
GROUP 27**REAR AXLE****CONTENTS**

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REAR AXLE <FWD>

GENERAL INFORMATION

M2270000100809

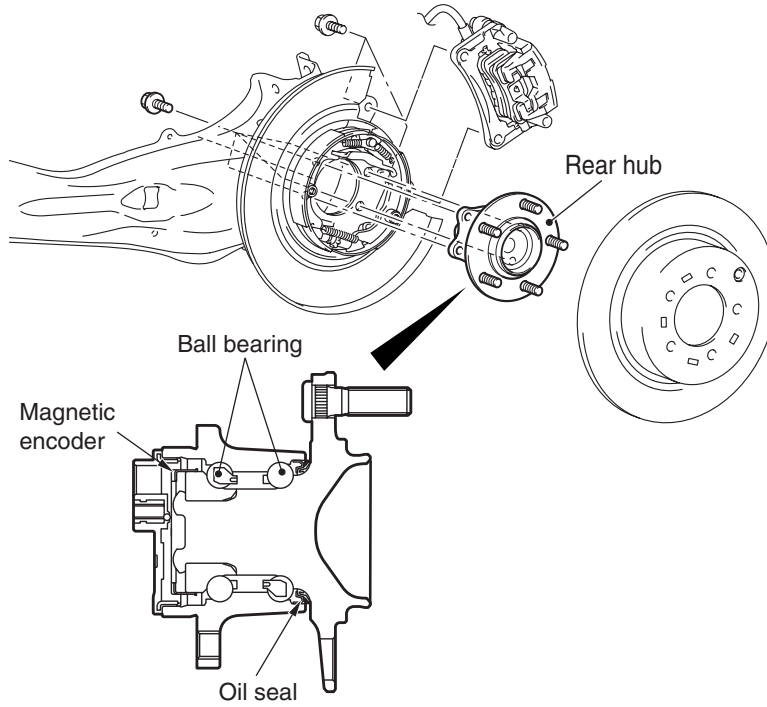
The rear axle has the following features:

- The wheel bearing is a unit ball bearing (double-row angular contact ball bearing) which incorporates the oil seals and is highly resistant to thrust loads.
- The number of parts has been reduced by integrating the magnetic encoder for ABS wheel speed detection into the wheel bearing.

SPECIFICATION

Item		Specification
Wheel bearing	Bearing type	Unit ball bearing (double-row angular contact ball bearing)

CONSTRUCTION DIAGRAM



REAR AXLE <AWD>

GENERAL INFORMATION

M2270000100821

The rear axle has the following features:

- The wheel bearing is a unit ball bearing (double-row angular contact ball bearing) which incorporates the oil seals and is highly resistant to thrust loads.
- The driveshaft incorporates lightweight and compact EBJ-ETJ type constant velocity joints.
- The rear driveshaft spline diameter on the wheel-side has been increased, improving torsional strength.
- The protector cover of magnetic encoder is equipped to driveshaft.
- The mechanical type limited slip differential has been equipped.
- Lead-free grease for the constant velocity joint is adopted.
- Hexavalent chromium is eliminated from the dust cover material.
- The number of parts is reduced by integrating the magnetic encoder for ABS wheel speed detection into the wheel bearing.

NOTE:

EBJ (High Efficiency Compact Birfield Joint): the lighter and smaller constant velocity joint compared with the conventional BJ has been achieved by adopting the eight small balls.

ETJ (High Efficiency Compact Tripod Joint): the lighter and smaller constant velocity joint compared with the conventional TJ has been installed.

SPECIFICATIONS

WHEEL BEARING AND DRIVESHAFT

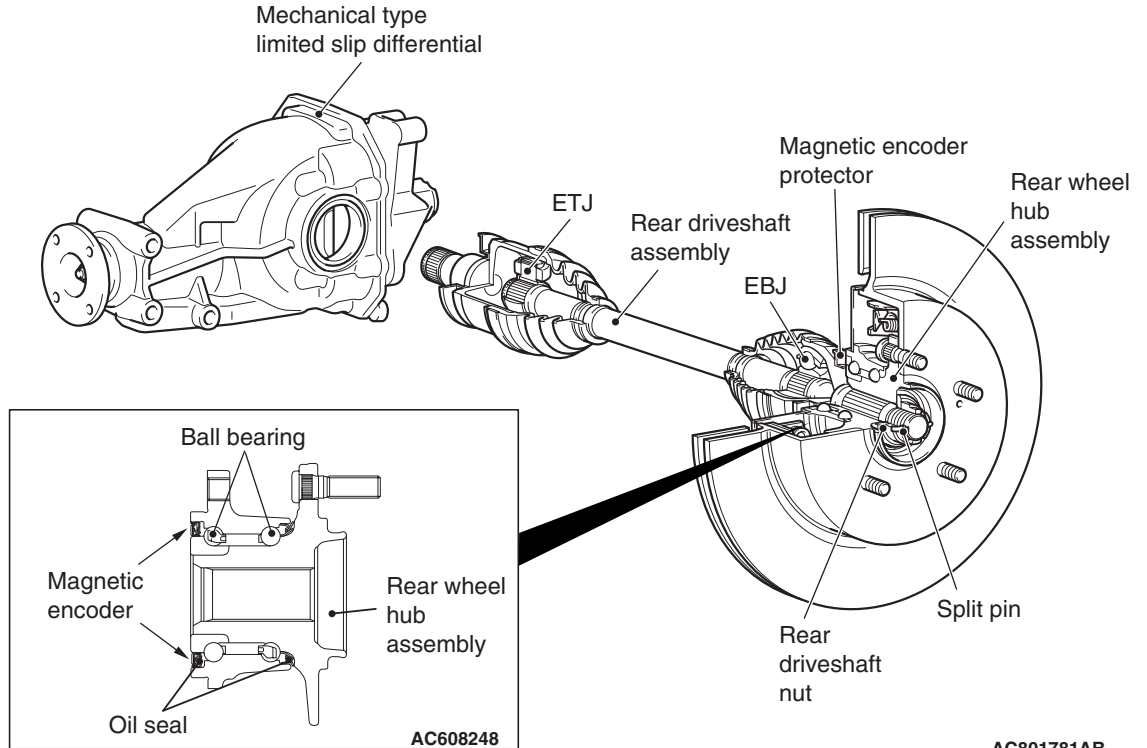
Item		Specification	
Rear wheel bearing	Bearing type	Unit bearing (double-row angular contact ball bearing)	
Rear driveshaft	Joint type	Outer	EBJ
		Inner	ETJ
	Shaft length* × Shaft diameter mm (in)	LH	495 × 25 (19.5 × 1.0)
		RH	581.5 × 25 (22.89 × 1.0)

*NOTE: *: Indicates the distance between the center of each joint.*

DIFFERENTIAL

Item		Specification
Differential type		Mechanical type LSD
Reduction gear type		Hypoid gear
Reduction ratio		3.307
Number of teeth	Drive gear	43
	Drive pinion	13
Bearings (Outside diameter × Inside diameter) mm (in)	Side	72 × 35 (2.8 × 1.4)
	Front	62 × 25 (2.4 × 1.0)
	Rear	72 × 35 (2.8 × 1.4)
Gear oil		MITSUBISHI Genuine DIA QUEEN LSD gear oil: approx. 0.55 dm ³ (0.58 qt)

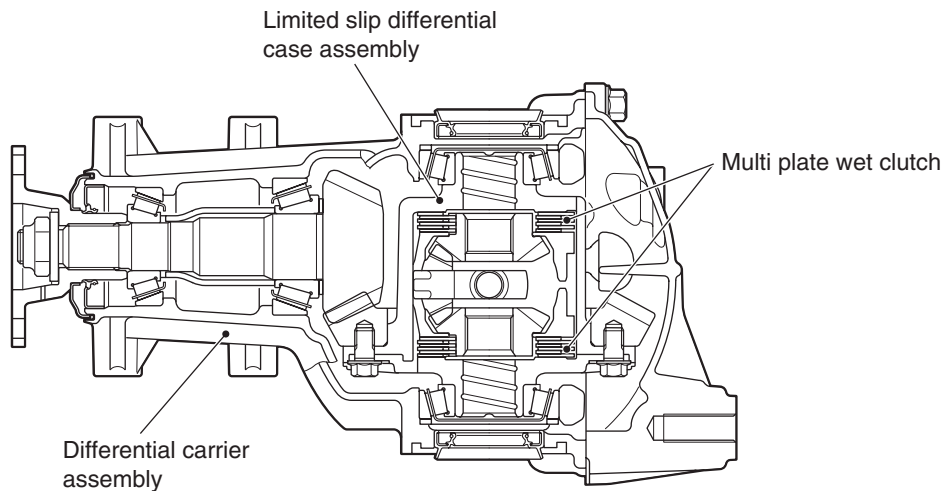
CONSTRUCTION DIAGRAM



DIFFERENTIAL

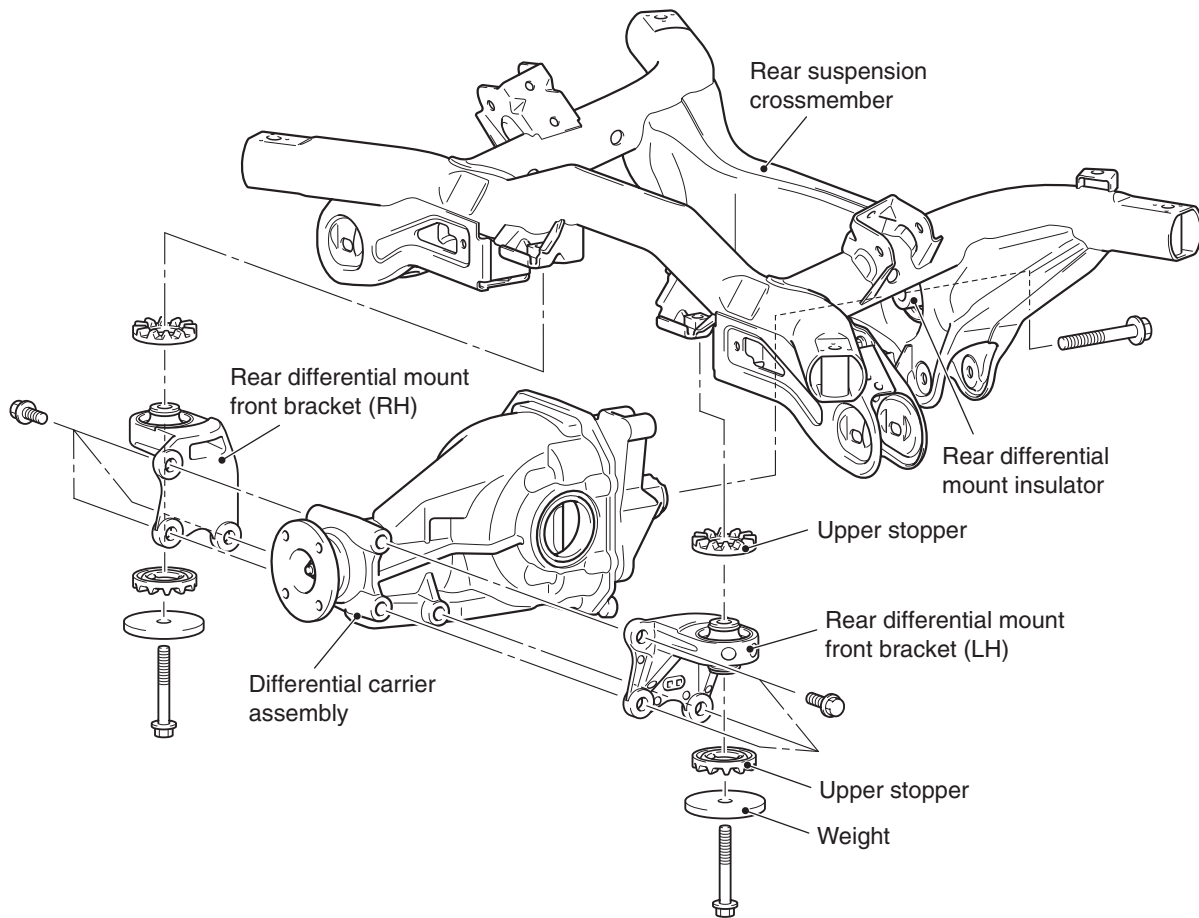
Mechanical type limited slip differential has been equipped.

CONSTRUCTION DIAGRAM



DIFFERENTIAL MOUNT
CONSTRUCTION DIAGRAM

M2270000200099



AC712213 AC

The front side of the differential carrier assembly is installed to the rear suspension crossmember via rear differential mount front bracket (LH/RH). The rear side of the differential carrier is installed to the rear suspension crossmember via rear differential mount insulator. In this way, the adoption of the three-point support type differential mount and the optimization of the layout reduce the vibration and noise.

NOTES