

Maintenance Procedure

No. P501

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TASK DESCRIPTION
WITH ENGINES IDLING CHECK CYLINDER HEAD MECHANISM FOR ANY DEFECTS OR ABNORMAL NOISES
BUILDER'S OR VENDOR'S MAINTENANCE INSTRUCTIONS
GM 710 G3 Maintenance Manual
SPECIAL TOOLS REQUIRED:
RELATED MAINTENANCE PROCEDURES MODIFICATIONS, POINTERS, ETC.
SAFETY PRECAUTIONS:
CONTRACTOR TO ASSUME RESPONSIBILITY FOR SAFETY RULES AND COMPLIANCE.
PREPARATION:
1) Locomotive secured from movement
2) Main engine idling (Isolation Switch in START position)
3) Top deck covers open and secured in place.

PROCEDURE

- 1 Check cover seals (gaskets), cover support arms and cover hinges.
- 2 Listen for abnormal noise (knocks).
- 3 Inspect injector linkages (figure 1) for loose lock nuts and missing clevis pins.
- 4 Examine rocker arms, cam rollers and cam shaft lobes for wear and other defects (figure 2).
- 5 Check lube oil lines (figure 3) – Cam shaft bearings to rocker arms.
- 6 Check lube oil flow from cam shaft bearings to rocker arm shaft and lash adjusters.
- 7
 - a) Visually check for dropped valves – same indicated by wear at valve locks.
 - b) Check for broken valves and bridge springs.
 - c) Check for loose lash adjusters, collapsed lash adjusters, camshaft connecting bolts.
- 8 (figure 1)
 - a) Check for indication of broken fuel jumper lines to injectors.

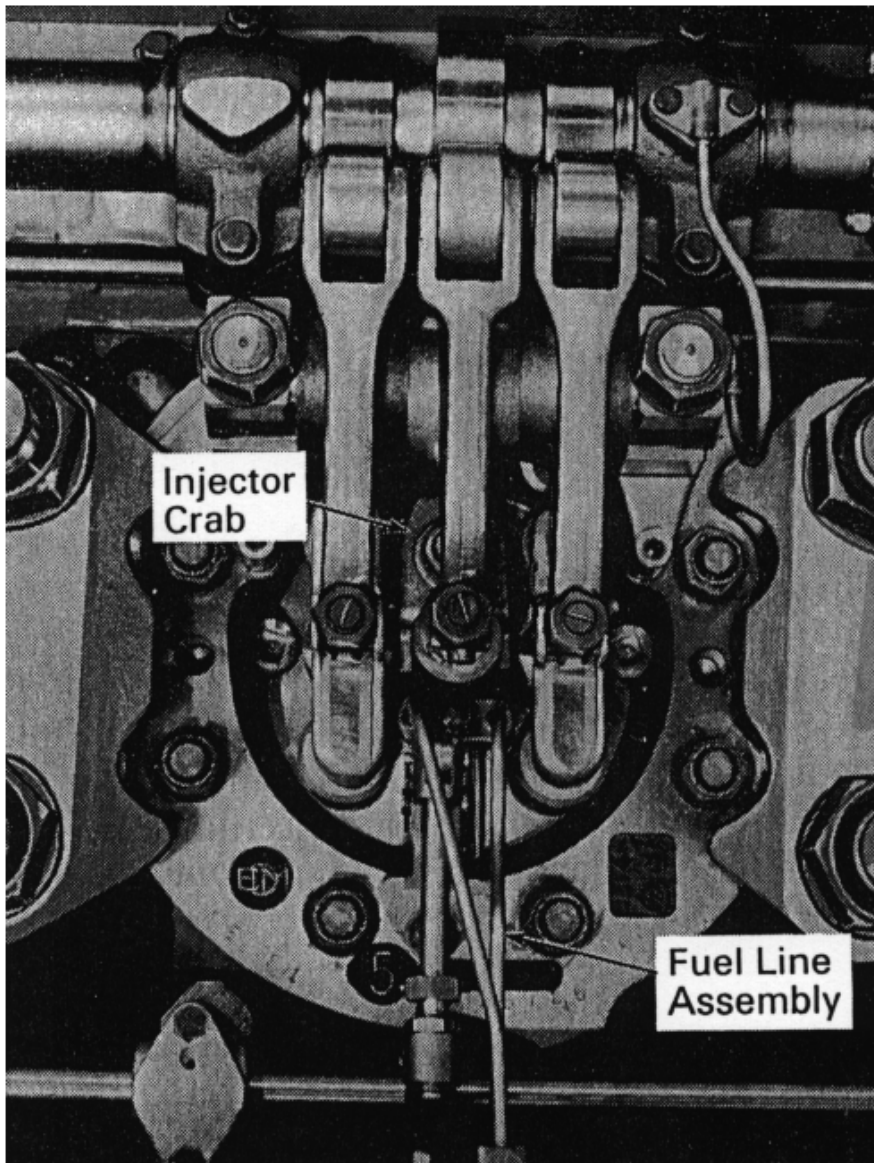
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- b) Check for fuel leaks at manifolds and injectors.
 - c) Inspect cylinder head lifting holes and liner studs if broken and for cracks.
 - d) Inspect for water leaks at cylinder head discharge elbows and for water at drain tubes.
 - e) Hand test cylinder head crab nuts and liner nuts to ensure they are not broken.
 - f) Check for carbon build up or bubbles which are an indication of exhaust leaks – Inspect around liner studs, cylinder heads ring seats and injectors. Test cock tubes.
- 9 After inspection advise immediate supervisor of any concerns or defects.
- 10 Close top deck covers, ensuring that same are secured in place.
- 11 Wipe any oil seepage from engine surface which may have resulted from this inspection.
- 12 Record work completed and any discrepancies on work sheets.

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FUEL LINE ASSEMBLY

Figure 1

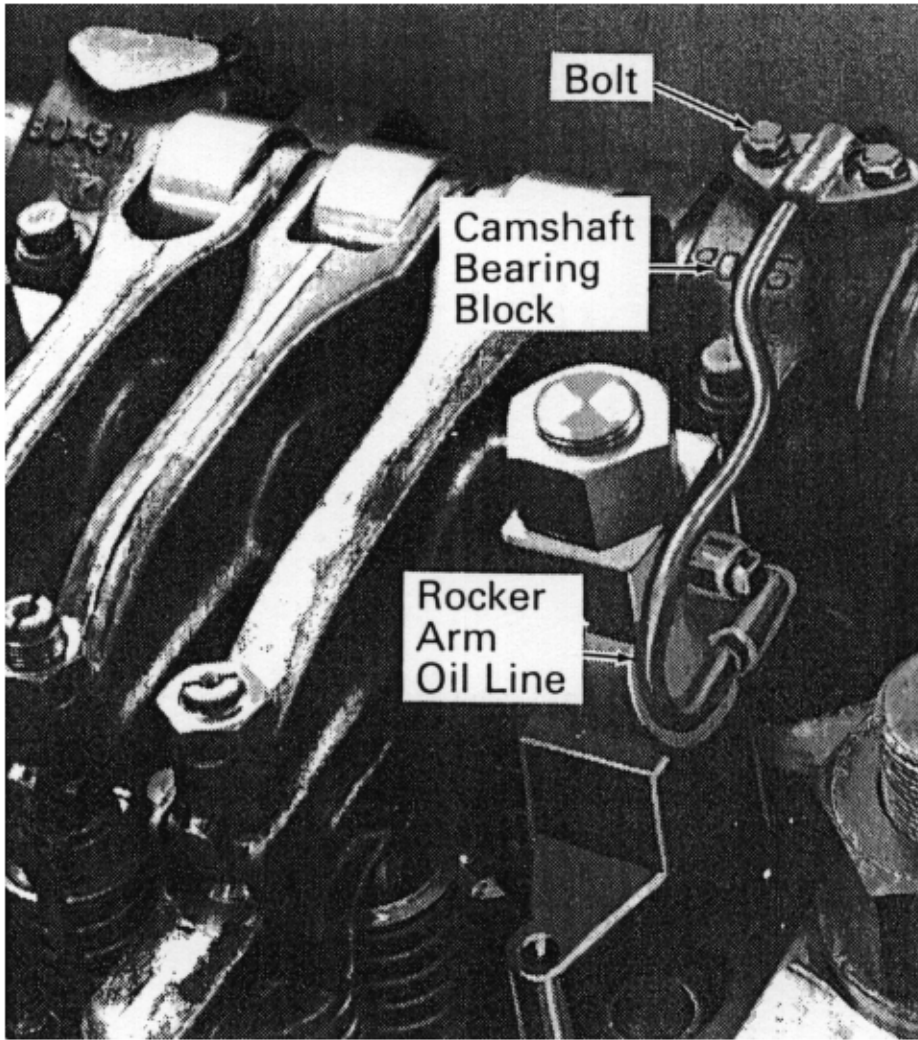
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ROCKER ARM ASSEMBLY

Figure 2

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ROCKER ARM OIL LINE

Figure 3

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