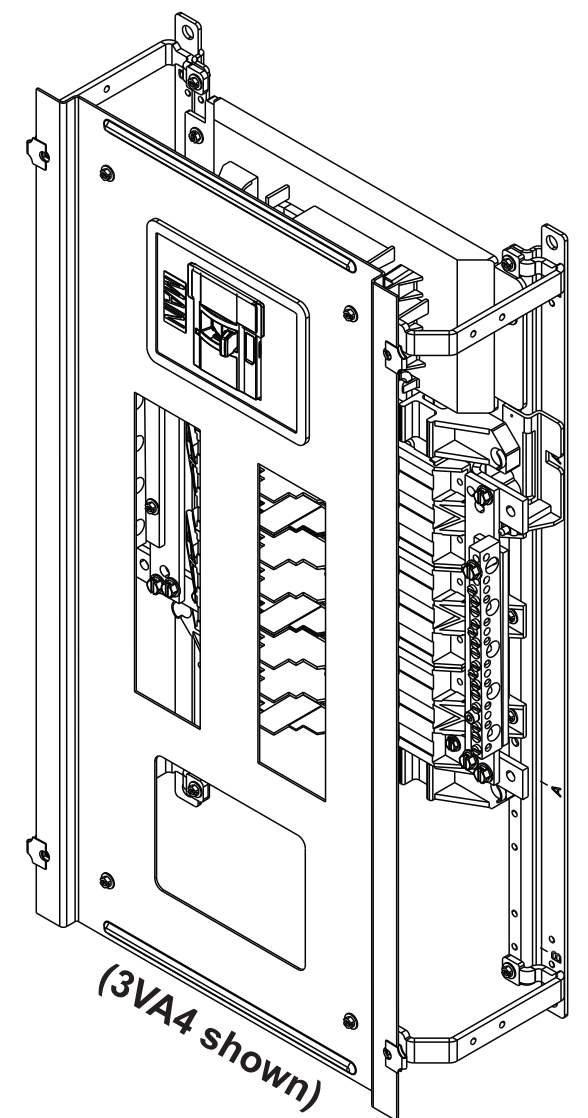
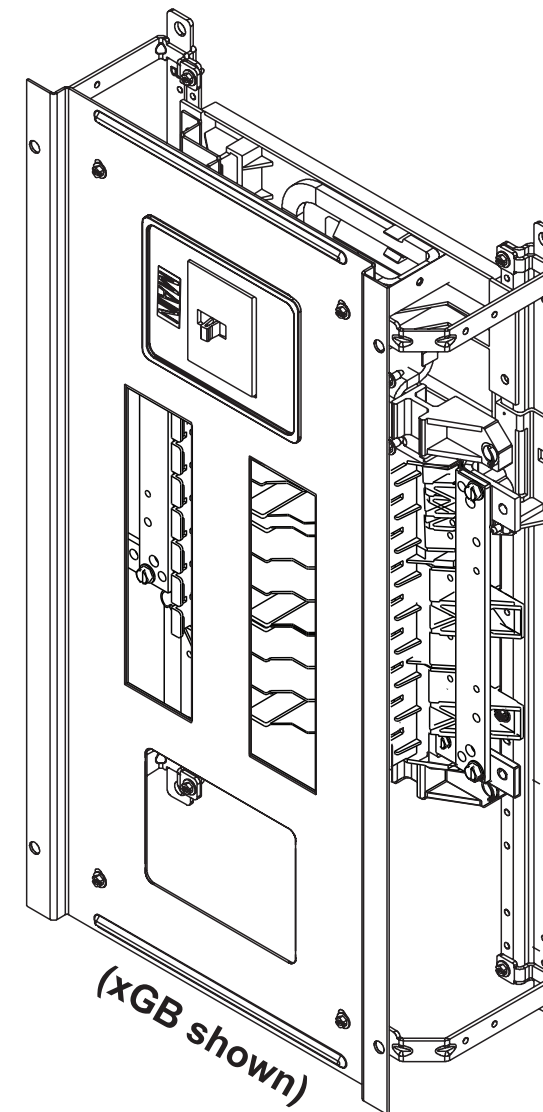


SIEMENS

MBKVA41A or MBKVA41B BL / BQD / xGB / 3VA4 Main / Subfeed Breaker Kit for P1-250 Panelboard (or P1-400 Subfeed) (for use in Revised P1 Panelboards ONLY)¹

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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¹ To confirm, note the part number of the panel (marked on the interior label).
If it ends in an "N" or a "T" it is a "Revised P1" and is compatible with this kit.
(For example: P1E42MC250A is an Original P1; P1E42MC250AT is a Revised P1)

3-PHASE P1-250

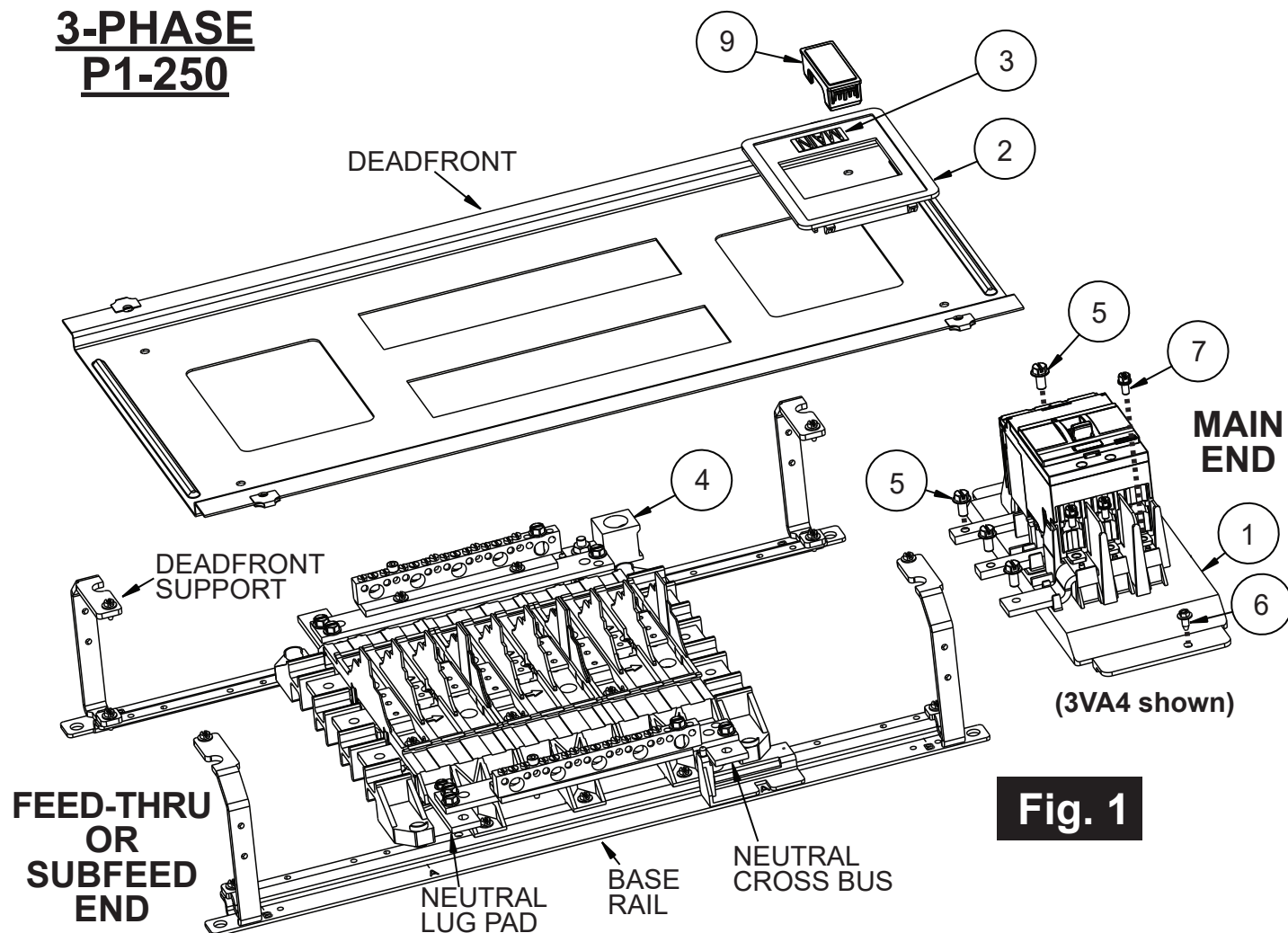


Fig. 1

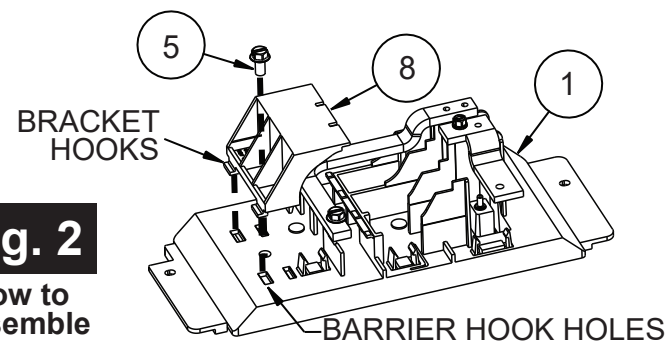


Fig. 2

How to Assemble

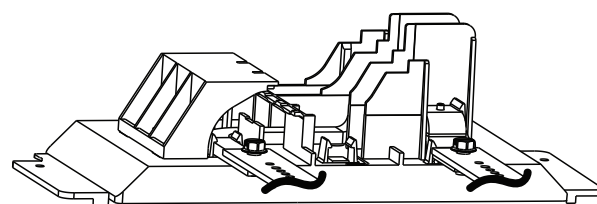


Fig. 3

Breaker Support Bracket assembled to Strap and Barrier Assembly

THIS KIT CONTAINS THE FOLLOWING ITEMS:

ITEM	DESCRIPTION	QTY	TORQUE
1	STRAP AND BARRIER ASSEMBLY	1	N/A
2	BREAKER ESCUTCHEON	1	N/A
3	MAIN LABEL	1	N/A
4	NEUTRAL LUG ASSEMBLY	1	N/A
5	1/4"-20 x 1/2" HEX HEAD SEMS* ASSEMBLY SCREW	***	**** lb-in
6	#10-24 x 7/16" SLOTTED HEX WASHER THREAD-FORMING SCREW	2	30 lb-in
7	#10-32 x 3/8" HEX HEAD SEMS* ASSEMBLY SCREW	**	20 lb-in
8	BL / BQD BREAKER SUPPORT BRACKET	1	N/A
9	1" BLANK FILLER	1	N/A

* SEMS assembly screws have a captive washer on the screw

** (2) for 1Ø, (3) for 3Ø

*** (3) for 1Ø, (4) for 3Ø

**** 72 lb-in for Strap to Bus connections; but ONLY 40 lb-in for plastic breaker bracket to plastic barrier connection

Installation Instructions

The following instructions are for the installation of a Siemens main/subfeed breaker kit for Type **BL, BQD, xGB** or **3VA4** breakers in Revised P1 Panelboards. The kit may be installed as a main or a subfeed in panels rated 250 amps or less. For Revised P1 400A panels, it may be installed in subfeed applications ONLY (see Fig. 4). The parts provided in this kit are for connection to a 1-phase 2 or 3-wire system in kit **MBKVA41A** or for connection to a 3-phase 3 or 4-wire system in kit **MBKVA41B**. 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 deadfront.

For installation as a main breaker:

(For 250A panels ONLY)

3. Remove the lugs (if installed).

4. Prepare the kit based on the breaker type:
BL/BQD breaker: Position the breaker support bracket (Item 8) onto the breaker barrier assembly (Item 1) by swinging the hooks on the bottom of the bracket into the proper holes on the breaker barrier assembly. (See Fig. 2 & 3) Complete assembly by inserting a 1/4"-20 screw (Item 5). Torque to 40 lb-in.
xGB/3VA4 breaker: Proceed to Step 5.

5. Position the breaker barrier assembly (Item 1) at the MAIN END of the panel. (See Fig. 1) Ensure the straps are properly snapped into the barrier and then align them with the panel bus. Secure the straps to the phase bus with 1/4"-20 SEMS screws (Item 5). Do not tighten at this time.

6. Secure the breaker barrier assembly to the base rails with two #10-24 screws (Item 6). Do not tighten at this time.

7. Assemble the breaker (purchased separately) onto the breaker barrier assembly and secure it using the #10-32 x 3/8" SEMS screws (Item 7).

8. On 1-phase 3-wire and 3-phase 4-wire systems the neutral lug assembly (Item 4) is required. The neutral lug assembly arrives in the kit ready to assemble at any open corner. Locate the neutral lug assembly at the corner closest to where the cables will terminate into the breaker. Install by positioning it below the neutral cross bus or the neutral lug pad, inserting the exposed stud through the appropriate hole and securing with the 1/4"-20 Belleville washer nut (part of Item 4).

9. Torque all connections to the values specified on the Hardware Tightening Torque label affixed to the rear of the deadfront.

10. Attach the main cables to the breaker and neutral terminal and torque connections to values specified on the device. If no values are listed on the device, refer to the Hardware Tightening Torque label affixed to the rear of the deadfront.

11. Remove the blank filler or escutcheon installed on any deadfront opening in the area that will cover this kit. Install the escutcheon (Item 2) provided with this kit into the front of the deadfront as shown. (This escutcheon has a rib on the rear whose orientation should be towards the unit space for proper fit.)
 NOTE: If installing a 2-pole breaker, use the blank filler (Item 9) by inserting it into the open spot on the breaker escutcheon (Item 2).

12. For main breaker applications, apply the "MAIN" label (Item 3) to the breaker escutcheon as shown.

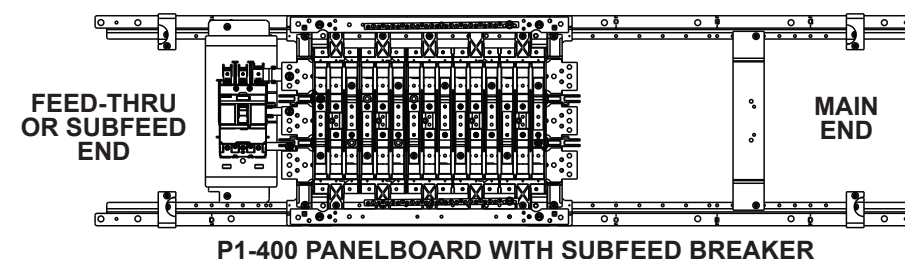
13. Before energizing the panel, ensure that all connections have been properly torqued, the deadfront is installed and all fillers are in place.

For installation as a subfeed breaker:

(For panels with feed-thru or subfeed space ONLY)

14. Follow Steps 1 through 11, except that the kit must be installed at the feed-thru or subfeed end of the panel and any pre-existing assembly at that location must be removed prior to installation of this kit. In addition, do NOT install the "MAIN" label (skip Step 12). **Finish with Step 13.**

Fig. 4



P1-400 PANELBOARD WITH SUBFEED BREAKER