



SERVICE BULLETIN

QUALITY INFORMATION ANALYSIS
OVERSEAS SERVICE DEPT. MITSUBISHI MOTORS CORPORATION

SERVICE BULLETIN	No.: MSB-98E33-501REV	
	Date: 1999-09-30	<Model> <M/Y> Draft No.:

CORRECTION	OVERSEAS SERVICE DEPT	T.NITTA - VICE GENERAL MANAGER QUALITY INFORMATION ANALYSIS

NOTE:

This Service Bulletin is a revision of the S/B MSB-98E33-501 which contained an error in the pinion height gauge set part number. S/B MSB-98E33-501 should be discarded.

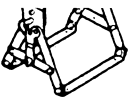
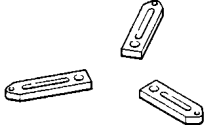


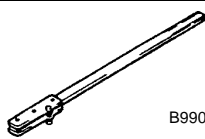
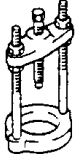
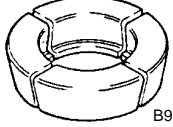
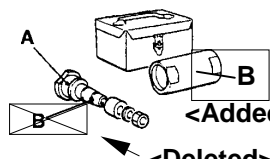
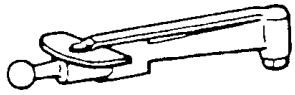
1. Description:

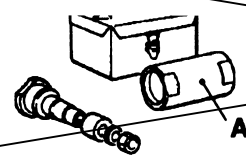
This Service Bulletin informs you concerning correction of the part number of the pinion height gauge set's component part.

2. Applicable Manuals:

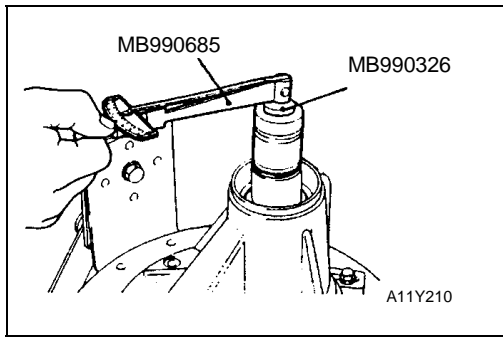
Manual	Pub. No.	Language	Page(s)
'97 L200 Workshop Manual Chassis	PWTE96E1	(English)	26-7, 51
	PWTS96E1	(Spanish)	
	PWTF96E1	(French)	
	PWTG96E1	(German)	

3. Details:

Tool	Number	Name	Use
	MB990909	Working base	Support of front differential carrier assembly
	MB991116	Adapter	Support of front differential carrier assembly
	MB990810	Side bearing puller	Removal of side bearing inner race
	MB990811	Differential side bearing cap	
	MB990850	End yoke holder	Removal and installation of companion flange
	MB990339	Bearing puller	Removal of drive pinion front bearing inner race
	MB990648 <Correct> MB990903	Bearing remover	
	MB990901 A: MB990904 B: MB990552 <Deleted>	Pinion height gauge set A: Drive pinion gauge assembly B: Cylinder gauge	<ul style="list-style-type: none"> Inspection of drive pinion rotation starting torque Measurement of drive pinion height
	MB990685 <Incorrect>	Torque wrench	Measurement of drive pinion height

	MB991171 A: MB991171	Pinion height gauge set A: Cylinder gauge	Measurement of drive pinion height
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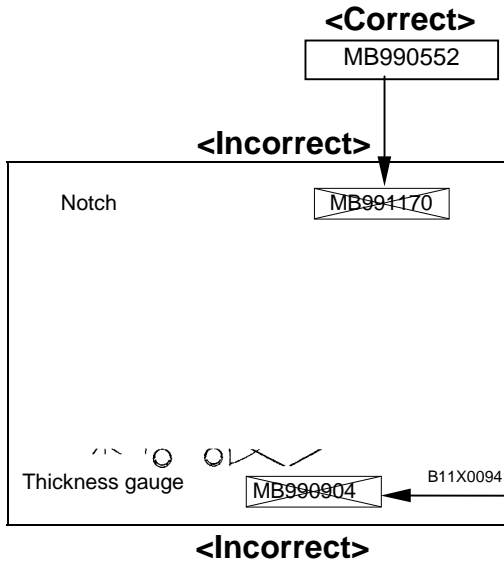
Standard value:

Bearing division	Bearing lubrication	Rotation torque
New	None (With anti-rust agent)	0.5 - 0.7 Nm
New or reusing	Gear oil applied	0.3 - 0.4 Nm

NOTE

The special tool cannot be turned a full revolution, so turn it several times within the range of movement to run in the bearing, and then measure the rotation torque.

- Clean the side bearing hub.

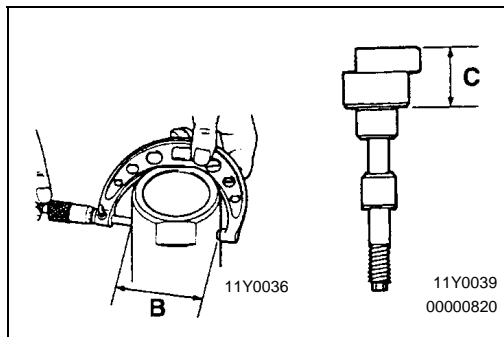


- Install the special tools to the side bearing hub of the gear carrier, and then install the bearing cap.

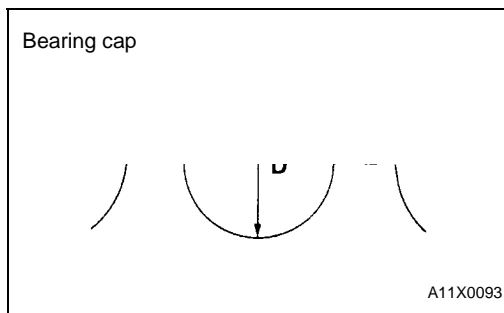
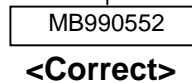
NOTE

Always check that the notch is in the shown position and that the special tools are touching firmly against the side bearing hub.

- Use a thickness gauge to measure the clearance (A) between the special tools.



- Remove the special tools MB991170 and MB990904.
- Use a micrometer to measure the special tool in the places (B,C) shown in the illustration.



- Install the bearing cap, and then use a cylinder gauge and micrometer to measure the inside diameter (D) of the bearing cap as shown in the illustration.
- Calculate the thickness (E) of the required drive pinion front shim by the following formula, and then select a shim which most closely matches this thickness.

$$E = A + B + C - 1/2D - 91.0$$