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# POWER PLANT MOUNT

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## GENERAL INFORMATION

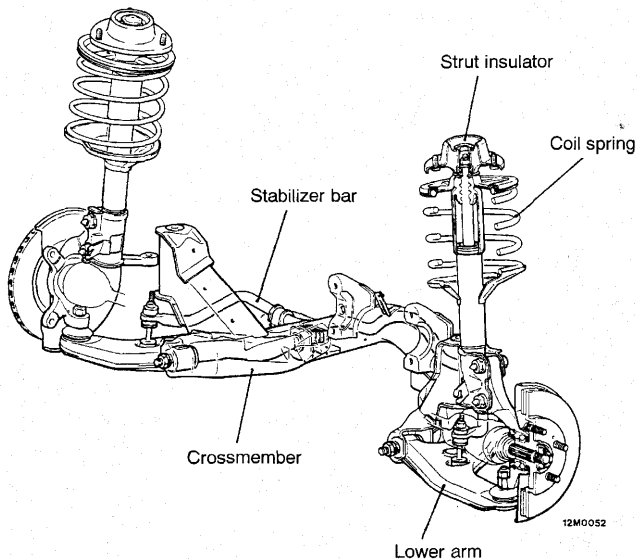
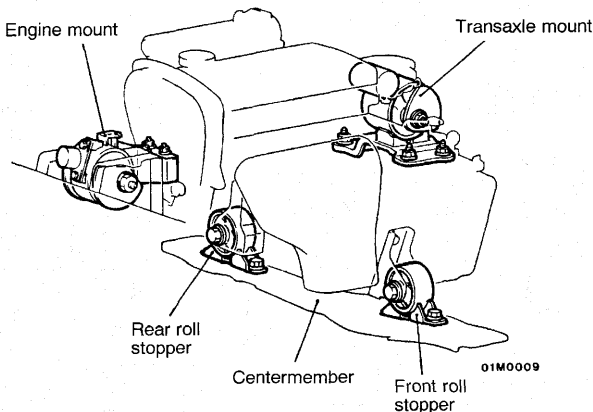
32100010112

The engine-transaxle mount is of an inertial axis supporting type. The inertial axis supporting type mount supports the front upper part of the engine at the front and the rear upper part of the transaxle at the rear. This arrangement effectively suppresses the engine vibration.

The centermember is bolted to the body and crossmember, supporting the front and rear roll stopper bracket.

The crossmember is bolted to the body, supporting the lower arm, steering gear box assembly, stabilizer bar, and centermember.

## CONSTRUCTION DIAGRAM



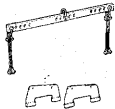
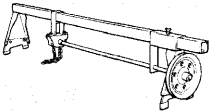
## SERVICE SPECIFICATION

32100030071

Item	Standard value
Protruding length of stabilizer bar mounting bolt mm (in.)	22 (.9)

## SPECIAL TOOLS

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Tool	Tool number and name	Supersession	Application
	MB991453 Engine hanger		To support the engine assembly during removal and installation of the centermember
	GENERAL SERVICE TOOL MZ203827 Engine lifter	General service tool	To support the engine assembly during removal and installation of the centermember

## TROUBLESHOOTING

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Symptom	Probable cause	Remedy
Excessive engine wobble or vibration (with engine in normal condition)	Cracked rubber parts of insulator	Replace
	Insufficiently tightened parts	Retighten
Abnormal noise	Insufficiently tightened parts	Retighten

# ENGINE MOUNTING

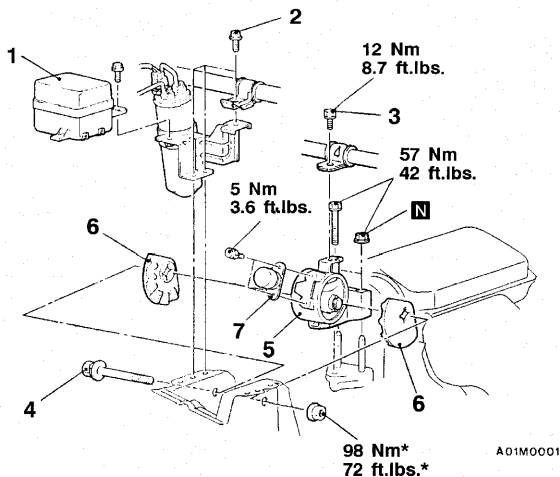
## REMOVAL AND INSTALLATION

### Pre-removal Operation

- (1) Jack up the engine and transaxle assembly until there is no weight on the engine mount bracket insulator.
- (2) Auto-cruise Vacuum Pump and Bracket Assembly removal (Refer to GROUP 17.)

### Post-installation Operation

- (1) Auto-cruise Vacuum Pump and Bracket Assembly installation (Refer to GROUP 17.)

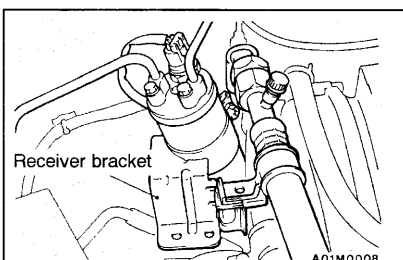


### Removal steps

1. Air conditioning relay box
2. Air conditioning receiver bracket mounting bolts
3. Power steering hose mounting bolt
4. Engine mount insulator mounting bolt
5. Engine mount bracket
6. Engine mount stopper
7. Engine mount dynamic damper

### Caution

Mounting locations marked by \* should be initially tightened, and then fully tightened when the body is supporting the full weight of the engine.



## REMOVAL SERVICE POINT

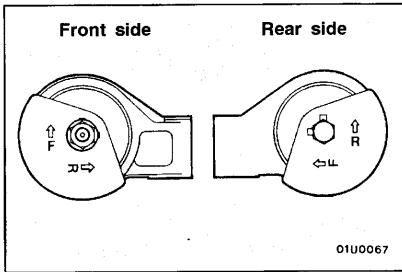
### ◀A▶ ENGINE MOUNT INSULATOR MOUNTING BOLT / AIR CONDITIONING RECEIVER BRACKET MOUNTING BOLT REMOVAL

- (1) To make it easier to remove the engine mount insulator mounting bolt in vehicles with air-conditioning, remove the air-conditioning receiver bracket and support the receiver so that there are no bends in the pipe.
- (2) Remove the engine mount insulator mounting bolt.

**INSTALLATION SERVICE POINT**

**▶◀ENGINE MOUNT STOPPER INSTALLATION**

- (1) At the front, install so that the arrow with the "F" mark is facing upwards.
- (2) At the rear, install so that the arrow with the "R" mark is facing upwards.



**INSPECTION**

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- Check each insulator for cracks or damage.
- Check each bracket for deformation or damage.

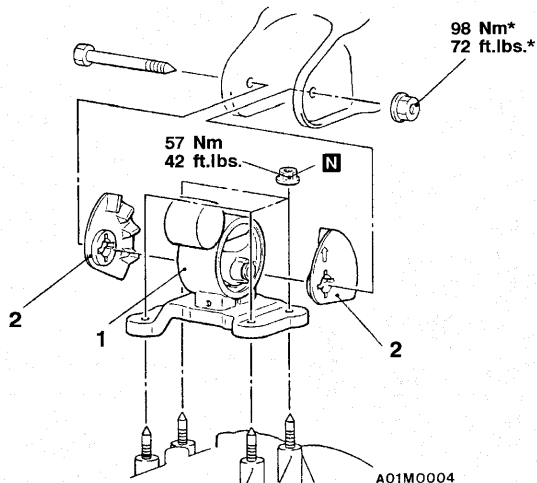
**TRANSAXLE MOUNTING**

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**REMOVAL AND INSTALLATION**

**Pre-removal and Post-installation Operation**

- Air Cleaner Assembly Installation and Removal
- Battery and Battery Tray Removal and Installation

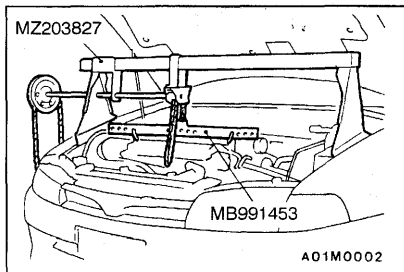


**Removal steps**

- Centermember mounting bolt (Refer to P.32-7.)
1. Transaxle mount bracket
  2. Transaxle mount stopper

**Caution**

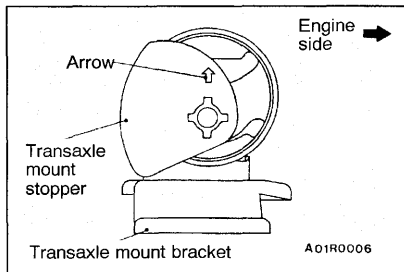
Mounting locations marked by \* should be provisionally tightened, and then fully tightened when the body is supporting the full weight of the engine.



## REMOVAL SERVICE POINT

### ◀▶ TRANSAXLE MOUNT BRACKET REMOVAL

- (1) Install the special tool to the vehicle body to support the engine and transaxle assembly.
- (2) Remove the centermember mounting bolt.
- (3) Remove the bolt and nut of the transaxle mount bracket.
- (4) After lowering the engine and transaxle assembly, remove the transaxle mount bracket.



## INSTALLATION SERVICE POINT

### ▶◀ TRANSAXLE MOUNT STOPPER INSTALLATION

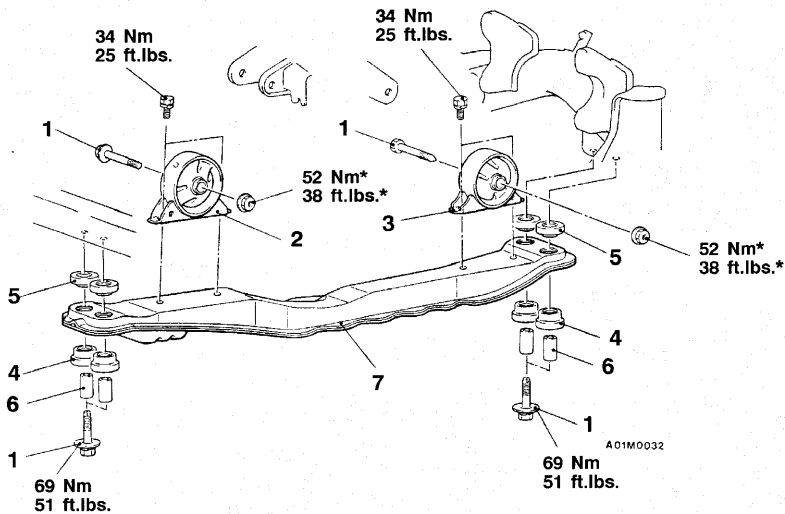
Clamp the transaxle mount stopper so that the arrow points in the direction as shown in the diagram.

## INSPECTION

- Check each insulator for cracks or damage.
- Check each bracket for deformation or damage.

# ENGINE ROLL STOPPER, CENTERMEMBER

## REMOVAL AND INSTALLATION



### Removal steps



1. Bolts
2. Front roll stopper bracket assembly
3. Rear roll stopper bracket assembly
4. Bushing (lower)
5. Bushing (upper)
6. Collar
7. Centermember

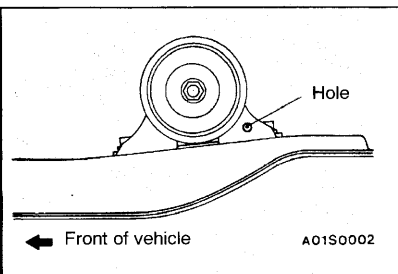
### Caution

Mounting locations marked by \* should be provisionally tightened, and then fully tightened when the body is supporting the full weight of the engine.

## INSTALLATION SERVICE POINTS

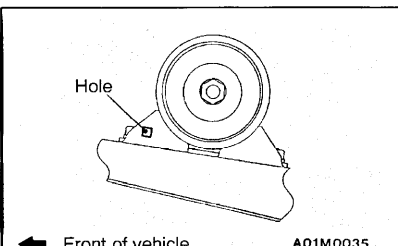
### ►A◄ REAR ROLL STOPPER BRACKET ASSEMBLY INSTALLATION

Install so that the hole in the rear roll stopper bracket is facing towards the rear of the vehicle.



### ►B◄ FRONT ROLL STOPPER BRACKET ASSEMBLY INSTALLATION

Install so that the hole in the front roll stopper bracket is facing towards the front of the vehicle.



## INSPECTION

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- Check each insulator and bushing for cracks or damage.
- Check each bracket for deformation or damage.

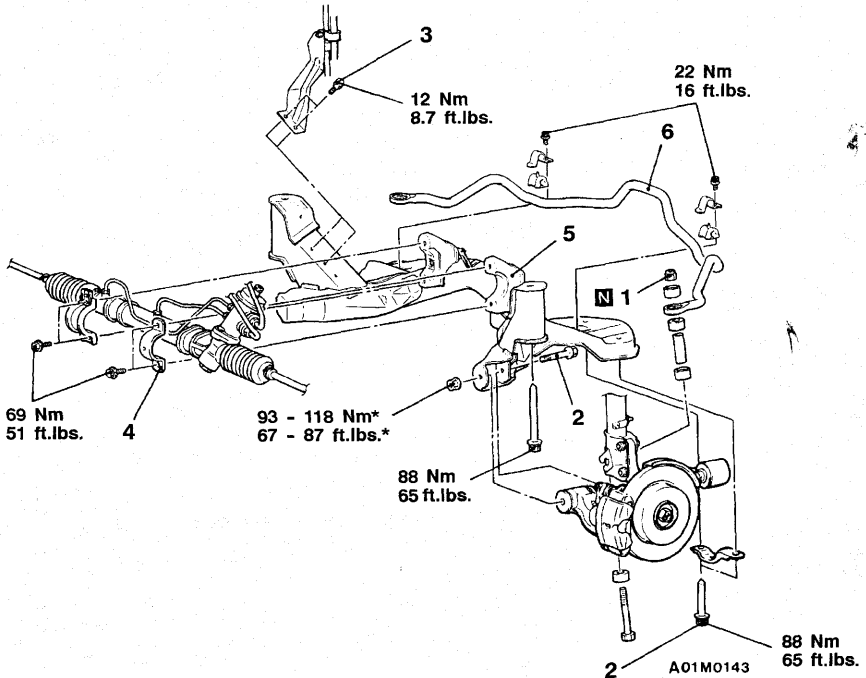
## CROSSMEMBER

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## REMOVAL AND INSTALLATION

**Pre-removal and Post-installation Operation**

- Front Exhaust Pipe Removal and Installation (Refer to GROUP 15.)
- Centermember Assembly Removal and Installation (Refer to P.32-7.)

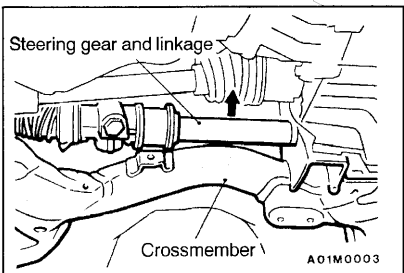
**Removal steps**

- B◄ 1. Self-locking nut <Except 2-DOOR MODELS-4G15>
2. Lateral lower arm mounting bolts
3. Oil return pipe clamp mounting bolts
4. Steering gear and linkage clamp
- ◄A► 5. Crossmember assembly
- A◄ 6. Stabilizer bar <Except 2-DOOR MODELS-4G15>

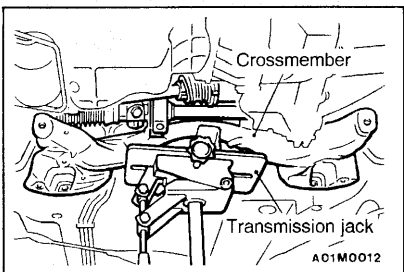
**Caution**

\*: Indicates parts which should be temporarily tightened, and then fully tightened with the vehicle on the ground in the unladen condition.

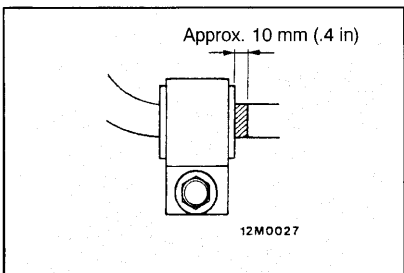


**REMOVAL SERVICE POINT****◀A▶ CROSSMEMBER ASSEMBLY REMOVAL**

- (1) Move the crossmember while supporting the steering gear and linkage in the direction shown by the arrow.
- (2) Remove the crossmember while supporting it with a transmission jack.

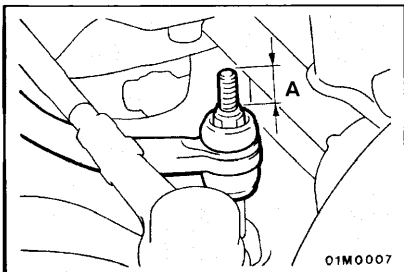
**INSTALLATION SERVICE POINTS****▶A◀ STABILIZER BAR INSTALLATION (Except 2-door models)**

Place the identification mark of the stabilizer bar to the left, and install the bushing so that the identification mark protrudes approximately 10 mm (.4 in.) from the edge of the inside of the bushing.

**▶B◀ SELF-LOCKING NUT INSTALLATION (Except 2-door models)**

Tighten the self-locking nut so that the amount of protrusion of the end of the stabilizer bar mounting bolts is at the standard value.

**Standard value (A): 22 mm (.9 in.)**

**INSPECTION**

- Check the crossmember for cracks or deformation.