

GEH6440 INSTRUCTIONS

Power Break® II Circuit Breaker Accessories

Draw-Out Substructure Rail Kit

Introduction

The Rail Kit, shown in Figure 1, can be installed on 800-4000 ampere Power Break® II Substructures. The catalog number is SPRAILS. It consists of a pair of 14-inch-long replacement rails (3 inches shorter than the rails supplied with the substructure from the factory). The short rails must be used when the breaker face is mounted protruding through the equipment front by more than 0.625 inch (up to 3.25 inches) when racked into the "Connect" position.

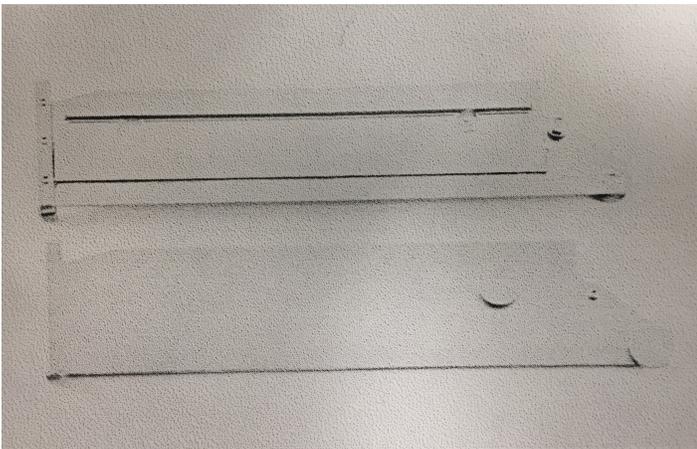


Figure 1. Replacement rails.

WARNING: Before beginning any installation, insure that the substructure is disconnected from all voltage sources, both primary and control.

AVERTISSEMENT: Avant de commencer toute installation assurez-vous que le berceau est déconnecté de toute source de tension (primaire ou secondaire).

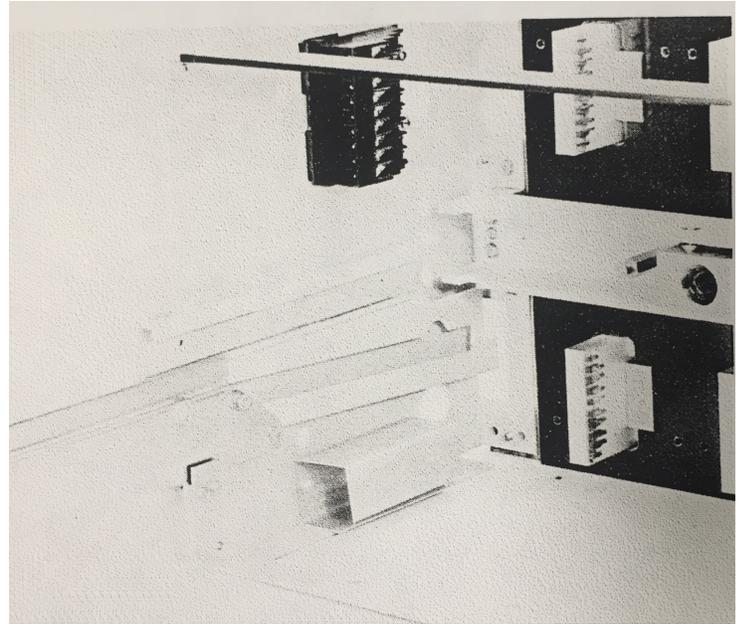


Figure 2. Substructure rail extended.

Installation

Use the following procedure to remove the existing rails and install the new rails.

1. Slide one of the rails out to the fully extended position, as shown in Figure 2, and remove the $\frac{1}{4}$ -20 thread-forming screw located at the rear of the rail using a $\frac{3}{8}$ -inch socket wrench.
2. Remove the two #10-32 thread-forming screws shown in Figure 2 using a $\frac{5}{16}$ inch socket wrench, then remove the sandwich of three rail-guide plates located beneath the rail.
3. Slide the rail back into the substructure as far as it will go until the front of the rail drops down.
4. With the front of the rail dropped down, lift up on the rear of the rail while sliding it in and out. Position the shoulder stud on the back side of the rail into the semicircular notch in the upper rear of the rail slot. Apply sideways pressure and lower the rear part of the rail $\frac{1}{8}$ inch to release the rail, then remove it.

5. With a $\frac{3}{8}$ -inch socket wrench, remove the $\frac{1}{4}$ -20 thread-forming screw from each of the new rails. Also remove the plastisol cap.
6. Position the new shorter rail with the rear shoulder stud through the rectangular hole in the rear of the substructure. Tip the front of the rail down and put the front shoulder stud into the semicircular notch.
7. Lift up the front of the rail and slide it out to the fully extended position.
8. Install the plastisol cap and the $\frac{1}{4}$ -20 stop screw removed in step 5. Start the screw counter-clockwise to locate the existing thread and then assemble clockwise to 85 lb-in torque.
9. Reassemble the two #10-32 screws and the sandwich of rail-guide plates removed in step 2. Use the same technique as in step 8 to locate the existing thread and torque to 50 lb-in.
10. Repeat the procedure for the other rail.