

GROUP 27

REAR AXLE

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REAR AXLE

M2270003000083

The rear axle consists of rear wheel hub assembly, knuckles and driveshafts, and has the following features:

- The wheel bearing incorporates a unit ball bearing (double-row angular contact ball bearing) for reduced friction.
- The rear wheel hub assembly combines the hub, wheel bearing, housing, and oil seal in a single unit for fewer parts, better rigidity, improved assembly precision, and better structural organization.
- The driveshaft on wheel side incorporates an EBJ type constant velocity joint.

- The driveshaft on differential side incorporates a TJ type constant velocity joint.
- ABS rotors for detecting the wheel speed are press-fitted to the EBJ.
- For environmental protection, a lead-free grease is used on the joints.

NOTE:

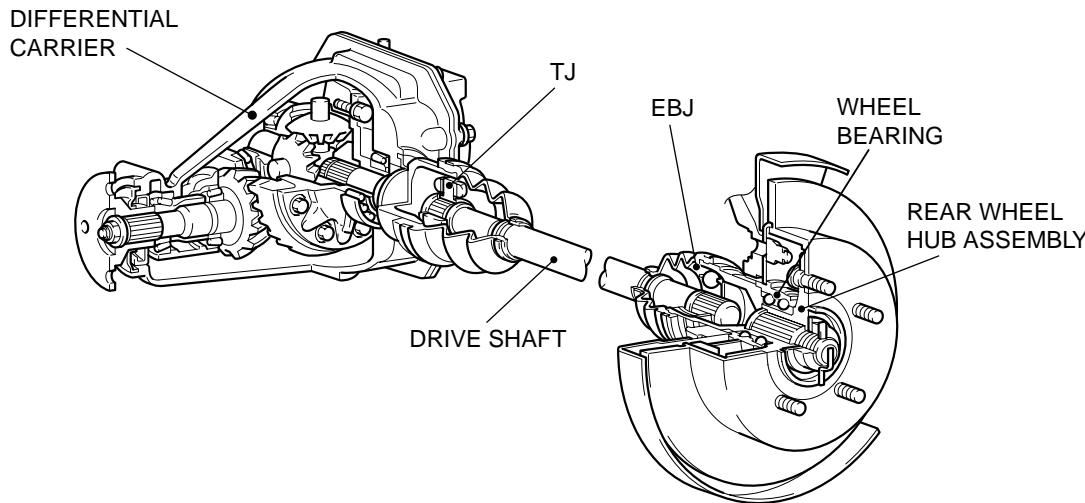
- *EBJ: Eight Ball Fixed Joint; The use of the smaller-sized eight balls inside the joint achieves weight saving and compact size compare with BJ (Birfield Joint).*
- *TJ: Tripod Joint*

SPECIFICATIONS

| ITEM | SPECIFICATION | | |
|---------------|--|-------|-------------------------|
| Wheel bearing | Type | | |
| Drive shaft | Type | Outer | EBJ |
| | | Inner | TJ |
| | Length (joint to joint) × diameter mm (in) | Left | 485.6 × 25 (19.1 × 1.0) |
| | | Right | 575.5 × 25 (22.7 × 1.0) |

NOTE: The wheel bearing is part of the hub, therefore its size is not listed here.

CONSTRUCTION DIAGRAM



AC211190AB

DIFFERENTIAL

M2270001000087

A mechanical-type Limited Slip Differential is used.
The differential specifications are established as follows.

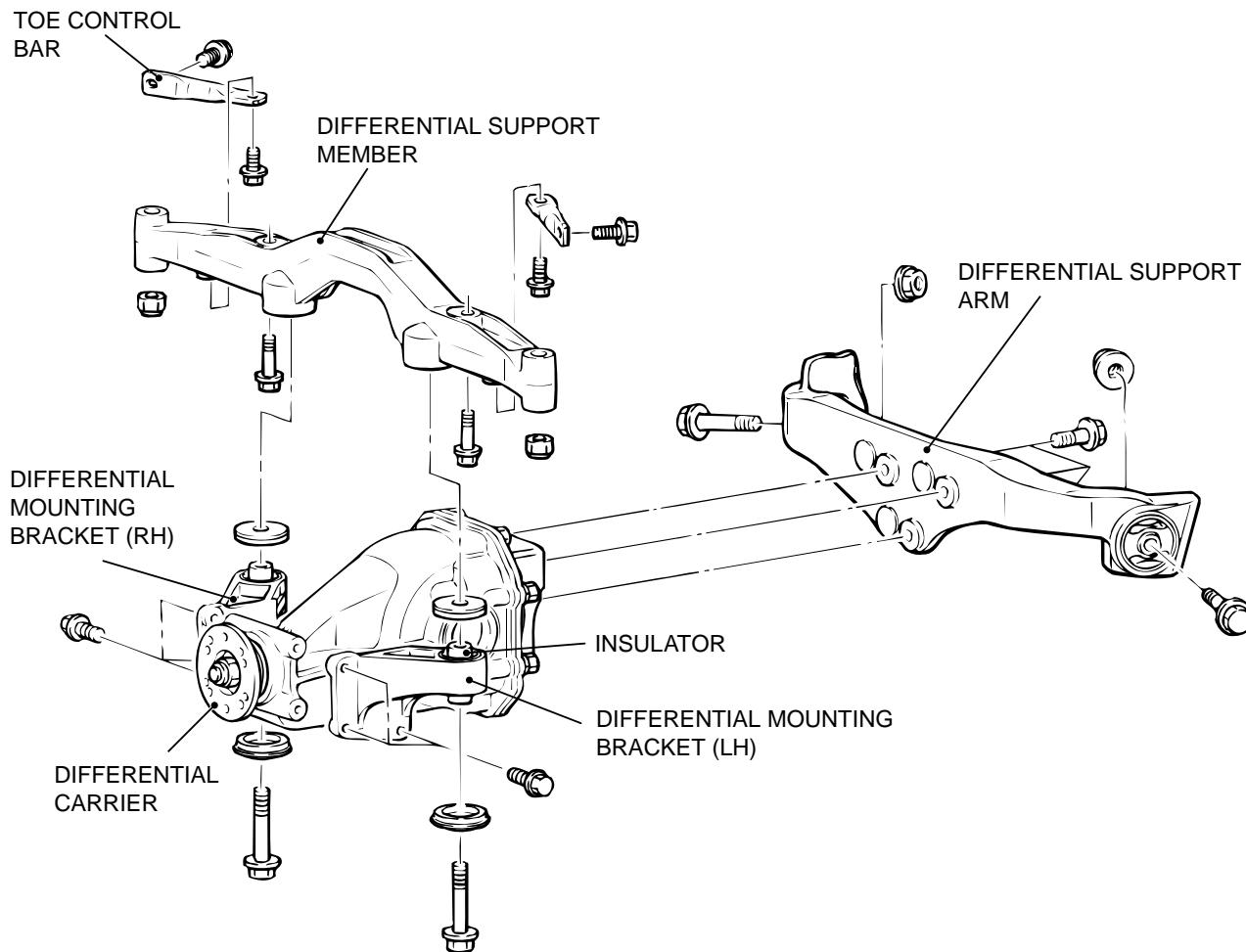
SPECIFICATIONS

| ITEM | SPECIFICATION | |
|--|-----------------------------|---|
| Reduction gear type | Hypoid gear | |
| Reduction ratio | 3.307 | |
| Differential gear type (Type × number of gears) | Side gear | Straight bevel gear × 2 |
| | Pinion gear | Straight bevel gear × 4 |
| Number of teeth | Drive gear | 43 |
| | Drive pinion | 13 |
| Bearing (Outside diameter × inside diameter) mm (in) | Side | 72.0 × 25.0 (2.83 × 1.0) |
| | Front | 62.0 × 25.0 (2.44 × 1.0) |
| | Rear | 72.0 × 25.0 (2.83 × 1.0) |
| Differential gear oil | Type | Hypoid gear oil MITSUBISHI Genuine Gear Oil Part No.8149630EX or equivalent |
| | Amount dm ³ (qt) | 0.55 (0.58) |

DIFFERENTIAL MOUNT

The front of differential carrier is supported with the differential support member via the differential mount bracket with insulator. The rear is supported with the differential support arm.

CONSTRUCTION DIAGRAM



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