

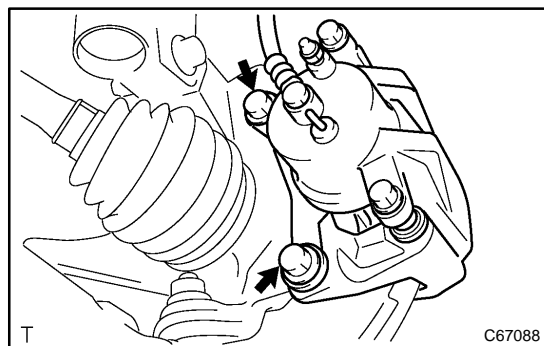
FRONT AXLE HUB SUB-ASSY LH (From July, 2003)

REPLACEMENT

300M4-03

HINT:

- COMPONENTS: SEE PAGE 30-4
 - Use the same procedures for the RH side and LH side.
 - The Procedures listed below are for the LH side.
1. **REMOVE FRONT WHEEL**
 2. **REMOVE FRONT AXLE HUB LH NUT (SEE PAGE 30-8)**
SST 09930-00010
 3. **DISCONNECT SPEED SENSOR FRONT LH (W/ ABS) (SEE PAGE 30-8)**



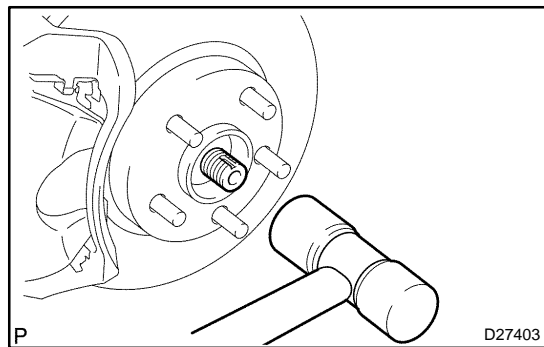
4. SEPARATE FRONT DISC BRAKE CALIPER ASSY LH

- (a) Remove the 2 bolts and separate the front disc brake caliper assy LH from the steering knuckle LH.

NOTICE:

Use a string or other device to keep the brake caliper from hanging down by the flexible hose.

5. **REMOVE FRONT DISC**
6. **SEPARATE TIE ROD ASSY LH (SEE PAGE 30-8)**
SST 09628-62011
7. **SEPARATE FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH (SEE PAGE 30-8)**

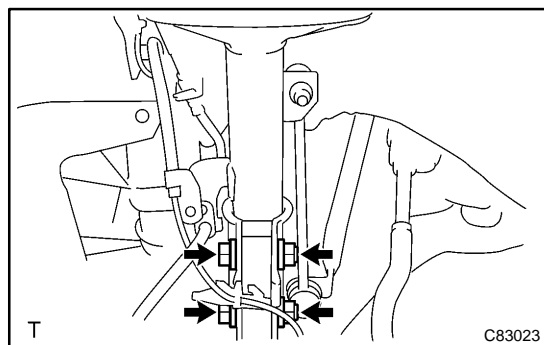


8. REMOVE FRONT AXLE ASSY LH

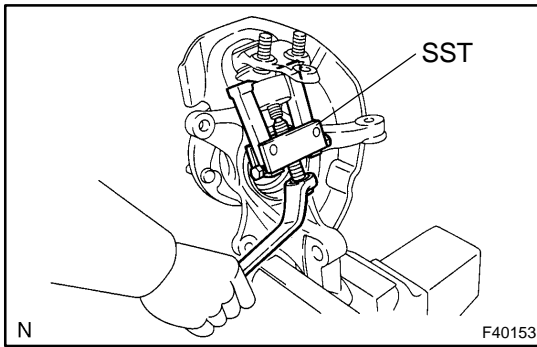
- (a) Using a plastic hammer, separate the front drive shaft assy LH from the front axle hub sub-assy LH.

NOTICE:

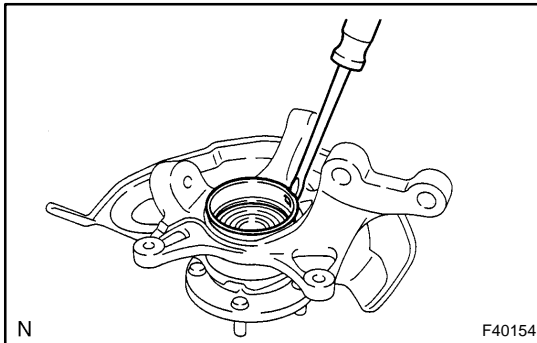
Be careful not to damage the boot and speed sensor rotor. (w/ABS)



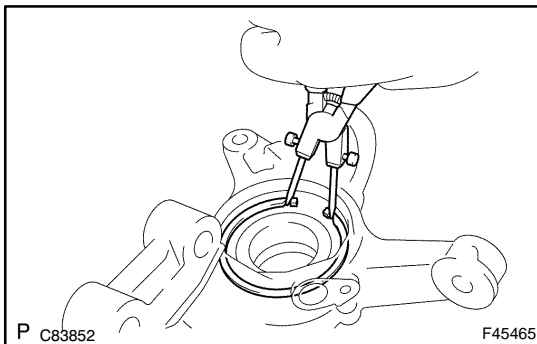
- (b) Remove the 2 bolts, nuts and steering knuckle LH with the front axle hub sub-assy LH.

**9. REMOVE LOWER BALL JOINT ASSY FRONT LH**

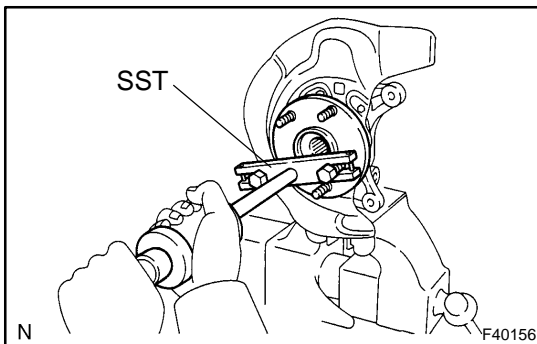
- (a) Remove the cotter pin and nut.
- (b) Using SST, remove the lower ball joint assy front LH.
SST 09628-62011

**10. REMOVE FRONT WHEEL BEARING DUST DEFLECTOR NO.1 LH**

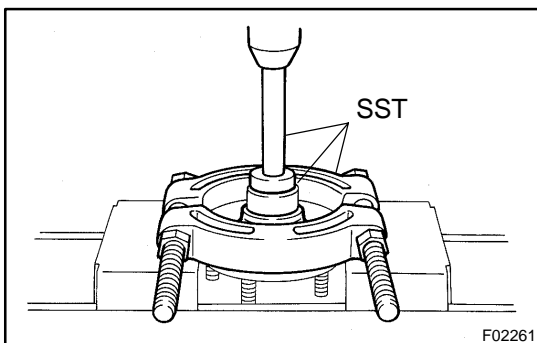
- (a) Using a screwdriver, remove the bearing dust deflector No.1 LH.

**11. REMOVE FRONT AXLE HUB LH HOLE SNAP RING**

- (a) Using snap ring pliers, remove the front axle hub LH hole snap ring.

**12. REMOVE FRONT AXLE HUB SUB-ASSY LH**

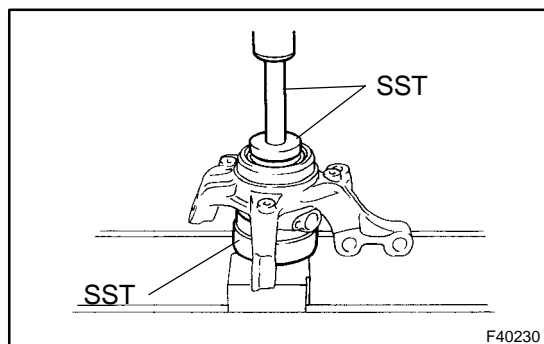
- (a) Using SST, remove the front axle hub sub-assy LH.
SST 09520-00031



- (b) Using SST and a press, remove the bearing inner race (outside) from the front axle hub sub-assy LH.
SST 09950-00020, 09950-60010 (09951-00410),
09950-70010 (09951-07100)

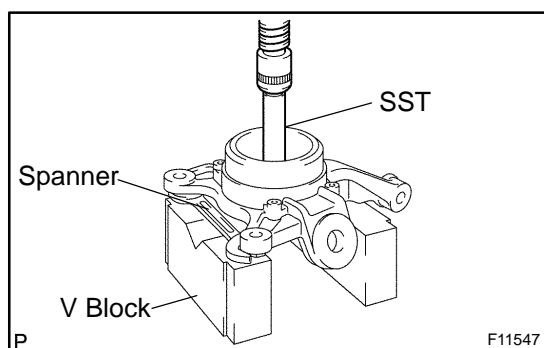
13. REMOVE DISC BRAKE DUST COVER FRONT LH

- (a) Using a torx® wrench (T30), remove the 4 bolts and disc brake dust cover front LH.

**14. REMOVE FRONT AXLE HUB LH BEARING**

- (a) Place the bearing inner race (outside) on the front axle hub LH bearing.
 (b) Using SST and a press, press the front axle hub LH bearing until it contacts the SST.

SST 09527-17011, 09950-60010 (09951-00600),
 09950-70010 (09951-07100)



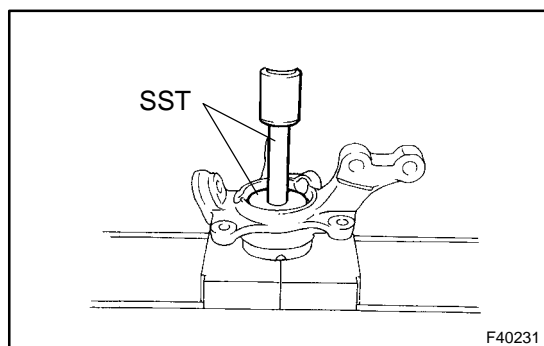
- (c) Using a spanner to make the steering knuckle LH horizontal, fix it to the V block, as shown in the illustration.

NOTICE:

Be sure the steering knuckle is horizontally positioned.

- (d) Using SST and a press, remove the front axle hub LH bearing.

SST 09527-17011, 09950-60010 (09951-00600),
 09950-70010 (09951-07100)

**15. INSTALL FRONT AXLE HUB LH BEARING**

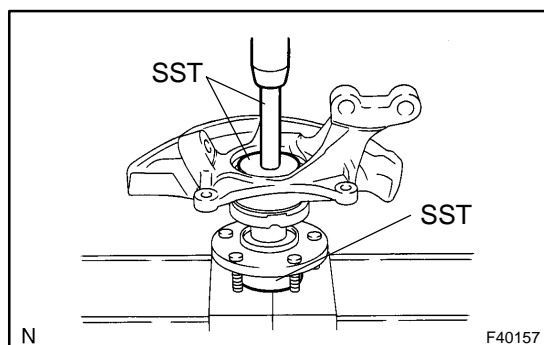
- (a) Using SST and a press, install a new front axle hub LH bearing to the steering knuckle LH.

SST 09950-60020 (09951-00790), 09950-70010
 (09951-07100)

16. INSTALL DISC BRAKE DUST COVER FRONT LH

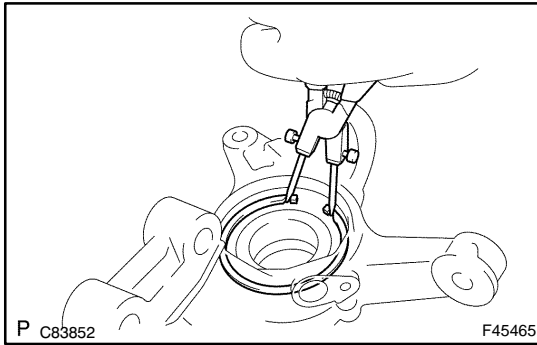
- (a) Place the disc brake dust cover front LH and using a torx® wrench (T30), torque the 4 bolts.

Torque: 8.3 N·m (85 kgf·cm, 73 in·lbf)

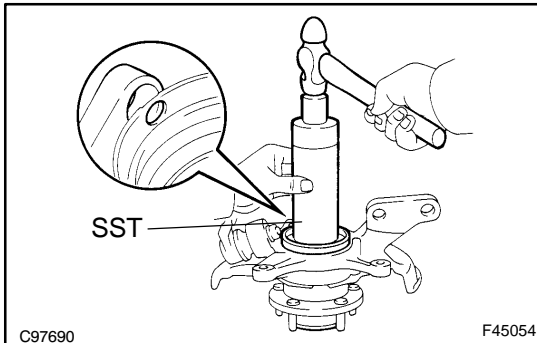
**17. INSTALL FRONT AXLE HUB SUB-ASSY LH**

- (a) Using SST and a press, install the front axle hub sub-assy LH.

SST 09608-32010, 09950-60020 (09951-00790),
 09950-70010 (09951-07100)

**18. INSTALL FRONT AXLE HUB LH HOLE SNAP RING**

- (a) Using snap ring pliers, install a new front axle hub LH hole snap ring.

**19. FRONT WHEEL BEARING DUST DEFLECTOR NO.1 LH**

- (a) Using SST and a hammer, install the bearing dust deflector No.1 LH.

SST 09316-60011 (09316-00011, 09316-00031),
09608-32010

HINT:

Align the hole for the speed sensor in the bearing dust deflector No.1 LH with the steering knuckle.

20. INSTALL LOWER BALL JOINT ASSY FRONT LH

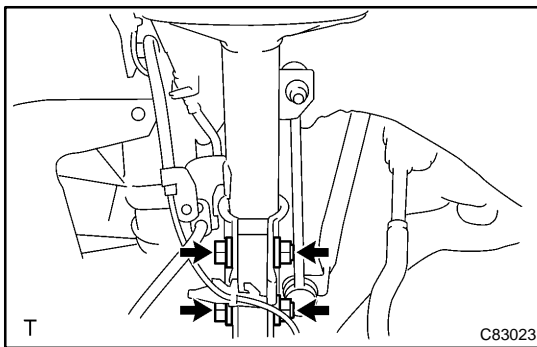
- (a) Install the lower ball joint assy front LH and tighten the nut.

Torque: 123 N·m (1,254 kgf·cm, 91 ft·lbf)

- (b) Install a new cotter pin.

NOTICE:

If the holes for the cotter pin are not aligned, further tighten the nut up to 60°.

**21. INSTALL FRONT AXLE ASSY LH**

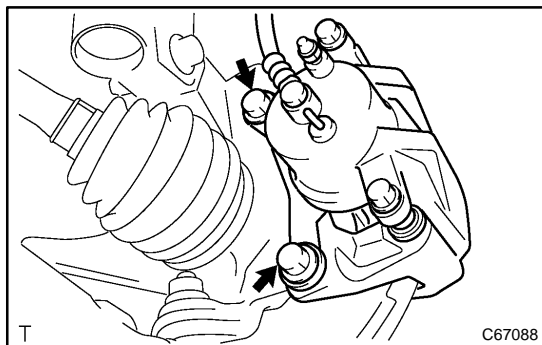
- (a) Install front axle assy LH with the 2 bolts and nuts to the shock absorber assy front LH.

Torque: 210 N·m (2,141 kgf·cm, 155 ft·lbf)

NOTICE:

- Only when reusing the bolts and nuts, apply the small amount of engine oil to the screw part of the nuts.
- Do not excessively push out the front axle assy LH.
- Be careful not to damage the outboard joint boot.
- Be careful not to damage the speed sensor rotor.

22. INSTALL FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH (SEE PAGE 30-8)**23. INSTALL TIE ROD ASSY LH (SEE PAGE 30-8)****24. INSTALL FRONT DISC**

**25. INSTALL FRONT DISC BRAKE CALIPER ASSY LH**

- (a) Install the front disc brake caliper assy LH with the 2 bolts to the steering knuckle LH.

Torque: 107 N·m (1,090 kgf·cm, 79 ft·lbf)

26. INSTALL FRONT AXLE HUB LH NUT

- (a) Using a socket wrench (30 mm), install a new axle hub LH nut.

Torque: 294 N·m (2,998 kgf·cm, 217 ft·lbf)

27. SEPARATE FRONT DISC BRAKE CALIPER ASSY LH

- (a) Remove the 2 bolts and separate the front disc brake caliper assy LH from the steering knuckle LH.

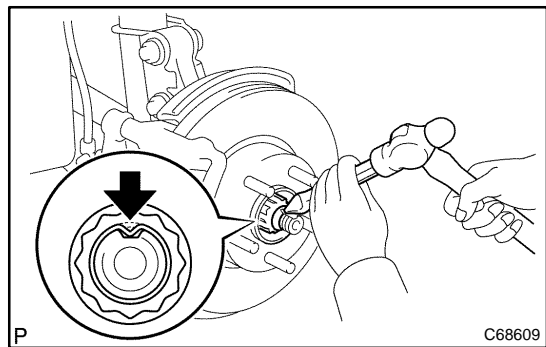
NOTICE:

Use a string or other device to keep the brake caliper from hanging down.

28. REMOVE FRONT DISC**29. INSPECT BEARING BACKLASH (SEE PAGE 30-2)****30. INSPECT AXLE HUB DEVIATION (SEE PAGE 30-2)****31. INSTALL FRONT DISC****32. INSTALL FRONT DISC BRAKE CALIPER ASSY LH**

- (a) Install the front disc brake caliper assy LH with the 2 bolts to the steering knuckle LH.

Torque: 107 N·m (1,090 kgf·cm, 79 ft·lbf)

33. INSTALL SPEED SENSOR FRONT LH (W/ ABS) (SEE PAGE 30-8)**34. INSTALL FRONT AXLE HUB LH NUT**

- (a) Using a socket wrench (30 mm), install a new axle hub LH nut.

Torque: 294 N·m (2,998 kgf·cm, 217 ft·lbf)

- (b) Using a chisel and a hammer, stake the axle hub LH nut.

35. INSTALL FRONT WHEEL**36. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (SEE PAGE 26-5)****37. CHECK ABS SPEED SENSOR SIGNAL (W/ ABS)**

- (a) ABS WITH EBD SYSTEM (BOSCH MADE) (SEE PAGE 05-873)
 (b) ABS WITH EBD SYSTEM (DENSO MADE) (SEE PAGE 05-933)
 (c) ABS WITH EBD & BA & TRAC & VSC SYSTEM (SEE PAGE 05-990)