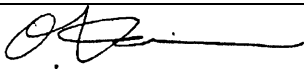


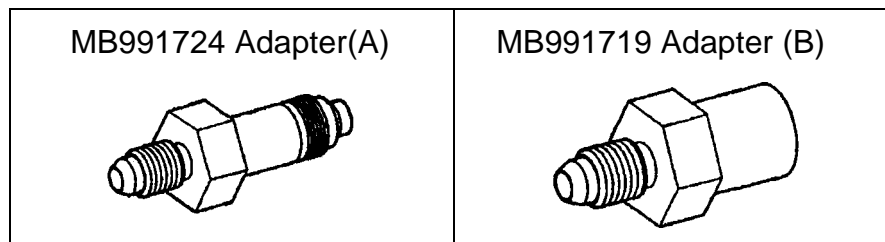
SERVICE BULLETIN

PUBLICATION GROUP, AFTER SALES SERVICE DEP.
MITSUBISHI MOTOR SALES EUROPE BV

SERVICE BULLETIN		No.: ESB-97E37-501	
		Date: 1997-09-26	<Model> (EC,EXP) CARISMA
Subject: POWER STEERING OIL PUMP PRESSURE TEST NEEDED BY AVAILABILITY OF SPECIAL TOOLS		<M/Y> 97-10	
Group: STEERING			
CORRECTION		 O. Kai - E.V.P. & G.M. After Sales Service Dept.	

1. Description:

Whit availability of the special tools for measurement of oil pressure of the power steering oil pump on the F8QT engine equipped car, descriptions of the power steering oil pump pressure test have been added.



2. Applicable Manuals:

Manual	Pub. No.	Language	Page(s)
'97 CARISMA Workshop Manual Chassis SUPPLEMENT	PWDE9502-A	(English)	37A-1
	PWDS9503-A	(Spanish)	
	PWDF9504-A	(French)	
	PWDG9505-A	(German)	
	PWDD9506-A	(Dutch)	
	PWDW9507-A	(Swedish)	
	PWDI96E1-A	(Italian)	

3. Details:

GROUP 37A

STEERING

GENERAL

OUTLINE OF CHANGES

- The following service procedures have been added to the addition of the diesel-powered vehicle.
Applicable models: 1900D
 - Removal and installation of the power steering oil pump
 - Removal and installation of the power steering hoses

POWER STEERING OIL PUMP REMOVAL AND INSTALLATION

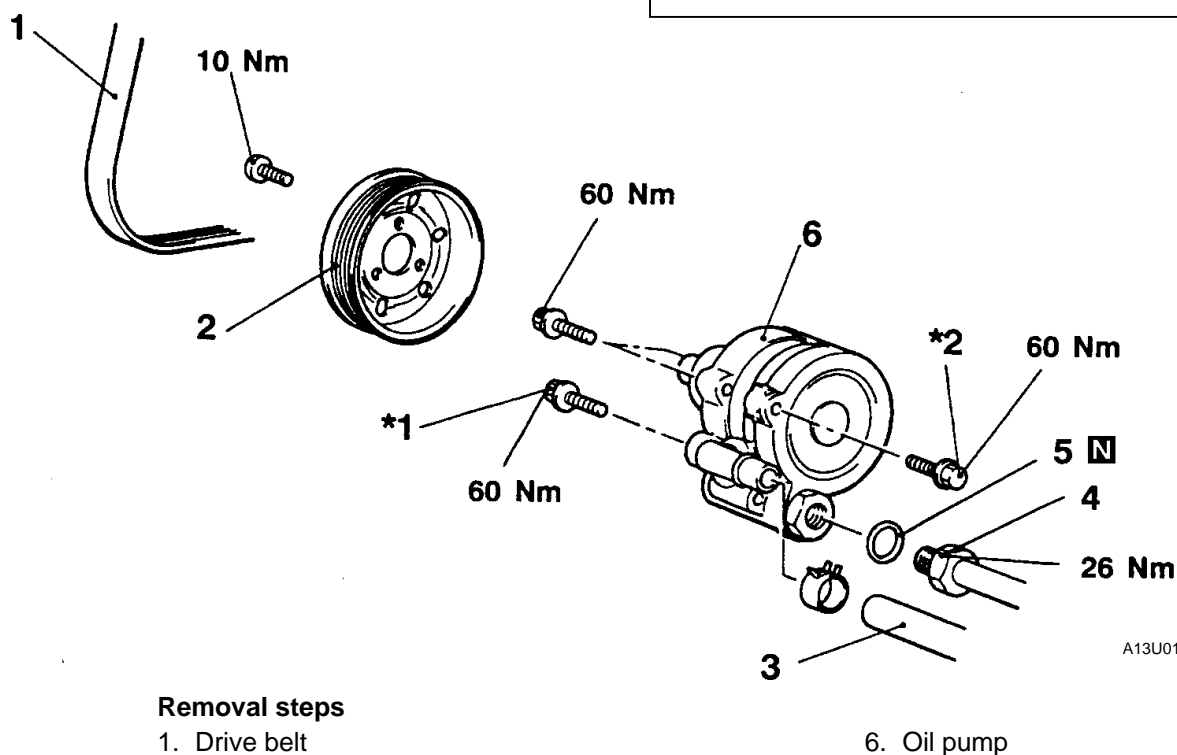
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Pre-removal Operation

- Power Steering Fluid Draining
- Timing Belt Lower Cover Removal (Refer to GROUP 11 - Crankshaft Pulley.)

Post-installation Operation

- Power Steering Fluid Supplying
- Drive-Belt Tension Adjusting
- Power Steering Fluid Line Bleeding
- Oil Pump Pressure Check
- Timing Belt Lower Cover Installation (Refer to GROUP11 - Crankshaft Pulley.)



Removal steps

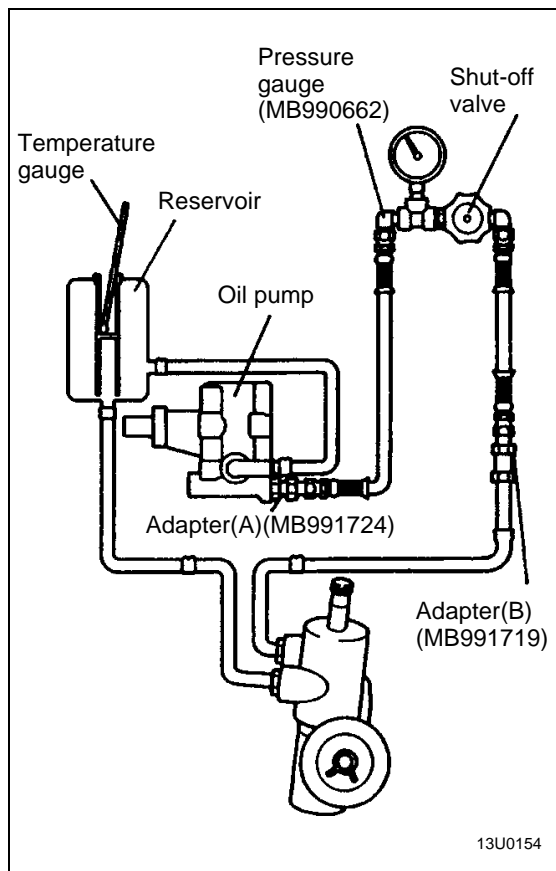
- Drive belt
- Power steering pump pulley
- Suction hose connection
- Pressure hose connection
- O-ring

NOTE

- *1: Vehicles with A/C
*2: Vehicles without A/C

INSPECTION

Check the drive-belt for cracks.
Check the pulley assembly for uneven rotation.



OIL PUMP PRESSURE TEST

1. Put a piece of paper over the alternator to protect it against the power steering fluid.
2. Disconnect the pressure hose from the oil pump, and then connect the special tools.
3. Bleed the air, and then turn the steering wheel several times while the vehicle is not moving so that the temperature of the fluid rises to approximately 50-60 °C.
4. Start the engine and idle it at 1,000±100 r/min.
5. Fully close the shut-off valve of the pressure gauge and measure the oil pump relief pressure to confirm that it is within the standard value range.

Standard value: 9.8 Mpa

Caution

Pressure gauge shut off valve must not remain closed for more than 10 seconds.

6. If it is not within the standard value, replace the oil pump.
7. Check whether or not the hydraulic pressure is the standard value when no-load conditions are created by fully opening the shut-off valve of the pressure gauge.

Standard value: 0.2-0.5 Mpa

8. If it is not within the standard value, the probable cause is a malfunction of the oil line or steering gear box.
9. Fully open the shut-off valve of the pressure gauge.
10. Turn the steering wheel all the way to the left or right; then check whether or not the retention hydraulic pressure is the standard value.

Standard value: 9.8 Mpa

11. When not within the standard value, replace the power steering gear box.
12. Remove the special tools and reinstall the pressure hose.
13. Bleed the system and top up the fluid if necessary.
14. Remove the paper from the alternator.