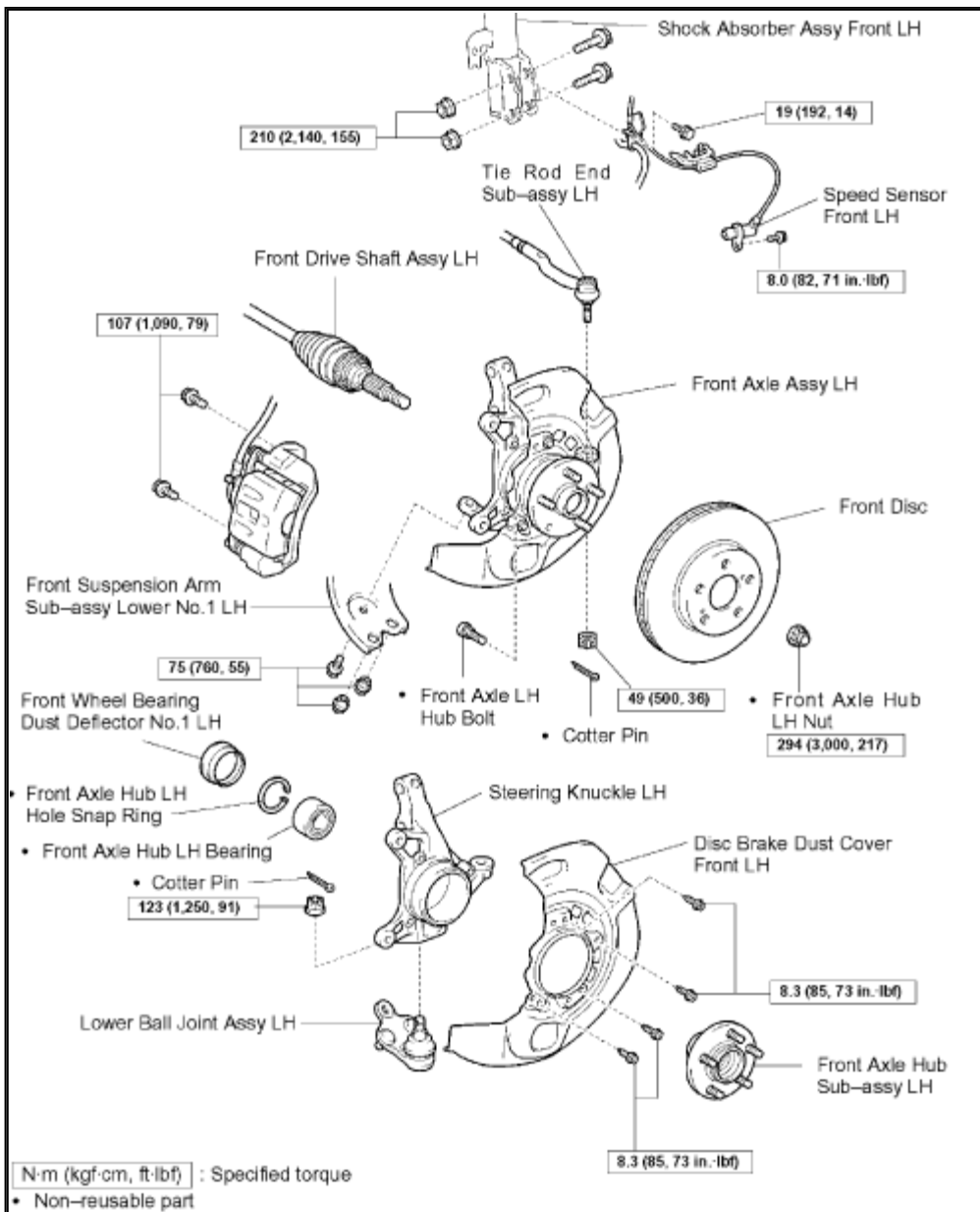


2005 Toyota Camry V6-3.0L (1MZ-FE)

Vehicle Level → Steering and Suspension → Suspension → Wheel Hub → Service and Repair → Front Axle Hub Sub-Assy Replacement ←

Front Axle Hub Sub-Assy Replacement

[Notes](#)

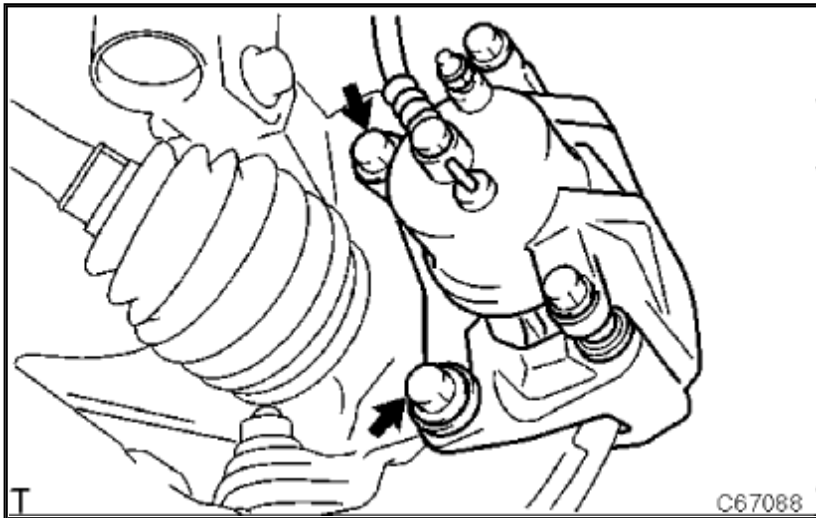


Zoom

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FRONT AXLE HUB SUB-ASSEMBLY LH REPLACEMENT

1. REMOVE FRONT WHEEL
2. REMOVE FRONT AXLE HUB LH NUT SST 09930-00010
3. SEPARATE SPEED SENSOR FRONT LH
4. SEPARATE FRONT DISC BRAKE CALIPER ASSEMBLY LH



Zoom

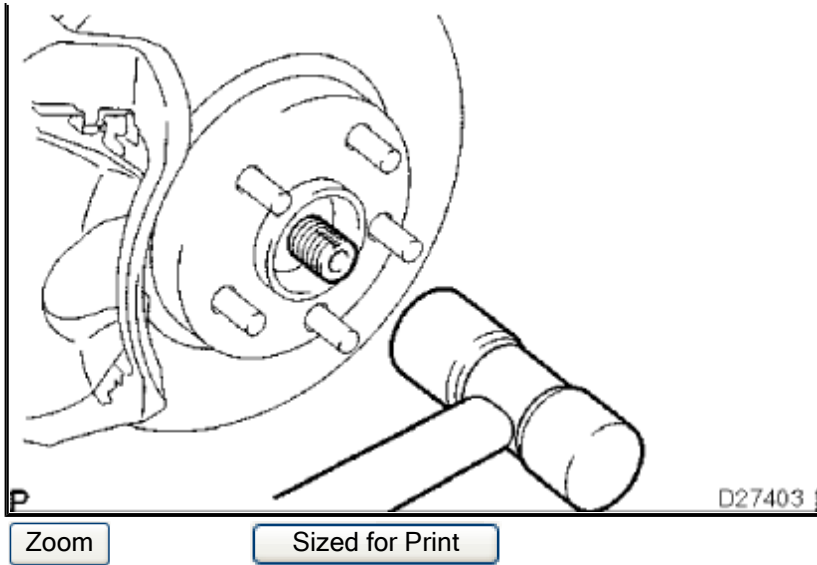
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- a) Remove the 2 bolts and separate the front disc brake caliper assembly LH from the steering knuckle LH.

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

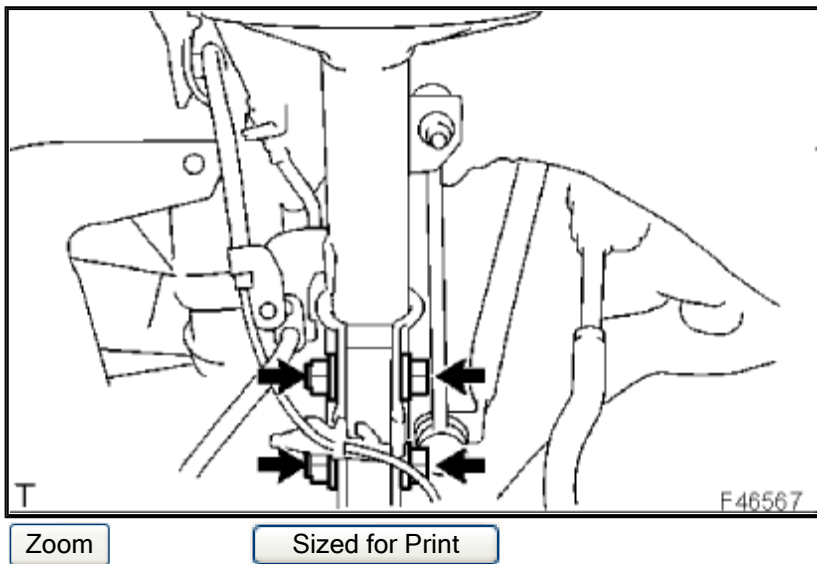
5. REMOVE FRONT DISC
6. SEPARATE TIE ROD ASSEMBLY LH SST 09628-62011
7. SEPARATE FRONT SUSPENSION ARM SUB-ASSEMBLY LOWER NO.1 LH
8. REMOVE FRONT AXLE ASSEMBLY LH





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

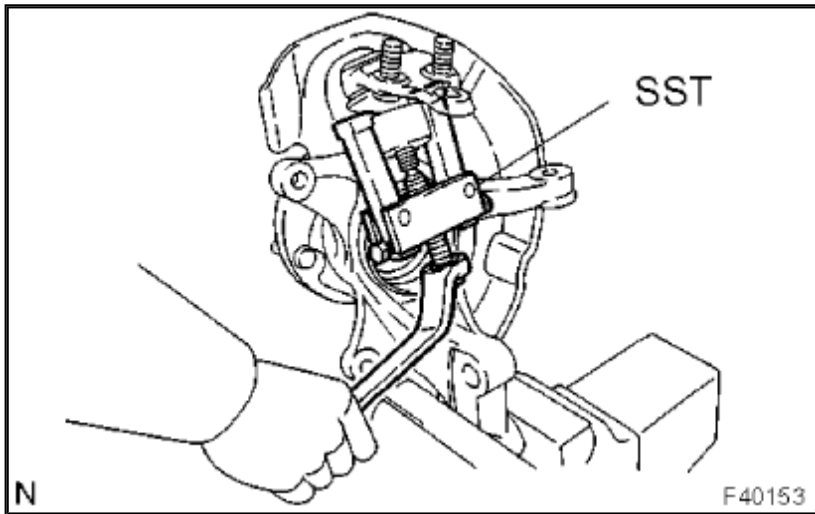
NOTICE: Be careful not to damage the boot and speed sensor rotor.



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

9. REMOVE LOWER BALL JOINT ASSEMBLY FRONT LH

- a) Remove the cotter pin and nut.



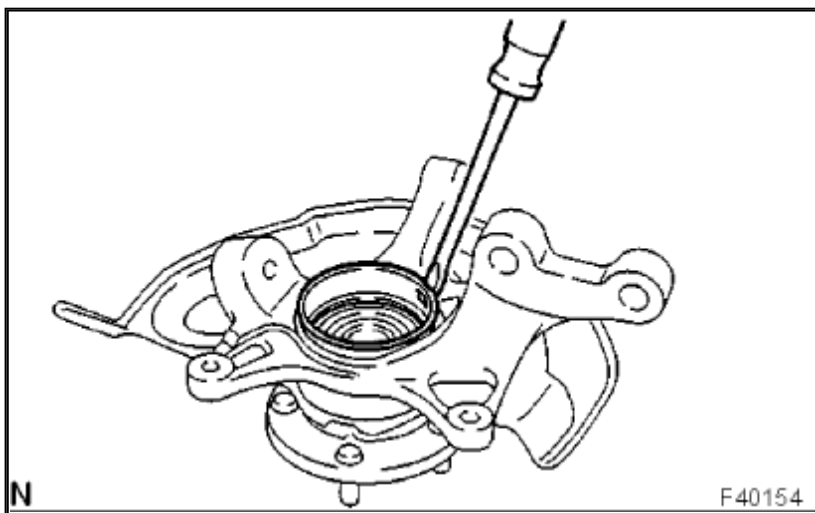
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- b) Using SST, remove the lower ball joint assembly front LH.

SST 09628-62011

10. REMOVE FRONT [WHEEL BEARING](#) DUST DEFLECTOR NO.1 LH

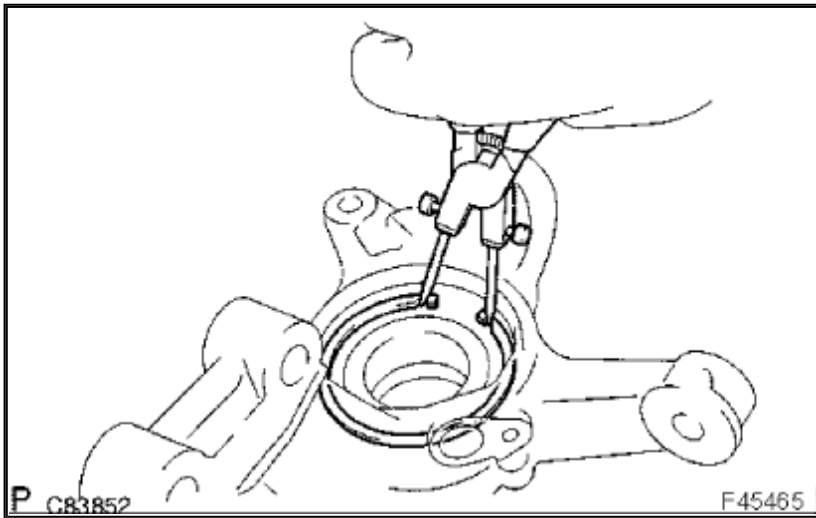


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- a) Using a screwdriver, remove the bearing dust deflector No.1 LH.

11. REMOVE FRONT AXLE HUB LH HOLE SNAP RING

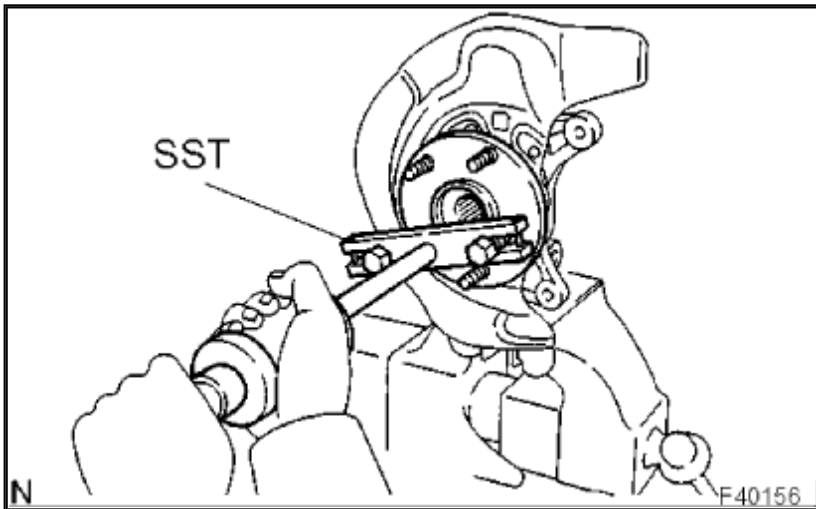


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a) Using snap ring pliers, remove the front axle hub LH hole snap ring.

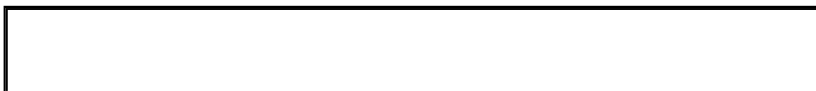
12. REMOVE FRONT AXLE HUB SUB-ASSEMBLY LH

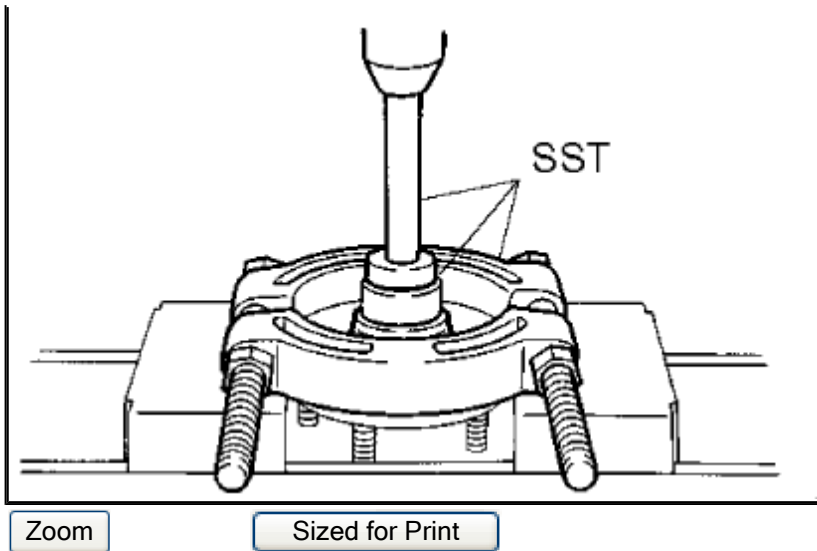


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a) Using SST, remove the front axle hub sub-assembly LH.
SST 09520-00031





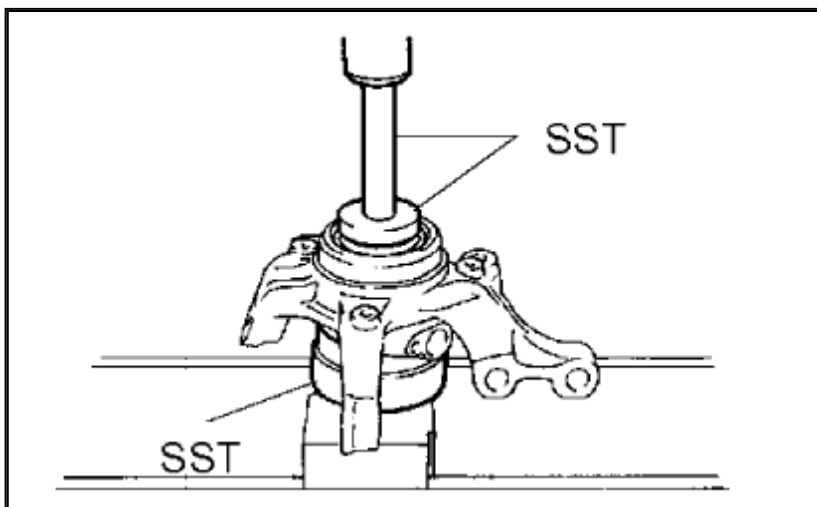
- b) Using SST and a press, remove the bearing inner race (outside) from the front axle hub sub-assembly LH.
SST 09950-00020, 09950-60010 (09951-00430), 09950-70010 (09951-07100)

13. REMOVE DISC BRAKE DUST COVER FRONT LH

- a) Using a torx wrench J30), remove the 4 bolts and disc brake dust cover front LH.

14. REMOVE FRONT AXLE HUB LH BEARING

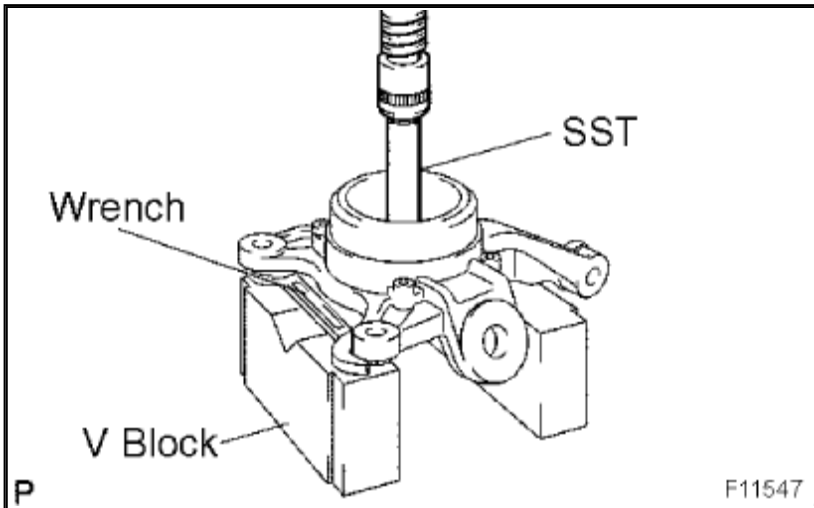
- a) Place the bearing inner race (outside) on the front axle hub LH bearing.



Zoom

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- b) Using SST and a press, press the front axle hub LH bearing until it comes into contact with the SST.
SST 09527-17011, 09950-60010 (09951-00600), 09950-70010 (09951-07100)



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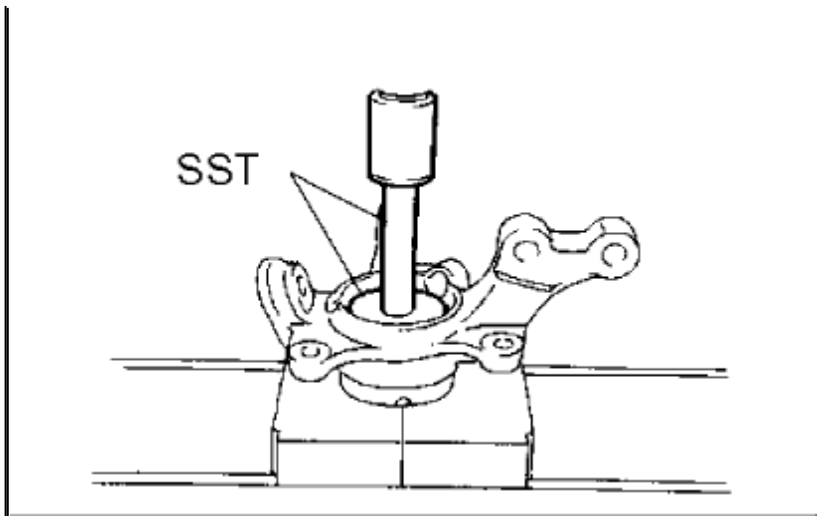
- c) Using a wrench to make the steering knuckle LH horizontal, fix it to the V block, as shown in the illustration.

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)

15. INSTALL FRONT AXLE HUB LH BEARING





Zoom

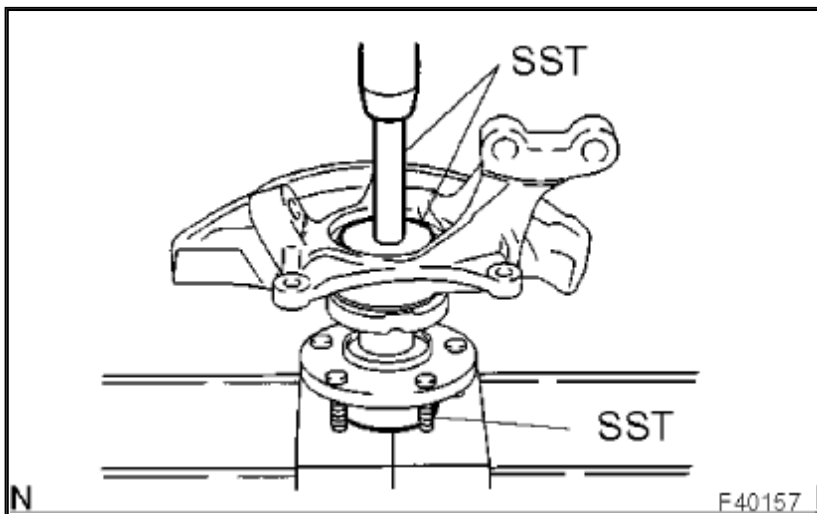
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- a) Using SST and a press, install a new front axle hub LH bearing to the steering knuckle LH.
SST 09950-60020 (09951-00810), 09950-70010 (09951-07100)

16. INSTALL DISC BRAKE DUST COVER FRONT LH

- a) Place the disc brake dust cover front LH and use a torx wrench (T30) to torque the 4 bolts.
Torque: **8.3 Nm (85 kgf-cm, 73 inch lbs.)**

17. INSTALL FRONT AXLE HUB SUB-ASSEMBLY LH

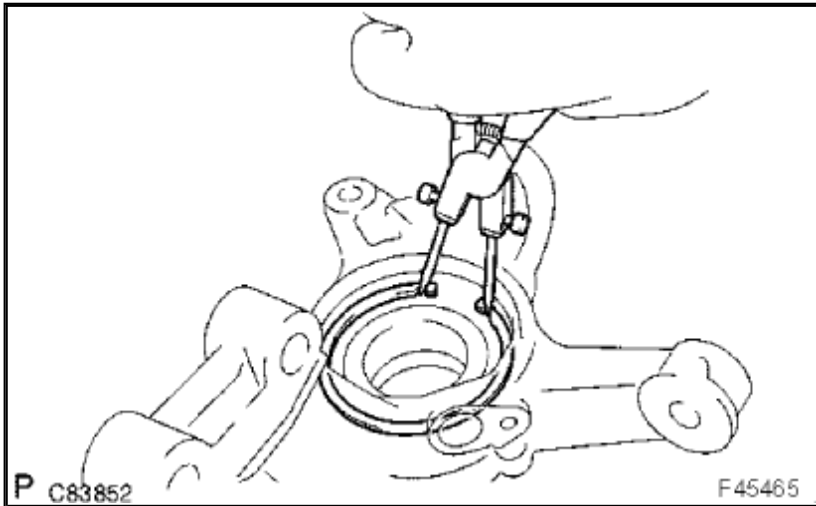


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- a) Using SST and a press, install the front axle hub sub-assembly LH.
SST 09608-32010, 09950-60020 (09951-00810), 09950-70010 (09951-07100)

18. INSTALL FRONT AXLE HUB LH HOLE SNAP RING

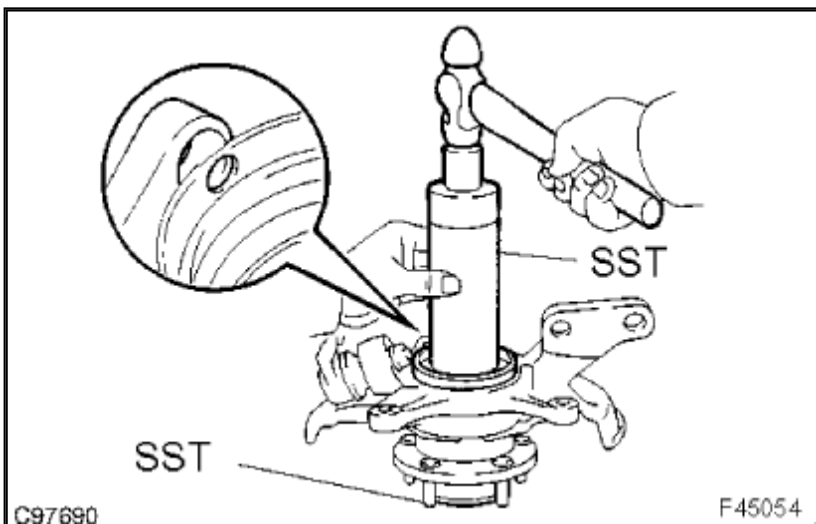


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- a) Using snap ring pliers, install a new front axle hub LH hole snap ring.

19. INSTALL FRONT [WHEEL BEARING](#) DUST DEFLECTOR NO.1 LH



Zoom

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- a) Using SST and a hammer, install a new bearing dust deflector No. 1 LH.
SST 09316-60011 (09316-00011, 09316-00031), 09608-32010

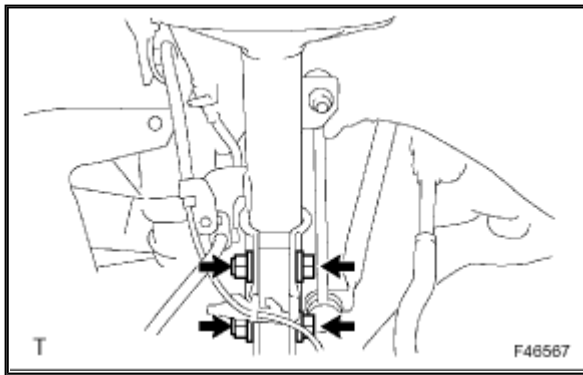
HINT: Align the hole for the speed sensor in the bearing dust deflector No.1 LH with the steering knuckle.

20. INSTALL LOWER BALL JOINT ASSEMBLY FRONT LH

- a) Install the lower ball joint assembly front LH and tighten the nut.
Torque: **123 Nm (1,250 kgf-cm, 91 ft. lbs.)**
- b) Install a new cotter pin.

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

21. INSTALL FRONT AXLE ASSEMBLY LH



Zoom

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- a) Install the front axle assembly LH to the shock absorber assembly front LH with the 2 bolts and 2 nuts.
Torque: **210 Nm (2,140 kgf-cm, 155 ft. lbs.)**

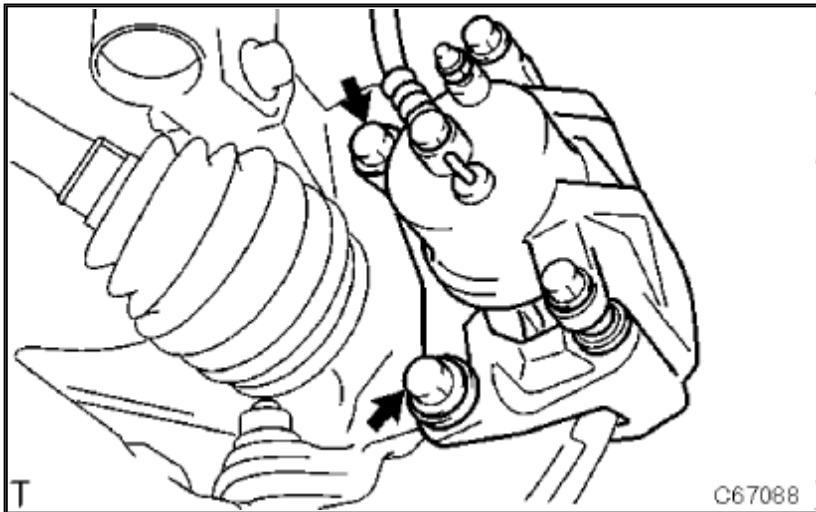
NOTICE:

- Only when reusing the bolts and nuts, apply a small amount of engine oil to the screw part of the nuts.
- Do not excessively push out the front axle assembly 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-ASSEMBLY LOWER NO.1 LH

23. INSTALL TIE ROD ASSEMBLY LH

24. INSTALL FRONT DISC
25. INSTALL FRONT DISC BRAKE CALIPER ASSEMBLY LH



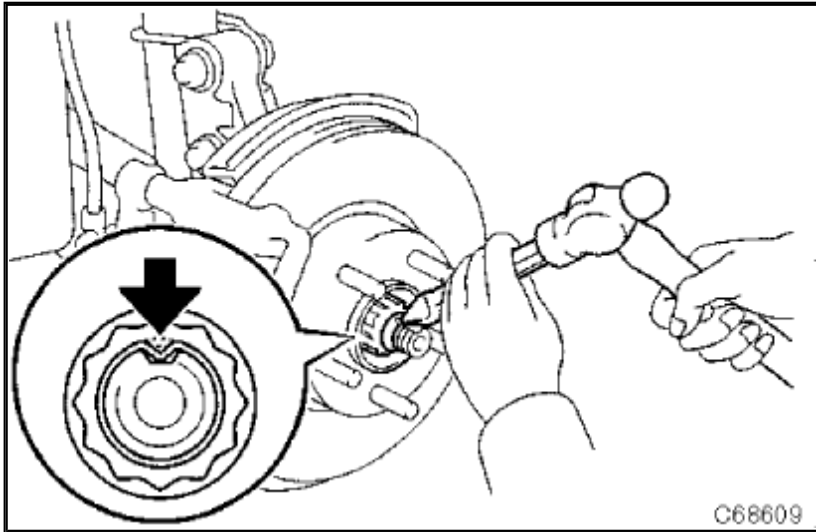
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- a) Install the front disc brake caliper assembly LH with the 2 bolts to the steering knuckle LH.
Torque: **107 Nm (1,090 kgf-cm, 79 ft. lbs.)**
26. INSTALL FRONT AXLE HUB LH NUT
 - a) Using a socket wrench (30 mm), install a new axle hub LH nut.
Torque: **294 Nm (3,000 kgf-cm, 217 ft. lbs.)**
 27. SEPARATE FRONT DISC BRAKE CALIPER ASSEMBLY LH
 - a) Remove the 2 bolts and separate the front disc brake caliper assembly LH from the steering knuckle LH.
- NOTICE:** Use a string or similar device to keep the brake caliper from hanging down by the flexible hose.
28. REMOVE FRONT DISC
 29. INSPECT BEARING BACKLASH
 30. INSPECT AXLE HUB DEVIATION
 31. INSTALL FRONT DISC
 32. INSTALL FRONT DISC BRAKE CALIPER ASSEMBLY LH

- a) Install the front disc brake caliper assembly LH with the 2 bolts to the steering knuckle LH.
Torque: **107 Nm (1,090 kgf-cm, 79 ft. lbs.)**

- 33. INSTALL SPEED SENSOR FRONT LH
- 34. INSTALL FRONT AXLE HUB LH NUT



Zoom

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- a) Using a socket wrench (30 mm), install a new axle hub LH nut.
Torque: **294 Nm (3,000 kgf-cm, 217 ft. lbs.)**
- b) Using a chisel and hammer, stake the axle hub LH nut.

- 35. INSTALL FRONT WHEEL Torque: **103 Nm (1,050 kgf-cm, 76 ft. lbs.)**
- 36. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT
- 37. CHECK ABS SPEED SENSOR SIGNAL