

TECHNICAL INFORMATION



Rocker Arm Rattle/Tapping Sound

No: 12/02/00/NAS
Ref: WSM Section 12
Overhaul Manual
Replaces TIB 12/01/98/NAS
Issue: 2
Date: 12/22/00

AFFECTED VEHICLE RANGE:

RANGE ROVER (LP) WA382672 to YA437311
DISCOVERY SERIES II (LT) Up to YA265404
DISCOVERY (LJ) WA753113 to XA795263

SITUATION:

NOISE FROM ENGINE VALVE TRAIN/ROCKER ARMS

Customer complaints of a rattling/tapping noise from the engine found to originate from rocker shaft area may be the result of the hardened push-rod cup being insecure in the rocker arm.

RESOLUTION:

NOTE: This bulletin supersedes and replaces TIB 12/01/98/NAS.

INSPECT AND REPLACE ROCKER ARMS

Investigate customer complaints of valve rattling/tapping noise on vehicles **within the above VIN ranges** and identify rocker arms with loose push-rod cups. If noisy or loose rocker arms are encountered during the inspection, replace all rocker arms with updated parts.

PARTS INFORMATION:

NOTE: Inspect all parts in inventory prior to use. No rocker arms which have A DATE CODE BEFORE '00' may be used as a replacement part. Normal PAF procedure should be followed using Reason Code "OH" to claim for older inventory. Reference this bulletin in the dealer remarks area.

602154LH Rocker Arm
602153RH Rocker Arm

WARRANTY CLAIMS:

NOTE: Time as in Rave Labor Operation Repair Times Manual for vehicle under repair. Use the appropriate SROs listed below:

Overhaul both shafts, use:

12.29.55 - Remove both rocker covers and check rocker arms. Renew rocker arms as required on both shafts

Where only rocker arms on the LH rocker shaft require> replacement, claim as> follows:

12.29.49 - Remove LH rocker cover and check rocker arms. Renew> rocker arms as required on LH shaft. Use together with: 12.29.41 - Remove and refit RH rocker cover.

Where only rocker arms on the RH rocker shaft require replacement, claim as follows:

12.29.50 - Remove RH rocker cover and check rocker arms. Renew> rocker arms as required on RH shaft. Use together with: 12.29.40 - Remove and refit LH rocker cover

FAULT CODE: ..K

Normal warranty policy and procedures apply

TIB	CIRCULATE:	Service Mgr	Warranty	Workshop	Body Shop	Parts
12/02/00/NAS	TO	X	X	X	X	X

REPAIR PROCEDURE:

DETERMINE FAULTY ROCKER ARMS AND REPLACE

1. Refer to Workshop Manual, Section 12, Engine Repairs, and remove both rocker covers.
2. Determine that rocker arms with loose cups are the source of the noise.
3. Locate the rocker arm casting date code on each rocker arm.



CAUTION: Only rocker arms with date codes '00' may be used to repair valve trains. Use of early production rocker arms may result in a reoccurrence of the problem.

4. Refer to Overhaul Manual LRL0004ENG and replace all rocker arms manufactured prior to a '00' date code with new rocker arms having date code '00' or above. (Figure 1)
5. Assemble and install rocker arm assemblies.
6. Install rocker arm covers.
7. Start the engine and confirm that the rattling/tapping noise has been resolved.

Figure 1

