

TECHNICAL INFORMATION



No: 54/02/01/NAS
Ref:
Issue: 1
Date: 05/11/01

New Driveshaft Bearing Installation

AFFECTED VEHICLE RANGE:

Discovery Series II (LT)

Up to 1A294014
XA900000 to XA904569

SITUATION:

VIBRATION FROM DRIVE LINE

The customer may experience vibrations at higher road speeds. These vibrations may be the result of small out-of-balance or alignment conditions with the rear prop shaft.

RESOLUTION:

PROPER ALIGNMENT OF PROP SHAFT

Careful alignment of the rear prop shaft to closer tolerances will reduce or eliminate vibration. Installation of a new style center bearing at the rear differential is particularly important to this process. The new bearing contains a metal inner surface.

PARTS INFORMATION:

TVD000020.....Prop shaft Bushing

WARRANTY CLAIMS:

47.11.89/26.....Time .80 hrs.

Install new bushing in rear drive shaft and align centering peg

FAULT CODE: W

*Normal warranty policy and procedures apply.
Material allowance is included in labor operation.*

REPAIR PROCEDURE

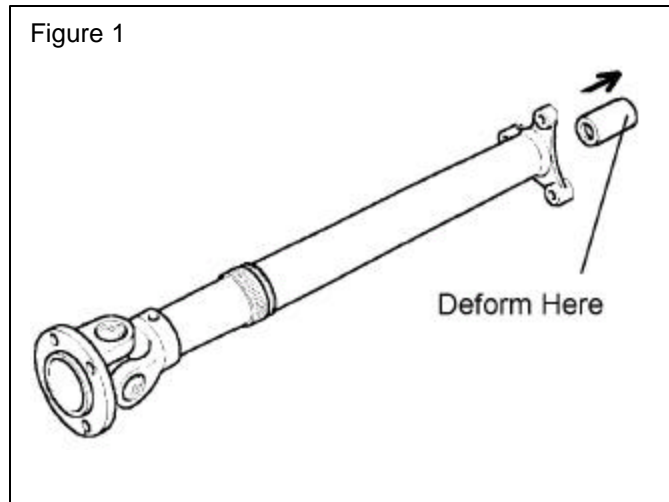
REMOVE THE REAR PROP-SHAFT

1. Remove the rear prop shaft.
2. Check that the run-out of the rear differential centering peg is less than 0.05 mm (0.002 in.).
3. If the run-out is greater than 0.05 mm, reset the centering peg to obtain the required tolerance as follows:
 - Clean the entire work area thoroughly.
 - Using a puller, remove the centering peg.
 - Verify that the bore for the peg is completely clean and free of burrs.
 - Carefully align the centering peg to the hole and press back into position.
 - Verify run-out is less than 0.05 mm (0.002 in.).
4. Remove the prop shaft coupling from the shaft.

TIB 54/02/01/NAS	CIRCULATE: TO	Service Mgr X	Warranty X	Workshop X	Body Shop X	Parts X
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5. Remove the centering device rubber "bearing" component from the prop shaft as follows:
 - Position the prop-shaft with the bearing upward and clamp shaft in a vise.
 - Position a cold chisel or air chisel against the side of the outer bearing sleeve.
 - Use chisel to deform the outer steel bearing sleeve to create a purchase groove. (Figure 1)
 - Continue to drive the bearing sleeve from the housing using the chisel.
 - Withdraw the deformed metal sleeve from the prop shaft coupling.

Figure 1



INSTALL NEW CENTER BEARING AND TEST



CAUTION: Use a drift or press tool that makes contact only on the outer diameter of the new center bearing during installation.

1. Remove all debris and residue from the prop shaft cavity.
2. Inspect cavity to ensure that it was not damaged during center bearing removal.
3. Position the new center bearing (TVD000020) onto the prop-shaft.
4. Using a brass hammer and drift (LRT-54-008/10 works well) press the center bearing into the prop shaft until it bottoms in the cavity
5. Fill the center bearing area with multi-purpose chassis grease.
6. Install the rear prop-shaft onto the vehicle.
7. Test-drive the vehicle:
 - Drive at the identified problem speeds.
 - Progress to faster speeds where possible.
8. Verify that vibration has been reduced to an acceptable level.
9. If the problem persists, contact the Land Rover HelpLine (800 562 5835) for additional information.