

PARTS & SERVICE NEWS

REF NO.	AA01013
DATE	January 11, 2000

SUBJECT: RECTIFIER PANEL (PB6489) ON ELECTRIC DRIVE DUMP TRUCKS

PURPOSE: Inform the field of a modification of the Repair / Replacement Procedure of Rectifier Panel (PB6489 and GE0557)

APPLICATION: All Komatsu Electric Drive Dump Trucks [445E: AFE39-A & Up, AFE41-A & Up; 510E: AFE40-A & Up, AFE44-A & Up; 630E: AFE42-A & Up, AFE46-A & Up; 685E: AFE43-A & Up; 730E: AFE47-A & Up, A30079 & Up; 830E: AFE32-A & Up, AFE50-A & Up, A30544 & Up; 930E: AFE48-A & Up, A30026 & Up]

FAILURE CODE: 086AZ9

DESCRIPTION: Modification of Repair / Replacement Procedure of Rectifier Panel (PB6489 and GE0557)

This repair procedure has superseded any and all prior published procedures of the rectifier panel (PB6489 and GE0557). Disregard any other repair or replacement procedures.

The rectifier panel contains six heat sink assemblies. All previous heat sink assembly part numbers have been superseded by part number (GE0558). Therefore, heat sink assembly (GE0558) should be used to replace all failed heat sink assemblies. Refer to Figure 1.

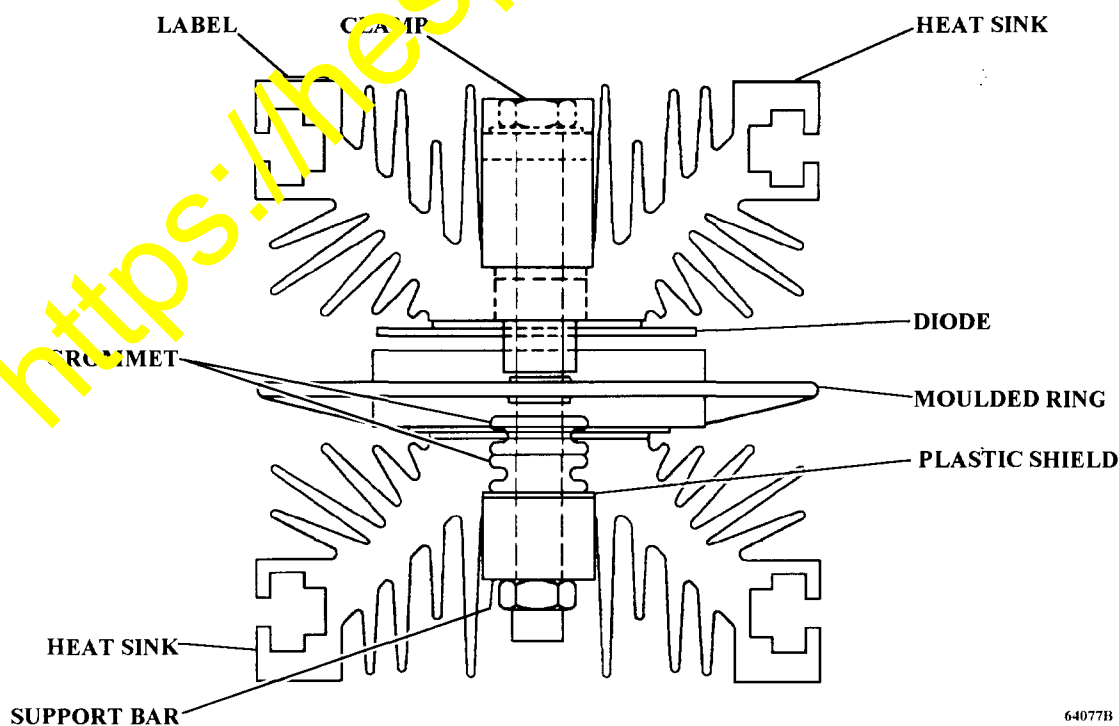


Figure 1. Heat Sink Assembly GE0558

64077B

⚠ WARNING

Use precautions when handling suspected failed heat sink assemblies. Heat sink assemblies are under pressure and could burst. Although the impact velocity of a fragment should be low, the risk of a fragment having sharp edges may exist.

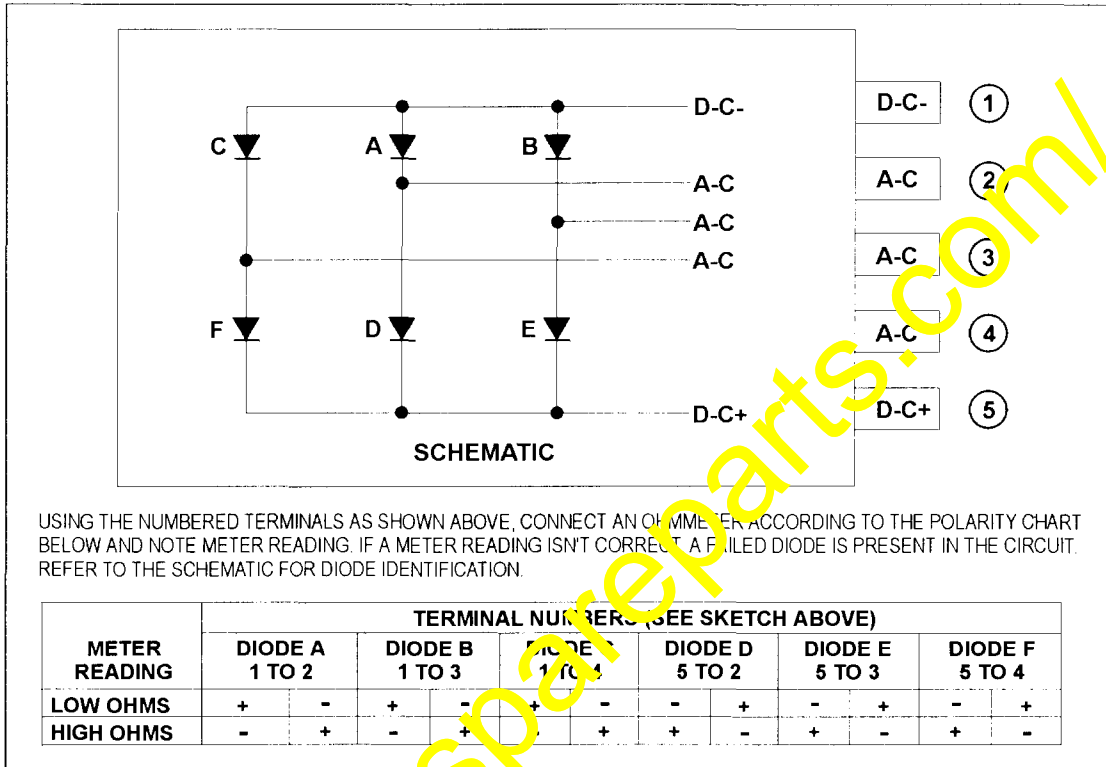


Figure 2 Schematic and Polarity Chart

Only failed heat sink assemblies should be replaced. If a problem is suspected in the rectifier panel, use the following procedure and refer to Figure 2 in order to troubleshoot the rectifier panel:

1. Remove the cover and inspect the interior of the panel for loose busbar connections.
2. Check for a failed diode as follows:
 - a. Remove all external cables from a-c, d-c(+) and d-c(-) busbar connections.
 - b. Using an ohmmeter, connect the (+) and (-) leads according to Figure 2 and note the readings.
3. If a failed diode is found, replace the heat sink assembly as a unit.

Heat sink assemblies that have not failed should not be removed or replaced. If a failure occurs during the warranty period, then the failed heat sink assembly should be returned in order to identify the failure mode. Photos of the failed heat sink assembly may be submitted for claims made by international distributors.

Diode replacement within the heat sink assembly is not recommended and will void any and all warranties relating to the heat sink assembly.