
GROUP 32

POWER PLANT MOUNT

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GENERAL INFORMATION

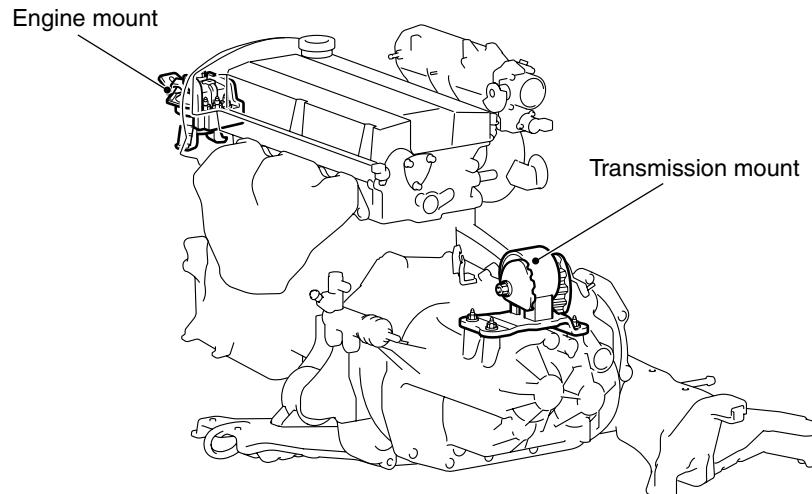
The inertia axial system has been adopted for the engine mount system.

- Pressurized liquid-filled longitudinally installed cylindrical engine mount is adopted to reduce vibration during acceleration and cornering.

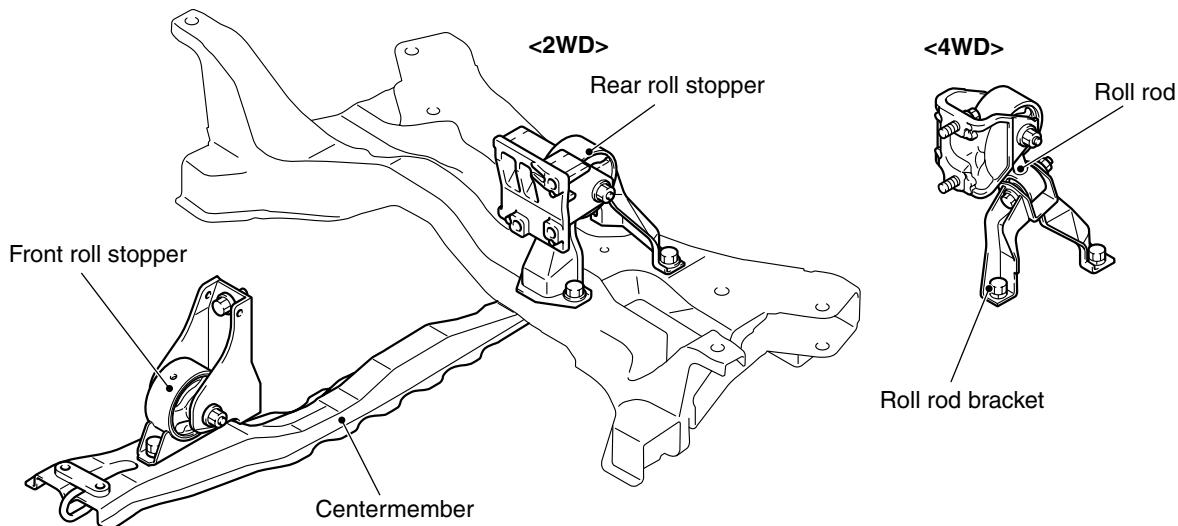
- The liquid-filled transmission mount improves riding comfort by its refined insulator.
- Installation of roll mount in the upper area limits engine rolling. Further more, large diameter insulator reduces idle vibration.

M1321000100328

CONSTRUCTION DIAGRAM



AC301341

AC107318
AC301640 AB

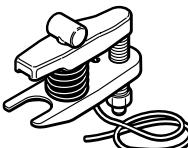
SERVICE SPECIFICATION

M1321000300292

Item	Standard value
Protruding length of stabilizer link thread part mm	9.4 ± 0.4

SPECIAL TOOL

M1321000600312

Tool	Number	Name	Use
 AC106827	MB991897	Ball joint remover	Knuckle and tie rod end ball joint disconnection <i>NOTE: Steering linkage puller (MB990635 or MB991113) is also available to disconnect knuckle and tie rod end ball joint.</i>

ENGINE MOUNTING

REMOVAL AND INSTALLATION

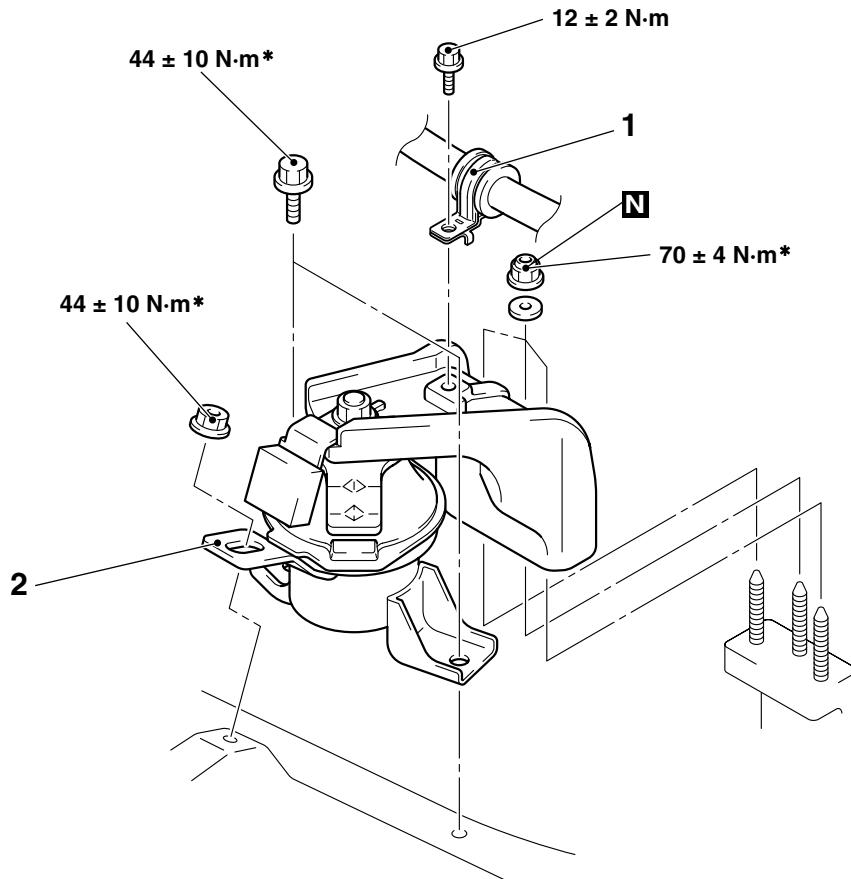
M1321001100417

CAUTION

*: 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 Operation

Raise the engine and transmission assembly until its weight is not applied to the insulator, and support it securely.



AC301670AB

Removal steps

1. Pressure hose clamp
2. Engine mounting

INSPECTION

- Check the engine mounting for cracks or damage.

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TRANSMISSION MOUNTING

REMOVAL AND INSTALLATION

M1321001400388

CAUTION

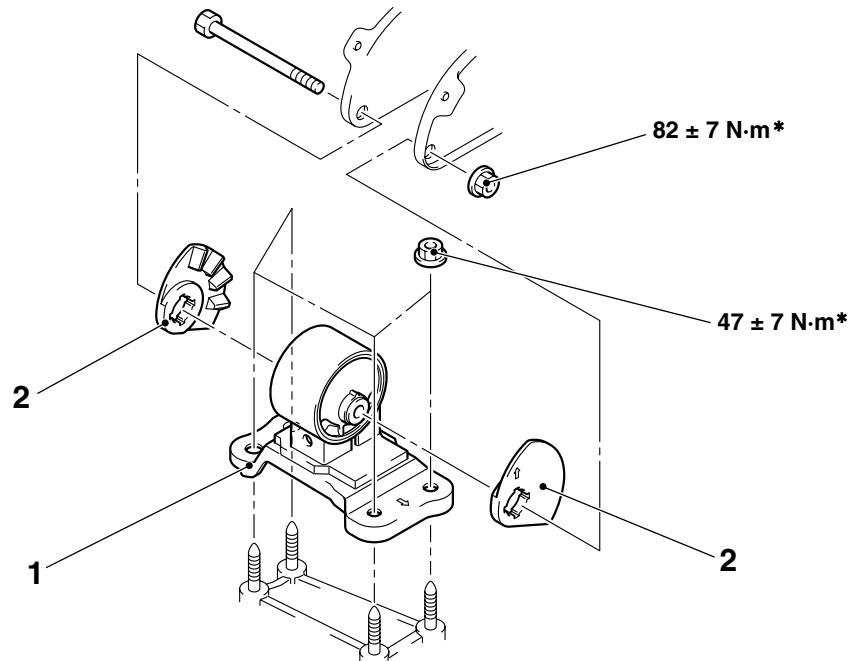
***: Indicates parts which should be initially tightened, and then fully tightened after placing the vehicle horizontally and loading the full weight of the engine on the vehicle body.**

Pre-removal Operation

- Raise the engine and transmission assembly until its weight is not applied to the insulator, and support it securely.
- Air Cleaner Removal (Refer to GROUP 15, Air Cleaner P.15-3).
- Centermember and Front Roll Stopper Removal (Refer to P.32-6).
- Rear Roll Stopper Removal (Refer to P.32-6).

Post-installation Operation

- Rear Roll Stopper Installation (Refer to P.32-6).
- Centermember and Front Roll Stopper Installation (Refer to P.32-6).
- Air Cleaner Installation (Refer to GROUP 15, Air Cleaner P.15-3).



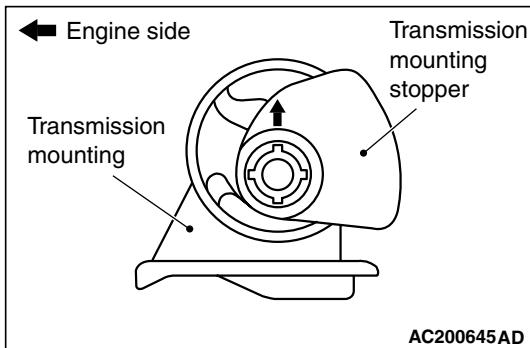
AC301677 AB

Removal steps

1. Transmission mounting
- >>A<< 2. Transmission mounting stopper

INSTALLATION SERVICE POINT

>>A<< TRANSMISSION MOUNTING STOPPER INSTALLATION



Install the transmission mounting stopper so that its arrow points upward.

INSPECTION

M1321001500136

- Check the transmission mounting insulator for cracks, separation or deformation.

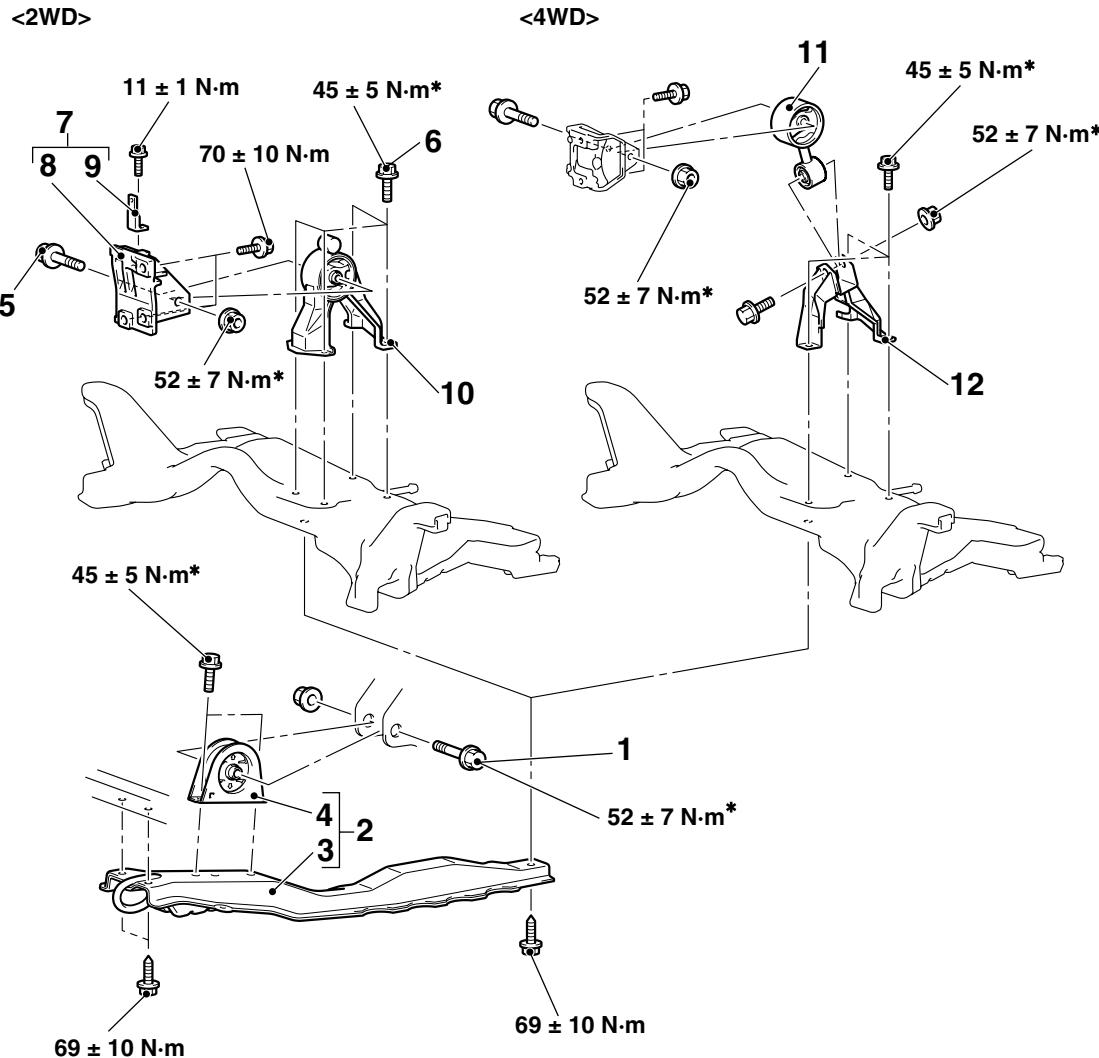
ENGINE ROLL STOPPER, CENTERMEMBER

REMOVAL AND INSTALLATION

M1321002300265

CAUTION

*: 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.



AC301682AB

Front roll stopper and centermember removal steps

- Under cover (Refer to GROUP 51, Under cover [P.51-18](#)).

1. Front roll stopper connecting bolt
2. Centermember and front roll stopper assembly
3. Centermember
4. Front roll stopper

>>A<< **Rear roll stopper removal steps <2WD>**

5. Rear roll stopper connecting bolt
6. Rear roll stopper connecting bolt
7. Rear roll mount bracket assembly

Rear roll stopper removal steps <2WD> (Continued)

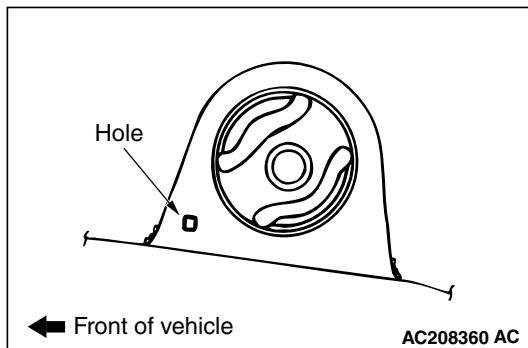
8. Clamp bracket
9. Rear roll mount bracket
10. Rear roll stopper

Rear roll rod bracket removal steps <4WD>

- Front exhaust pipe (Refer to GROUP 15, Exhaust pipe [P.15-8](#)).
- 5. Rear roll mount connecting bolt
- 11. Rear roll rod
- Transfer assembly (Refer to GROUP 22A, Transfer [P.22A-8](#)).
- 12. Rear roll rod bracket

INSTALLATION SERVICE POINT

>>A<< FRONT ROLL STOPPER INSTALLATION



Install the front roll stopper so that its hole points towards the front side of the vehicle.

INSPECTION

M1321002400046

- Check the roll stopper for cracks, separation or deformation.
- Check the centermember for cracks or damage.

CROSSMEMBER

REMOVAL AND INSTALLATION

M1321003200346

⚠ CAUTION

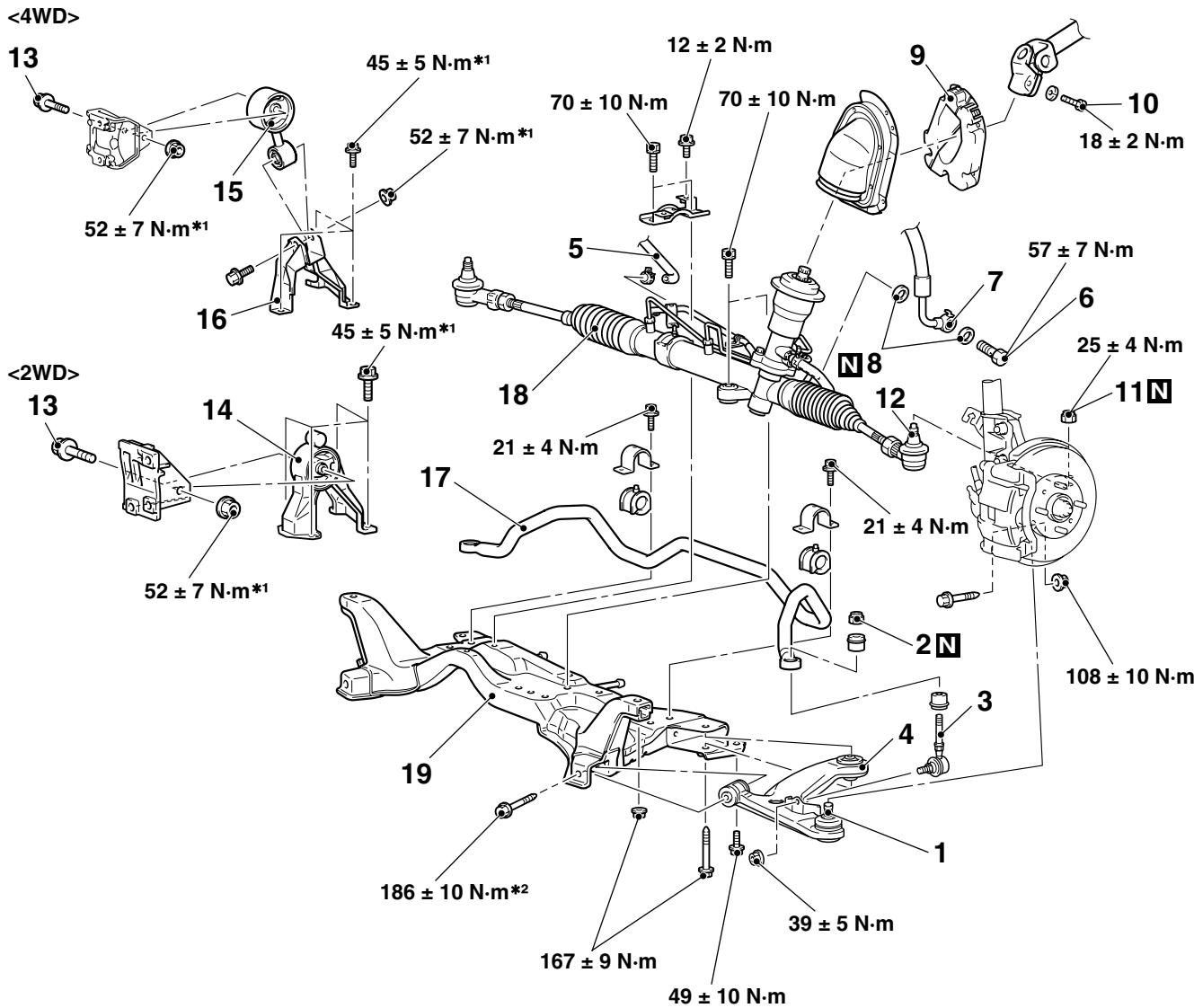
- Before removing the steering wheel and air bag module assembly, always refer to GROUP 52B - Service Precautions, Air bag Module and Clock Spring. Also, set the front wheels so that they are facing straight forward, and remove the ignition key. If you fail to do this, the SRS clock spring will be damaged, causing the SRS air bag to be inoperative and serious injury.
- *¹: 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.
- *²: Indicates parts which should be temporarily tightened, and then fully tightened with the vehicle on the earth in the unladen condition.

Pre-removal Operation

- Centermember Removal (Refer to [P.32-6](#)).
- Front Exhaust Pipe Removal (Refer to GROUP 15, Exhaust Pipe and Main Muffler [P.15-8](#)).
- Steering Wheel Air Bag Module Assembly Removal (Refer to GROUP 37, Steering Wheel [P.37-13](#)).
- Power Steering Fluid Draining (Refer to GROUP 37A, On-vehicle Service [P.37-10](#)).

Post-installation Operation

- Centermember Installation (Refer to [P.32-6](#)).
- Front Exhaust Pipe Installation (Refer to GROUP 15, Exhaust Pipe and Main Muffler [P.15-8](#)).
- Steering Wheel Air Bag Module Assembly Installation (Refer to 37, Steering Wheel [P.37-13](#)).
- Power Steering Fluid Supplying (Refer to GROUP 37A, On-vehicle Service [P.37-10](#)).
- Power Steering Fluid Line Bleeding (Refer to GROUP 37A, On-vehicle Service [P.37-10](#)).
- Press the dust cover with a finger to check whether the dust cover cracked or damaged.
- Checking Steering Wheel Position with Wheels Straight Ahead.
- Front Wheel Alignment Check and Adjustment (Refer to GROUP 37A, On-vehicle Service [P.37-7](#)).



AC301765AB

Removal steps

>>B<<

1. Lower arm and knuckle connection
2. Self-locking nut
3. Stabilizer link assembly
4. Lower arm assembly
5. Return hose connection
6. Eye bolt
7. Pressure hose connection
8. Gasket
9. Shaft cover
10. Steering shaft assembly and gear box connecting bolt

<<A>>

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>>A<<

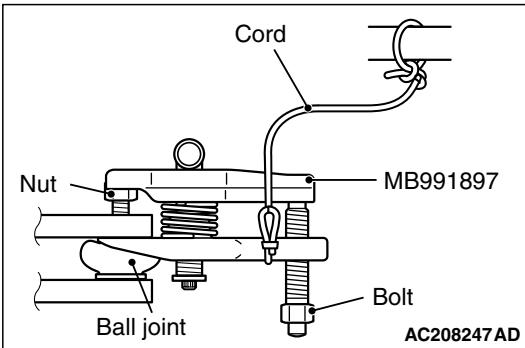
Removal steps (Continued)

11. Self-locking nut
12. Tie rod end and knuckle connection
13. Rear roll rod connection bolt
14. Rear roll stopper <2WD>
15. Rear roll rod <4WD>
16. Rear roll rod bracket <4WD>
- Crossmember assembly
17. Stabilizer bar
18. Steering gear and linkage
19. Crossmember

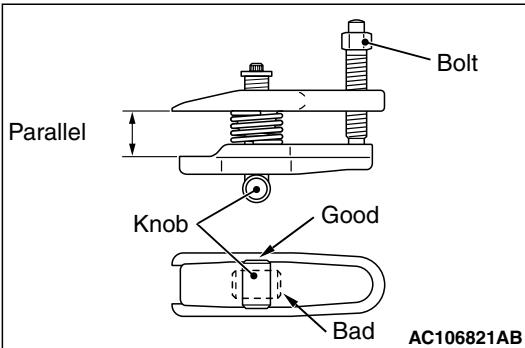
REMOVAL SERVICE POINTS

<<A>> TIE ROD END AND KNUCKLE
DISCONNECTION**CAUTION**

- Do not remove the nut from ball joint. Loosen it and use special tool ball joint remover (MB991897) to avoid possible damage to ball joint threads.
- Hang special tool ball joint remover (MB991897) with a cord to prevent it from falling.



1. Install the special tool ball joint remover (MB991897) as shown in the figure.

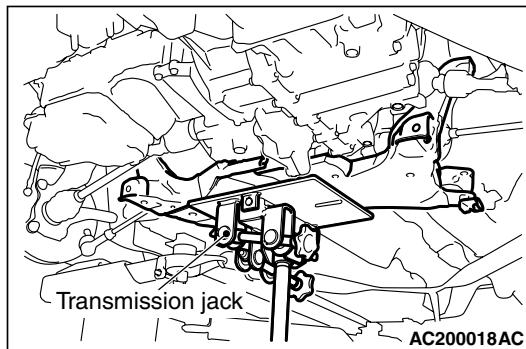


2. Turn the bolt and knob as necessary to make the jaws of the special tool ball joint remover (MB991897) parallel, tighten the bolt by hand and confirm that the jaws are still parallel.

NOTE: When adjusting the jaws in parallel, make sure the knob is in the position shown in the figure.

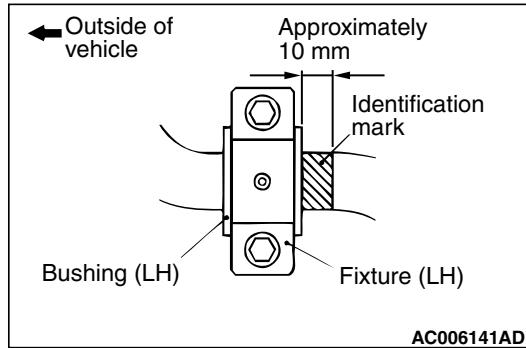
3. Tighten the bolt with a wrench to disconnect the tie rod end.

<> CROSSMEMBER ASSEMBLY REMOVAL



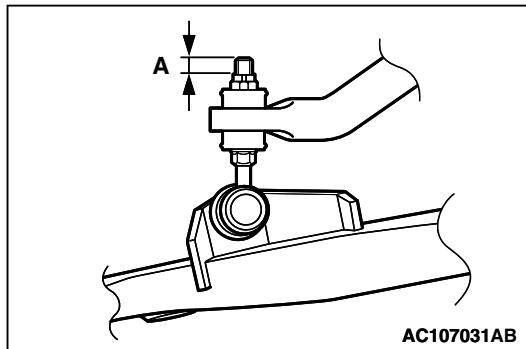
Retain the crossmember with a transmission jack, and then remove the crossmember mounting bolt.

INSTALLATION SERVICE POINTS

>>A<< STABILIZER BAR/BUSHING/FIXTURE
INSTALLATION

Align the stabilizer bar identification mark with the right end of the bushing (LH).

>>B<< SELF-LOCKING NUT INSTALLATION



Tighten the self-locking nut until the stabilizer link thread part protruding length meets the standard value.

Standard value (A): 9.4 ± 0.4 mm

INSPECTION

M1321003300172

- Check the crossmember for cracks and damage.