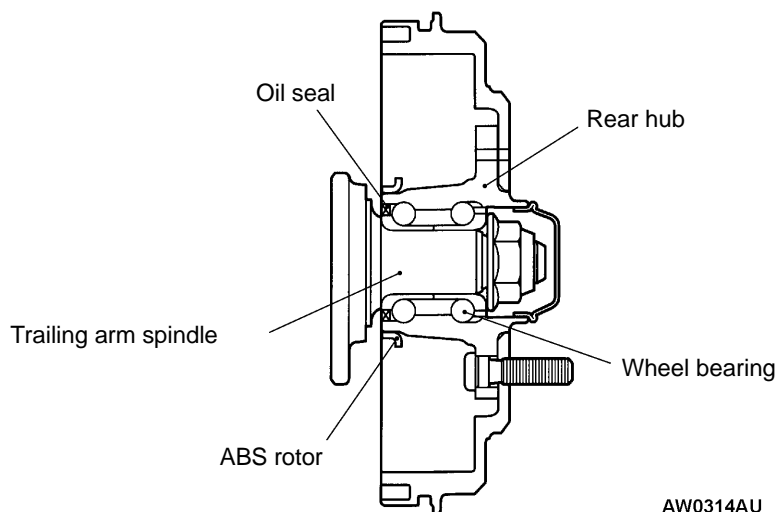


## GENERAL INFORMATION

The rear axle has the following features.

- The wheel bearing is a unit bearing (double-row angular contact ball bearing).
- ABS rotors for detecting the wheel speeds are press-fitted to the rear hub in vehicles with ABS.

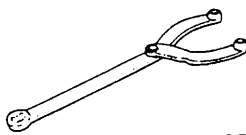
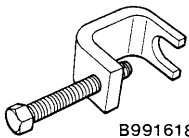
## STRUCTURAL DIAGRAM

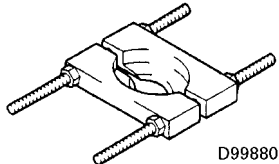
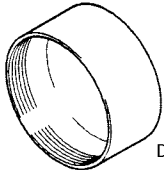
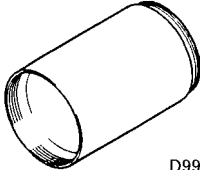
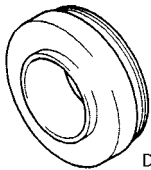


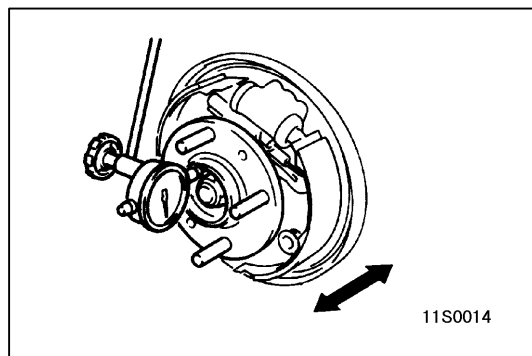
## SERVICE SPECIFICATIONS

Items	Limit
Wheel bearing axial play mm	0.05
Wheel bearing rotary-sliding resistance N	22 or less

## SPECIAL TOOLS

Tool	Number	Name	Use
 B990767	MB990767	End yoke holder	Hub fixing
 B991618	MB991618	Hub bolt remover	Removal of the hub bolt

Tool	Number	Name	Use
 D998801	MD998801	Remover	Removal of ABS rotor <Vehicles with ABS>
 D998812	MD998812	Installer Cap	
 D998813	MD998813	Installer 100	
 D998815	MD998815	Installer adapter	



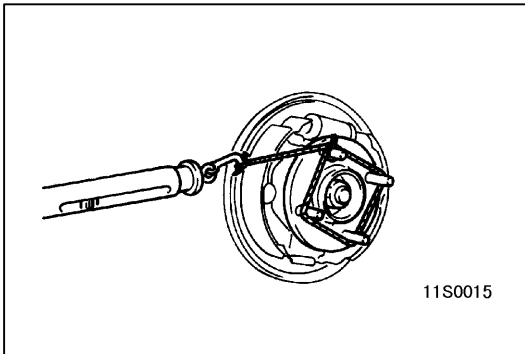
## ON-VEHICLE SERVICE

### WHEEL BEARING AXIAL PLAY CHECK

1. Remove the hub cap and brake drum.
2. Check the bearing's axial play.  
Place a dial gauge against the hub surface; then move the hub in the axial direction and check whether or not there is axial play.

**Limit: 0.05 mm**

3. If the axial play exceeds the limit, the lock nut should be tightened to the specified torque  $175 \pm 25$  N·m and check the axial play again.
4. Replace the rear hub assembly if an adjustment cannot be made to within the limit.

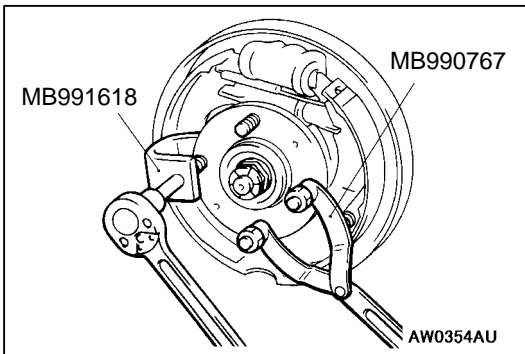


## WHEEL BEARING ROTARY-SLIDING RESISTANCE CHECK

1. Remove the brake drum.
2. After turning the hub a few times to seat the bearing, wind a rope around the hub bolt and turn the hub by pulling at a 90° angle with a spring balance. Measure to determine whether or not the rotary-sliding resistance of the rear hub is at the limit value.

**Limit: 22 N or less**

3. If the limit value is exceeded, loosen the flange nut and then tighten it to the specified torque  $175 \pm 25$  N·m and check the rear hub rotary sliding resistance again.
4. Replace the rear hub assembly if an adjustment cannot be made to within the limit.

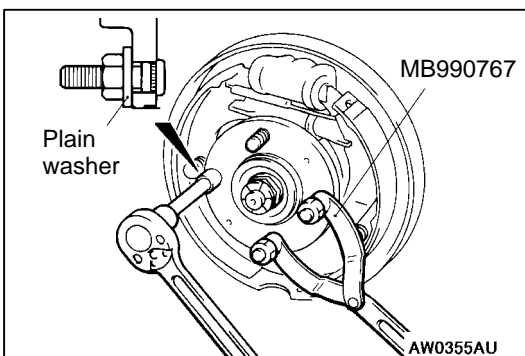


## HUB BOLT REPLACEMENT

1. Remove the brake drum.
2. Use the special tools to remove the hub bolts.

### NOTE

To retain a space for removing the hub bolts, remove near the retainer spring mounting position.



3. Install the plain washer to the new hub bolt, and install the bolt with a nut.

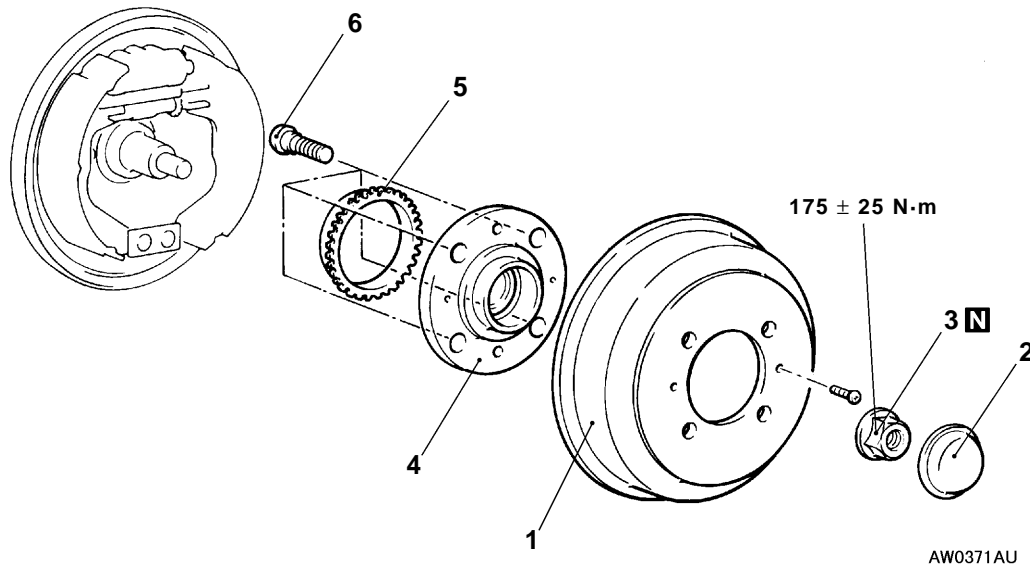
## REAR HUB ASSEMBLY

### REMOVAL AND INSTALLATION

#### Caution

1. For the vehicles with ABS, care must be taken not to scratch or damage the teeth of the ABS rotor. The ABS rotor must never be dropped. If the teeth of the ABS rotor are chipped, resulting in a deformation of the ABS rotor, it will not be able to accurately detect the wheel rotation speed, and the system will not function normally.
2. The rear hub assembly should not be dismantled. When removing the rear hub assembly, the wheel bearing inner race may be left at the spindle side.

In this case, always replace the rear hub assembly, otherwise the hub will damage the oil seal, causing oil leaks or excessive play.

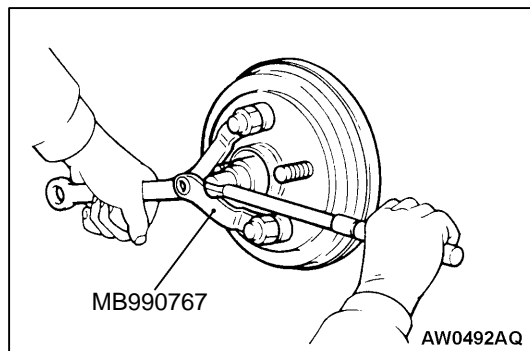


#### Removal steps

1. Brake drum
2. Hub cap
3. Lock nut



4. Rear hub assembly
5. ABS rotor <Vehicles with ABS>
6. Hub bolt



### REMOVAL SERVICE POINTS

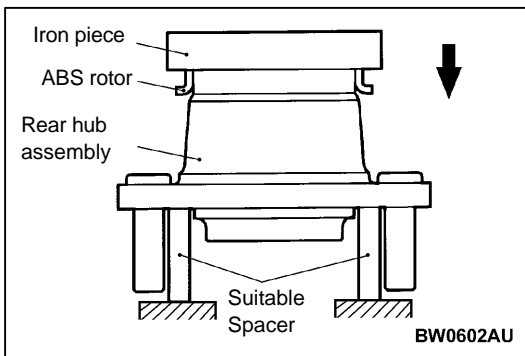
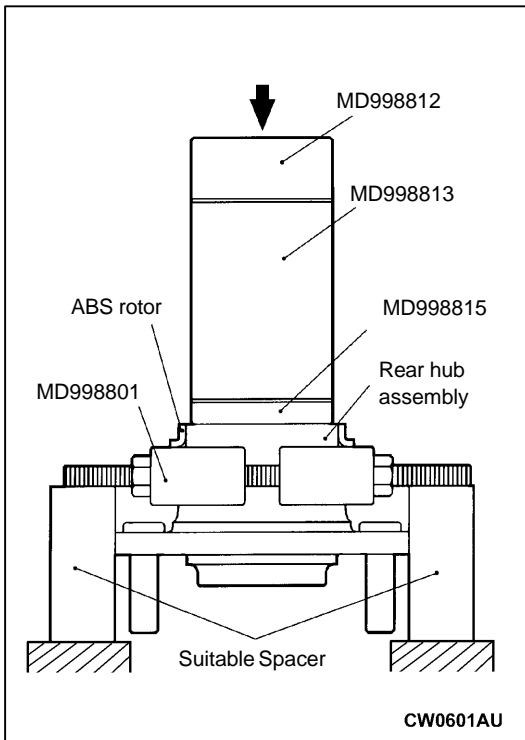
#### ◀A▶ LOCK NUT REMOVAL

#### Caution

Do not apply the vehicle weight to the wheel bearing while loosening the lock nut, or the wheel bearing will be damaged.

## ◀B▶ ABS ROTOR REMOVAL

Use the special tool to press out ABS rotor from the rear hub assembly.



## INSTALLATION SERVICE POINT

### ▶A▶ ABS ROTOR INSTALLATION

Press-fit the ABS rotor to the rear hub assembly.

#### Caution

When installing, take care not to deform the ABS rotor.

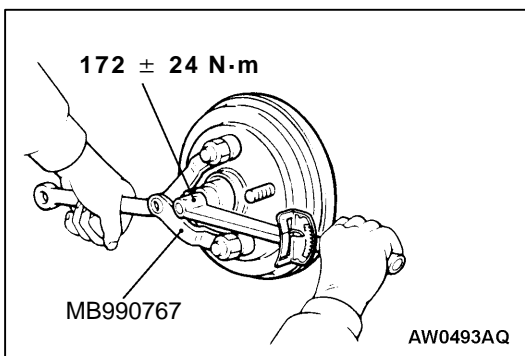
### ▶B▶ LOCK NUT INSTALLATION

1. Using the special tool, tighten the lock nut.

#### Caution

**Before securely tightening the lock nuts, make sure there is no load on the wheel bearings. Otherwise the wheel bearing will be damaged.**

2. After tightening the flange nut, crimp the nut to meet the concave portion of the spindle.



## INSPECTION

- Check the oil seal for crack or damage.
- Check the rear hub unit bearing for wear or damage.
- Check the rear ABS rotor for chipped teeth.