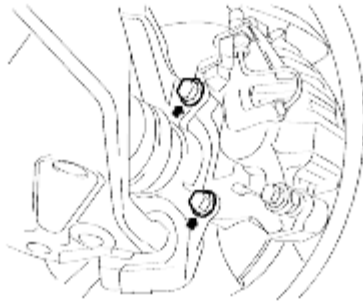
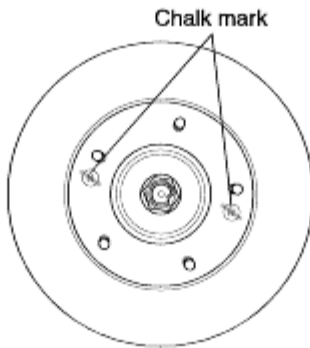


## REMOVAL

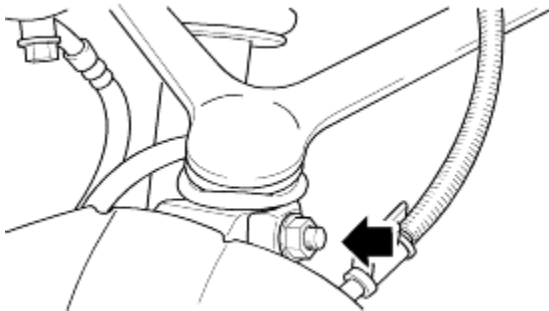
1. Remove the vehicle speed sensor.
2. Remove two bolts and remove brake caliper from brake rotor. Temporarily tie caliper to vehicle frame with wire.



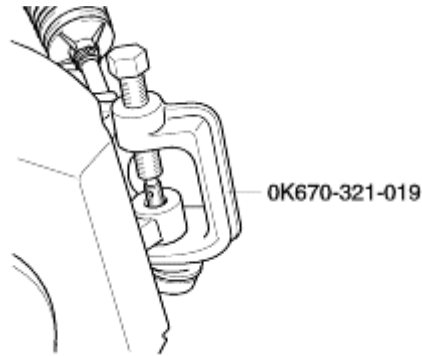
3. Remove two screws and remove brake rotor.
4. Using a lock nut wrench (or equivalent), remove lock nut and plain washer (2WD).



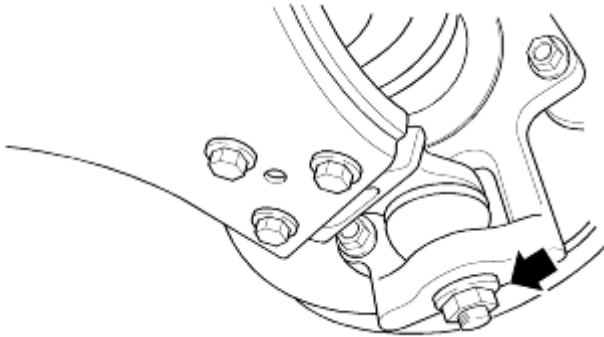
5. Remove the upper arm link lock bolt, spring washer and nut.



6. Remove tie rod end cotter pin and using a ball joint remover, remove tie rod end from steering knuckle.



7.Remove lower arm cotter pin using a ball joint remover, and remove lower arm from steering knuckle.

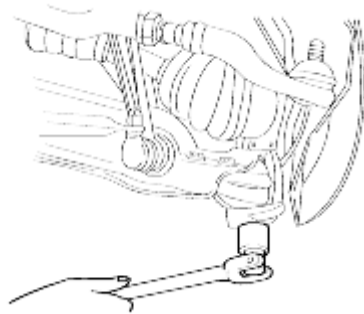


8.Remove steering knuckle from vehicle.

## INSTALLATION

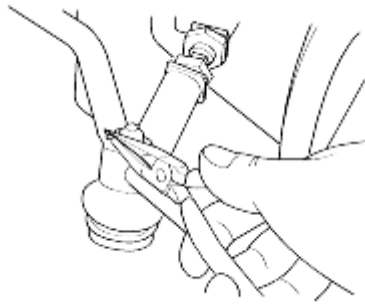
- 1.Put steering knuckle on the drive shaft end with upper and lower ball joints in mounting holes.
- 2.Attach lower arm, tighten lock nut, and install cotter pin.

Tightening torque :  
160-180 N·m (16.0-18.0 kg·m, 116-130 lb·ft)



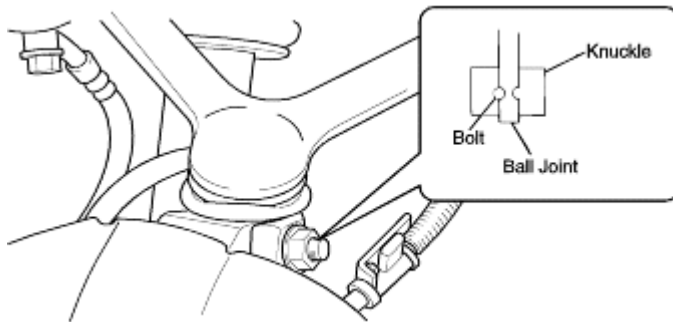
3.Attach tie rod end to knuckle, tighten nut, and install cotter pin.

Tightening torque :  
70-80 N·m (7.0-8.0 kg·m, 51-57 lb·ft)

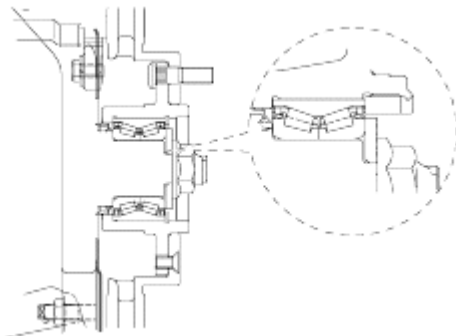


4. Insert upper arm link lock bolt with spring washer and tighten nut.

Tightening torque :  
44-55 N·m (4.4-5.5 kg·m, 32-39 lb·ft)

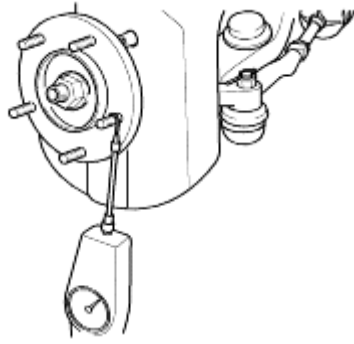


5. Install the chamfer of plain washer toward the bearing (2WD)

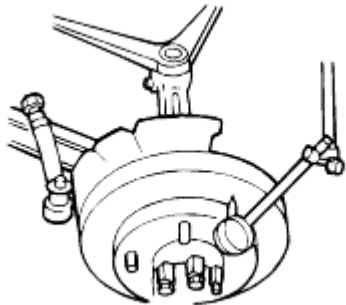


6. Screw lock nut up against wheel hub assembly and using a lock nut wrench, tighten nut to tightening torque to set bearing preload. Use spring scale to measure.

Bearing preload :  
10 lb·in (Max 60 kg·cm)  
Tightening torque :  
245-275 N·m (24.5-27.5 kg·m, 178-198 lb·ft)



7. Caulk the flange of lock nut on the end of drive shaft.
8. Put brake rotor on wheel bearing hub bolts and install the two retaining screws.
9. Mount dial indicator with plunger zeroed against brake rotor at 4.7 in (12 cm) from rotor center.



10. Turn rotor and read dial indicator for run out dimension.

Run out not to exceed 0.0012 inch (0.03 mm)

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11. Install brake caliper and tighten two bolts.

Tightening torque :  
80-104 N·m (8.0-10.4 kg·m, 57-75 lb·ft)

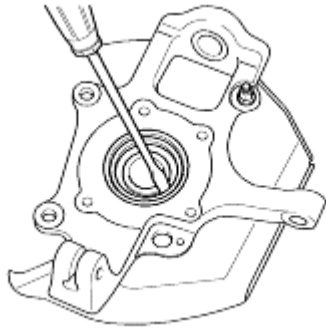
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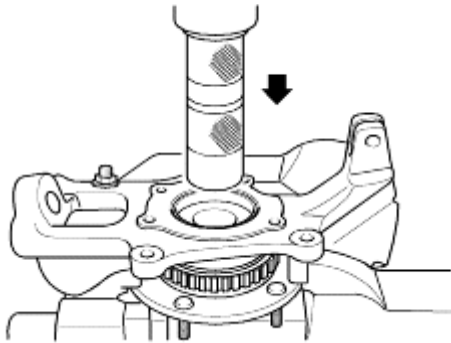
12. Install wheel and tire.

**DISASSEMBLY**

1.Using a screwdriver, pry out oil seal from knuckle (4WD).



2.Press the wheel hub from the knuckle (4WD).  
Press the knuckle and then remove wheel hub (2WD).



## INSPECTION

- 1.Inspect bearing for wear or damage.
- 2.Inspect steering knuckle for wear or damage.

## REASSEMBLY

- 1.Install the dust cover to the knuckle.

Tightening torque :

16-23 N·m (1.6-2.3 kg·m, 12-16 lb·ft)

- 2.Install new oil seal and then install the wheel hub to the knuckle by pressing.
- 3.Apply grease to the wheel bearing and seal lip.