FRONT AXLE HUB SUB–ASSY LH

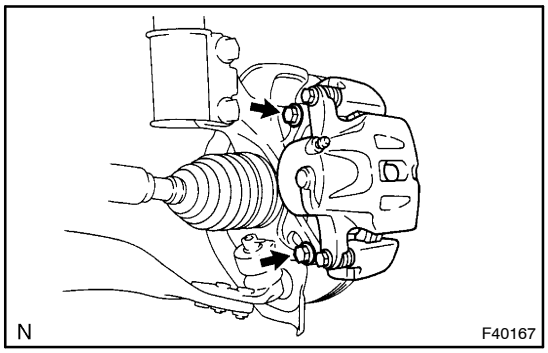
3006O–01

REPLACEMENT

HINT:

- COMPONENTS: See page 30–4
- Replace the RH side by the same procedures with 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**
   (See page 30–8)



4. **DISCONNECT FRONT DISC BRAKE CALIPER ASSY LH**

(a) Remove the 2 bolts, disconnect the front disc brake caliper assy LH from the steering knuckle LH.

5. **REMOVE FRONT DISC**

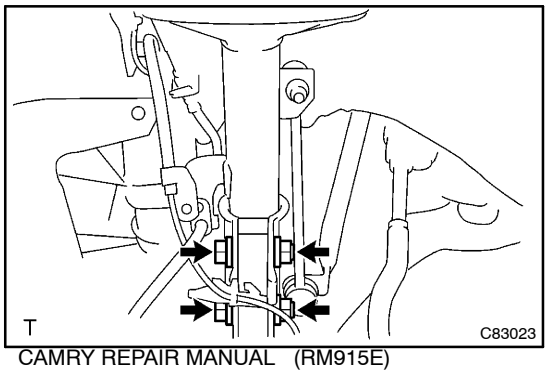
6. **DISCONNECT TIE ROD ASSY LH**
   (See page 30–8)
   SST 09628–62011
7. **DISCONNECT FRONT SUSPENSION ARM SUB–ASSY LOWER NO.1 LH**
   (See page 30–8)

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:

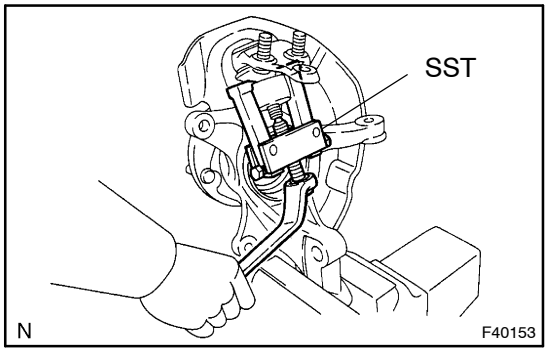
Be careful not to damage the boot and ABS speed sensor rotor.



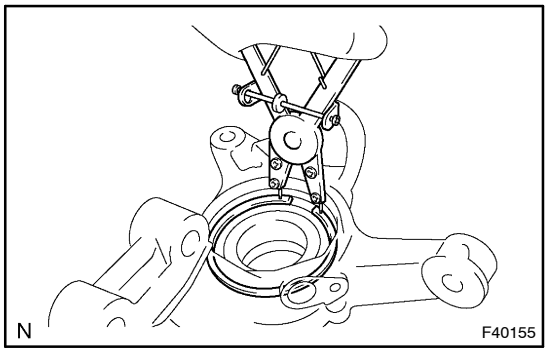
(b) Remove the 2 bolts, nuts and steering knuckle LH with the front axle hub sub–assy LH.

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

(a) Remove the cotter pin and nut.

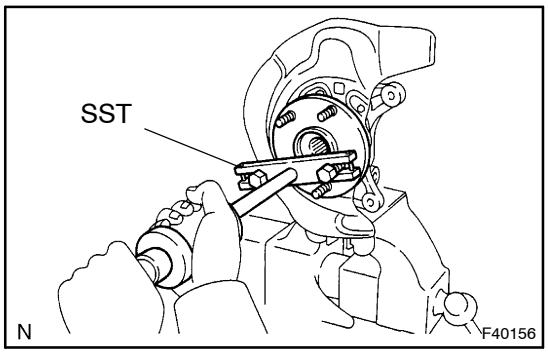


(b) Using SST, remove the lower ball joint assy front LH.
SST 09628–62011



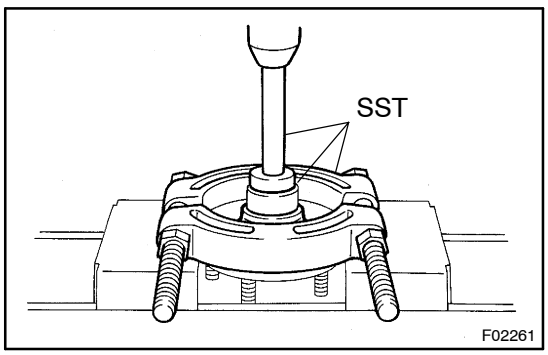
10. REMOVE FRONT AXLE HUB LH HOLE SNAP RING

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



11. REMOVE FRONT AXLE HUB SUB–ASSY LH

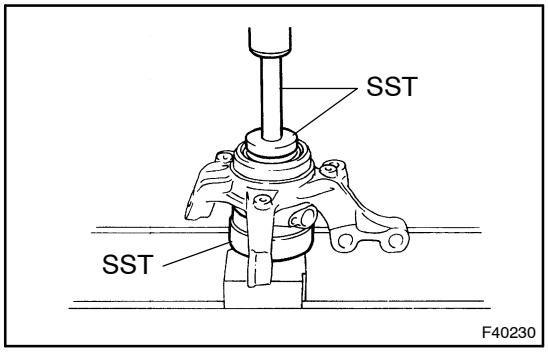
(a) Using SST, remove the front axle hub sub–assy LH.
SST 09520–00031



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

12. REMOVE DISC BRAKE DUST COVER FRONT LH

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

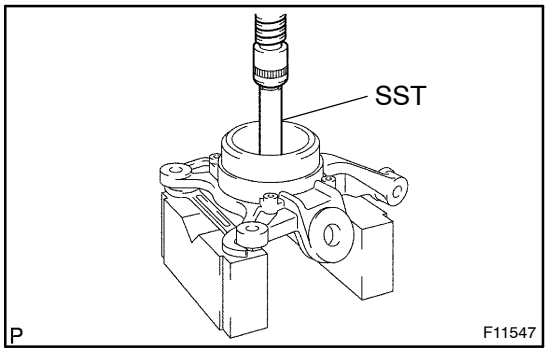


13. REMOVE FRONT AXLE HUB LH BEARING

(a) Place the 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 with the SST.

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



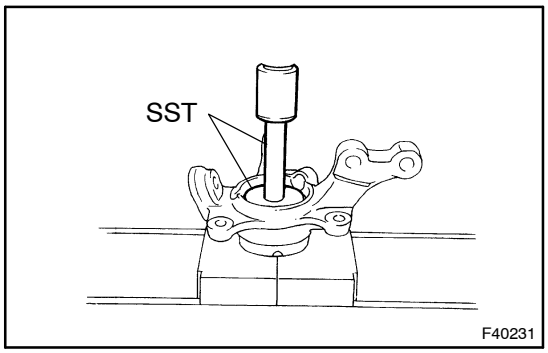
(c) Using a spanner to make the steering knuckle LH horizontal, fix it to the V block as shown in the illustration.

NOTICE:

Be sure the steering knuckle is horizontally positioned.

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

SST 09950–60010 (09951–00600), 09950–70010 (09951–07100)



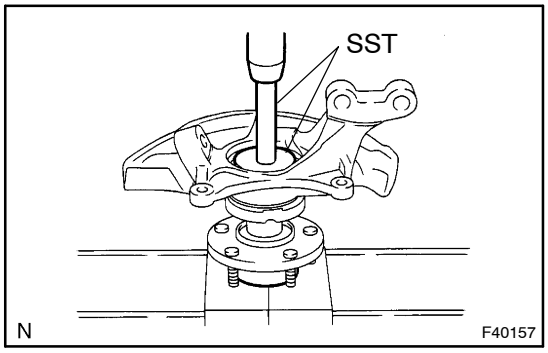
14. INSTALL FRONT AXLE HUB LH BEARING

(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)

15. INSTALL DISC BRAKE DUST COVER FRONT LH

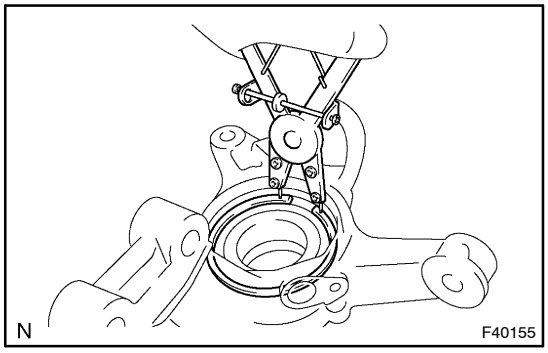
(a) Place the disc brake dust cover front LH and using a torx wrench (T30), torque the 4 bolts.



16. 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)



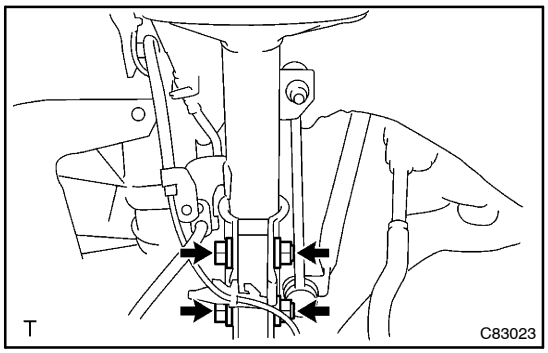
17. INSTALL FRONT AXLE HUB LH HOLE SNAP RING

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

18. 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, 90 ft·lbf)
(b) Install a new cotter pin.

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



19. INSTALL FRONT AXLE ASSY LH

(a) Install the 2 bolts, nuts and front axle assy LH to the shock absorber assy front LH.
Torque: 210 N·m (2,141 kgf·cm, 155 ft·lbf)

HINT:
Insert the bolt from the front side of the vehicle and tighten the nut.

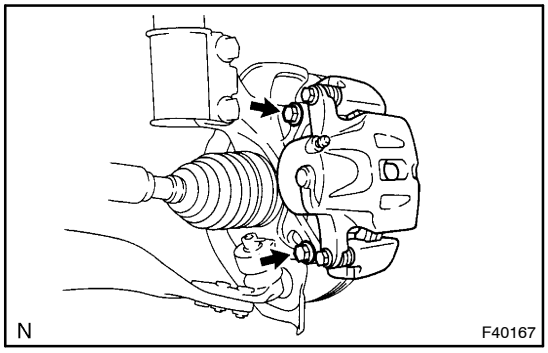
(b) Push the front axle assy LH toward the outside of the vehicle, fit the splined part of the front drive shaft assy LH to that of the front axle assy LH and insert the front drive shaft assy LH into the front axle assy LH.

NOTICE:
- **Do not push out the front axle assy LH excessively.**
- **Be careful not to damage the outboard joint boot.**
- **Be careful not to damage the speed sensor rotor.**

20. INSTALL FRONT SUSPENSION ARM SUB–ASSY LOWER NO.1 LH
(See page 30–8)

21. INSTALL TIE ROD ASSY LH
(See page 30–8)

22. INSTALL FRONT DISC



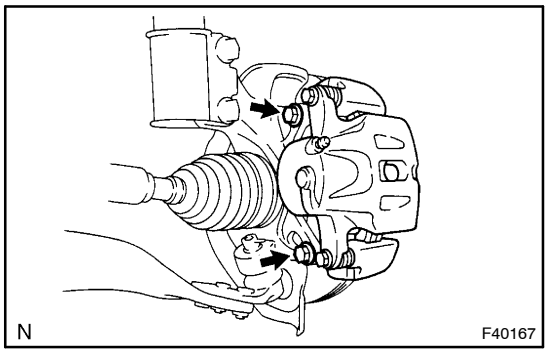
23. INSTALL FRONT DISC BRAKE CALIPER ASSY LH

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

Torque: 106.9 N·m (1,090 kgf·cm, 79 ft·lbf)

24. INSTALL FRONT AXLE HUB LH NUT

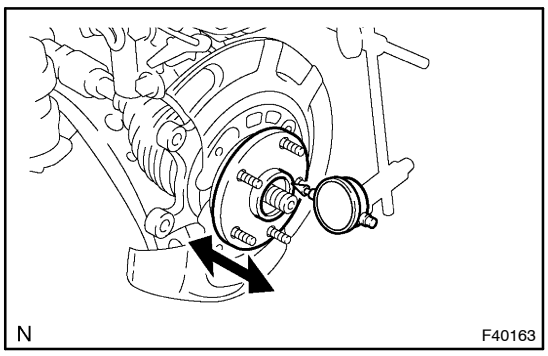
(See page 30–8)



25. DISCONNECT FRONT DISC BRAKE CALIPER ASSY LH

(a) Remove the 2 bolts, disconnect the front disc brake caliper assy LH from the steering knuckle LH.

26. REMOVE FRONT DISC

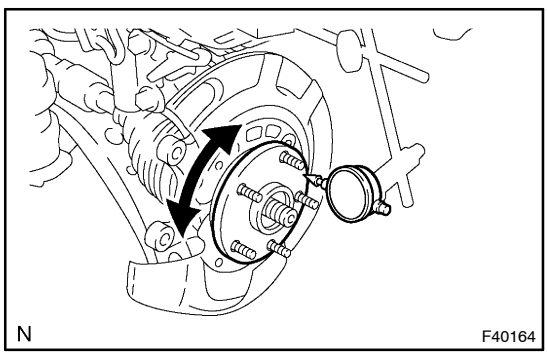


27. INSPECT BEARING BACKLASH

(a) Using a dial indicator, check the backlash near the center of the axle hub.

Maximum: 0.05 mm (0.0020 in.)

If the backlash exceeds the maximum, replace the bearing.



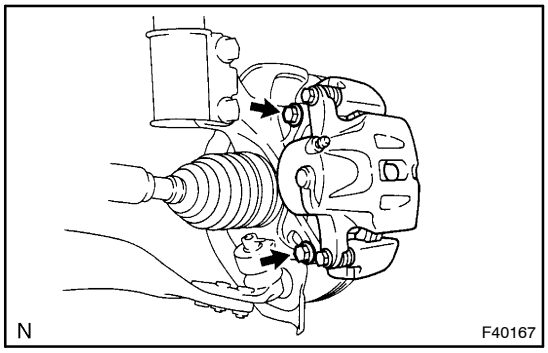
28. INSPECT AXLE HUB DEVIATION

(a) Using a dial indicator, check the deviation at the surface of the axle hub outside the hub bolt.

Maximum: 0.05 mm (0.0020 in.)

If the backlash exceeds the maximum, replace the axle hub.

29. INSTALL FRONT DISC



30. 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: 106.9 N·m (1,090 kgf·cm, 79 ft·lbf)

31. INSTALL SPEED SENSOR FRONT LH
(See page 30–8)

32. INSTALL FRONT WHEEL
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

33. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT(See page 26–4)

34. CHECK ABS SPEED SENSOR SIGNAL
w/ VSC (See page 05–511)
w/o VSC (See page 05–451)