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# **REAR SUSPENSION**

# REAR SUSPENSION

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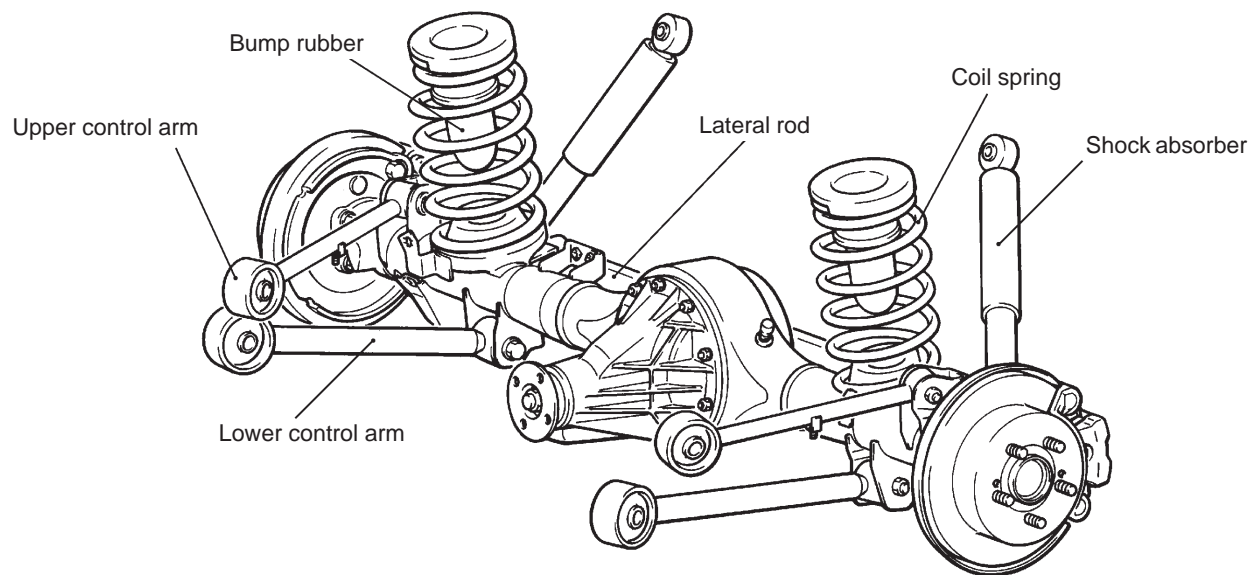
## GENERAL INFORMATION

The rear suspension is a 5-link coil spring type axle suspension, which assures comfortable ride and outstanding steering stability.

### COIL SPRING

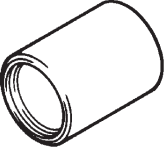
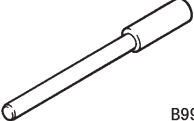






Items	Specification
Wire diameter × outer diameter × free length mm	11 × 131 × 306

### CONSTRUCTION DIAGRAM



AX0070AL

**SPECIAL TOOLS**

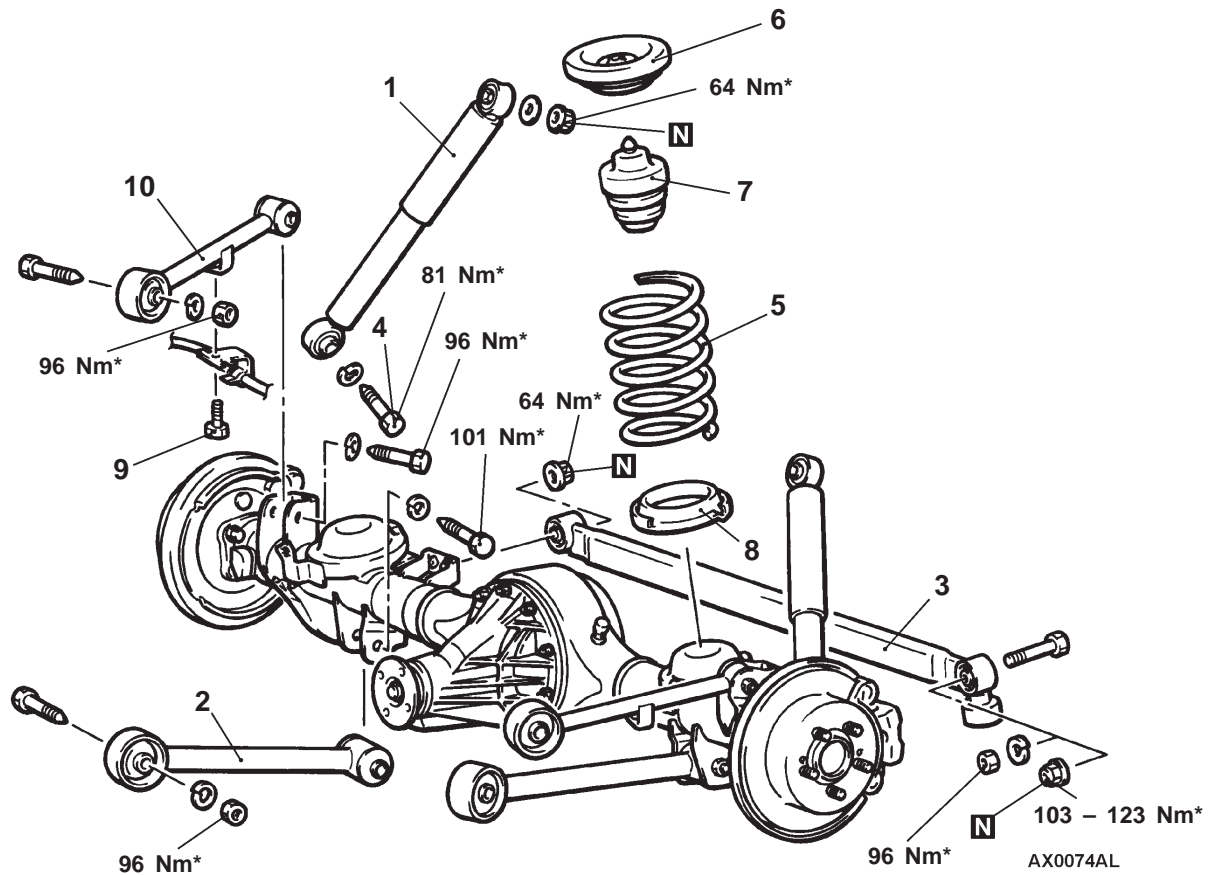
Tool	Number	Name	Use
 <p>B990847</p>	MB990847	Rear suspension bushing remover and installer base	<ul style="list-style-type: none"> <li>• Upper arm rear bushing driving out and press-fitting</li> <li>• Lower arm rear bushing driving out and press-fitting</li> </ul>
 <p>B990947</p>	MB990947	Lower arm bushing arbor	
 <p>B990831</p>	MB990832	Lower arm rear bushing remover and installer ring	Upper arm rear bushing driving out and press-fitting
 <p>B991154</p>	MB991154	Upper arm bushing guide	
 <p>B991154</p>	MB991155	Lower arm bushing guide	Lower arm rear bushing driving out and press-fitting
 <p>B990831</p>	MB990831	Upper arm bushing remover and installer ring	
 <p>B990958</p>	MB990958	Bushing remover and installer	<ul style="list-style-type: none"> <li>• Upper arm front bushing driving out and press-fitting</li> <li>• Lower arm front bushing driving out and press-fitting</li> </ul>
 <p>B990983</p>	MB990983	Bushing remover and installer arbor	

## REAR SUSPENSION ASSEMBLY

## REMOVAL AND INSTALLATION

## Caution

\*: To prevent bushings from breakage, the parts indicated by \* should be temporarily tightened, and then fully tightened with the vehicle on the ground in the unladen condition.



1. Shock absorber
2. Lower arm
3. Lateral rod
4. Shock absorber installation bolt

**Coil spring removal steps**

4. Shock absorber installation bolt
5. Coil spring
6. Silencer sheet



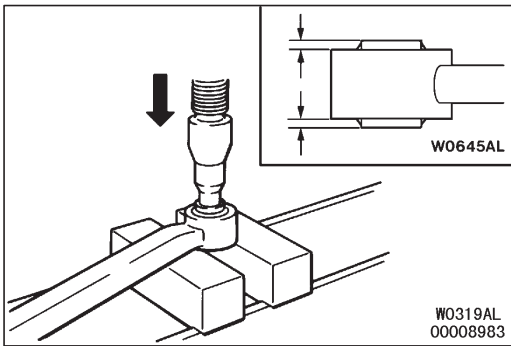
7. Bump stopper
8. Lower spring pad

**Upper arm removal steps**

5. Coil spring
9. Rear wheel speed sensor installation bolt <Vehicles with ABS>
10. Upper arm

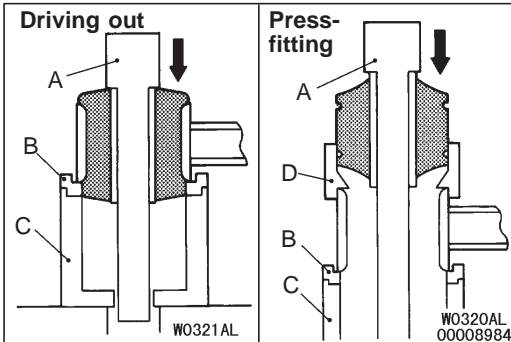
**INSTALLATION SERVICE POINT****▶A◀ COIL SPRING INSTALLATION**

Install the coil spring so that its end with identification colour faces upward.



**LATERAL ROD BUSHING REPLACEMENT**

1. Use a press to press in and out the bushing.
2. Apply ample amount of soapy water to the outer surface of the bushing and inner surface of the lateral rod pipe, and then press-fit the bushing so that both ends protrude evenly.



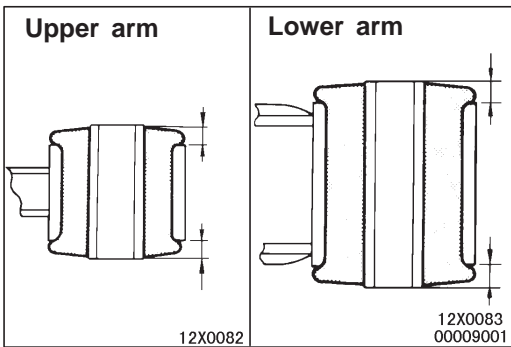
**UPPER ARM BUSHING/LOWER ARM BUSHING REPLACEMENT**

**UPPER ARM REAR BUSHING, LOWER ARM REAR BUSHING**

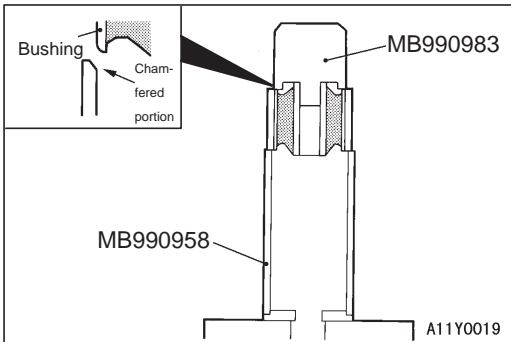
1. Use the special tools and a press to press in and out the bushing.

**SPECIAL TOOL**

Item	Upper arm rear bushing	Lower arm rear bushing
A	MB990947	MB990947
B	MB990832	MB990831
C	MB990847	MB990847
D	MB991154	MB991155



2. Apply ample amount of soapy water to the outer surface of bushing and inner surface of arm pipe, and then press-fit the bushing so that both ends protrude evenly.

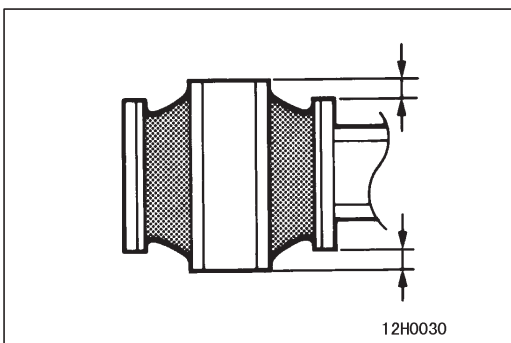


**UPPER ARM FRONT BUSHING, LOWER ARM FRONT BUSHING**

1. Use a press and the special tools to press in and out the bushing.

**NOTE**

Press in the bushing from the chamfered side of the arm pipe.



2. Install the bushing so that both ends protrude evenly.

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## NOTES

## GROUP 34

# REAR SUSPENSION

### GENERAL

#### OUTLINE OF CHANGE

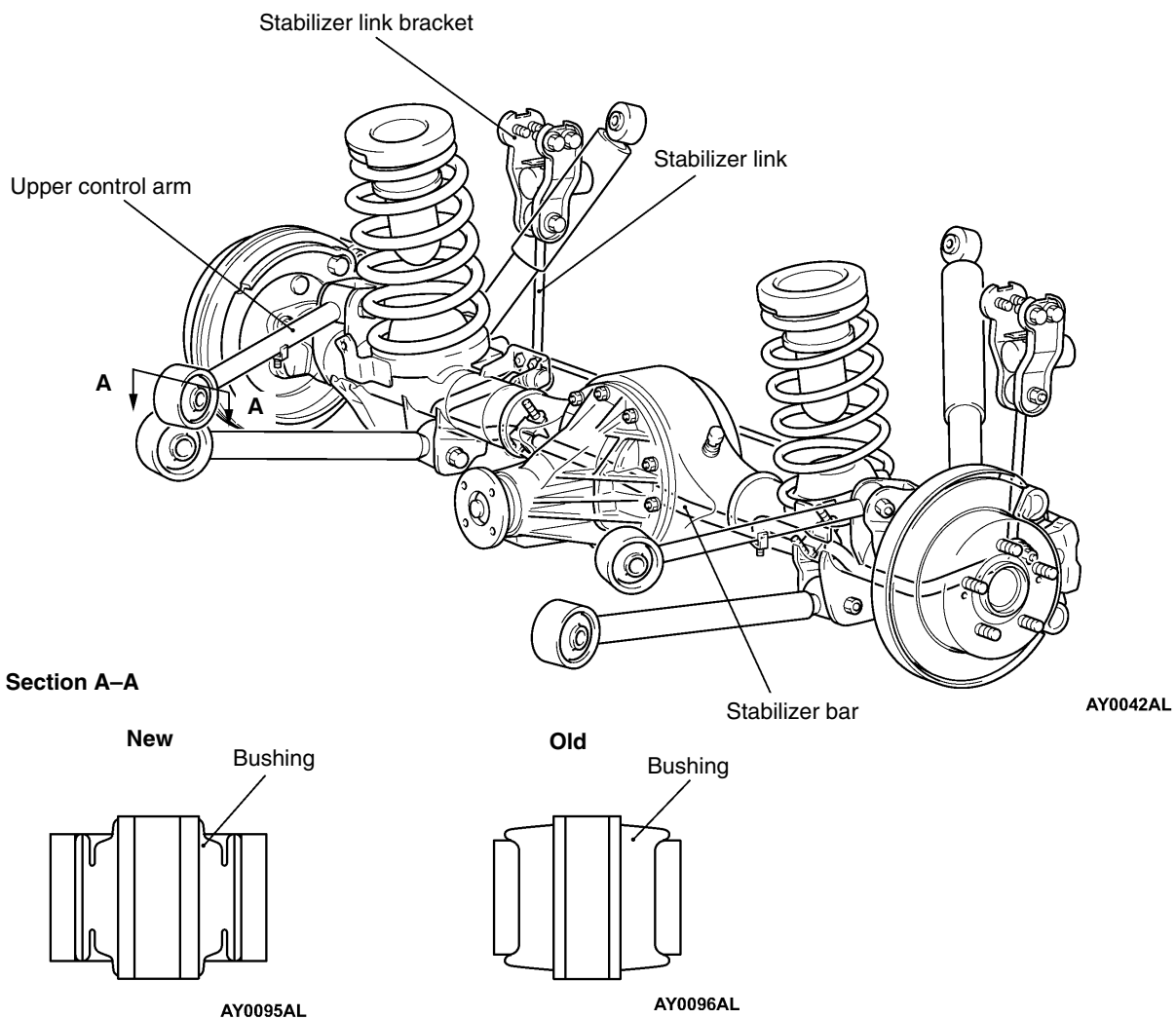
- The coil spring specification has been added. <5-door models>
- The service procedures have been added due to the introduction of the rear stabilizer. <5-door models>
- The bushing of the upper control arm has been reshaped.

### GENERAL INFORMATION

#### COIL SPRING<5-door models>

Items	Specification
Wire diameter × average diameter × free length mm	11 × 131 × 305

#### CONSTRUCTION DIAGRAM

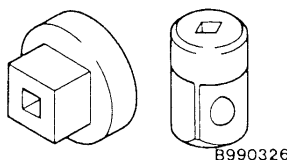




## SERVICE SPECIFICATION

Items	Standard value
Stabilizer link ball joint turning torque Nm	1.7 – 3.1

## SPECIAL TOOL

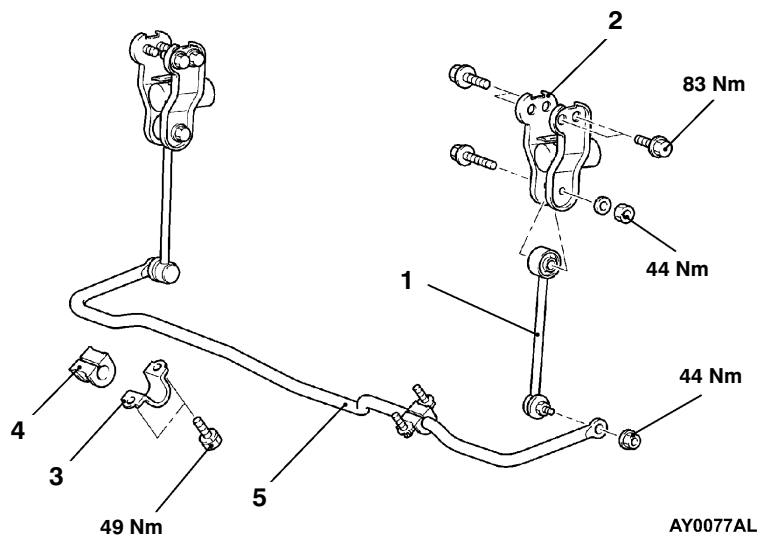
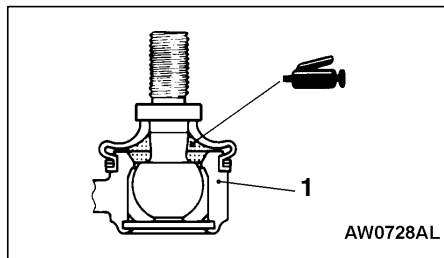
Tool	Number	Name	Use
	MB990326	Preload socket	Stabilizer link ball joint turning torque measurement

## STABILIZER BAR

### REMOVAL AND INSTALLATION

#### Post-installation Operations

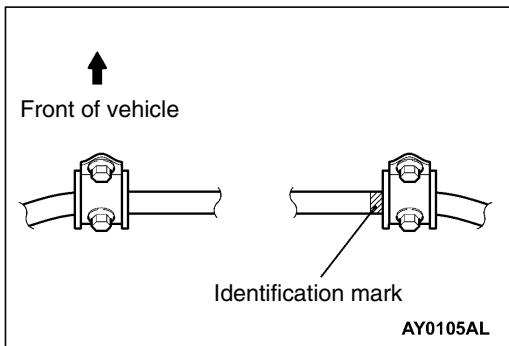
Press the dust cover with your finger to check that there are no cracks or damage in the dust cover.



#### Removal steps

1. Stabilizer link assembly
2. Stabilizer link bracket
3. Stabilizer bracket
4. Bushing
5. Stabilizer bar

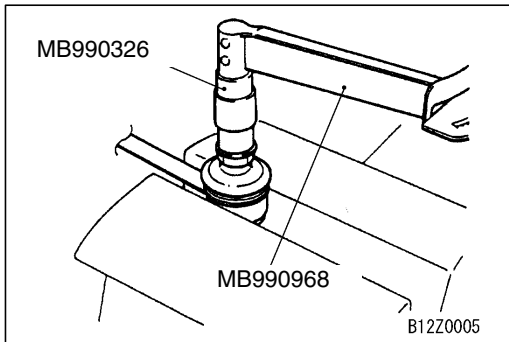




### INSTALLATION SERVICE POINT

#### ▶◀ STABILIZER BAR/BUSHING/STABILIZER BRACKET INSTALLATION

Align the identification mark of stabilizer bar with the left end of the bushing, before tightening the mounting bolts.



### INSPECTION

#### STABILIZER LINK BALL JOINT TURNING TORQUE CHECK

1. After shaking the ball joint stud several times, install the nut to the stud and use the special tools to measure the turning torque of the ball joint.

**Standard value: 1.7 – 3.1 Nm**

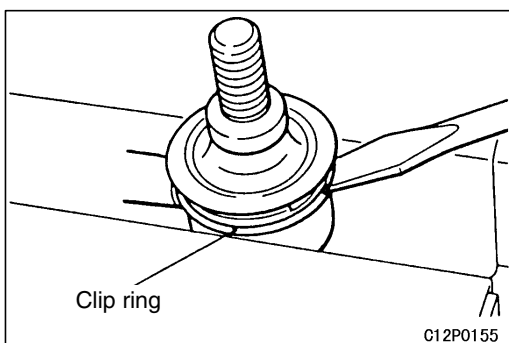
2. When the measured value exceeds the standard value, replace the stabilizer link.
3. When the measured value is lower than the standard value, check that the ball joint turns smoothly without excessive play. If so, it is possible to reuse that ball joint.

#### STABILIZER LINK BALL JOINT DUST COVER CHECK

1. Check the dust cover for cracks or damage by pushing it with finger.
2. If the dust cover is cracked or damaged, replace the stabilizer link.

#### NOTE

Cracks or damage of the dust cover may cause damage of the ball joint. When it is damaged during service work, replace the dust cover.



#### STABILIZER LINK BALL JOINT DUST COVER REPLACEMENT

Only when the dust cover is damaged accidentally during service work, replace the dust cover as follows:

1. Remove the clip ring and the dust cover.
2. Apply multipurpose grease to the inside of the dust cover.
3. Wrap plastic tape around the stabilizer link stud, and then install the dust cover to the stabilizer link.
4. Secure the dust cover by the clip ring.
5. Check the dust cover for cracks or damage by pushing it with finger.