
REAR AXLE

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SPECIFICATIONS

GENERAL SPECIFICATIONS

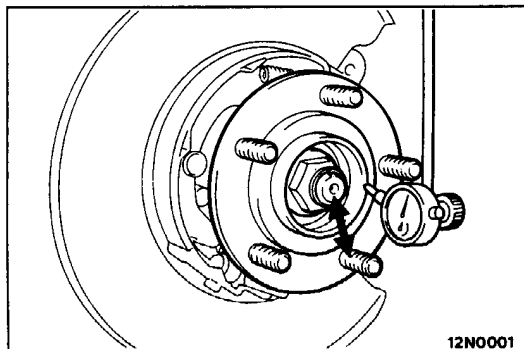
E27CA-

Items	Specifications
Wheel bearing Type	Unit ball bearing

SERVICE SPECIFICATIONS

E27CB-

Items	Specifications
Limit	
Wheel bearing end play	mm (in.) 0.05
Wheel bearing rotary-sliding resistance	N (kg, lbs.) 31 (3.1,7) or less
Wheel bearing rotary-sliding torque	Nm (kgm, ft.lbs.) 1.8 (0.18, 1.30) or less



SERVICE ADJUSTMENT PROCEDURES

WHEEL BEARING END PLAY INSPECTION E27FHAC

1. Inspect the play of the bearings while the vehicles is jacked up and resting on floor jack.
2. Remove the hub cap and then release the parking brake.
3. Remove the caliper assembly and the brake disc.
4. Check the bearing's end play.

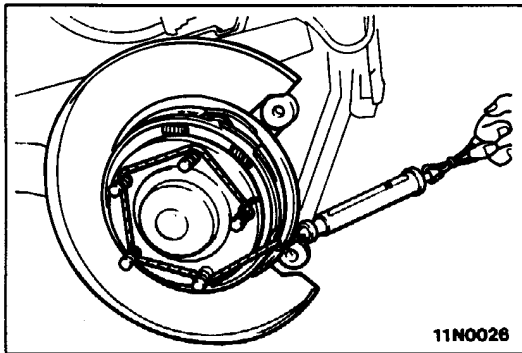
Place a dial gauge against the hub surface; then move the hub in the axial direction and check whether or not there is end play.

Limit: 0.05 mm (0.0020 in.) or less

NOTE

If the limit value is exceeded, the lock nut should be tightened to the specified torque and check the end play again.

5. Replace the rear hub bearing unit if an adjustment cannot be made to within the limit.



REAR HUB ROTARY-SLIDING RESISTANCE (TORQUE) ADJUSTMENT

E27FMAB

1. Inspect the play of the bearings while the vehicles is jacked up and resting on floor jack.
2. Release the parking brake.
3. Remove the caliper assembly and the brake disc.
4. After turning the hub a few times to seat the bearing, attach a spring balance to the hub bolt, and, pulling at a 90° angle from the hub bolt, measure to determine whether or not the rotary-sliding resistance of the rear hub (the rotary-sliding torque of the rear hub) is the standard value.

Limit:

- Rear hub rotary-sliding resistance**
31 N (3.1 kg, 7 lbs.) or less
- Rear hub rotary-sliding torque**
1.8 Nm (0.18 kgm, 1.30 ft.lbs.) or less

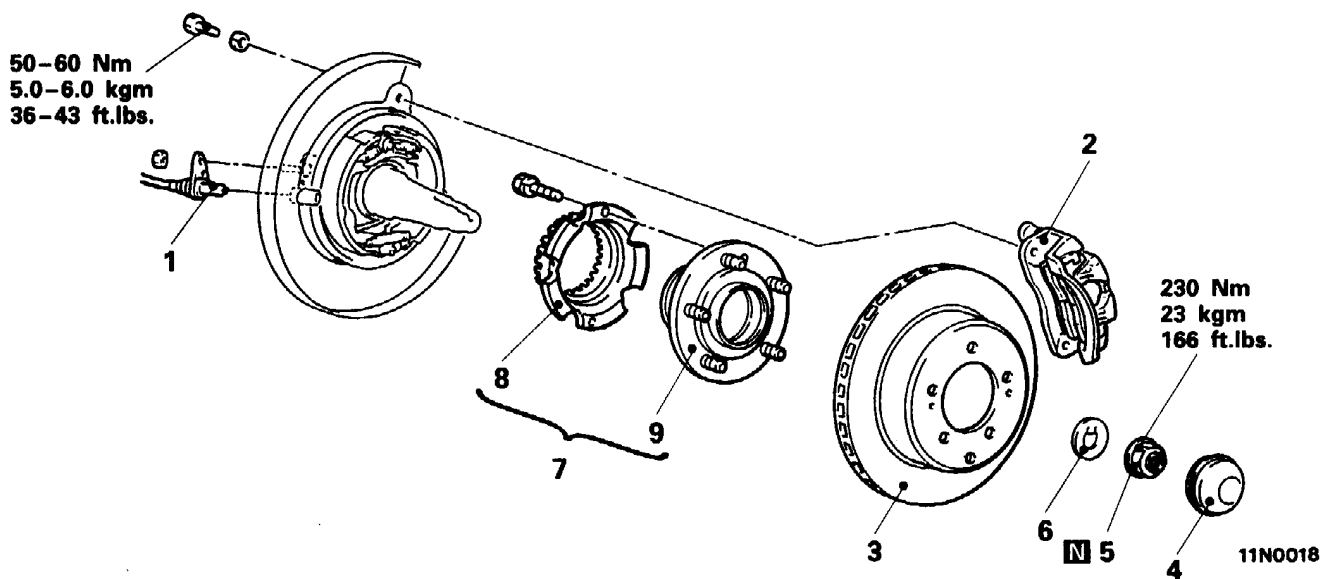
NOTE

If the limit value is exceed, loosen the nut and then tighten it to the specified torque, and ckeck the rear hub rotary-sliding torque again.

5. Replace the rear hub bearing unit if an adjustment cannot be made to within the limit.

**REAR AXLE HUB
REMOVAL AND INSTALLATION**

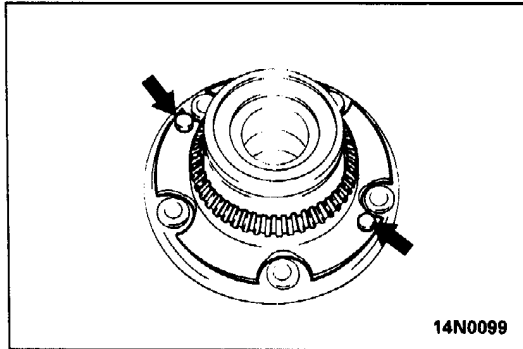
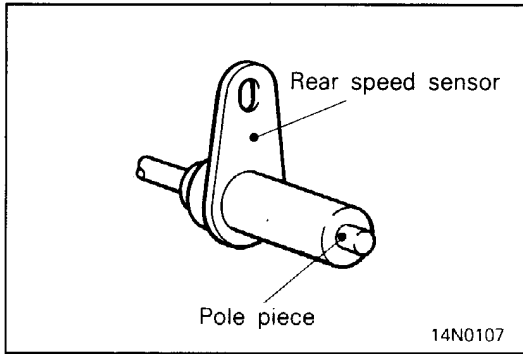
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Removal steps

- ◆◆◆ 1. Rear speed sensor <Vehicles with ABS>
- ◆◆ 2. Caliper assembly
- ◆◆ 3. Brake disc
- ◆◆ 4. Hub cap
- ◆◆ 5. Flange nut
- ◆◆ 6. Tongued washer
- ◆◆ 7. Rear hub assembly
- ◆◆ 8. Rear rotor <Vehicles with ABS>
- ◆◆ 9. Rear hub unit bearing

Caution
The rear hub unit bearing should not be dismantled.



SERVICE POINTS OF REMOVAL

E27GBAB

1. REMOVAL OF REAR SPEED SENSOR

Caution

When removing the speed sensor from the adapter, be careful that the end pole piece does not strike the teeth of the rotor or other parts.

2. REMOVAL OF CALIPER ASSEMBLY

Remove the caliper assembly and suspend it.

8. REMOVAL OF REAR ROTOR

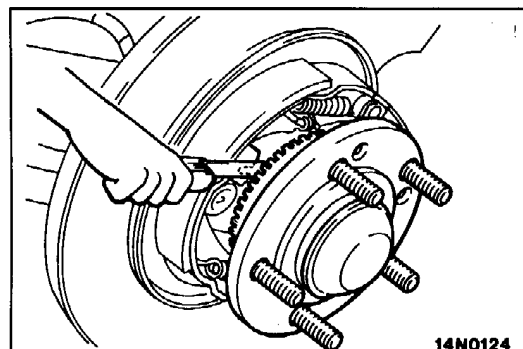
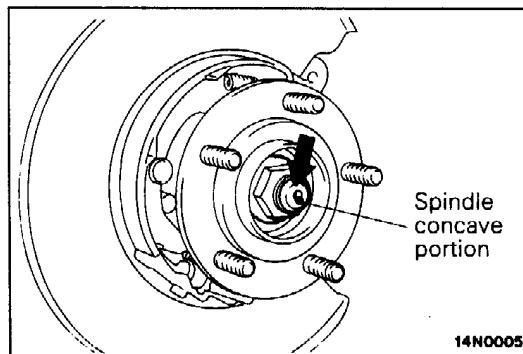
Caution

Care must be taken not to scratch or otherwise damage the teeth of the rotor. The rotor must never be dropped. If the teeth of the rotor are chipped, resulting in a deformation of the rotor, it will not be able to accurately detect the wheel rotation speed, and the system will not function normally.

INSPECTION

E27GCAD

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



SERVICE POINTS OF INSTALLATION

E27GDAH

5. INSTALLATION OF FLANGE NUT

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

1. INSTALLATION OF REAR SPEED SENSOR <VEHICLES WITH ABS>

Insert a thickness gauge into the space between the speed sensor's pole piece and the rotor's toothed surface, and then tighten the speed sensors at the position where the clearance at all places is within the standard value.

Standard value: 0.2–0.7 mm (0.008–0.028 in.)