GROUP 32

POWER PLANT MOUNT

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GENERAL DESCRIPTION

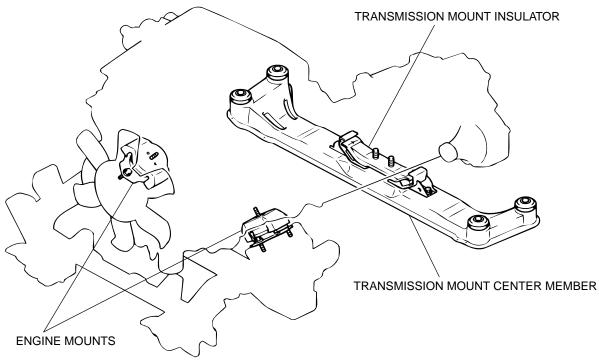
The engine mounting system supports the engine at two locations and the transmission at one location. This system has the following features:

• The engine mount is a liquid-filled mount, which contributes to the reduction of idling vibration/ noise and the improvement of the driving comfort.

CONSTRUCTION DIAGRAM

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- The transmission mount reduces body vibration by supporting the transmission and transmission mount center member elastically (double antivibration method).
- The transmission mount insulator is a shear type insulator.



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SPECIAL TOOL

M1321000600248 TOOL TOOL NUMBER SUPERSESSION APPLICATION AND NAME Holding the engine and MB991454 MZ203827-01 transmission assembly Engine hanger balancer B991454 MB991895 _ Engine hanger MB991895

POWER PLANT MOUNT ENGINE MOUNTING

ENGINE MOUNTING

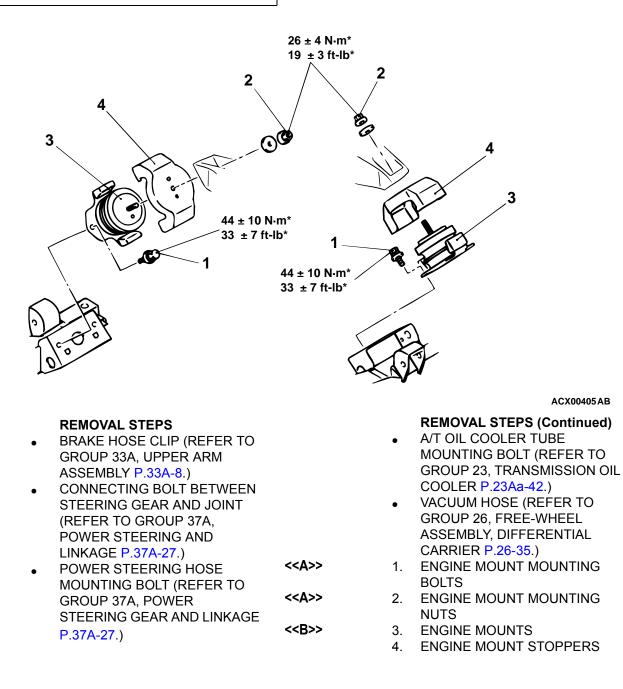
REMOVAL AND INSTALLATION

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*: Indicates parts which should be initially tightened, and then fully tightened after placing the vehicle horizontally and loading the full weight of the engine on the vehicle body.

Pre-removal and Post-installation Operation

- Skid Plate and Under Cover Removal and Installation
- Battery Removal and Installation
- Air Cleaner Assembly Removal and Installation (Refer to GROUP 15, Air Cleaner P.15-6.)
- Engine Cover Removal and Installation (Refer to GROUP 11A, Timing Belt P.11A-33.)
- Radiator Removal and Installation (Refer to GROUP 14, Radiator P.14-8.)



Required Special Tools:

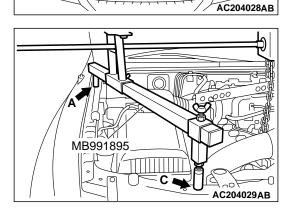
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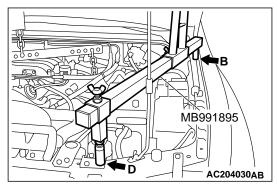
- MB991454: Engine Hanger Balancer
- MB991895: Engine Hanger

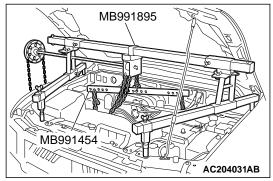
REMOVAL SERVICE POINTS

<<A>> ENGINE MOUNT MOUNTING BOLTS AND NUTS REMOVAL

- 1. Install the bolt to the "C" part on the headlamp support panel.
- 2. Set special tools MB991895 and MB991454 to the front fender mounting bolts (A and B) and the oil reservoir bracket mounting bolts (C and D). Then remove the engine mount mounting bolts and nuts while supporting the engine and transmission assembly.







WORK PLATE

POWER PLANT MOUNT TRANSMISSION MOUNTING

<> ENGINE MOUNT REMOVAL

- 1. Support the No.1 crossmember using the transmission jack.
- 2. Unscrew the No.1 crossmember mounting nut and then put down the No.1 crossmember to remove the engine mount.

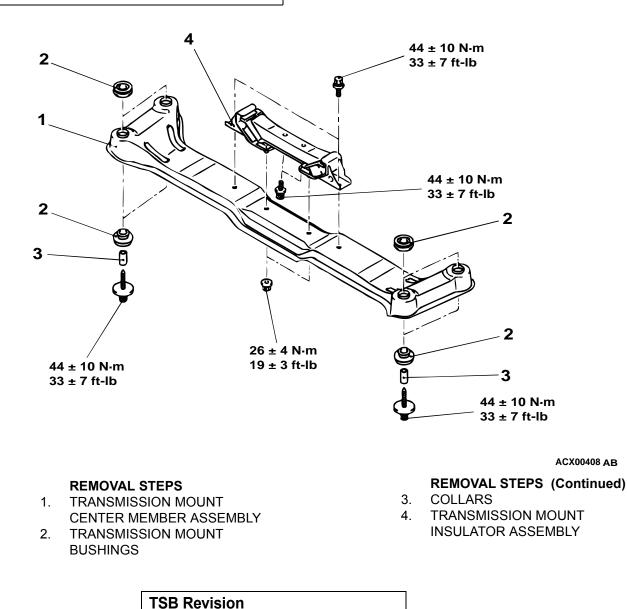
TRANSMISSION MOUNTING

REMOVAL AND INSTALLATION

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Pre-removal and Post-installation Operation

• Jack up the engine and transmission assembly until there is no weight on the engine mount bracket insulator.



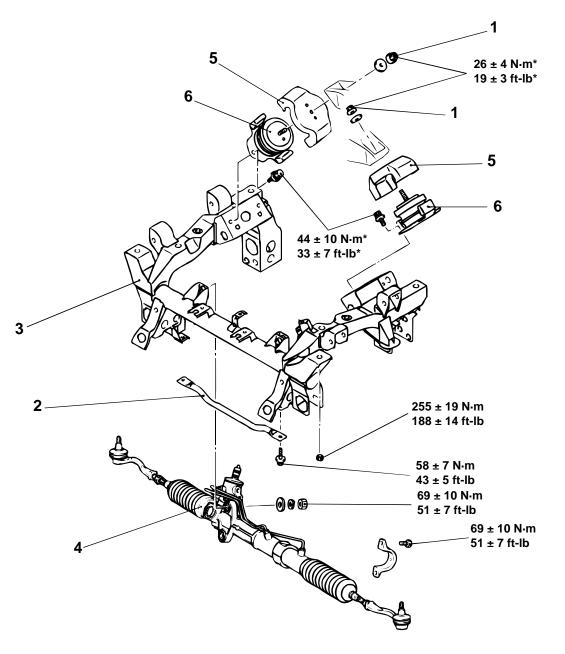
No.1 CROSSMEMBER

REMOVAL AND INSTALLATION

M1321004600035

- ^{*}: Indicates parts which should be temporarily tightened, and then fully tightened with the vehicle on the ground in the unladen condition.
- For vehicles with SRS, before removal of steering gear box, refer to GROUP 52B, center the front wheels and remove the ignition key. Failure to do so may damage the SRS clock spring and render the SRS system inoperative, risking serious injury.

Pre-removal Operation	Post-installation Operation
 Under Cover Removal Under Cover Removal Drive Shaft Removal (Refer to GROUP 26, Drive Shaft P.26-23.) Differential carrier and No. 2 crossmember assembly removal (Refer to GROUP 26, Free- wheeling assembly and Differential Carrier P.26-35.) Upper arm removal (Refer to GROUP 33A, Upper Arm Assembly P.33A-8.) Lower arm removal (Refer to GROUP 33A, Lower Arm Assembly P.33A-15.) Stabilizer bar removal (Refer to GROUP 33A, Stabilizer Bar P.33A-18.) Engine cover removal (Refer to GROUP 11A, Timing Belt P.11A-33.) Radiator removal (Refer to GROUP 14, Radiator P.14-8.) Power steering fluid draining (Refer to GROUP 37A, Onvehicle Service P.37A-19.) 	 Differential carrier and No. 2 crossmember assembly removal (Refer to GROUP 26, Free- wheeling assembly and Differential Carrier P.26-35.) Drive Shaft Installation (Refer to GROUP 26, Drive Shaft P.26-23.) Lower Arm Installation (Refer to GROUP 33A, Lower Arm Assembly P.33A-15.) Upper Arm Installation (Refer to GROUP 33A, Upper Arm Assembly P.33A-8.) Stabilizer Bar Installation (Refer to GROUP 33A, Stabilizer Bar P.33A-18.) Radiator Installation (Refer to GROUP 14, Radiator P.14-8.) Power Steering Fluid Refilling and Air-bleeding (Refer to GROUP 37A, On-vehicle Service P.37A-19.) Check the Dust Cover for Cracks or Damage by Pushing with Finger Wheel Alignment Check and Adjustment (Refer to GROUP 33A, On-vehicle Service P.33A-5.) Under Cover Installation Engine Cover Installation (Refer to GROUP 11A, Timing Belt P.11A-33.)



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REMOVAL STEPS (Continued)

- POWER STEERING GEAR AND 4. LINKAGE
- 5. ENGINE MOUNT STOPPERS
- **ENGINE MOUNTS** 6.

NUTS 2. FRONT REINFORCEMENT BAR 3. No.1 CROSSMEMBER ASSEMBLY

ENGINE MOUNT MOUNTING

REMOVAL STEPS

Required Special Tools:

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• MB991454: Engine Hanger Balancer

1.

MB991895: Engine Hanger

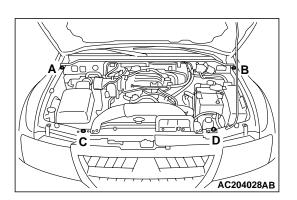
POWER PLANT	Μ
No.1 CROSSME	N

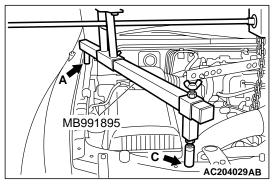
TSB Revision

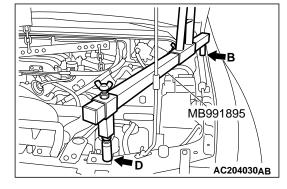
REMOVAL SERVICE POINT

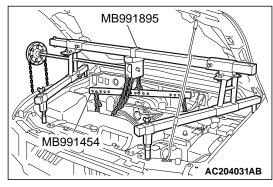
<<a>> ENGINE MOUNT MOUNTING NUTS REMOVAL

- 1. Install the bolt to the "C" part on the headlamp support panel.
- 2. Set special tools MB991895 and MB991454 to the front fender mounting bolts (A and B) and the oil reservoir bracket mounting bolts (C and D). Then remove the engine mount mounting nuts while supporting the engine and transmission assembly.

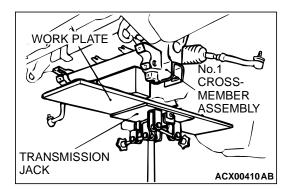








POWER PLANT MOUNT SPECIFICATIONS



<>No.1 CROSSMEMBER ASSEMBLY REMOVAL

Use the transmission jack to support the No.1 crossmember and remove the front frame.

SPECIFICATIONS

FASTENER TIGHTENING SPECIFICATION

M1321004100267

ITEM	SPECIFICATION
Engine mounting insulator to engine nut	$26 \pm 4 \text{ N} \cdot \text{m} (19 \pm 91.44 \text{ cm-lb})$
Engine mounting insulator to No.1 crossmember bolt	44 \pm 10 N·m (33 \pm 213.36 cm-lb)
No.1 crossmember bolt	$58 \pm 7 \text{ N} \cdot \text{m} (43 \pm 152.40 \text{ cm-lb})$
No.1 crossmember nut	255 ± 19 N⋅m (188 ± 426.72 cm-lb)
Power steering gear and linkage to crossmember bolt	69 ± 10 N·m (51 ± 213.36 cm- lb)
Power steering gear and linkage to crossmember nut	69 ± 10 N·m (51 ± 213.36 cm- lb)
Transmission mounting insulator to Transmission mounting center member bolt	44 \pm 10 N·m (33 \pm 213.36 cm-lb)
Transmission mount insulator to Transmission mounting center member nut	26 ± 4 N·m (19 ± 91.44 cm-lb)
Transmission mounting center member bolt	44 \pm 10 N·m (33 \pm 213.36 cm-lb)