

GROUP 27 – REAR AXLE

BULLETIN No.	SUBJECT	MODEL
27/2003/001	Rear differential bushes	NM/NP Pajero
27/2002/001	Test procedure for Hybrid LSD rear axle	Hybrid LSD
27/2002/002	Rear suspension crossmember bushing replacement	Pajero
27/2002/003	Addition to test procedure for LSD rear axle	LSD



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SERVICE BULLETIN

GROUP: 27 – Rear axle

DATE: October 2003

NO. 27/2003/001


MODEL: PAJERO NM/NP

SUBJECT: Inspection of rear differential support bushes

COUNTRIES:

Australia

R.I.WYATT
MANAGER - AFTERSALES
TECHNICAL SUPPORT

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Bulletin Consists of 2 Pages

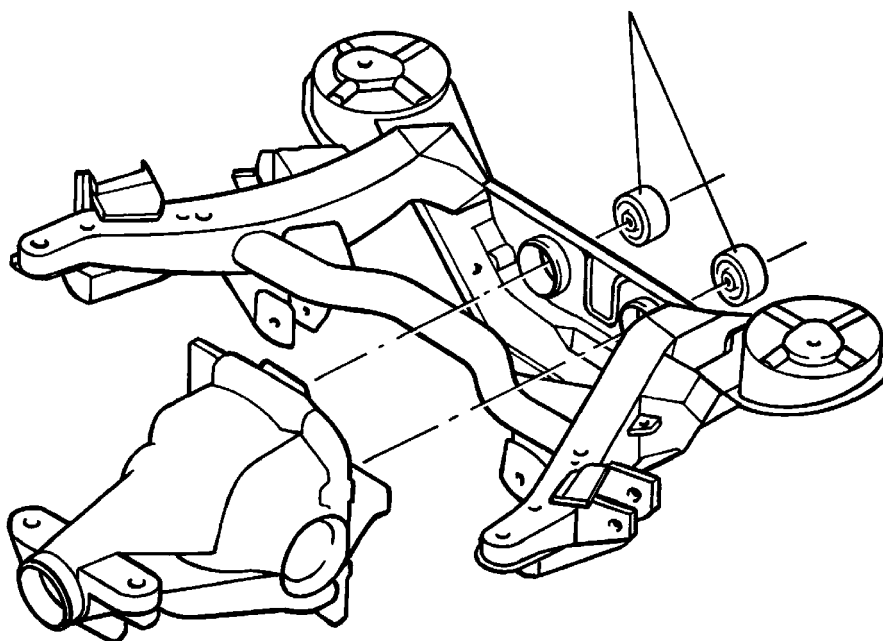
The purpose of this bulletin is to advise of inspection procedures for the rear differential support bushes Pt No's MR418671 (LH) and MR554076 (RH).

There have been instances of these bushes being replaced for "cracking" after inspection has mis-interpreted the visual appearance of these components.

NOTE: As part of the production process the rubber may take on the appearance of being wrinkled, have folds in the surface finish or exhibit excessive moulding flash that without further close inspection may be mistaken for "cracking".

These appearance defects do not in any way affect the operation or durability of the component and technicians should positively confirm any condition they may consider to be a fault, prior to taking the decision to replace these items.

Rear differential support bushes



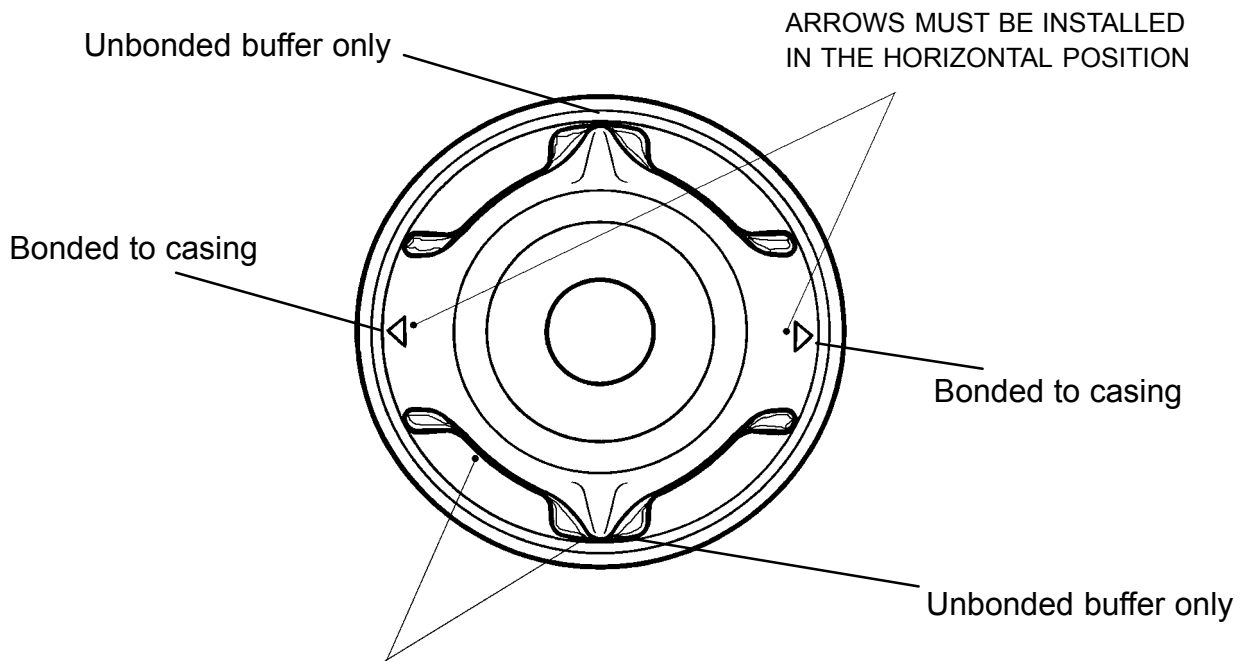
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BUSH ORIENTATION AND INSPECTION

Removal and installation procedures including special tool requirements have previously been provided to the field by Service bulletin 27/2002/002.

It is important that the bushes are installed with the arrows in the horizontal position for both the left hand (MR418671) and the right hand (MR554076) bushes.





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SERVICE BULLETIN

GROUP: 27-Rear Axle

DATE: October 2002

NO. 27/2002/001

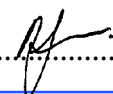
MODEL: Hybrid LSD

SUBJECT: Test procedure for Hybrid LSD rear axle

COUNTRIES:

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Bulletin Consists of 1 Page

The purpose of this bulletin is to advise of a procedure to be used in testing the operation of the Hybrid LSD rear axle.

Inspection procedure

1. Raise the vehicle using a two post hoist to allow all wheels to be free of the ground.
2. Place a suitable sized piece of timber (about 100mmx100mm) under one of the rear wheels.
3. Lower the hoist so as the rear wheel is in firm contact with the timber.

Note:

Ensure that three wheels are free of the ground. Attach a secure tether to the timber or place a guard fence at the rear of the vehicle to avoid injury should the timber be suddenly pushed out from beneath the wheel.

4. Start the engine.
5. Select 2WD
6. Shift into "D" range and depress the accelerator slowly to approximately 1500 RPM.
7. Confirm that the timber is not pushed out of contact with the wheel (depending on conditions the timber may move slightly due to the VCU).
8. Shift into "N" range and apply the brake to stop wheel rotation.
9. Apply the parking brake fully.
10. Shift into "D" range and depress the accelerator slowly to approximately 1500 RPM.
11. Correct operation of the hybrid LSD will result in the timber being pushed out from between the wheel and ground.

Note:

While performing these procedures ensure that the accelerator is depressed slowly and that all safety precautions are adhered to.

Affected vehicles

PA Challenger
NM Pajero



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SERVICE BULLETIN

GROUP: 27-Rear Axle

DATE: November 2002

NO. 27/2002/002

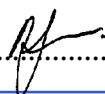
MODEL: Pajero

SUBJECT: Rear suspension crossmember bushing replacement.

COUNTRIES:

Australia

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Bulletin Consists of 4 Pages

The purpose of this bulletin is to advise that a procedure for the rear suspension cross-member bushing replacement has been added to the Pajero workshop manual.

Applicable manual:

Manual	Publication number	Page
2001 PAJERO Workshop Manual Vol.2	PWJE0005	27-7, 24



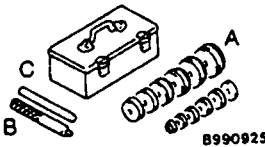
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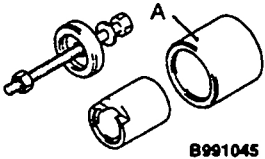
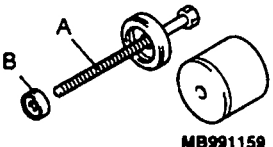
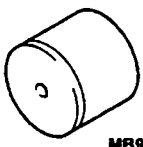
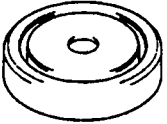
3. Details:

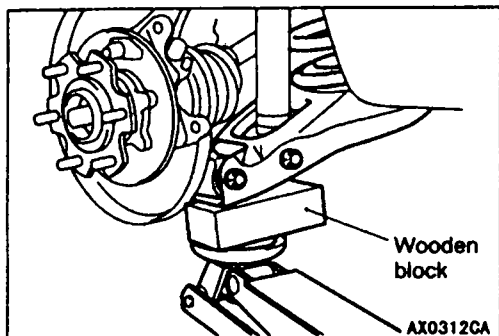
REAR AXLE – Special Tools

27-7

Tool	Number	Name	Use
	MD998812	Installer cap	Press-fitting of the side bearing inner race
	MD998829	Installer adaptor	
	MB990925 A: MB990926– MB990937 B: MB990938 C: MB990939	Bearing and oil seal installer set A: Installer adaptor B: Bar C: Brass bar	<ul style="list-style-type: none"> • Press-fitting of oil seal • Inspection of drive gear tooth contact • Removal of bearing outer race For details of each installer, refer to GROUP 26 – Special Tools.

<Added>

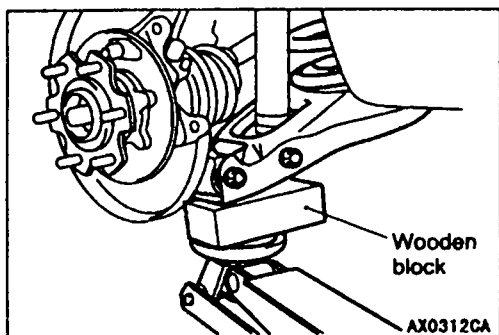
	MB991045 A: MB991050	Bush remover and installer A: Base (B)	Removal of the rear suspension crossmember bushing
	MB991159 A: MB991162 B: MB991218	Bush remover and installer A: Bolt B: Bearing	Removal and press-fitting of the rear suspension crossmember bushing
	MB991816	Bush remover and installer base	
	MB990955	Oil seal installer	Press-fitting of the rear suspension crossmember bushing

**REMOVAL SERVICE POINTS****◀A▶ KNUCKLE AND LOWER ARM DISCONNECTION**

Attach wooden block to the lower arm as shown in the illustration and use the floor jack to remove the lower arm mounting bolt by compressing the coil spring.

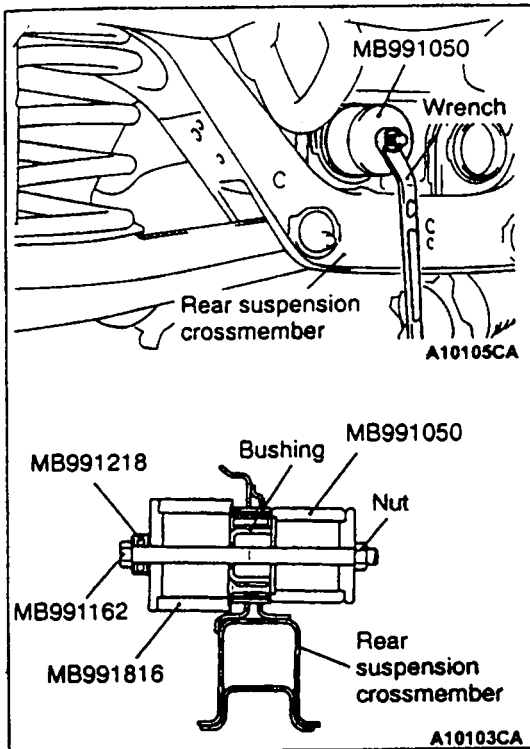
◀B▶ DIFFERENTIAL CARRIER ASSEMBLY REMOVAL

Support the differential carrier lower part by jacking to remove the joint bolt and the differential carrier assembly.

**INSTALLATION SERVICE POINT****▶A◀ KNUCKLE AND LOWER ARM CONNECTION**

Attach wooden block to the lower arm as shown in the illustration and use the floor jack to install the lower arm mounting bolt by compressing the coil spring.

REAR SUSPENSION CROSSMEMBER BUSHING REPLACEMENT added here.

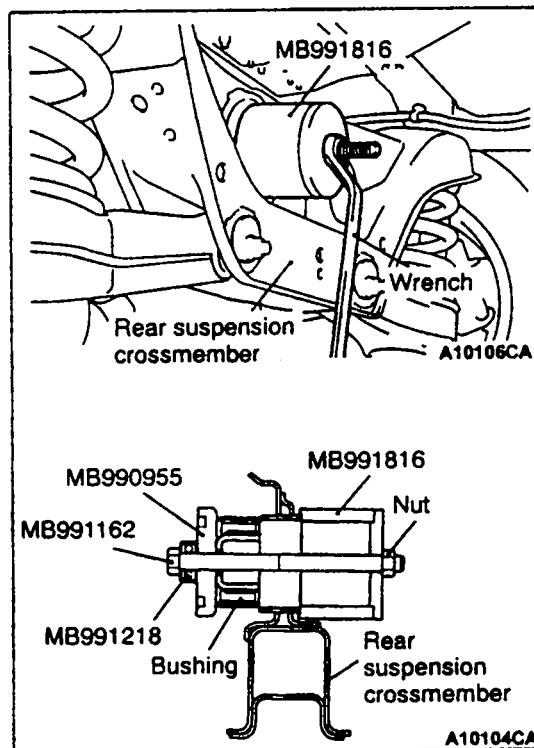


REAR SUSPENSION CROSSMEMBER BUSHING (FOR REAR DIFFERENTIAL MOUNT) REPLACEMENT

1. Remove the rear differential.
2. Remove the exhaust main muffler (short wheelbase vehicles).
3. Using the special tools, remove the bushing.

NOTE:

When the bushing is removed, make sure that the special tool MB991162 is inserted from the front of the vehicle and that the nut is secured with a wrench, etc.



4. Using the special tools, install the bushing.

NOTE:

When the bushing is installed, make sure that the special tool MB991162 is inserted from the front of the vehicle and that the nut is secured with a wrench, etc. The bushing should be installed such that the end surface of the bushing is flush with the rear suspension crossmember.

5. Install the exhaust main muffler (short wheelbase vehicles).
6. Install the rear differential.



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SERVICE BULLETIN

GROUP: 27-Rear Axle

DATE: November 2002

NO. 27/2002/003

MODEL: LSD

SUBJECT: Addition to test procedure for LSD rear axle

COUNTRIES:

Australia

R.I.WYATT
MANAGER - AFTERSALES
TECHNICAL SUPPORT

Bulletin Consists of 1 Page

The purpose of this bulletin is to advise of a procedure to be used in testing the operation of all LSD rear axles that rely on the application of the handbrake for correct operation.

Inspection procedure

1. Raise the vehicle using a suitable hoist to allow all wheels to be free of the ground.
2. Place a suitable sized piece of timber (about 100mmx100mm) under one of the rear wheels.
3. Lower the hoist so as the rear wheel is in firm contact with the timber.

Note:

Ensure that three wheels are free of the ground. Attach a secure tether to the timber or place a guard fence at the rear of the vehicle to avoid injury should the timber be suddenly pushed out from beneath the wheel.

4. Start the engine.
5. Select 2WD
6. Select 1st (Man) or "D" range (Auto) and depress the accelerator slowly to approximately 1500 RPM.
7. Confirm that the timber is **not** pushed out of contact with the wheel (depending on conditions the timber may move slightly with the Hybrid differential due to the VCU contained within the differential construction).
8. Shift into "N" range and apply the brake to stop wheel rotation.
9. Apply the parking brake fully.
10. Select 1st (Man) or "D" range (Auto) and depress the accelerator slowly to approximately 1500 RPM.
11. Correct operation of the LSD **will result in the timber being pushed out** from between the wheel and ground.

Note:

While performing these procedures ensure that the accelerator is depressed slowly and that all safety precautions are adhered to.

Affected vehicles

All vehicles that rely on the application of the hand brake, **as stated in the operators manual**, for the correct operation of the limited slip function of the rear differential.

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