

S W I T C H G E A R
O P E R A T I O N
S E R V I C E A D V I C E

SUBJECT: INTERMITTENT TRIP-FREE BREAKER
CAUSED BY INADEQUATE CLEARANCE
BETWEEN RESET LATCH AND CLEVIS
PIN

TAB 073B
SWGR OPER

SA NO. 306.0

Subject Product

All AKR-75/100 and AKS-50 breakers shipped prior to July 1990.

Problem

There have been instances reported of inadequate clearance between the reset latch # 568B270P1 and clevis pin # 192A7573P229. Lateral movement then can cause these parts to contact each other during a closing operation which will push the reset roller out of the way and the trip latch may not reset, resulting in a trip free operation.

If attempted operations continue, the prop latch bracket possibly could knock the retaining ring off the clevis pin when they contact. We have had one report of this occurring in the field.

Continued operations could result in a major breaker failure.

Recommended Action

Inspection should be made at the next planned maintenance unless a trip-free malfunction has occurred, and in such a case, inspection should be made immediately.

Corrective Action

The breaker must be open with all power removed and close springs discharged then removed from cubical. The best view can be obtained by turning the breaker over carefully on it's primary stabs to view the mechanism from the bottom.

See Maintenance Manual #GEK-64460, page 26, 27 Figure 22A, B, C, D. The breaker should be in the reset position as shown in figure 22B. Inspect for the relative position of reset latch (part 14) and clevis pin (part 12), with parts pushed to show worst case for interference. Clevis pin should be pushed to the right and reset latch pushed to the left. Although minimum clearance with present day production parts will be about 0.02 inches, field units will be considered acceptable if there is no evidence of hitting and there is an apparent clearance of at least 0.005 inches. See attached sheet for better clarification.

In the event that clearance is inadequate, a replacement part 568B272G1 should be installed, which GE will provide at no cost to the user, although the field installation is the responsibility of the user.

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