

# INSTRUCTIONS

GEK-19711

SUPPLEMENT TO GEI-31007C

## INDOOR DISCONNECTING SWITCHES FOR STATION EQUIPMENT

(GROUP OPERATED)

### TYPE LG

RATED 7000 AMPERES SELF-COOLED, 50° C RISE  
8000 AMPERES SELF-COOLED, 65° C RISE

### INTRODUCTION

The group operated Type LG-7000 Amperes, 50° C Rise/8000 Amperes, 65° C Rise indoor disconnecting switch has laminated blades, silver-to-silver line pressure finger contacts and a solid tongue contact blade.

All descriptions and instructions outlined in GEI-31007C apply to this switch except the following.

### ADJUSTMENTS

All switches are adjusted at the factory before shipment. In cases where the switches are installed in the field or changes are made which may affect the switch adjustments, it is recommended that the adjustments be reviewed.

When checking the pressure adjustment, each blade assembly should be checked individually by removing the pin through the blades to disconnect the blades from the operating rod. Attach a spring balance to the blade at the contact stud located at a 15¼ inch radius from the hinge ("D" dimension as shown in GEI-31007C, Fig. 4). Measure the pull required to move the blade when in full contact, and also when just clear of the contact. If the measured force is outside the range shown in Table 1A, change the settings of the contact finger springs at the contact end of the switch or the settings of the nuts

on the bolts at the hinge end of the switch as required to bring the force within the proper range.

Proper adjustment of the contact finger springs is as shown in Figure 2 and can be measured by means of a spring balance attached to the finger between the spring and the contact point.

**NOTE:** Before changing the contact adjustment, always check and make sure the adjustment at the hinge end is correct.

Check the alignment of the blades and contacts by attempting to insert a 0.002 inch feeler gage between the raised silver lines on the blades and the contact tongue. If the gage can be inserted at any point along the contact line, the factory adjustment has been disturbed, and the alignment is not correct. Check to determine the cause of the misalignment. Loosen the connecting bars and studs, check the base for distortion in mounting, and shift the contacts or make other necessary adjustments to bring the blades into good alignment. In cases where the switch has been damaged during shipment or installation to such an extent that the blades or contact require straightening to obtain proper alignment, the switch should be returned to the factory for reconditioning.

When the individual switch adjustments are satisfactory, open and close the entire switch by use of the operating mechanism and check the operating travel. An adjustment may be made, with the switch in the closed position, to center the blades over the contact area by lengthening or shortening the operating rod.

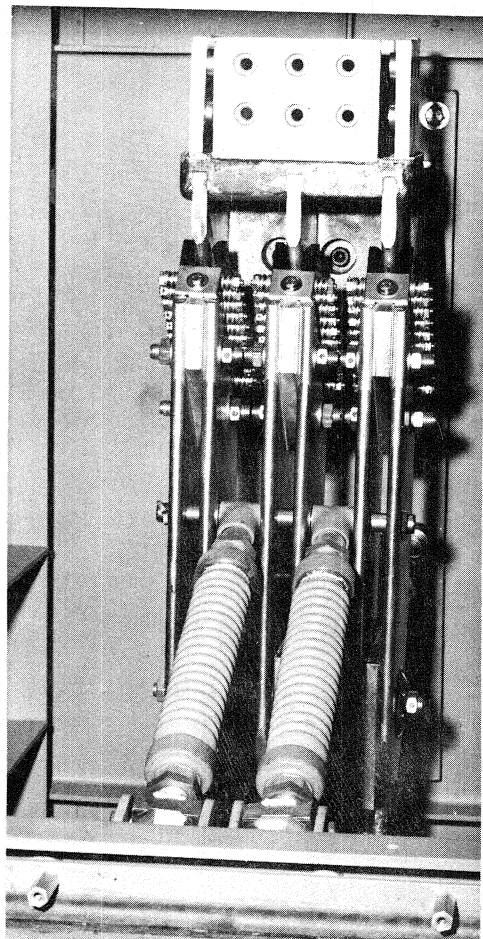


Fig. 1 Disconnecting Switch  
Type LG - 7000/8000 Amperes

These instructions do not purport to cover all details or variations in equipment nor 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 General Electric Company.

POWER CIRCUIT BREAKER DEPARTMENT

GENERAL  ELECTRIC

PHILADELPHIA, PA.

TABLE 1A  
 POUNDS PULL TO MOVE BLADE ASSEMBLY WHEN "D" IS AS SHOWN

AMPERE RATING	D AS SHOWN IN FIG. 4 (GEI-31007C)	WITH BLADE OPEN ¼ Inch	WITH BLADE CLOSED
7000/8000	15-¼ Inches	Switch blade will fall open from its own weight.	40 to 90 Pounds

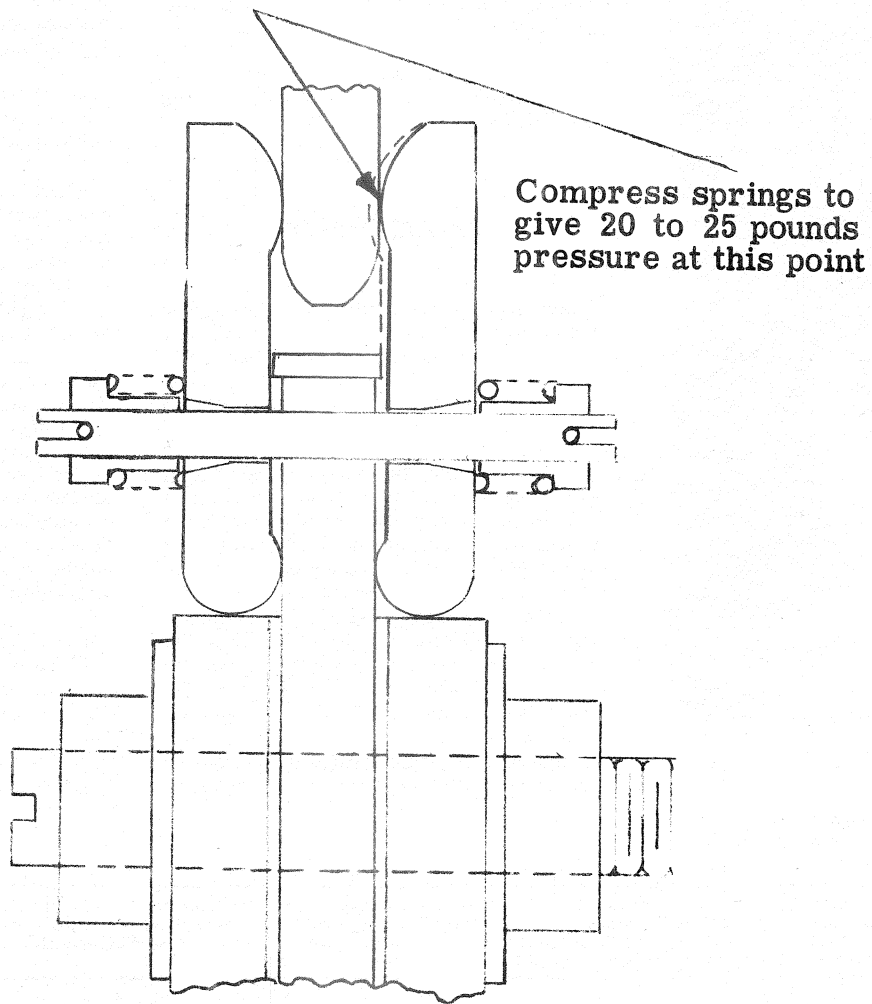


Fig. 2 (8915900)

Fig. 2 Contact Finger Assembly