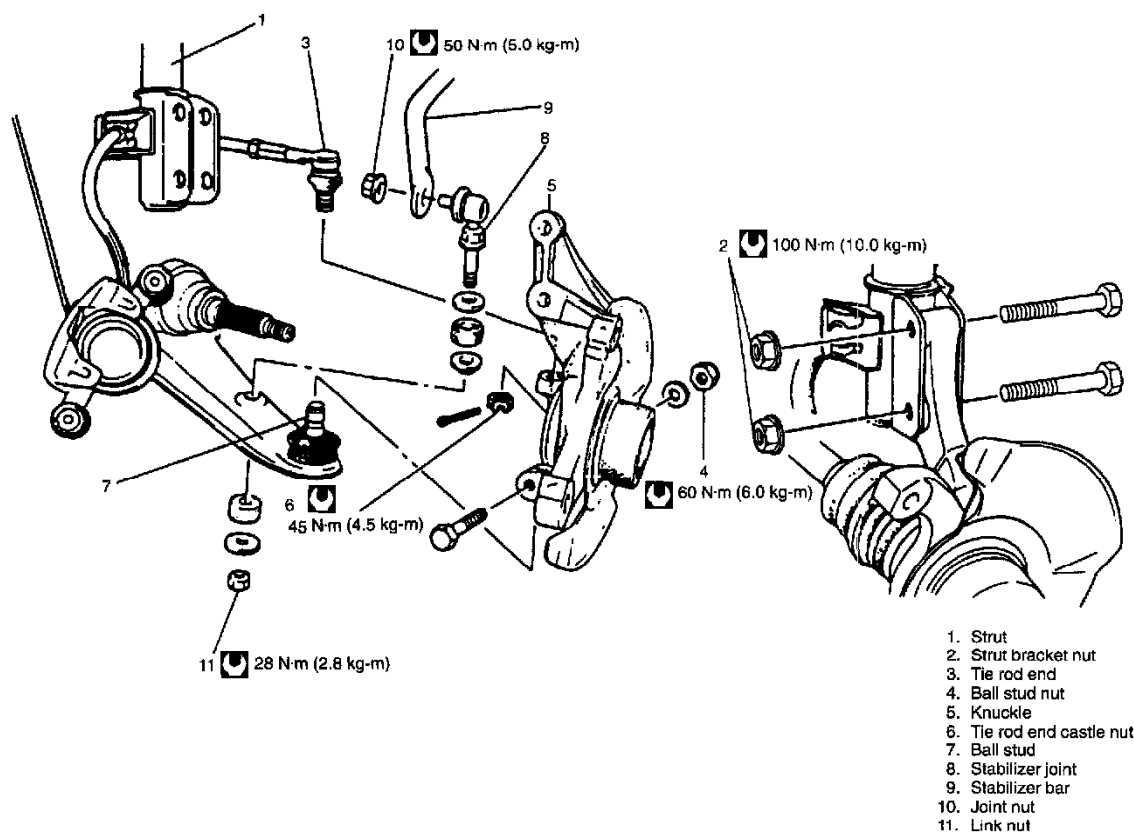
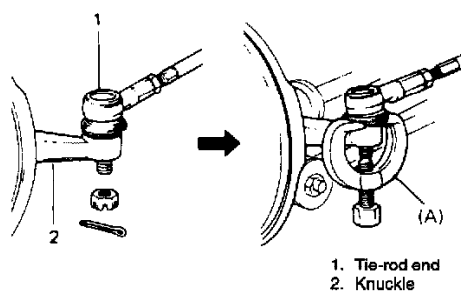


Steering Knuckle: Service and Repair



KNUCKLE/WHEEL BEARING REMOVAL

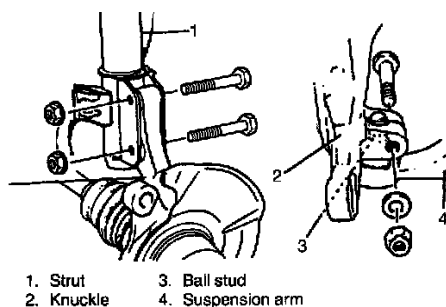
1. Hoist vehicle and remove wheel.
2. Remove wheel hub.



3. Disconnect tie-rod end from knuckle with special tool (A).

Special Tool

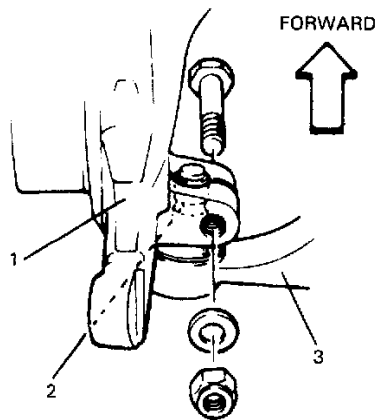
(A): 09913-65210



4. Remove ABS wheel speed sensor from knuckle. (If equipped)
5. Remove strut bracket bolts from strut bracket and then ball stud bolt.

6. Remove knuckle.

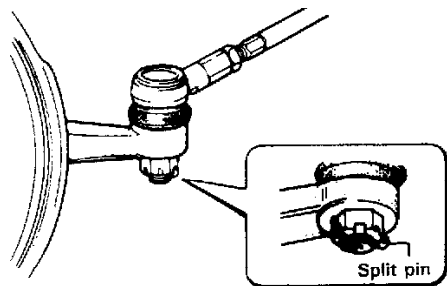
INSTALLATION



- 1. Knuckle
- 2. Ball stud
- 3. Suspension arm

1. Install knuckle to ball stud on suspension arm and strut bracket. Installing direction of each bolt is as shown. Align knuckle bolt hole with ball stud groove as shown and install ball stud bolt. Tighten each nut to specified torque. (Refer to the exploded view.)
2. Install ABS wheel speed sensor to knuckle, if equipped. Tighten sensor bolt to specified torque referring to the exploded view.

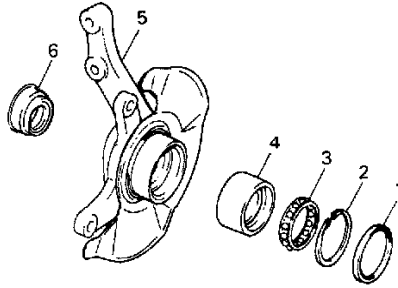
NOTE: Check to make sure that ABS wheel speed sensor tooth is free from any metal particles.



3. Connect tie-rod end to knuckle and tighten tie-rod end castle nut to specified torque. Install new split pin.
4. For installation procedures following the above, refer to Wheel Hub, Service and Repair.

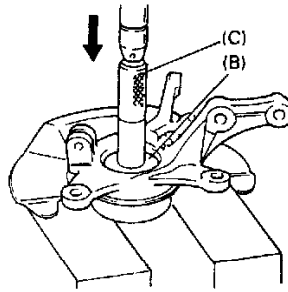
OIL SEALS, SNAP RING AND WHEEL BEARING
REMOVAL

Once bearing outer race is removed, bearing set (outer race, bearings and inner races) should be replaced with new one.



1. Outside oil seal
2. Snap ring
3. Outside bearing
4. Bearing outer race (and inner bearing)
5. Knuckle
6. Inside oil seal

^ Remove outside oil seal, snap ring, outside bearing and inside oil seal in that order.



^ After removing inside oil seal, remove bearing outer race/inner bearing using special tools (B) and (C), and hydraulic press.

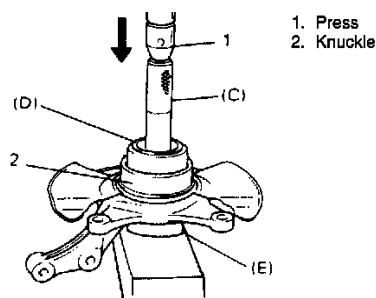
Special Tools

(B): 09944-68510

(C): 09924-74510

INSTALLATION

When replacing bearing, inner race or outer race, be sure to replace them with new ones as a set.



^ Press-fit bearing outer race/inner bearing using special tools (C), (D) and (E).

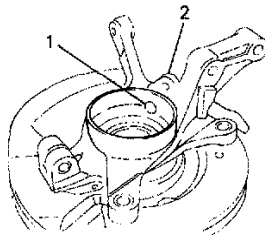
Special Tools

(C): 09924-74510

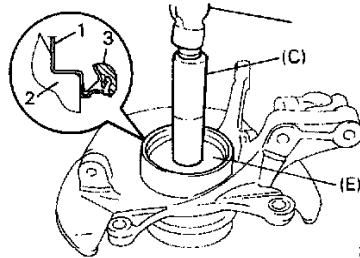
(D): 09951-16090

(E): 09944-66010

^ After greasing (lithic grease) bearing outer race, bearings and oil seal lips, install them.



1. Hole of inside oil seal (Wheel speed sensor installation hole in knuckle)
2. Projection on knuckle



1. Inside oil seal
2. Knuckle
3. Grease

Inside Oil Seal

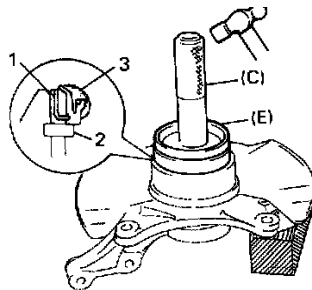
With hold in inside oil seal matched with projection on knuckle (for vehicle without ABS) or wheel speed sensor installation hole in knuckle (for vehicle with ABS), drive in Oil seal until its stepped surface contacts knuckle by using special tools (C) and (E).

NOTE: When driving in oil seal, be careful not to deform or tilt it or not to cause damage to rubber part.

Special Tools

(C): 09924-74510

(E): 09944-66010



1. Outside oil seal
2. Snap ring
3. Grease

Outside Oil Seal

Drive in oil seal until its end contacts with snap ring using special tools (C) and (E). As for its installing direction, refer to figure shown.

Special Tools

(C): 09924-74510

(E): 09944-66010