

## GROUP 34

# REAR SUSPENSION

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## SERVICE SPECIFICATIONS

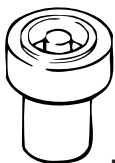
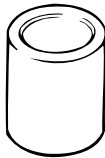
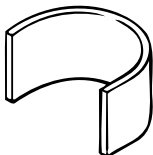
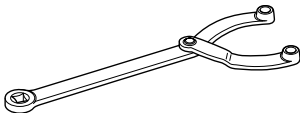
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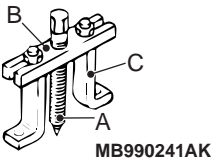

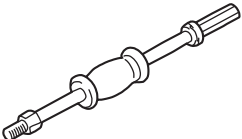
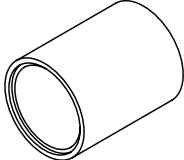
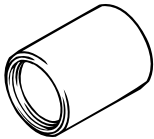
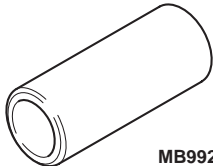
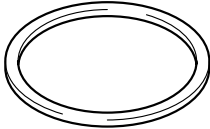
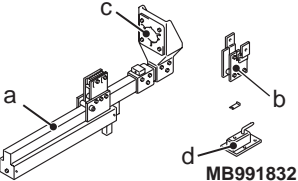
Item		Standard value
Toe in mm	At the centre of tyre tread mm	$3 \pm 2$
	Toe-angle (per wheel)	$0^{\circ} 02' - 0^{\circ} 12'$
Camber		$-0^{\circ} 30' \pm 0^{\circ} 45' ^*$
Stabilizer link ball joint rotation torque N·m		0.3 – 2.9

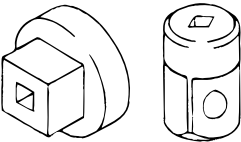
NOTE: \*: Difference between right and left wheels must be  $0^{\circ} 30'$  or less.

## SPECIAL TOOLS

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Tool	Number	Name	Use
 MB991447	MB992123	Arm bushing remover and installer	Lower arm bushing removal and press-fit
	MB991448	Bushing remover and installer base	
	MB991449	Bushing remover and installer supporter	
 B990767	MB990767	Front hub & flange yoke holder	Fixing of hub

Tool	Number	Name	Use
 <p>MB990241AK</p>	<p>MB990241</p> <p>A:MB990242</p> <p>B:MB990243</p> <p>C:MB990244</p>	<p>Axle shaft puller</p> <p>A: Puller shaft</p> <p>B: Puller body</p> <p>C: Puller bar</p>	Rear hub assembly removal
 <p>MB991354</p>	MB991354	Puller body	
 <p>MB990211</p>	MB990211	Slide hammer	
	MB991523	Arm bushing remover and installer	Trailing arm bushing removal and press-fit
 <p>MB990890</p>	MB990890	Arm bushing remover and installer	
 <p>MB992125</p>	MB992125	Arm bushing base	
 <p>B992865</p>	MB992865	Spacer base	
 <p>MB991832</p>	<p>MB991832</p> <p>a: MB991793</p> <p>b: MB991796</p> <p>c: MB991794</p> <p>d: MB991830</p>	<p>Spring compressor set</p> <p>a: Spring compressor assembly</p> <p>b: Attachment B</p> <p>c: Upper plate</p> <p>d: Fixture</p>	Coil spring removal and installation

Tool	Number	Name	Use
 MB990326	MB990326	Preload socket	Stabilizer link ball joint rotation torque measurement

## ON-VEHICLE SERVICE

### REAR WHEEL ALIGNMENT CHECK AND ADJUSTMENT

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- Before the wheel alignment measurement, adjust the rear suspension, wheel, and tyres in good condition.
- Park the vehicle on a level surface to measure the wheel alignment.

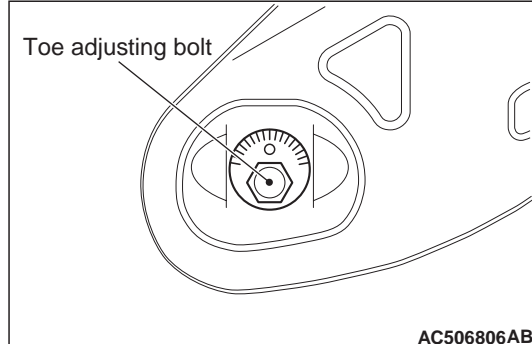
#### TOE-IN

**Standard value:**

**At the centre of tyre tread:  $3 \pm 2$  mm**

**Toe-angle (per wheel):  $0^\circ 02' - 0^\circ 12'$**

If it is out of the standard range, adjust as follows:



Turn the toe adjusting bolt (the mounting bolt inside the body on the control link) to adjust.

**Left wheels: Clockwise (+) Toe in**

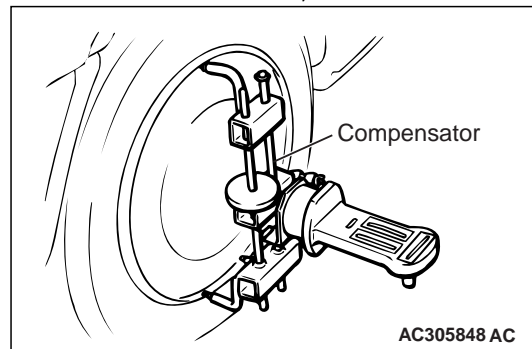
**Right wheels: Clockwise (-) Toe in**

Toe-in varies approximately 2.6 mm (equivalent to  $0^\circ 16'$  of the toe angle for one side) for each scale mark.

**Standard value:  $-0^\circ 30' \pm 0^\circ 45'$**

#### NOTE:

- Difference between right and left wheels must be  $0^\circ 30'$  or less.
- The camber is pre-adjusted at factory and is not adjustable.



As for vehicles with aluminium wheel, use a compensator to measure the camber and caster.

### STABILIZER LINK BALL JOINT DUST COVER INSPECTION

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- Using your fingers, press the dust cover to check for a crack or damage.
- If the dust cover has a crack or damage, replace the stabilizer link.

**NOTE:** If the dust cover has a crack or damage, the ball joint could be damaged.

# CONTROL LINK, UPPER ARM AND LOWER ARM

## REMOVAL AND INSTALLATION

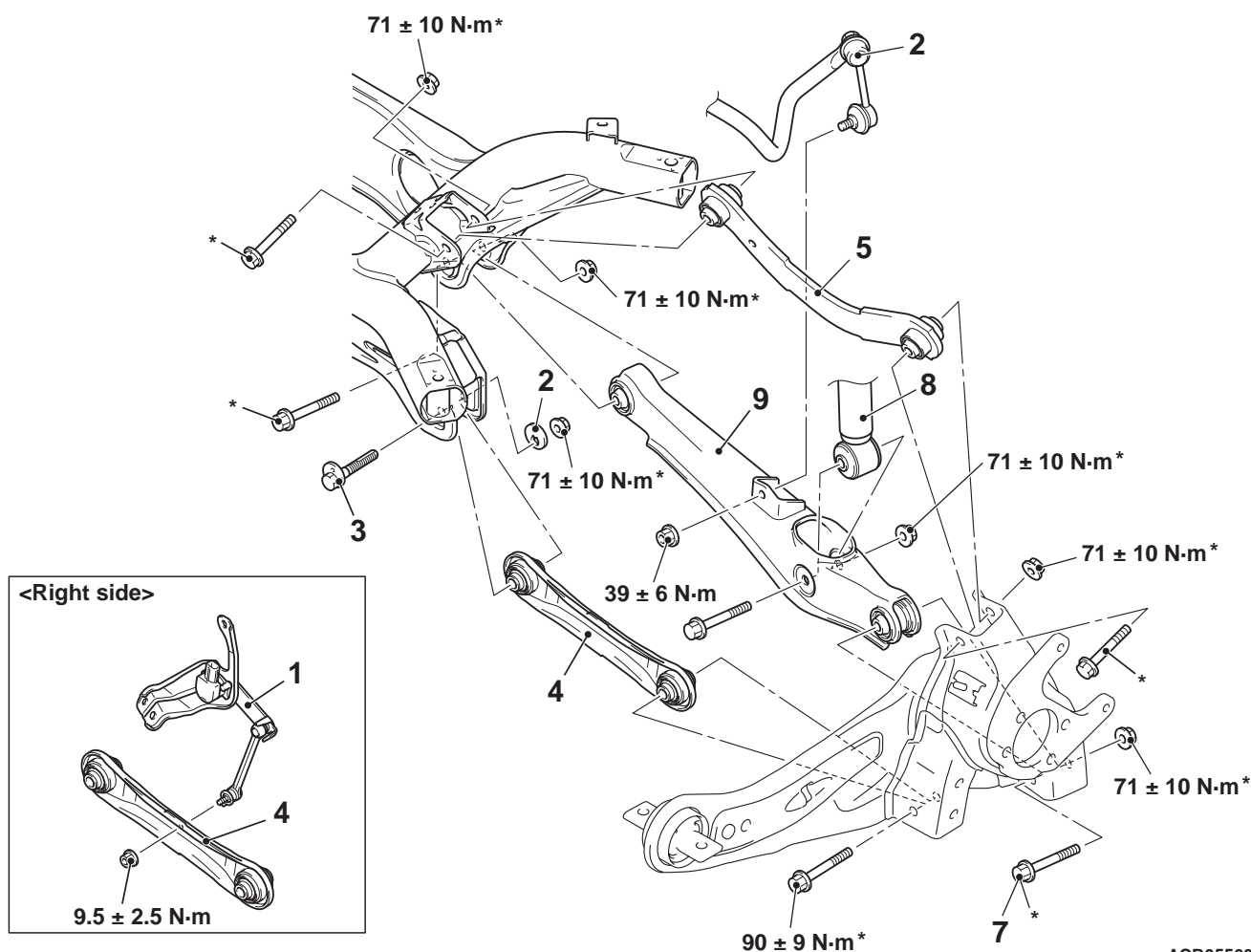
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### CAUTION

The parts indicated by \* are the bolts/nuts with friction coefficient stabilizer. In removal, ensure there is no damage, clean dust and soiling from the bearing and thread surfaces, and tighten them to the specified torque.

#### Post-installation operation

- Using your fingers, press the Ball Joint Dust Cover to check for a crack or damage.
- Wheel alignment check and adjustment (Refer to P.34-4.)
- Check the beam direction of the headlamp (Low beam) (Refer to GROUP 54A – Headlamp Aiming ).



#### Control link and upper arm removal

1. Rear height sensor to control link connection <Vehicles with discharge headlamp>
2. Plate
3. Toe adjusting bolt
4. Control link

#### Control link and upper arm removal (Continued)

- Fuel tank vapour hose connection (Refer to GROUP 13B, Fuel tank <4WD>.)
5. Upper arm

<<A>> >>B<<  
<<A>> >>B<<

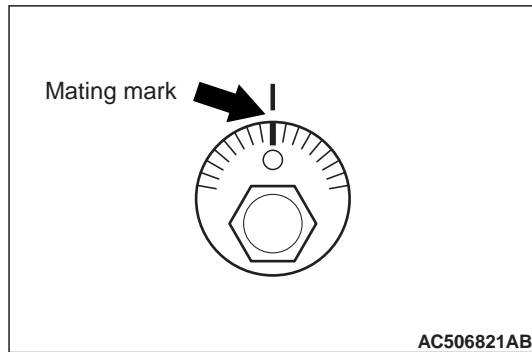
>>A<<

## Lower arm removal steps

1. Rear height sensor to control link connection Vehicles with discharge headlamp>
- <<B>> 6. Stabilizer link connection
- <<B>> 7. Lower arm and trailing arm connection
8. Shock absorber and lower arm connection
9. Lower arm

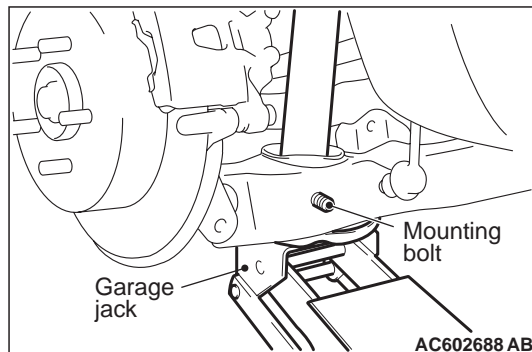
## REMOVAL SERVICE POINT

### <<A>> TOE ADJUSTING BOLT/CONTROL LINK REMOVAL



Make a mating mark on the toe adjusting bolt, and remove the control link.

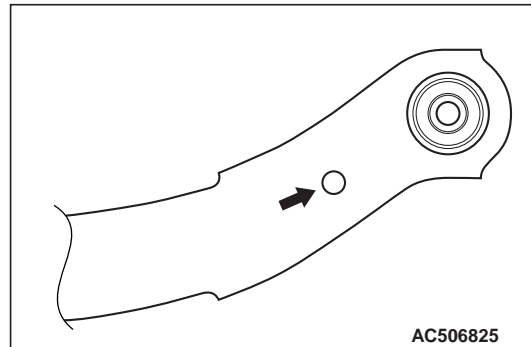
### <<B>> LOWER ARM AND TRAILING ARM/SHOCK ABSORBER AND LOWER ARM DISCONNECTION



While jacking-up the lower arm with garage jack, remove the mounting bolts.

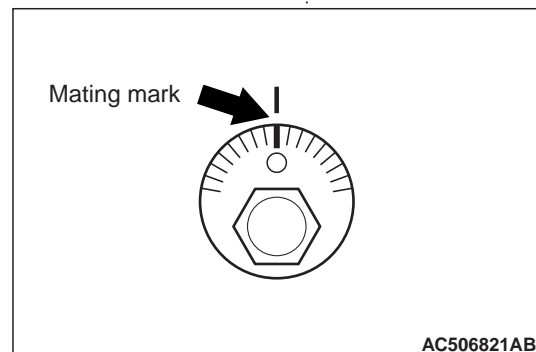
## INSTALLATION SERVICE POINT

### >>A<< UPPER ARM INSTALLATION

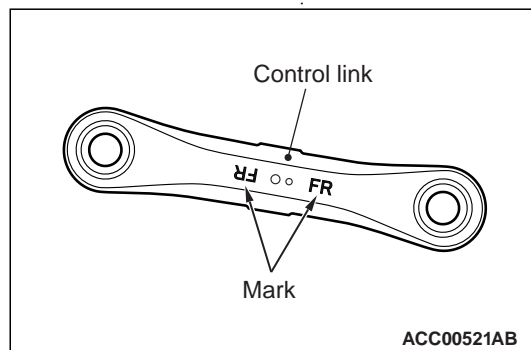


Install the upper arm so that the hole faces the body side.

### >>B<< TOE ADJUSTING BOLT/CONTROL LINK INSTALLATION



Align the marks made on the toe adjustment bolt removal.



Make sure that "FR" mark stamped on the control link points to the vehicle front.

## LOWER ARM BUSHING REPLACEMENT

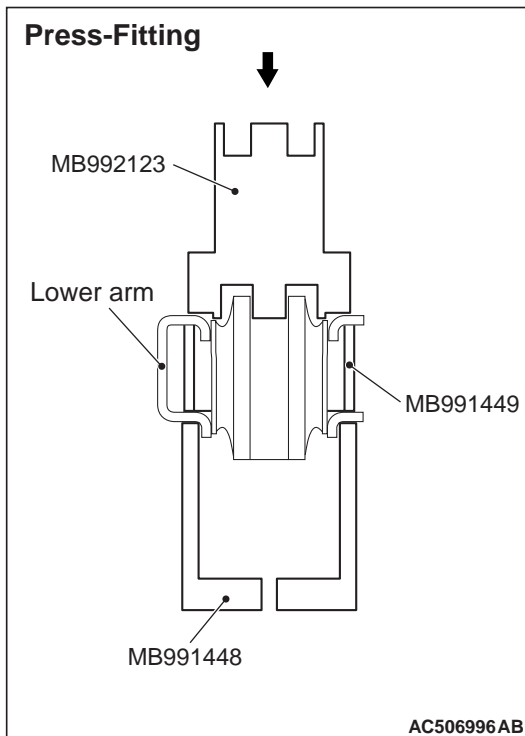
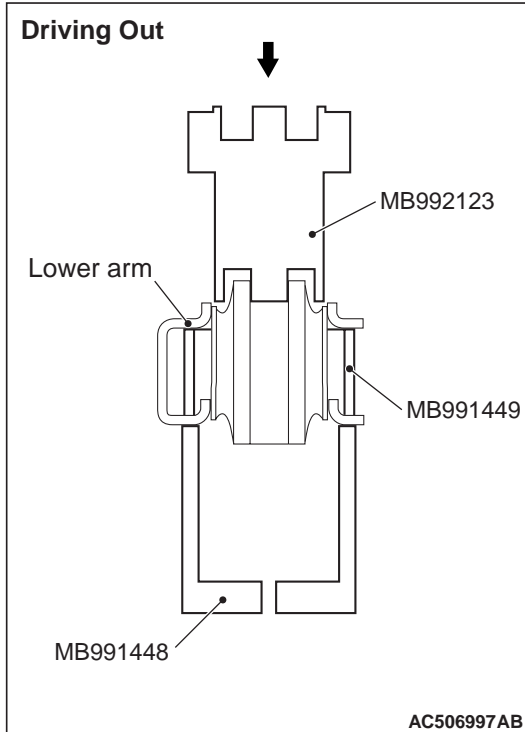
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### CAUTION

As the bushing has different outer diameters at both ends, be careful not to confuse the removal direction with the press-fit direction.

Use the following special tools to remove and press-fit the lower arm bushing:

- Arm bushing remover and installer (MB992123)
- Bushing remover and installer base (MB991448)
- Bushing remover and installer supporter (MB991449)



## TRAILING ARM

## REMOVAL AND INSTALLATION

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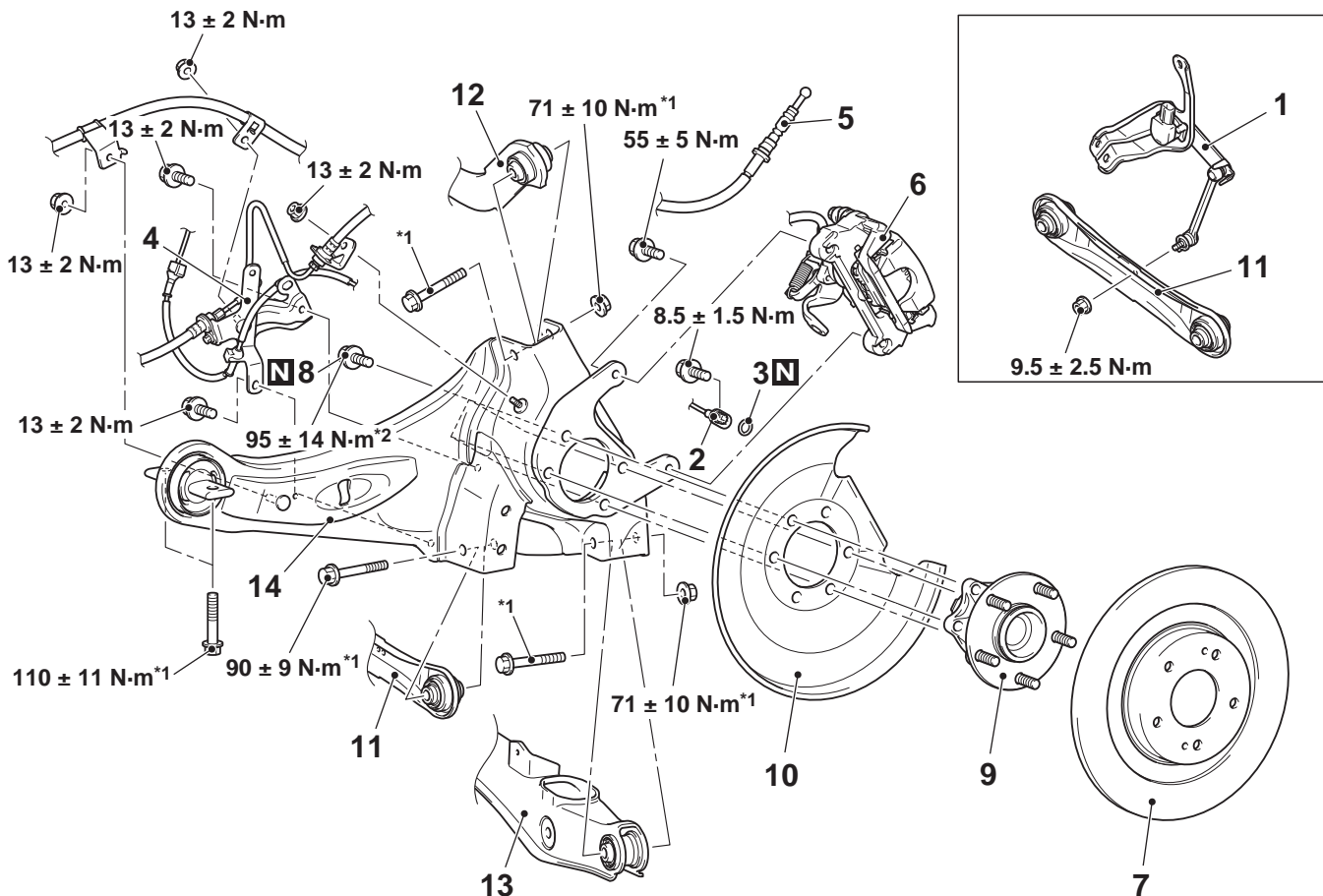
**CAUTION**

- The parts indicated by \*<sup>1</sup> are the bolts/nuts with friction coefficient stabilizer. In removal, ensure there is no damage, clean dust and soiling from the bearing and thread surfaces, and tighten them to the specified torque.
- The part indicated by \*<sup>2</sup> is the bolt/nut with friction coefficient stabilizer. In removal, replace it with new one.

**Post-installation operation**

- Rear Under Cover Removal and Installation (Refer to GROUP 51, Under Cover ).
- Using your fingers, press the Ball Joint Dust Cover to check for a crack or damage.
- Wheel Alignment Check and Adjustment (Refer to P.34-4.)
- Parking Brake Lever Stroke Check and Adjustment (Refer to GROUP 36, On-vehicle Service – Parking Brake Lever Stroke Check and Adjustment .)
- Check the beam direction of the headlamp (Low beam) (Refer to GROUP 54A – Headlamp Aiming ).

&lt;2WD&gt;





**Removal steps**

1. Rear height sensor to control link connection <Vehicles with discharge headlamp>
2. Rear wheel speed sensor (Refer to GROUP 35B – Wheel speed sensor or GROUP 35C – Wheel speed sensor .)
3. O-ring
4. Rear wheel speed sensor harness/Rear brake hose/Rear brake hose bracket
5. Parking brake cable connection (Rear brake caliper assembly side)
6. Rear brake caliper assembly

<<A>> >>A<<

<<B>>

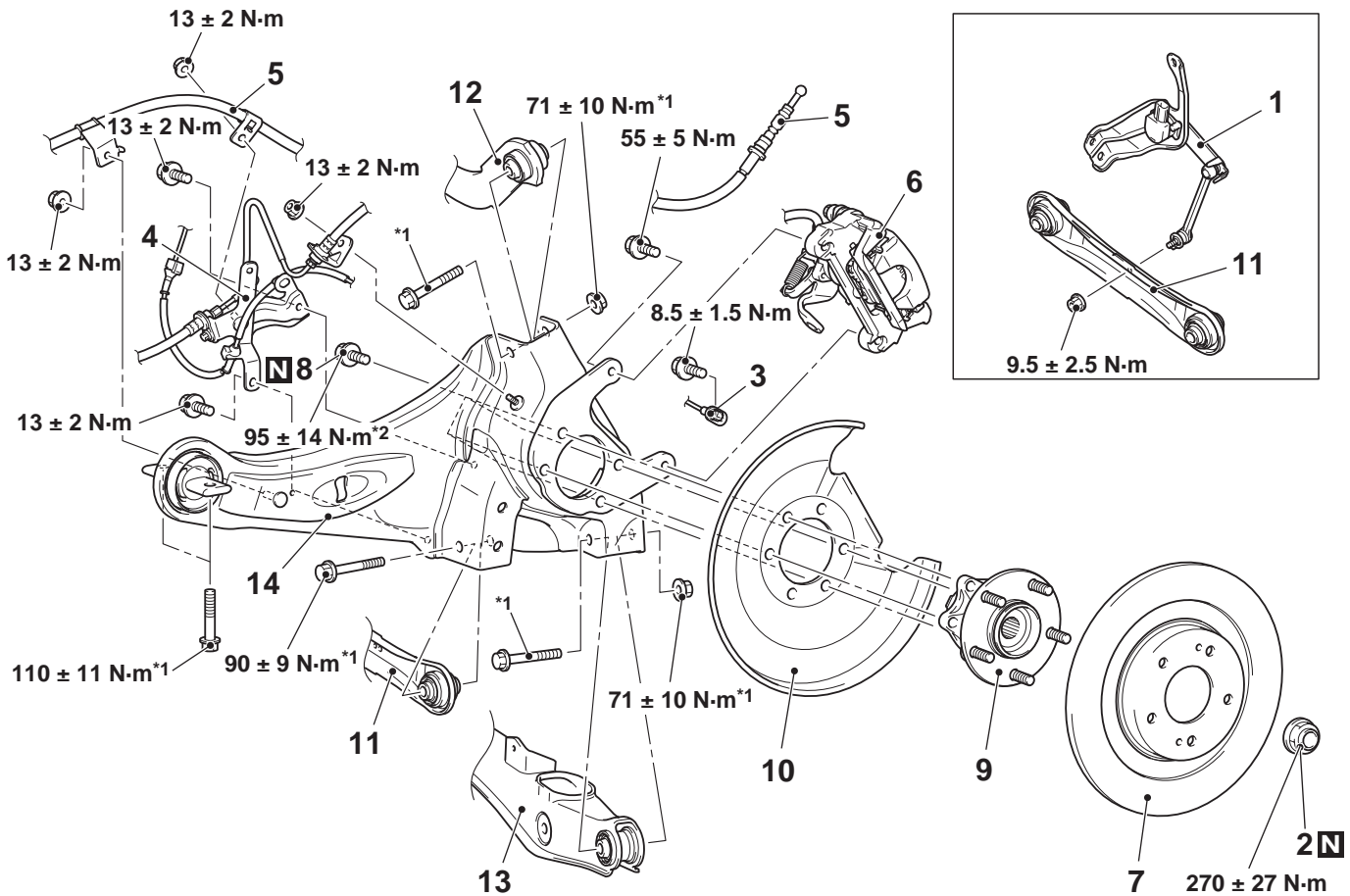
<<C>>

<<D>>

<4WD>

**Removal steps (Continued)**

7. Rear brake disc
8. Rear wheel hub assembly mounting bolt
9. Rear wheel hub assembly
10. Dust shield
11. Control link connection
12. Upper arm connection
13. Lower arm assembly connection
14. Trailing arm assembly



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**Removal steps**

1. Rear height sensor to control link connection <Vehicles with discharge headlamp>
2. Rear driveshaft nut
3. Rear wheel speed sensor (Refer to GROUP 35B – Wheel speed sensor or GROUP 35C – Wheel speed sensor .)

<<A>> >>B<<

<<B>> >>A<<

<<C>>

**Removal steps (Continued)**

4. Rear wheel speed sensor harness/Rear brake hose/Rear brake hose bracket
5. Parking brake cable connection (Rear brake caliper assembly side)
6. Rear brake caliper assembly
7. Rear brake disc

## Removal steps (Continued)

&lt;&lt;D&gt;&gt;

8. Rear wheel hub assembly mounting bolt
9. Rear wheel hub assembly
10. Dust shield
11. Control link connection
12. Upper arm connection
13. Lower arm assembly connection
14. Trailing arm assembly

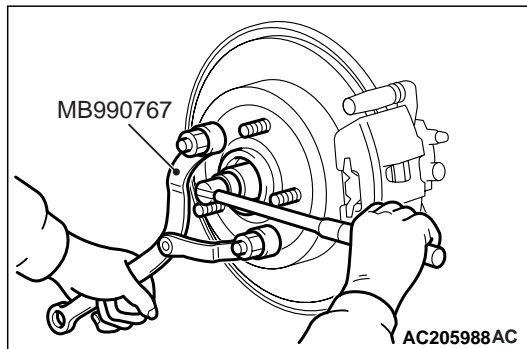
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## REMOVAL SERVICE POINTS

### <<A>> DRIVESHAFT NUT REMOVAL

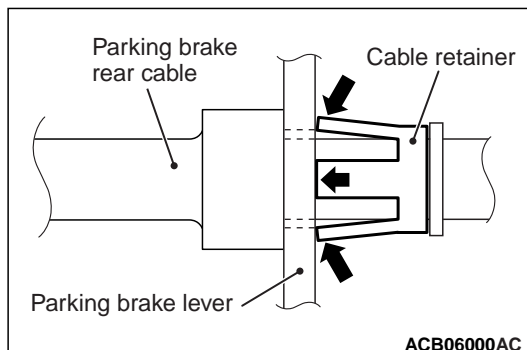
#### ⚠ CAUTION

Do not apply the vehicle weight on the rear wheel hub assembly before fully tightening the driveshaft nuts. Otherwise, the wheel bearing will be broken.



Use special tool front hub and flange yoke holder (MB990767) to counter the hub, and remove the driveshaft nut.

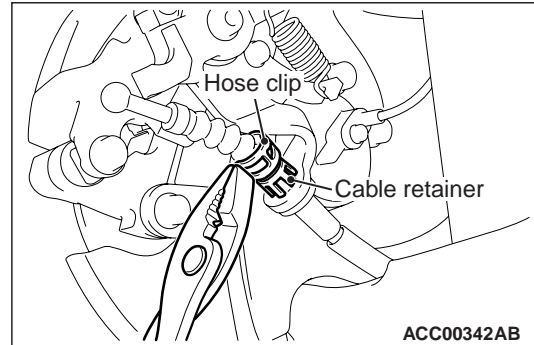
### <<B>> PARKING BRAKE REAR CABLE CONNECTION (REAR BRAKE CALIPER ASSEMBLY SIDE) REMOVAL



Compress the tabs on the cable retainer to pull out the parking rear cable through the parking lever hole of the rear brake caliper assembly.

#### NOTE:

- When pulling out the parking rear cable, be careful not to damage the tab on the cable retainer.

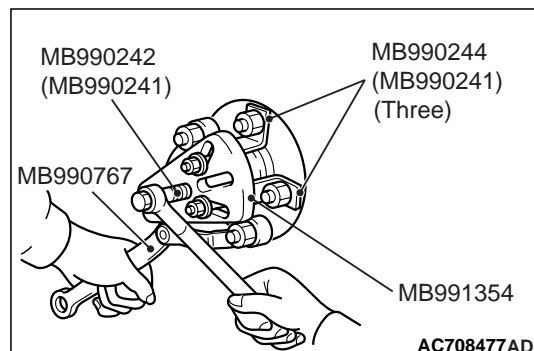


Example: Insert the 12.8-mm hose clip (MB248923) into the parking rear cable. Then push the clip over the cable retainer to protect the tabs.

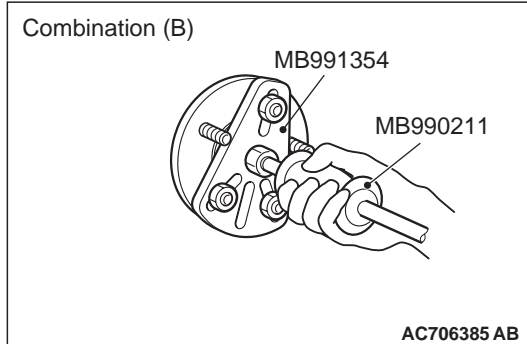
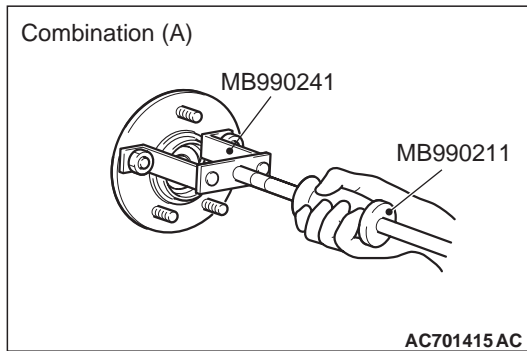
### <<C>> CALIPER ASSEMBLY REMOVAL

1. Remove the caliper assembly with brake hose.
2. Secure the removed caliper assembly with a wire or other similar material at a position where it will not interfere with the removal and installation of the rear wheel hub assembly.

### <<D>> REAR WHEEL HUB ASSEMBLY REMOVAL



1. If the rear wheel hub assembly is seized with the rear driveshaft assembly, use the following special tools to push the rear driveshaft assembly out from the hub and then remove the rear wheel hub assembly.
  - Puller shaft (MB990242)
  - Puller bar (MB990244)
  - Puller body (MB991354)
  - Front hub and flange yoke holder (MB990767)



2. If the rear wheel hub assembly is seized with the trailing arm, use the following special tools to remove the rear wheel hub assembly.

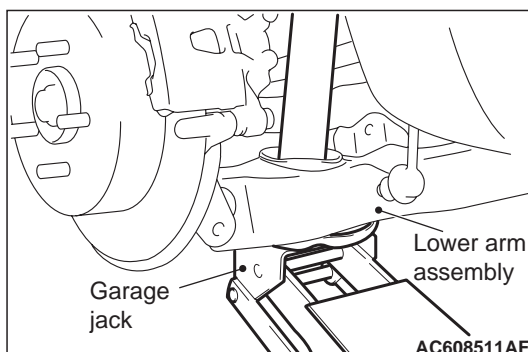
Combination (A)

- Slide hammer (MB990211)
- Rear axle shaft puller (MB990241)

Combination (B)

- Slide hammer (MB990211)
- Puller body (MB991354)

## <<E>> LOWER ARM ASSEMBLY DISCONNECTION

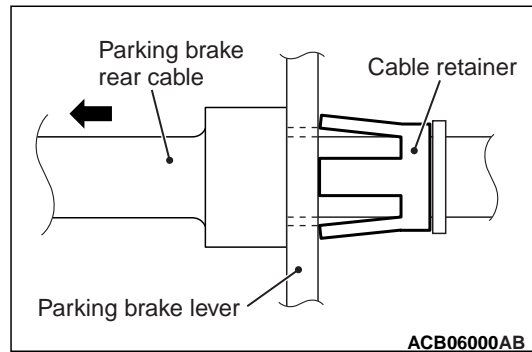


While jacking-up the lower arm with garage jack, remove the mounting bolts.

## INSTALLATION SERVICE POINTS

### >>A<< PARKING BRAKE REAR CABLE CONNECTION (REAR BRAKE CALIPER ASSEMBLY SIDE) INSTALLATION

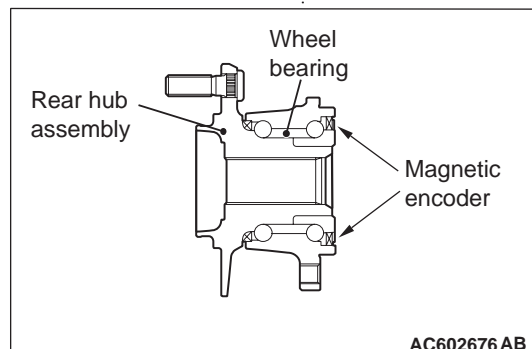
1. Guide the parking brake rear cable through the parking lever hole of the rear brake caliper assembly to the cable retainer.



2. Pull back the parking brake rear cable to assure it is tightly fastened to the cable retainer.

### >>B<< DRIVESHAFT NUT INSTALLATION

#### ⚠ CAUTION

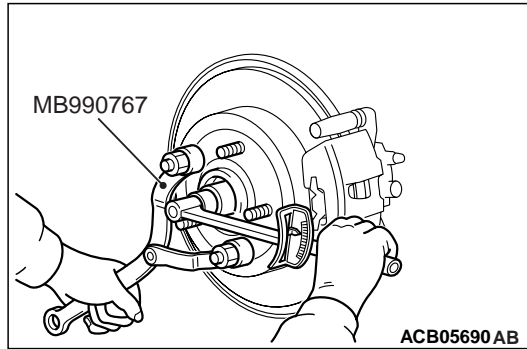


The wheel speed detection magnetic encoder collects metallic particles easily, because it is magnetised. Make sure that the magnetic encoder should not collect metallic particles. Check that there is not any trouble prior to reassembling it.

- When installing the driveshaft, make sure that it does not contact with the wheel speed detection magnetic encoder (integrated with the inner oil seal) to avoid damage.
- Do not apply the vehicle weight on the rear wheel hub assembly before fully tightening the driveshaft nuts. Otherwise, the wheel bearing will be broken.

1. Check the hub seated surface for damage or corrosion. Whenever solvent is used for removing the corrosion, the surface should be degreased.

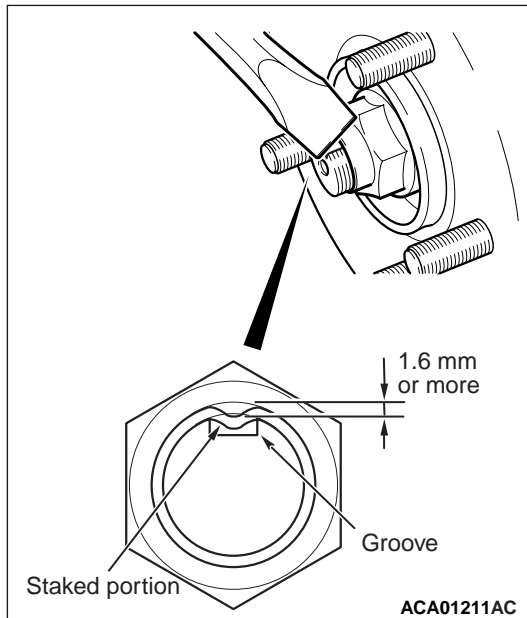
- Check that the new driveshaft nut can be turned smoothly by hand. Then tighten it until it is seated.



- Using special tool front hub and flange yoke holder (MB990767), tighten the driveshaft nut.

**Tightening torque:  $160 \pm 16 \text{ N}\cdot\text{m}$**

- After tightening to the specified torque, check that the nut is seated securely.



- Use the chisel and a hammer to stake the nut until the centre in the staked portion reaches the shown dimension.
- Finally, check that the nut is not cracked at its staked portion.

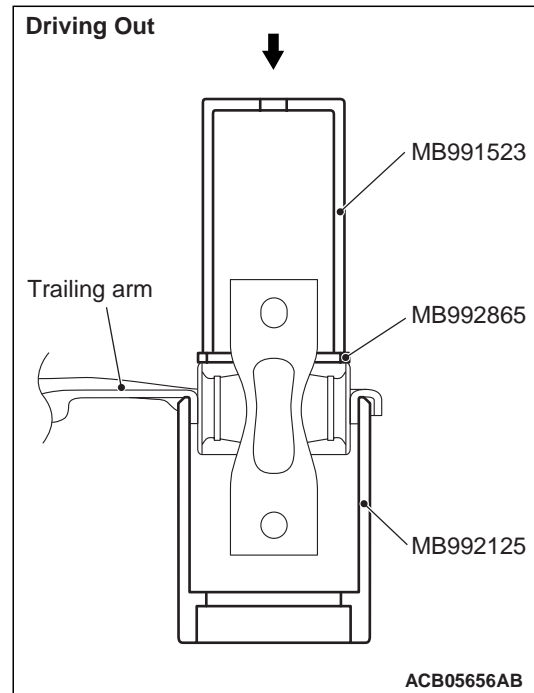
## INSPECTION

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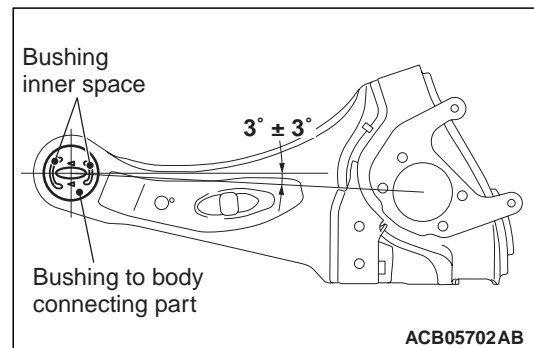
- Check the bushings for wear and deterioration.
- Check the trailing arm for bending or damage.

## TRAILING ARM BUSHING REPLACEMENT

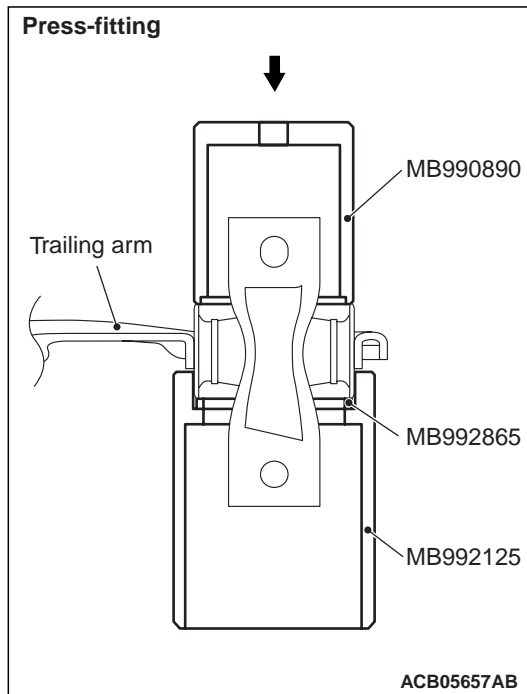
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- Use the following special tools to remove the trailing arm bushing:
  - Arm bushing remover and installer (MB992123)
  - Spacer base (MB992865)
  - Arm bushing base (MB992125)



- Determine the installation direction and the installation position of the trailing arm bushing.
  - Install so that the protruding side of the trailing arm bushing inner pipe faces inside the body.
  - Position horizontally the trailing arm bushing to body connecting part, and locate bushing inner space as shown in the figure.



- Arm bushing remover and installer (MB990890)
- Spacer base (MB992865)
- Arm bushing base (MB992125)

3. Use the following special tools to press-fit the trailing arm bushing up to the position shown in the figure:

## SHOCK ABSORBER ASSEMBLY

## REMOVAL AND INSTALLATION

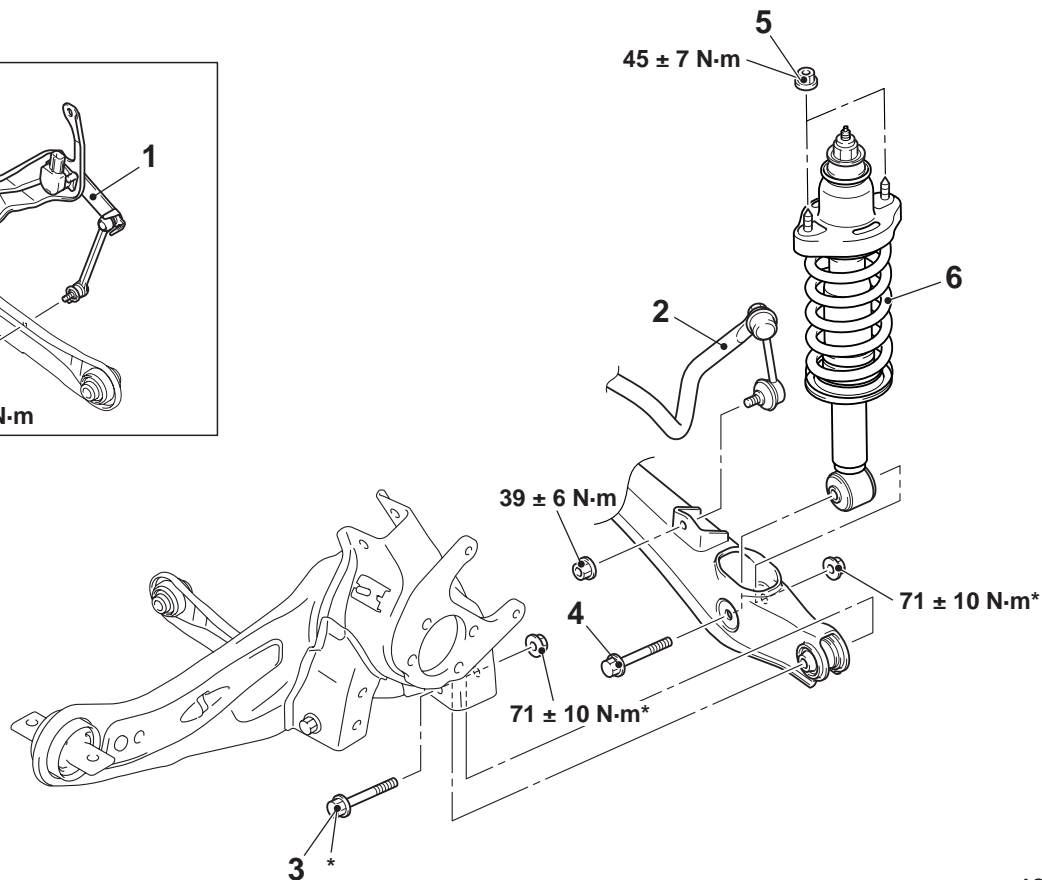
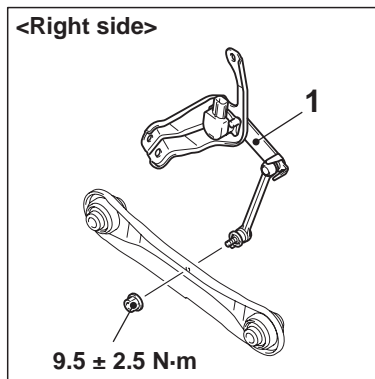
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**CAUTION**

The parts indicated by \* are the bolts/nuts with friction coefficient stabilizer. In removal, ensure there is no damage, clean dust and soiling from the bearing and thread surfaces, and tighten them to the specified torque.

**Post-installation operation**

- Check the dust cover for cracks or damage by pushing it with your finger.
- Check the beam direction of the headlamp (Low beam) (Refer to GROUP 54A – Headlamp Aiming ).



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**Removal steps**

1. Rear height sensor to control link connection <Vehicles with discharge headlamp>
2. Stabilizer link connection
3. Lower arm and trailing arm connection

**Removal steps (Continued)**

4. Shock absorber and lower arm connection
5. Shock absorber mounting nut
6. Shock absorber assembly

&lt;&lt;A&gt;&gt;

&lt;&lt;A&gt;&gt;

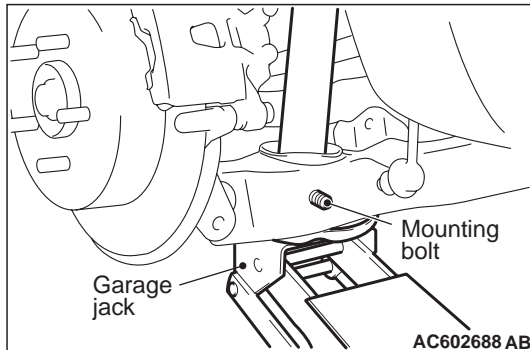
&lt;&lt;B&gt;&gt;

&lt;&lt;C&gt;&gt;

&gt;&gt;A&lt;&lt;

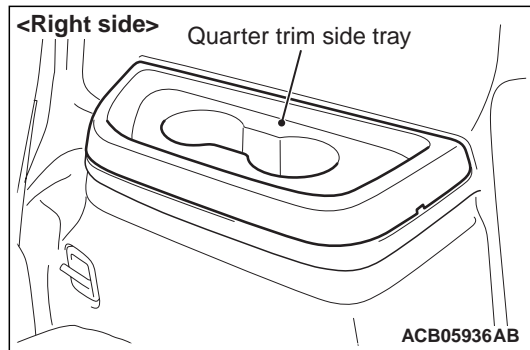
## REMOVAL SERVICE POINTS

### <<A>> LOWER ARM AND TRAILING ARM/SHOCK ABSORBER AND LOWER ARM DISCONNECTION



While jacking-up the lower arm with garage jack, remove the mounting bolts.

### <<B>> SHOCK ABSORBER MOUNTING NUT REMOVAL



Remove the appropriate quarter trim side tray to remove the shock absorber mounting nut. <Right side>

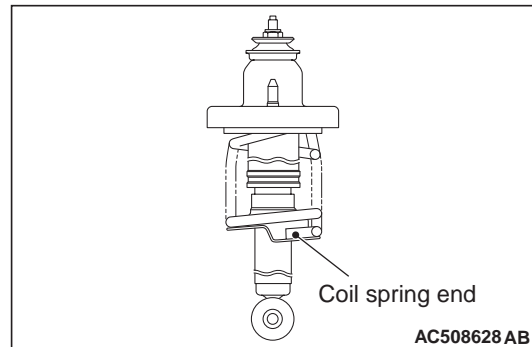
On the left side, remove the quarter trim (Refer to GROUP 51A – Interior Trim ). <Left side>

### <<C>> SHOCK ABSORBER ASSEMBLY REMOVAL

After having loosened the lower arm and rear suspension crossmember connection, remove the shock absorber assembly.

## INSTALLATION SERVICE POINT

### >>A<< SHOCK ABSORBER ASSEMBLY INSTALLATION



Install the shock absorber assembly so that the coil spring end faces the rear of the vehicle.

## INSPECTION

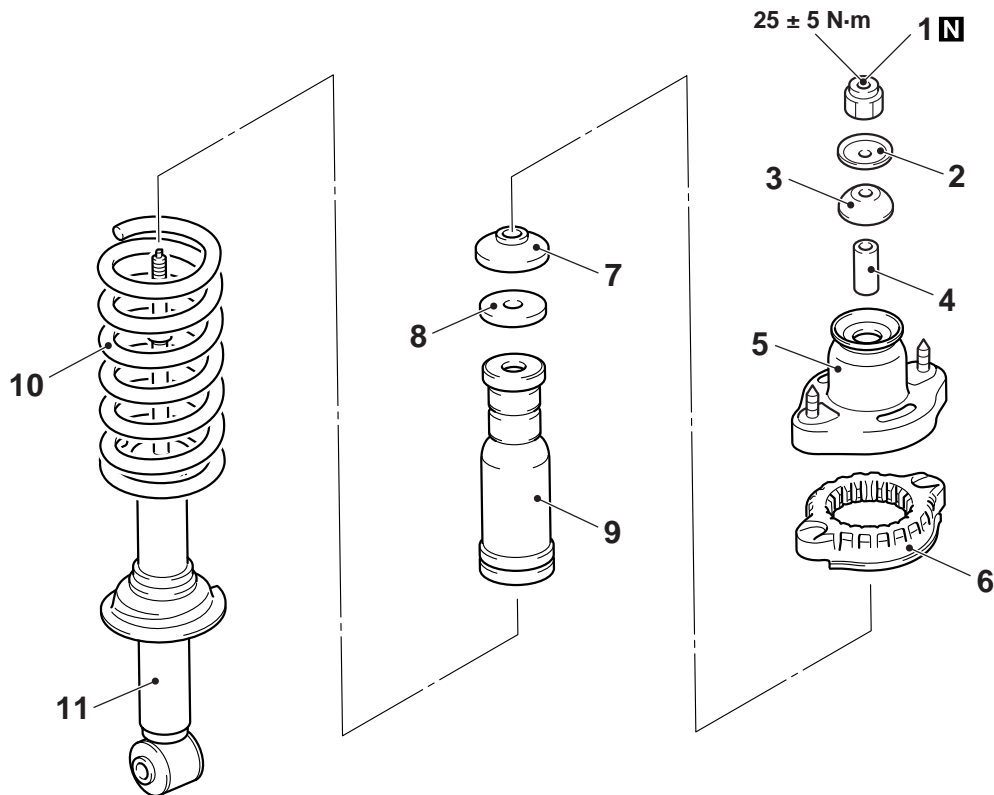
- Check the rubber parts for cracks and wear.
- Check the shock absorber for malfunctions, oil leakage, or abnormal noise.

M1341002600246



## DISASSEMBLY AND REASSEMBLY

M1341002700470



AC506862AB

### Disassembly steps

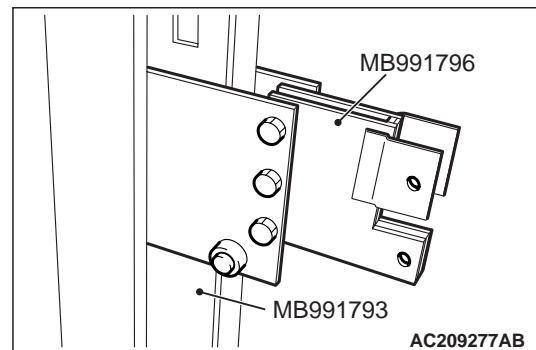
- |       |       |                                  |
|-------|-------|----------------------------------|
| <<A>> | >>B<< | 1. Self-locking nut              |
|       |       | 2. Washer                        |
|       |       | 3. Bushing B                     |
|       |       | 4. Collar                        |
|       |       | 5. Spring upper bracket assembly |
|       |       | 6. Spring upper pad              |
|       |       | 7. Bushing A                     |
|       |       | 8. Plate                         |
|       |       | 9. Bump rubber                   |
| >>A<< |       | 10. Coil spring                  |
| <<B>> |       | 11. Shock absorber               |

### DISASSEMBLY SERVICE POINT

#### <<A>> SELF-LOCKING NUT REMOVAL

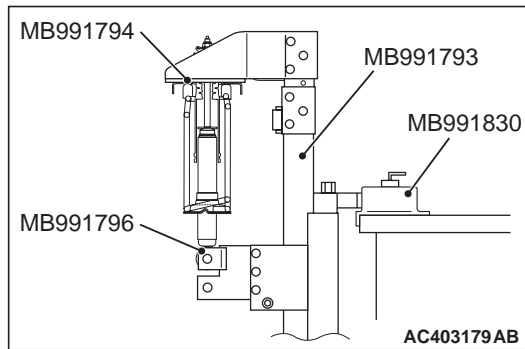
#### **CAUTION**

The locking nut for the piston rod inside the shock absorber may be loose. Do not use an impact wrench to loosen the self-locking nut.



1. Install special tool spring compressor (MB991796) to special tool attachment B (MB991793) as shown in the figure.



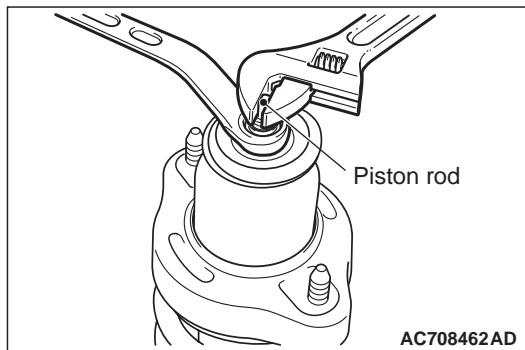


2. Set the shock absorber assembly to the following special tools:

- Spring compressor (MB991793)
- Attachment B (MB991796)
- Upper plate (MB991794)
- Fixture (MB991830)

**NOTE:** Use the bolts and nuts removed from the vehicle to secure the shock absorber assembly and tighten them lightly by hand.

3. After setting the shock absorber assembly, operate the spring compressor and compress the coil spring by approximately 5 mm.

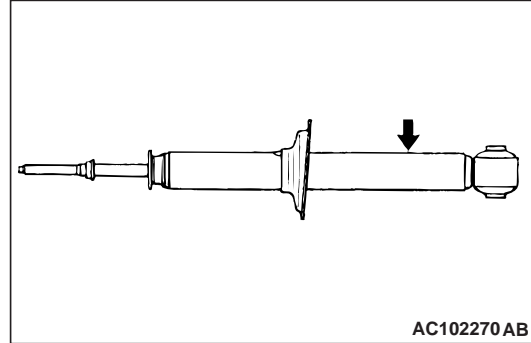


4. While holding the piston rod as shown in the figure, remove the self-locking nut.

## <<B>> SHOCK ABSORBER DISPOSAL PROCEDURES

### ⚠ CAUTION

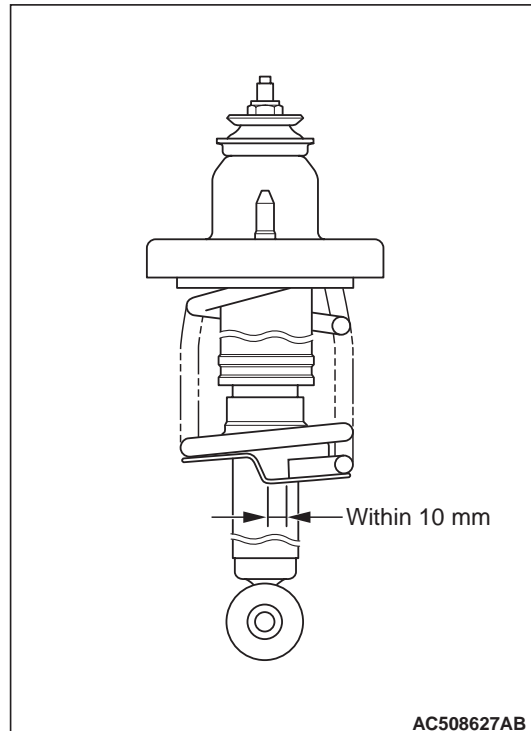
Wear the protective glasses. Although the gas is harmless, drilling chips may be blown out by the gas.



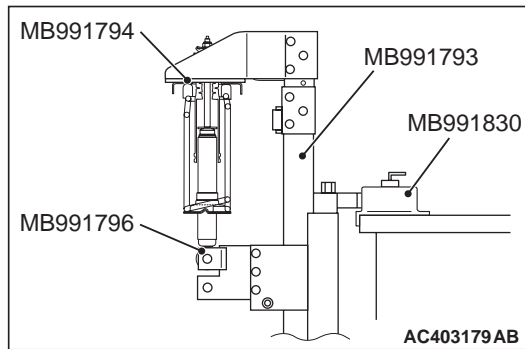
Before disposal of the shock absorber, place the shock absorber on the level surface with the piston rod extended, and make a hole of approximately 3 mm in diameter at the point shown in the figure to discharge the gas.

## REASSEMBLY SERVICE POINTS

### >>A<< COIL SPRING INSTALLATION



1. Align the end of the coil spring with the shock absorber as shown in the figure.



2. Set the shock absorber assembly to the following special tools:

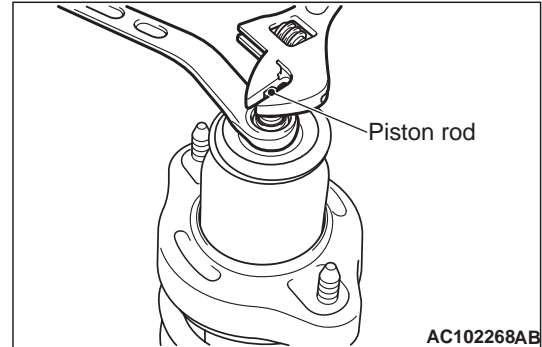
- Spring compressor (MB991793)
- Attachment B (MB991796)
- Upper plate (MB991794)
- Fixture (MB991830)

**NOTE:** Use the bolts and nuts removed from the vehicle to secure the shock absorber assembly and tighten them lightly by hand.

## >>B<< SELF-LOCKING NUT INSTALLATION

### ⚠ CAUTION

The locking nut for the piston rod inside the shock absorber may be loose. Do not use an impact wrench to tighten the self-locking nut.



Counter the piston rod of the shock absorber as shown in the figure, and tighten the self-locking nut to the specified torque.

**Tightening torque:  $25 \pm 5$  N·m**

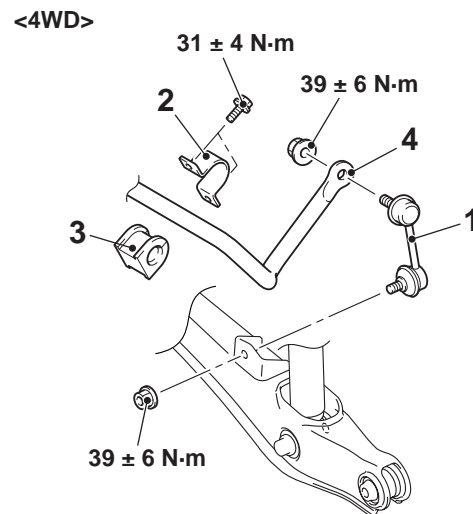
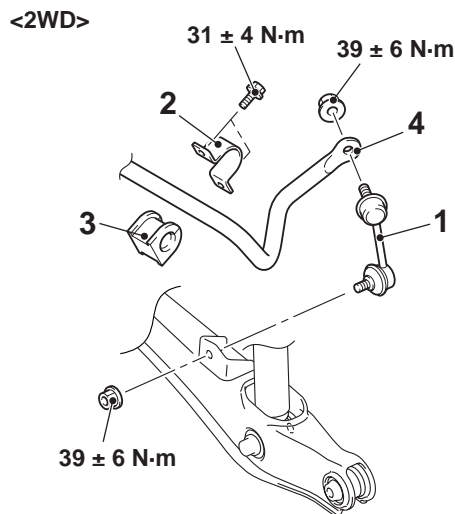
## STABILIZER BAR

### REMOVAL AND INSTALLATION

M1341003000827

#### Post-installation Operation

Check the dust cover for cracks or damage by pushing it with your finger.



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#### Removal steps

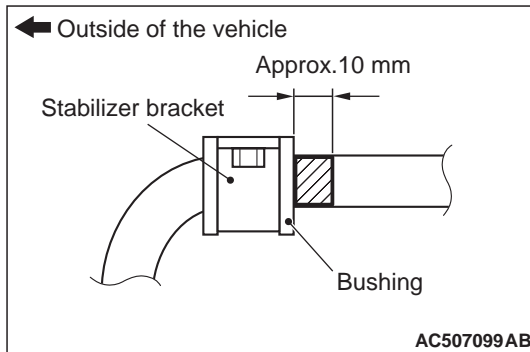
- >>A<< 1. Stabiliser link  
>>A<< 2. Stabilizer bracket  
>>A<< 3. Bushing

#### Removal steps (Continued)

- Rear differential carrier assembly (Refer to GROUP 27B, Differential carrier assembly <4WD>.)
- >>A<< 4. Stabilizer bar

## INSTALLATION SERVICE POINT

### >>A<< STABILIZER BAR/BUSHING/STABILIZER BRACKET INSTALLATION



Position the identification mark of the stabilizer bar at the left side of the vehicle as shown in the figure, and tighten the stabilizer bracket mounting bolt.

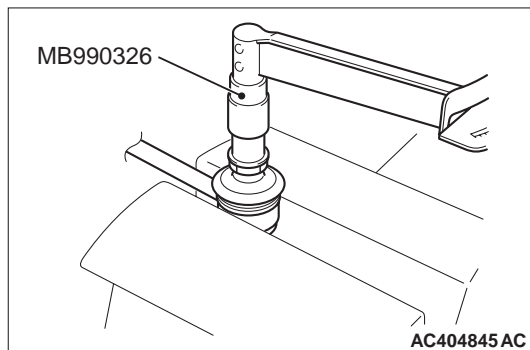
## INSPECTION

M1341001400517

- Check the bushings for wear and deterioration.
- Check the stabilizer bar for deterioration or damage.
- Check all bolts for condition and straightness.

## STABILIZER LINK BALL JOINT ROTATION TORQUE CHECK

M1341019300076



1. Move the stabilizer link ball joint stud back and forth for several times, install the stud with nut, and measure the stabilizer link ball joint rotation torque using the preload socket (Special tool: MB990326).

**Standard value: 0.3 to 2.9 N·m**

2. When the measured value exceeds the standard range, replace the stabilizer link.
3. When the measured value is lower than the standard value, check the stabilizer link ball joint that there is no looseness or gritty feeling. If there is no looseness or gritty feeling, it is judged as usable.

## STABILIZER LINK BALL JOINT DUST COVER CHECK

M1341013000088

1. Using your fingers, press the dust cover to check for a crack or damage.
2. If the dust cover has a crack or damage, replace the stabilizer link assembly.

*NOTE: If the dust cover has a crack or damage, the ball joint could be damaged.*

*If the dust cover is damaged during the maintenance, replace it.*

# REAR SUSPENSION CROSSMEMBER

## REMOVAL AND INSTALLATION

M1341006801115

### ⚠ CAUTION

- The part indicated by \* are the bolt with friction coefficient stabilizer. In removal, ensure there is no damage, clean dust and soiling from the bearing and thread surfaces, and tighten them to the specified torque.

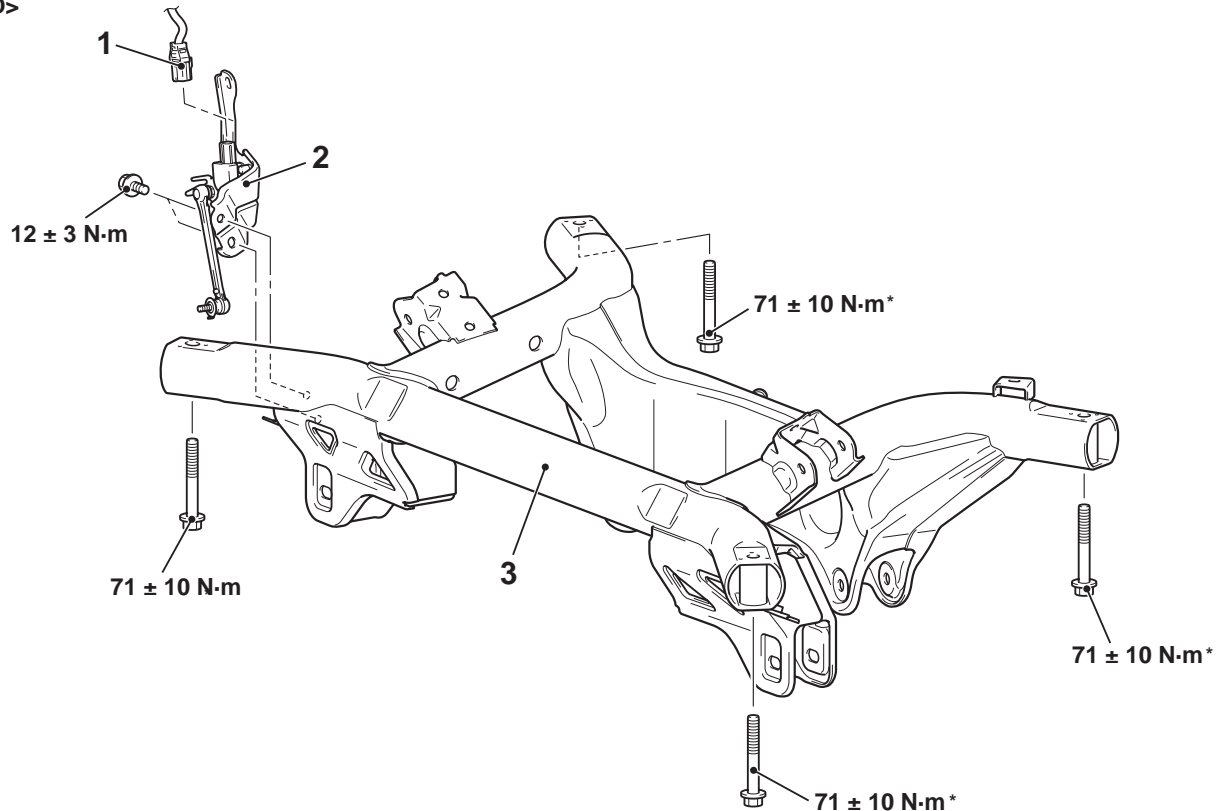
#### Pre-removal operation

- Control link arm removal (Refer to P.34-5.)
- Upper arm removal (Refer to P.34-5.)
- Rear suspension stabilizer bar removal (Refer to P.34-18.)
- Centre exhaust pipe and main muffler removal (Refer to GROUP 15, Exhaust Pipe and Muffler .)
- Driveshaft removal (Refer to GROUP 27B – Driveshaft assembly .)
- Rear differential assembly removal (Refer to GROUP27B – Differential carrier assembly <4WD>.)

#### Post-installation operation

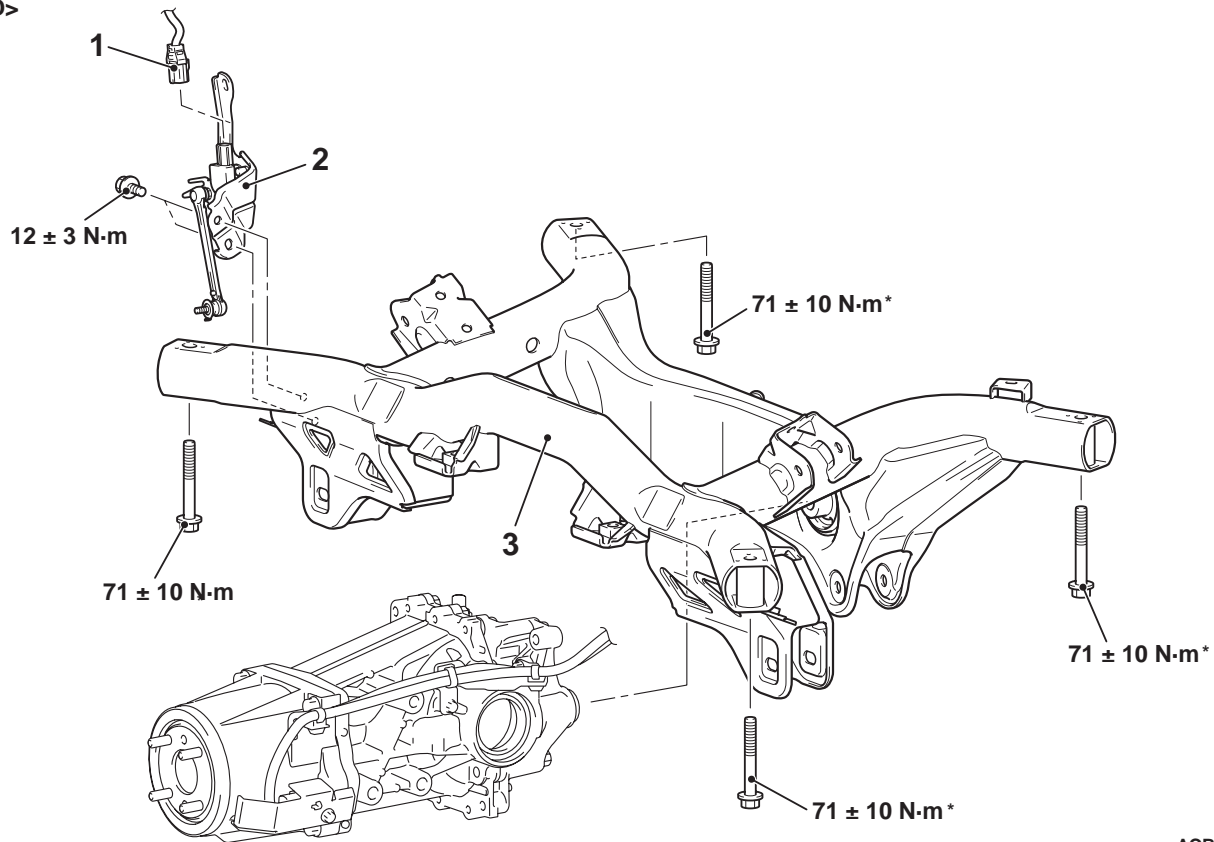
- Rear differential assembly installation (Refer to GROUP27B – Differential carrier assembly <4WD>.)
- Driveshaft installation (Refer to GROUP 27B – Driveshaft assembly .)
- Centre exhaust pipe and main muffler installation (Refer to GROUP 15, Exhaust Pipe and Muffler .)
- Rear suspension stabilizer bar installation (Refer to P.34-18.)
- Upper arm installation (Refer to P.34-5.)
- Control link installation (Refer to P.34-5.)
- Rear wheel alignment check and adjustment (Refer to P.34-4.)
- Check the beam direction of the headlamp (Low beam) (Refer to GROUP 54A – Headlamp Aiming ).

&lt;2WD&gt;



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<4WD>



ACB05592AB

### Removal steps

1. Rear height sensor harness connection <Vehicles with discharge headlamp>
2. Rear height sensor <Vehicles with discharge headlamp>
3. Rear suspension crossmember

### INSPECTION

M1341006900120

- Check the crossmember for cracks or deformation.
- Check all bolts for condition and straightness.