



Power Break® II Circuit Breaker Accessories

Neutral Kits

Introduction

Power Break II Neutral Kits, when installed in a panel or enclosure with a Power Break II circuit breaker, provide an attachment point for the neutral cables. The catalog numbers are listed in Table 1.

Catalog Number	Rating, amperes
TNT800	800
TNT1600	1600
TNT2000	2000

Table 1. Catalog numbers and ratings of Neutral Kits.

Installation

WARNING: Before installing or making any connections to the neutral assembly, be sure that all voltage sources are de-energized.

AVERTISSEMENT: Assurez-vous que toutes les sources de voltage sont désamorçées avant d'installer ou de faire tout raccordement au neutre.

Use the following procedure to install the Neutral Kit:

1. Attach the lug to the bonding strap, if required, with the $\frac{5}{16}$ -20 x 1" screw, lock washer, flat washer, and nut provided. Tighten to 90 lb-in. Attach the bonding strap to the base with one of the $\frac{1}{4}$ -20 x $\frac{1}{2}$ " screws provided, as shown in Figure 1, but do not tighten the screw to allow for alignment with the back panel.

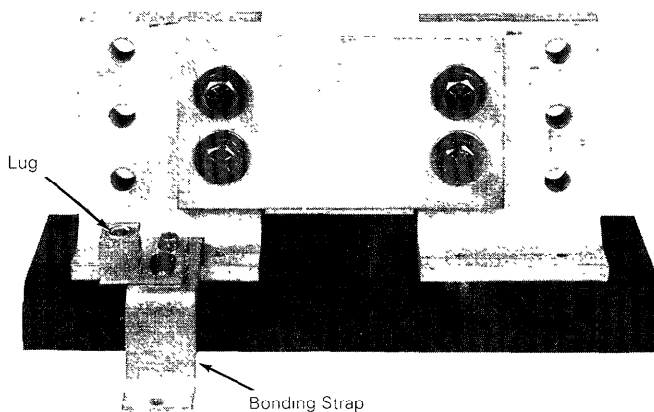


Figure 1. Bonding strap and lug attached to the neutral block.

2. If a neutral current transformer (CT) is required, remove the shorting plate(s) and attach the CT with the same bolts, as shown in Figure 2. Torque the bolts to 300–400 lb-in (25–33 lb-ft).

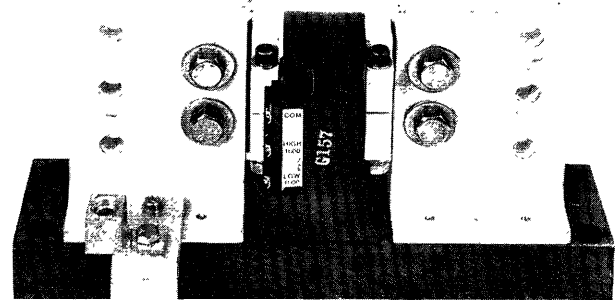


Figure 2. Neutral Kit with CT installed.

3. Attach the neutral block to the back panel with the four $\frac{1}{4}$ -20 x $\frac{7}{8}$ " screws provided, as shown in Figure 3. Tighten the screws to 40–50 lb-in.

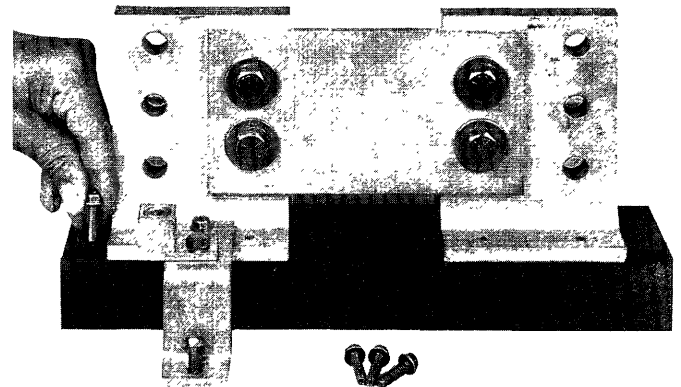


Figure 3. Attaching the neutral block to the back panel with the screws provided.

4. Secure the bonding strap (if installed) to the back panel with the $\frac{1}{4}$ -20 x $\frac{1}{2}$ " screw provided. Tighten this screw and the screw holding the strap to the neutral base to 40–50 lb-in.
5. Attach the lugs according to the instructions provided with the lugs. Tighten the lug mounting bolts to 300–400 lb-in (25–33 lb-ft).

6. Attach the neutral cables to the lugs. Tighten each lug screw to the torque range specified in Table 2 for the "across-flats" dimension of the screw, as shown in Figure 4.

Dimension A (in)	Torque (in-lb)
3/16	100-120
7/32	120-150
1/4	150-200
5/16	225-275
3/8	300-375

Table 2. Tightening torque for lug screws according to the "across-flats" dimension.

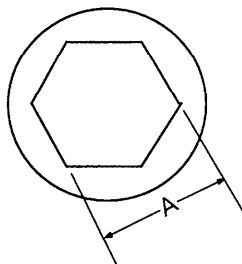


Figure 4. Across-flats dimension (A) on lug screws.

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.



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