

# Strut: Service and Repair

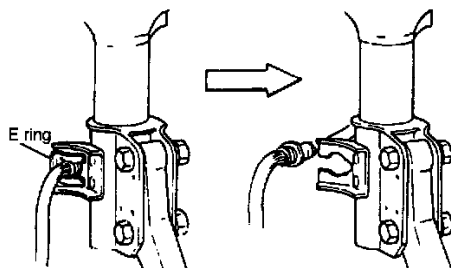
## Front

### STRUT ASSEMBLY

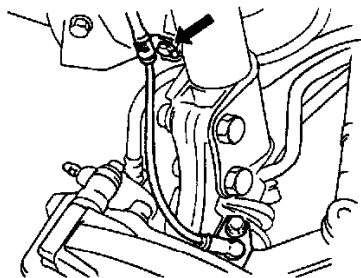
**NOTE:** When disassembling strut assembly, loosen strut nut a little before removing strut assembly from vehicle. This will make disassembly easier. Note, however, nut must not be removed at this point.

#### REMOVAL

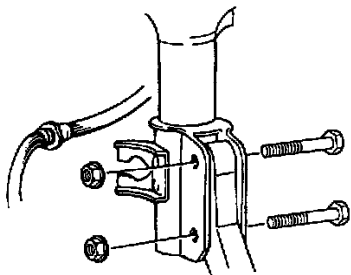
1. Hoist vehicle, allowing front suspension to hang free.
2. Remove wheel.



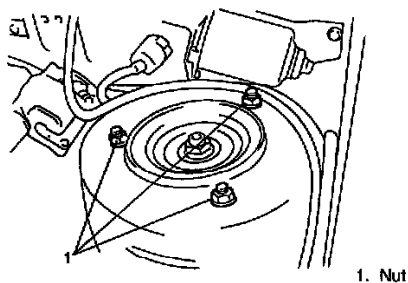
3. Remove E ring securing brake hose and take brake hose off strut bracket as shown.



4. Remove ABS wheel speed sensor harness mounting bolt (If equipped).

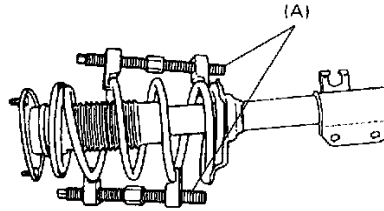


5. Remove strut bracket bolts.

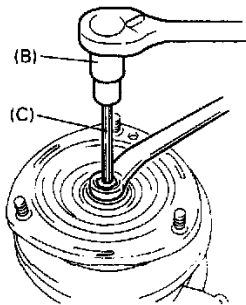


6. Remove strut support nuts. Hold strut by hand so that it will not fall off.
7. Remove strut assembly.

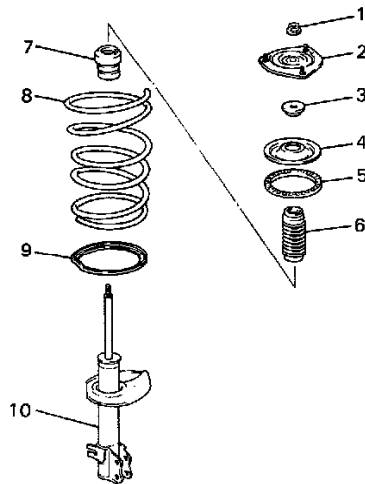
#### DISASSEMBLY



1. With special tool (A) placed to spring as shown, turn special tool bolts alternately until spring tension is released. Whether it is released or not can be known by whether strut turns lightly while strut spring is held stationary.  
Special Tool (A): 09940-71430



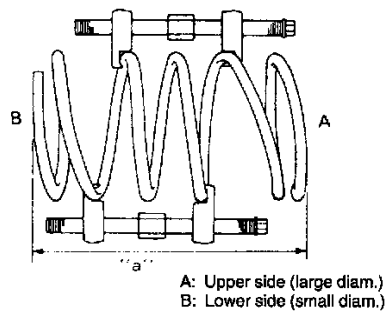
2. While keeping spring compressed with special tool as shown above, remove strut nut.  
Special Tools  
(B): 09900-00411 (Socket)  
(C): 09900-00414 (6 mm)



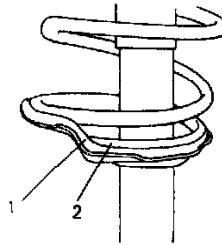
- |                           |                           |
|---------------------------|---------------------------|
| 1. Nut                    | 6. Dust cover             |
| 2. Support                | 7. Bump stopper           |
| 3. Bearing                | 8. Coil spring            |
| 4. Coil spring upper seat | 9. Coil spring lower seat |
| 5. Coil spring seat       | 10. Strut                 |

3. Disassemble parts.

## ASSEMBLY

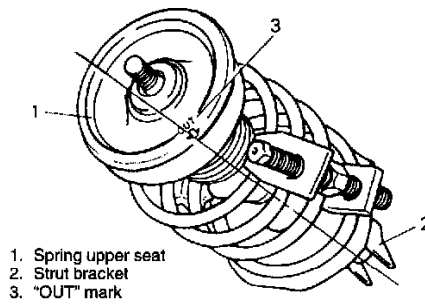


1. Compress spring with special tool (A) until total length becomes about 250 mm (9.8 inch) as shown.  
Length "a": 250 mm (9.8 inch)

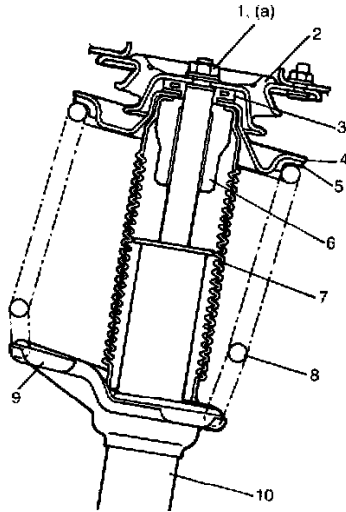


1. Coil spring lower seat
2. Small diam. spring end

2. Install coil spring lower seat and compressing coil spring, and mate spring end with stepped part of lower seat as shown.
3. Install bump stopper and dust cover onto strut rod. For installing direction, refer to above figure in DISASSEMBLY.
4. Pull strut rod as far up as possible and use care not to allow it to retract into strut.



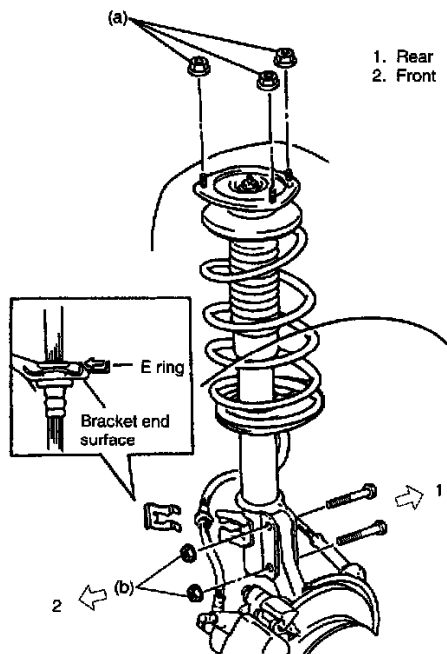
5. Install spring seat on coil spring and then spring upper seat aligning "OUT" mark on spring upper seat and center of strut bracket.



- |                           |                           |
|---------------------------|---------------------------|
| 1. Strut nut              | 6. Bump stopper           |
| 2. Strut support          | 7. Dust cover             |
| 3. Bearing                | 8. Coil spring            |
| 4. Coil spring upper seat | 9. Coil spring lower seat |
| 5. Coil spring seat       | 10. Strut                 |

6. Install bearing strut support and strut nut in this sequence. Tighten strut nut to specified torque and then apply waterproof coating (paint or lacquer) all around nut and strut rod thread.  
Tightening Torque (a): 65 Nm (6.5 kg-m, 47.0 ft. lbs.)
7. Loosen and remove special tool (A) compressing coil spring. While loosening special tool, recheck that stepped part of spring seat and spring end are in place to each other as described in foregoing Step 2.

## INSTALLATION



1. Install strut assembly by reversing REMOVAL Steps 1 - 7. Insert bolts in such a direction as shown.
2. Torque all fasteners to specification.

Tightening Torque

(a): 28 Nm (2.8 kg-m, 20.5 ft. lbs.)

(b): 100 Nm (10.0 kg-m, 72.5 ft. lbs.)

NOTE: Don't twist brake hose when installing it. Install E ring as far as it fits to bracket as shown.

3. Confirm front end (wheel) alignment.