FRONT AXLE HUB SUB–ASSY LH

300P9–01

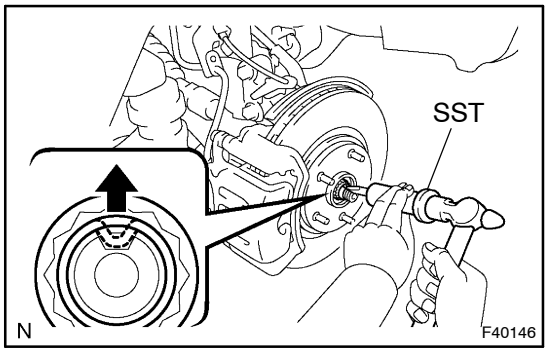
REPLACEMENT

HINT:

COMPONENTS: SEE PAGE 30–4

Replace the RH side by the same procedures as for the LH side.

1. REMOVE FRONT WHEEL

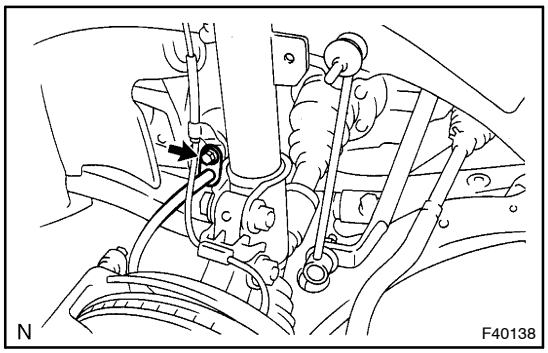


2. REMOVE FRONT AXLE HUB LH NUT

(a) Using SST and a hammer, unstake the staked part of the lock nut.

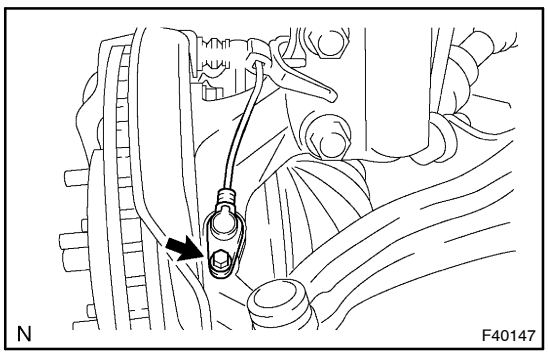
SST 09930–00010

(b) While applying the brakes, remove the lock nut.

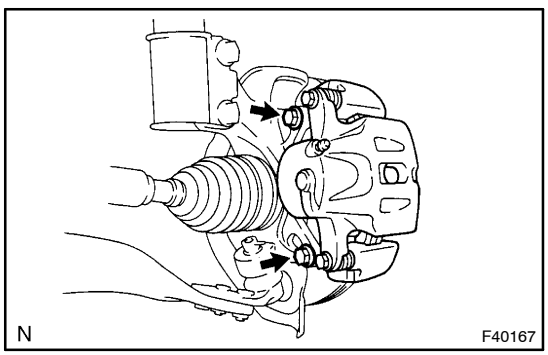


3. SEPARATE SPEED SENSOR FRONT LH

(a) Remove the bolt, separate the sensor wire and flexible hose from the shock absorber.



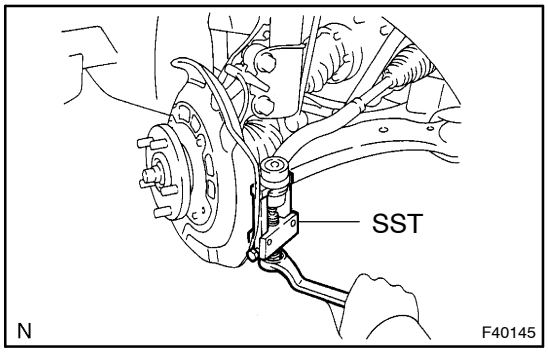
(b) Remove the bolt and separate the speed sensor from the steering knuckle.



4. SEPARATE FRONT DISC BRAKE CALIPER ASSY LH

(a) Remove the 2 bolts, separate the brake caliper.

5. REMOVE FRONT DISC (SEE PAGE 32–26)

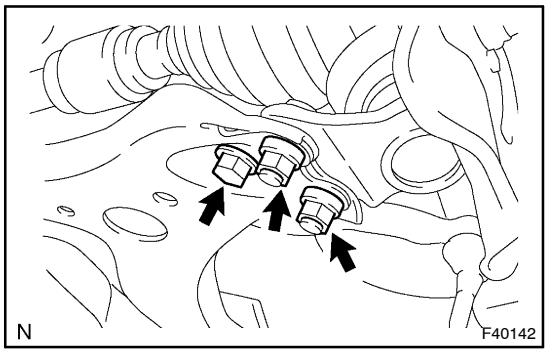


6. SEPARATE TIE ROD END SUB–ASSY LH

(a) Remove the cotter pin and nut.

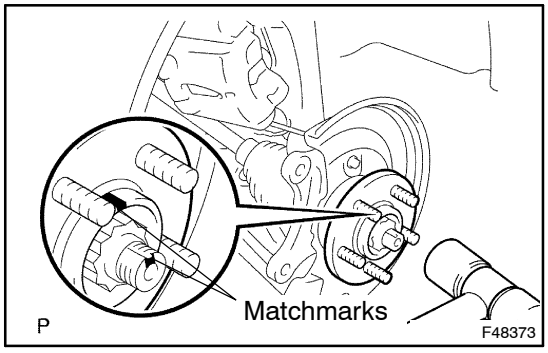
(b) Using SST, separate the tie rod end from the steering knuckle.

SST 09628–62011



7. SEPARATE FRONT SUSPENSION ARM SUB–ASSY LOWER NO.1 LH

(a) Remove the bolt and 2 nuts, and separate the lower suspension arm from the lower ball joint.



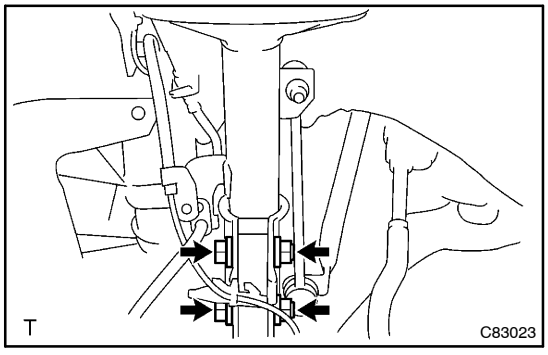
8. REMOVE FRONT AXLE ASSY LH

(a) Put matchmarks on the drive shaft and the axle hub.

(b) Using a plastic hammer, separate the drive shaft from the axle hub.

NOTICE:

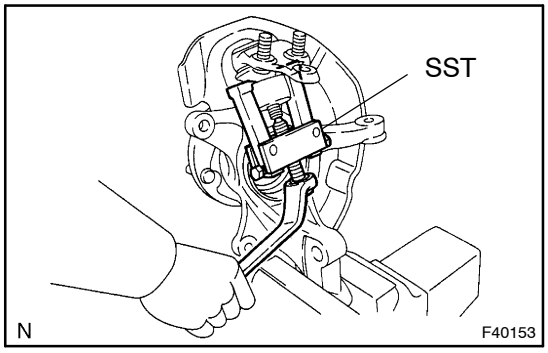
Be careful not to damage the boot and speed sensor rotor.



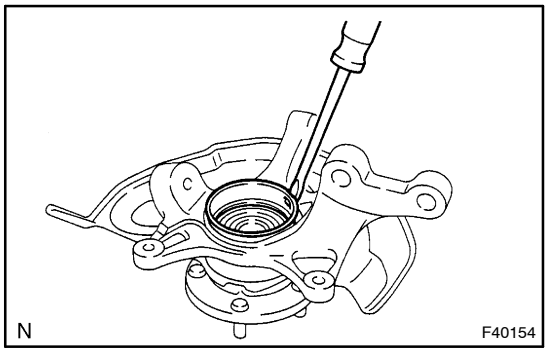
(c) Remove the 2 bolts, nuts and steering knuckle with the axle hub.

9. REMOVE LOWER BALL JOINT ASSY FRONT LH

(a) Remove the cotter pin and nut.

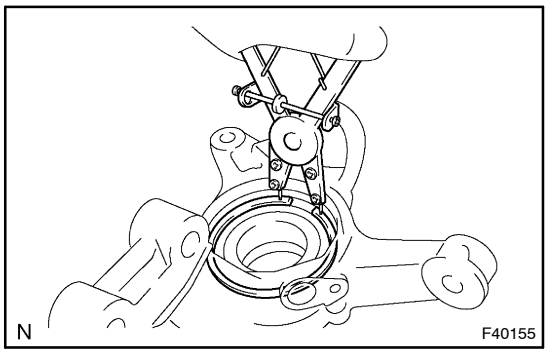


(b) Using SST, remove the ball joint.
SST 09628–62011



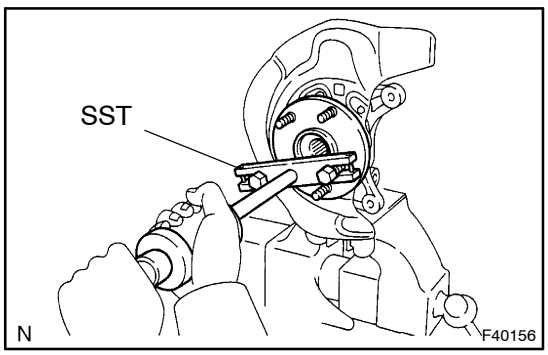
10. REMOVE FRONT WHEEL BEARING DUST DEFLECTOR NO.1 LH

(a) Using a screwdriver, remove the dust deflector.



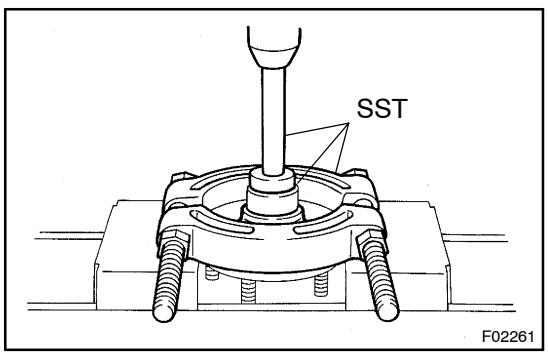
11. REMOVE FRONT AXLE HUB LH HOLE SNAP RING

(a) Using a snap ring pliers, remove the snap ring.



12. REMOVE FRONT AXLE HUB SUB–ASSY LH

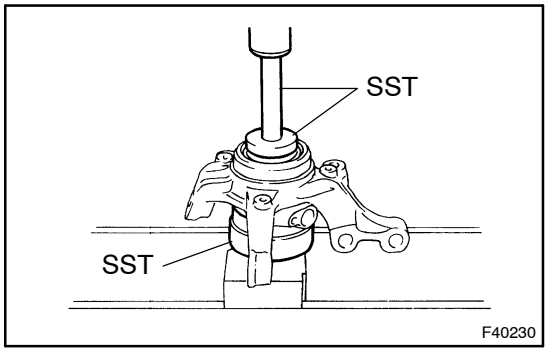
(a) Using SST, remove the axle hub.
SST 09520–00031



(b) Using SST and a press, remove the inner race (outside) from the axle hub.
SST 09520–00031, 09950–00020, 09950–60010 (09951–00430), 09950–70010 (09951–07100)

13. REMOVE DISC BRAKE DUST COVER FRONT LH

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

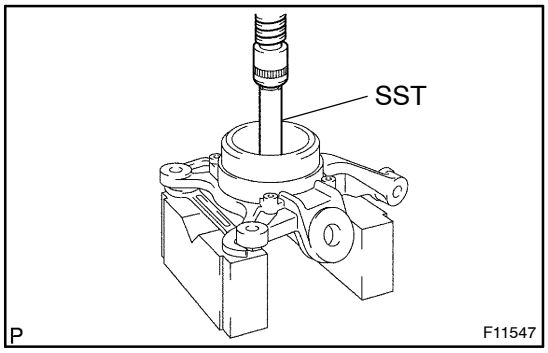


14. REMOVE FRONT AXLE HUB LH BEARING

(a) Place the inner race (outside) on the bearing.

(b) Using SST and a press, press the bearing until it contacts with the SST.

SST 09527–17011, 09950–60020 (09951–00750), 09950–70010 (09951–07100)



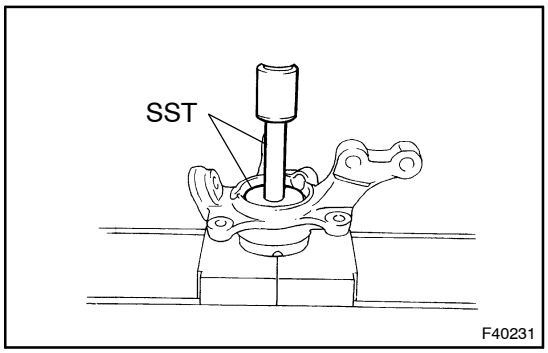
(c) Using a spanner to make the steering knuckle horizontal, fix it to the V block as shown in the illustration.

NOTICE:

Be sure the steering knuckle is horizontally positioned.

(d) Using SST and a press, remove the bearing.

SST 09950–60020 (09951–00750), 09950–70010 (09951–07100)



15. INSTALL FRONT AXLE HUB LH BEARING

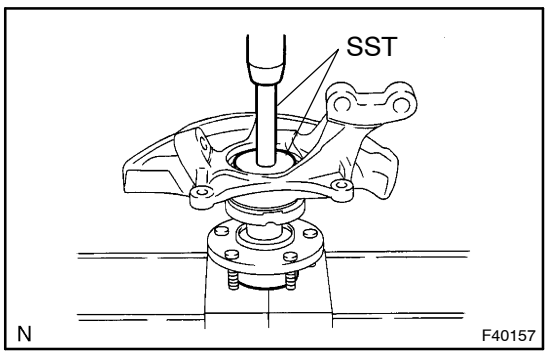
(a) Using SST and a press, install a new bearing to the steering knuckle.

SST 09608–32010, 09950–60020 (09951–00810), 09950–70010 (09951–07100)

16. INSTALL DISC BRAKE DUST COVER FRONT LH

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

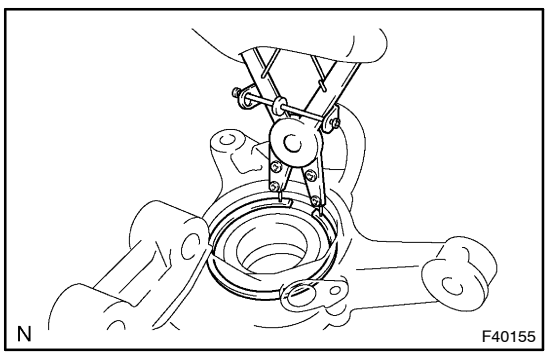
Torque: 8.3 N·m (85 kgf·cm, 74 in.·lbf)



17. INSTALL FRONT AXLE HUB SUB–ASSY LH

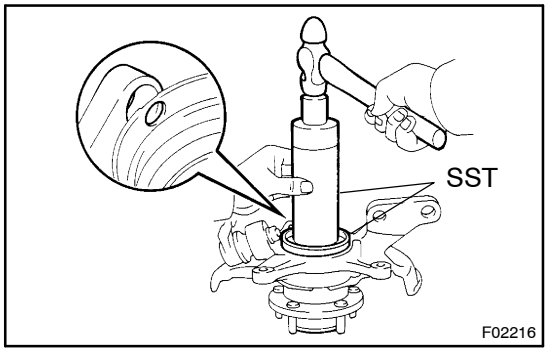
(a) Using SST and a press, install the axle hub.

SST 09608–32010, 09950–60020 (09951–00810), 09950–70010 (09951–07100)



18. INSTALL FRONT AXLE HUB LH HOLE SNAP RING

(a) Using snap ring pliers, install a new snap ring.



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

(a) Using SST and a hammer, install a new dust deflector.
SST 09316–60011 (09316–00011, 09316–00031), 09608–32010

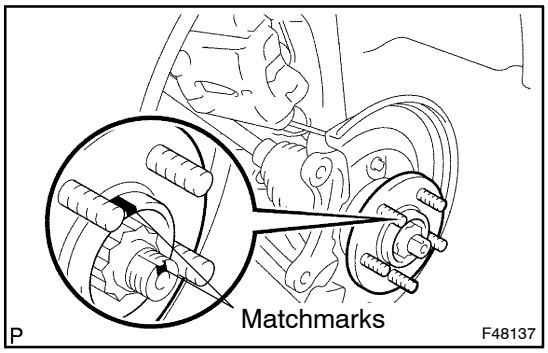
HINT:
Align the holes for the ABS speed sensor in the dust deflector with steering knuckle.

20. INSTALL LOWER BALL JOINT ASSY FRONT LH

(a) Install the lower ball joint and tighten the nut.
Torque: 123 N·m (1,250 kgf·cm, 90 ft·lbf)

(b) Install a new cotter pin.

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

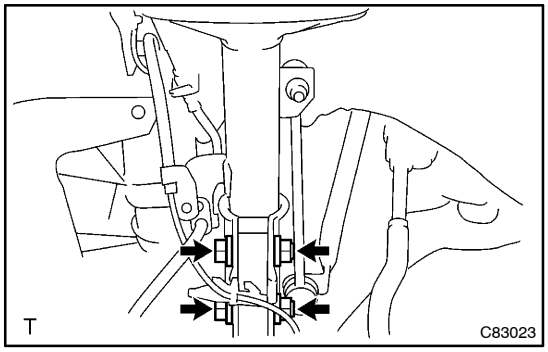


21. INSTALL FRONT AXLE ASSY LH

(a) Align the matchmarks and install the drive shaft assy LH to the front axle assy LH.

NOTICE:

- **Be careful not to damage the drive shaft outboard joint boot.**
- **Be careful not to damage the speed sensor rotor.**



(b) Install the 2 bolts, nuts and axle assembly to the shock absorber.
Torque: 210 N·m (2,143 kgf·cm, 155 ft·lbf)

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

22. INSTALL FRONT SUSPENSION ARM SUB–ASSY LOWER NO.1 LH

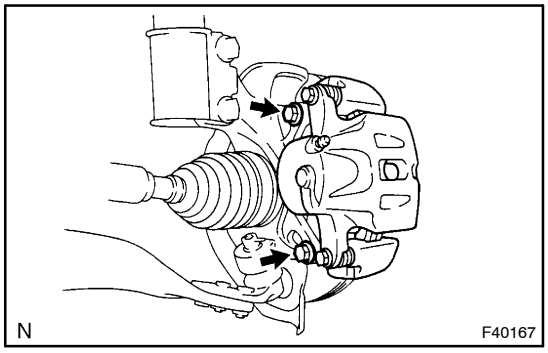
(a) Connect the lower arm and ball joint with the 2 nuts and bolt.

23. INSTALL TIE ROD END SUB–ASSY LH

(a) Connect the tie rod end to the steering knuckle.

(b) Install the nut and a new cotter pin.
Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

24. INSTALL FRONT DISC (SEE PAGE 32–26)



25. INSTALL FRONT DISC BRAKE CALIPER ASSY LH

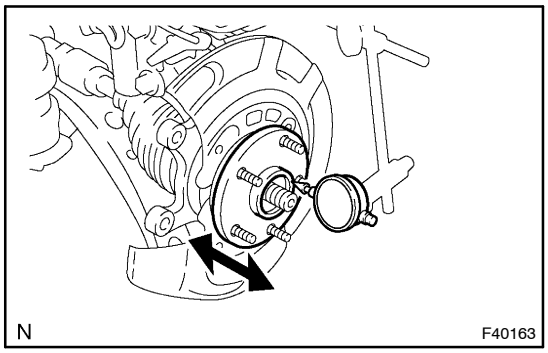
(a) Install the brake caliper assembly with the 2 bolts to the steering knuckle.

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

26. INSTALL FRONT AXLE HUB LH NUT

27. SEPARATE FRONT DISC BRAKE CALIPER ASSY LH

28. REMOVE FRONT DISC (SEE PAGE 32–26)

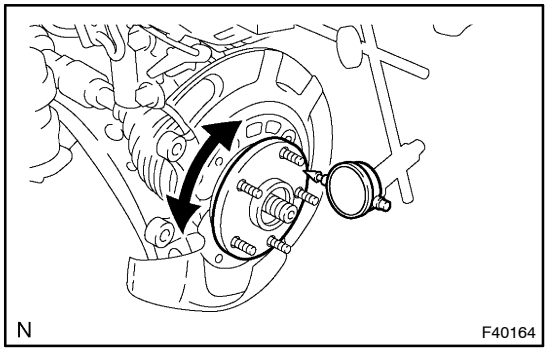


29. INSPECT BEARING LOOSENESS

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

Maximum: 0 mm (0 in.)

If the backlash exceeds the maximum, replace the bearing.



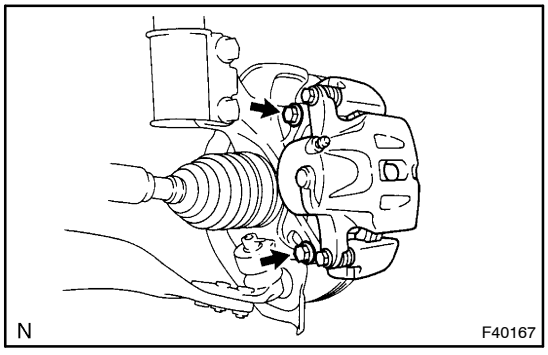
30. INSPECT AXLE HUB RUNOUT

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

Maximum: 0.07 mm (0.0027 in.)

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

31. INSTALL FRONT DISC (SEE PAGE 32–26)



32. INSTALL FRONT DISC BRAKE CALIPER ASSY LH

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

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

33. INSTALL SPEED SENSOR FRONT LH

34. INSTALL FRONT WHEEL

Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

35. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (SEE PAGE 26–5)

36. CHECK ABS SPEED SENSOR SIGNAL

(a) ABS WITH BA & EBD SYSTEM (SEE PAGE 05–156)

(b) ABS WITH EBD & BA & TRAC & VSC SYSTEM (SEE PAGE 05–234)