

Maintenance Procedure

No. P504

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TASK DESCRIPTION
INSPECT GEAR CASE FOR DAMAGE AND SEAL LEAKAGE. CHECK LEVEL OF LUBRICANT AND ADD IF NECESSARY.
BUILDER'S OR VENDOR'S MAINTENANCE INSTRUCTIONS
EMD M.I. 3900, Rev. G, p. 17 (lubricant) - General Maintenance Traction Motors Model D37, D57, D67, D75, D77, D87 and M.I. 1756 Rev. E – p. 5 Lubricant Specification MPI Locomotive Maintenance Manual, Section 7
SPECIAL TOOLS REQUIRED:
RELATED MAINTENANCE PROCEDURES MODIFICATIONS, POINTERS, ETC.
For TMs having friction bearing suspension system, apply trammo grease. For TMs having roller bearing suspension system, apply gear oil (honey lubricant).
SAFETY PRECAUTIONS:
CONTRACTOR TO ASSUME RESPONSIBILITY FOR SAFETY RULES AND COMPLIANCE.
PREPARATION:
Ensure locomotive secure from movement.

PROCEDURE

1. Visually inspect gear case for damage and seal leakage.

Note: *If gear case is damaged or seal is leaking the traction motor will need to be changed out.*

2. Open bottom gear case filler cap.
3. Identify style of traction motor suspension bearing (friction or roller).
4. Check gear case lubricant level after the locomotive has been stopped for at least one-half hour.
 - 4.1 Determine the need for lubricant for a tramo grease lubricated gear case by observing the condition of the gear teeth through the gear case inspection opening. Gear teeth appearing dry or having bright spots indicate that lubricant should be added.
 - 4.2 Determine the need for lubrication for an oil lubricated gear case by ensuring the level of oil is at the bottom of the filler cap.

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CAUTION

Gear lubricant must be maintained at sufficient depth to allow the full tooth to dip into the oil or grease; however, the gear case must not be overfilled. If gear case is overfilled, the gear case seals will leak and lead to seal failure in a short time.

5. Add the recommended lubricant in accordance to style of bearing when the inspection indicates the need.
 - 5.1 For friction bearings add two pounds of trammo lubricant.
 - 5.2 For roller bearings add honey lubricant until level with bottom of lower cap.
6. Close inspection plug.

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