

Maintenance Procedure

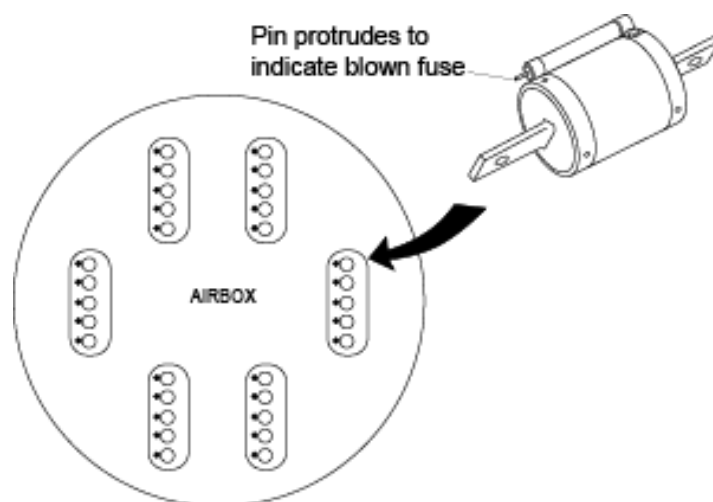
No. MP835

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TASK DESCRIPTION
INSPECTION AND CLEAN RECTIFIER BANKS
BUILDER'S OR VENDOR'S MAINTENANCE INSTRUCTIONS
MPI LOCOMOTIVE MAINTENANCE MANUAL, SECTION 8
SPECIAL TOOLS REQUIRED:
RELATED MAINTENANCE PROCEDURES MODIFICATIONS, POINTERS, ETC.
SAFETY PRECAUTIONS:
CONTRACTOR TO ASSUME RESPONSIBILITY FOR SAFETY RULES AND COMPLIANCE.
PREPARATION:

PROCEDURE

1. Inspect rectifier bank for blown fuses.
2. Remove heat sink assemblies from the alternator.
3. Remove all fuses from rectifier banks to prevent damage to fuses during cleaning. If there is no visible damage to diodes, diodes should be checked in heat sinks. If there is a reason to remove diodes before cleaning, inserts such as discarded diodes should be placed in diode holes to protect diode contact surface on the heat sinks. Use special diode wrench to remove diodes.



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WARNING

Water or cleaning solution allowed to contaminate the arc quenching sand inside the fuse body can cause the fuse to explode when it is required to isolate a shorted diode.

4. Mix a steam cleaner such as Dober Chemical Corporation Cleaner 6006 or Turco Chemical Company Steamfast in a suitable container (3 oz. per gal. of water) and maintain a tank temperature of approximately 140°F.



WARNING

Protect skin, and clothing while steam cleaning. Operator should always wear rubber apron, boots, gloves, and a plastic face shield.

5. Place steam gun suction pipe into the cleaning solution and regulate the gun to obtain a good soapy solution.



CAUTION

Do not use live steam alone to clean the assemblies, and do not soak the assemblies in a caustic solution. If diodes are removed from the heat sink, assemblies must not be cleaned with an abrasive material or wire brush. Such cleaning will destroy the finish and reduce heat rejection capability.

6. Clean all parts of the heat sink assembly, keeping the gun nozzle 4-6" from the work.
7. Thoroughly rinse the assembly with a low pressure stream of clean water to remove all residue.
8. Blow off remaining clean water with dry air.
9. After cleaning, the assembly should be checked for flash damage or damage caused by shorting to ground. If damage has occurred, dismantle the assembly and replace any defective parts with new parts. If no damage is found, assembly need not be dismantled.

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