pads to the connectors with two 1/4"-20 x 5/8" screws (Item 10).

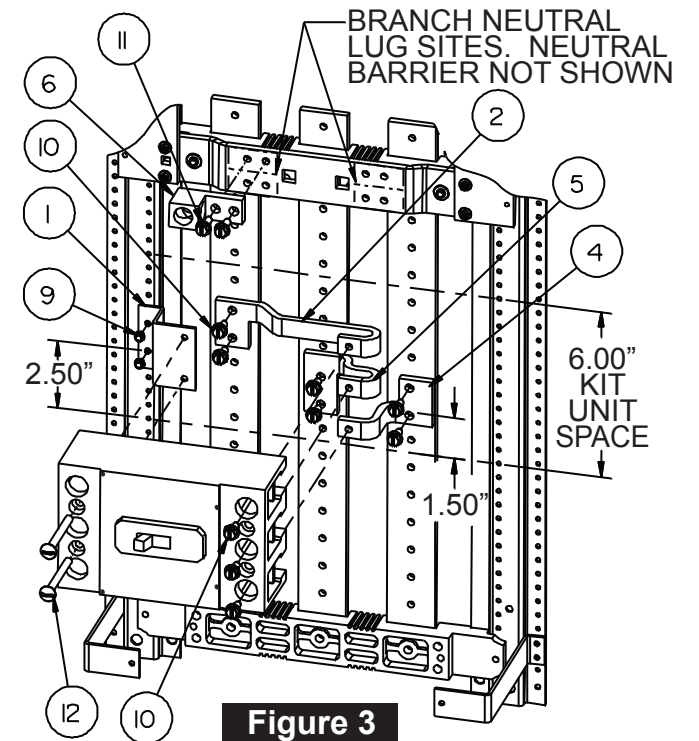


Figure 3