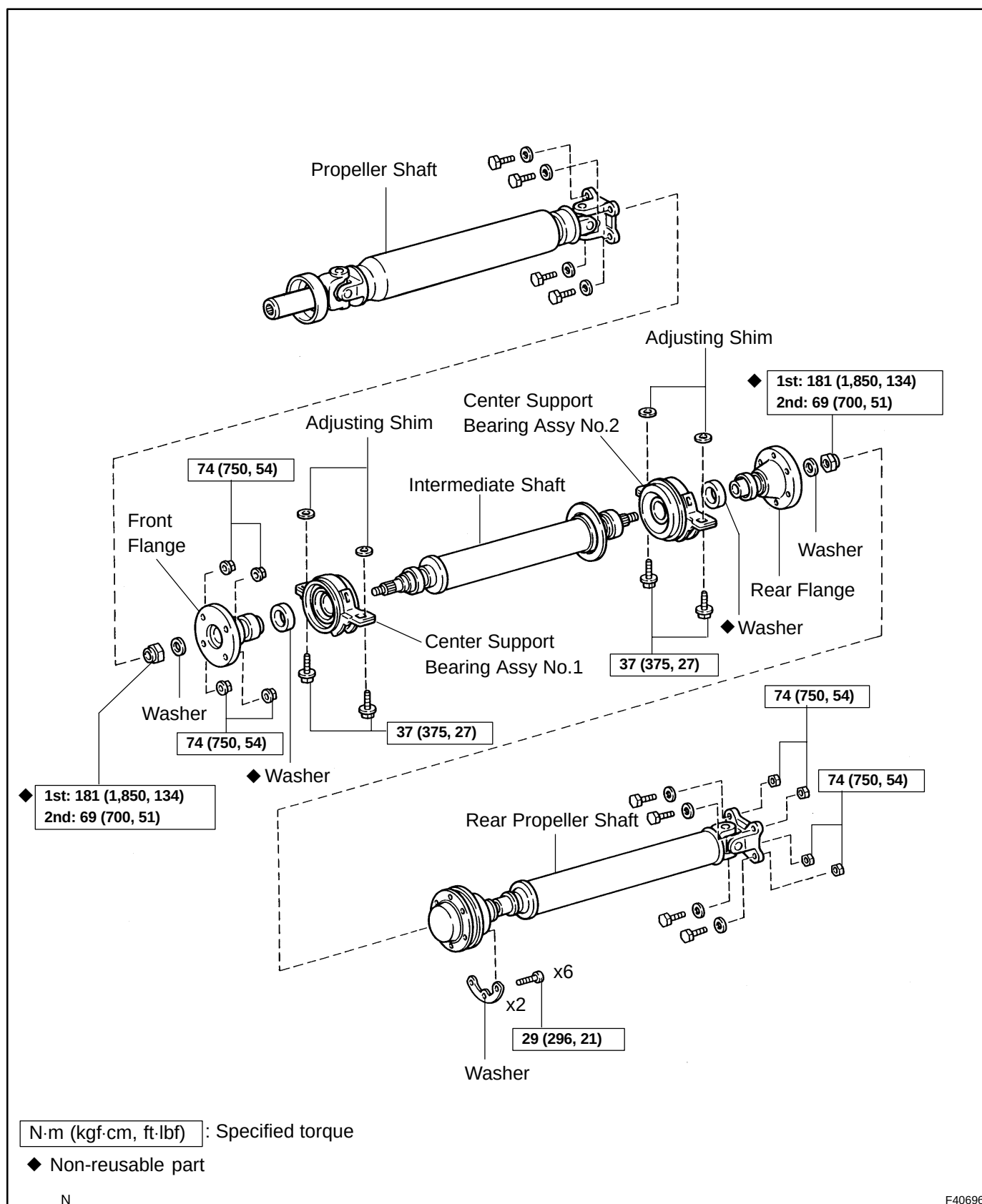


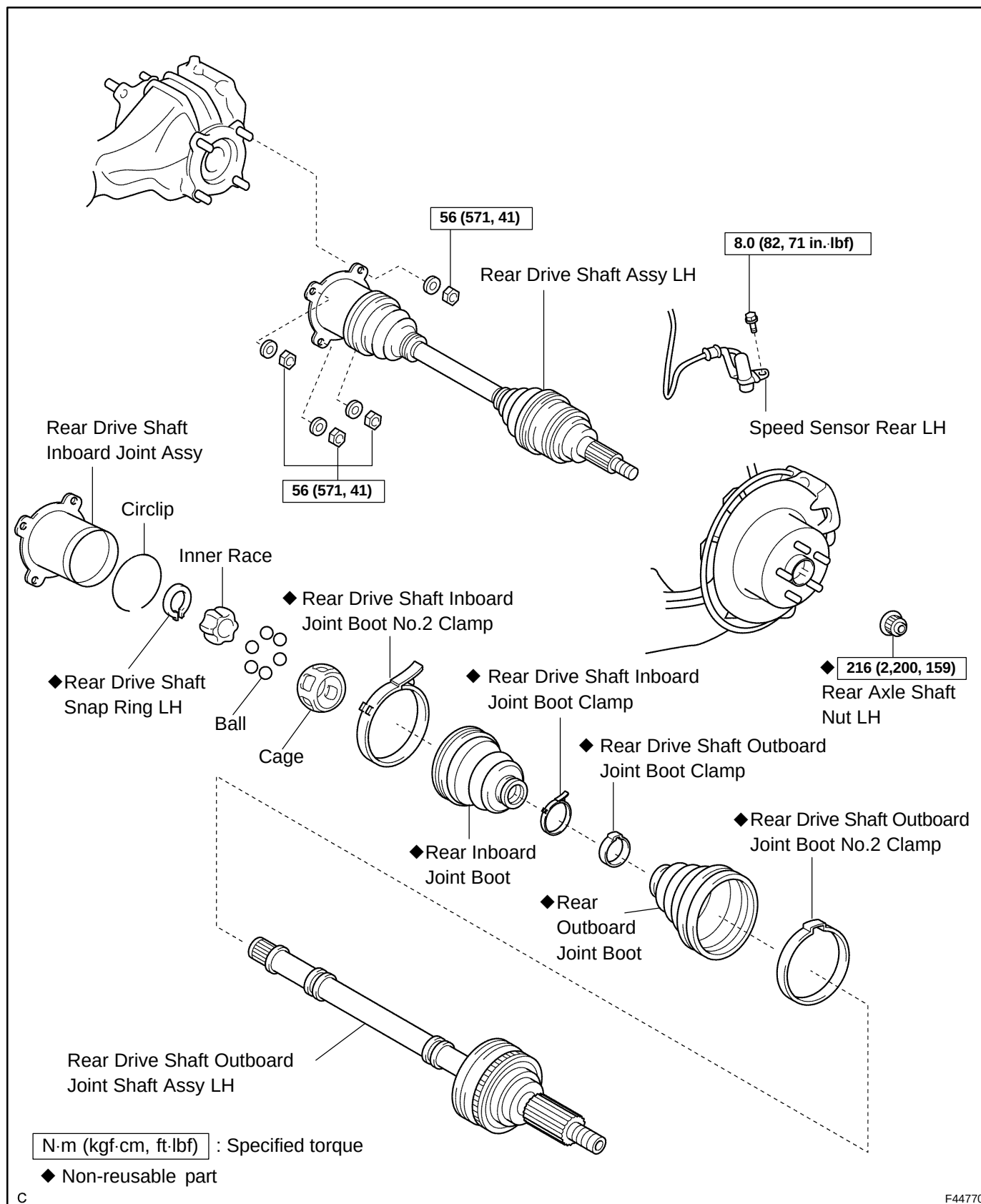
PROPELLER W/CENTER BEARING SHAFT ASSY (4WD) COMPONENTS

300J7-01



REAR DRIVE SHAFT (4WD) COMPONENTS

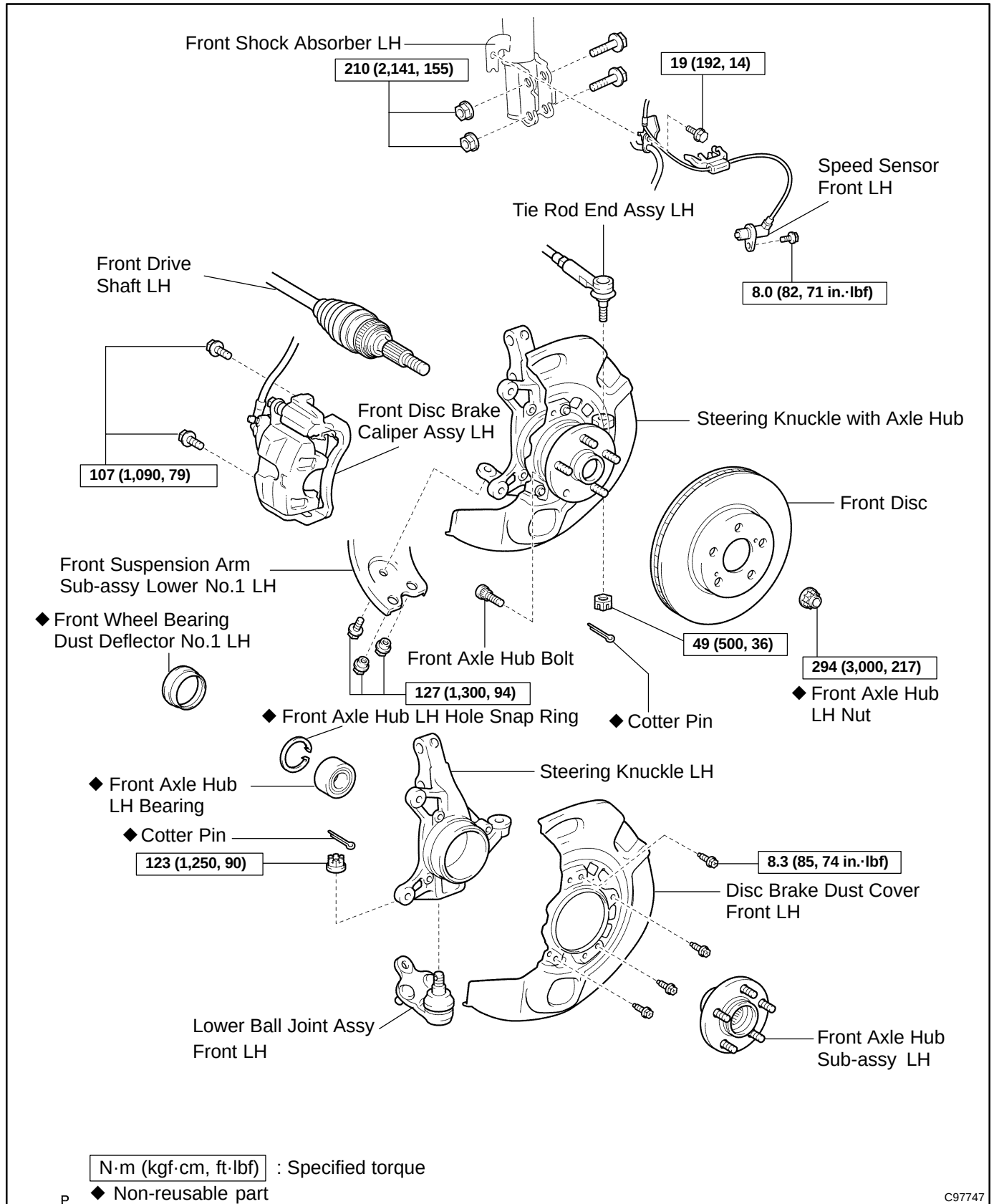
300JA-01



FRONT AXLE HUB SUB-ASSY LH

COMPONENTS

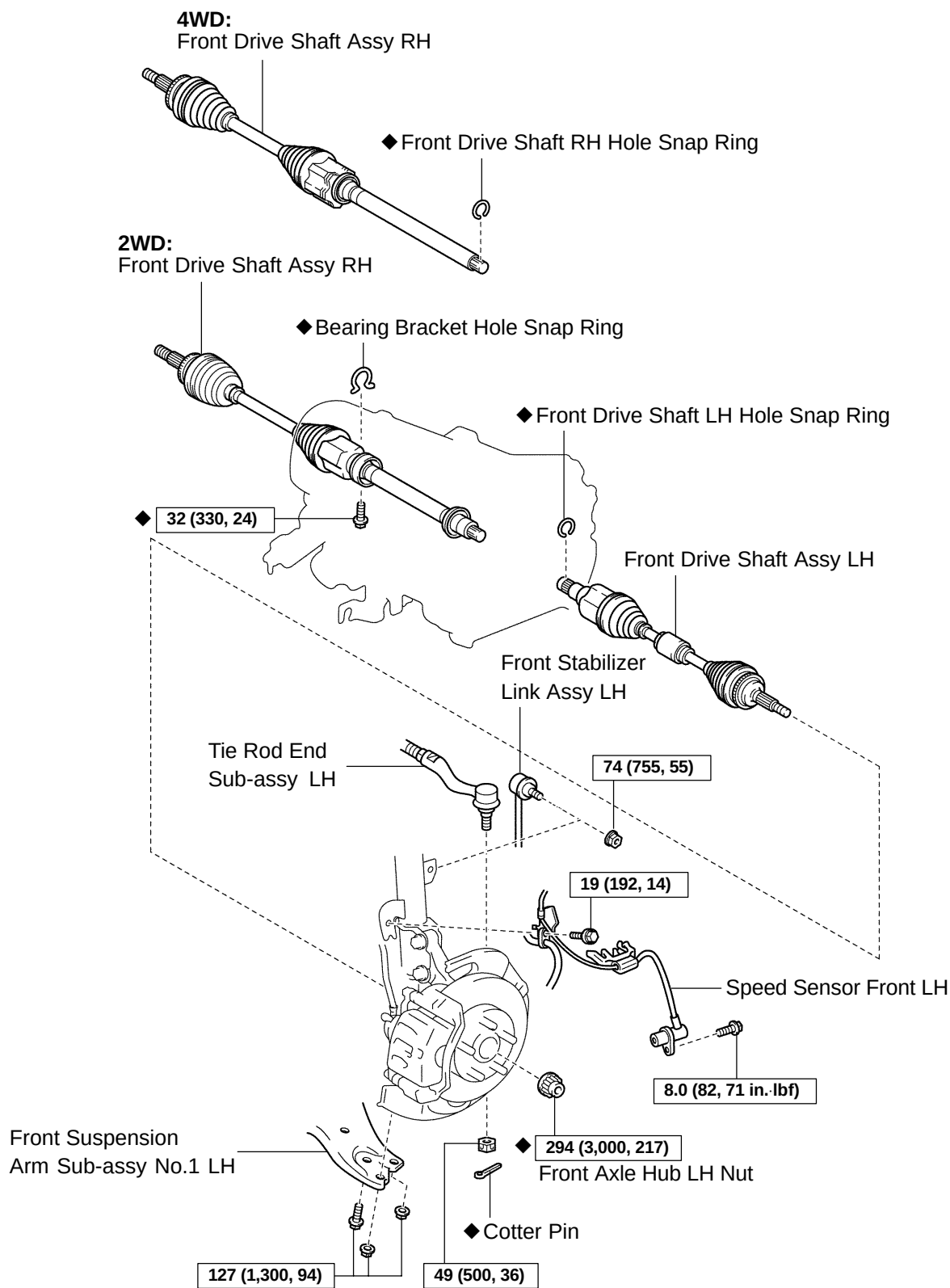
300JC-01



C97747

FRONT DRIVE SHAFT COMPONENTS

300J8-01



N·m (kgf·cm, ft·lbf) : Specified Torque

◆ Non-reusable parts

C F44768

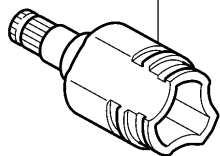
F45460

LH:

◆ Front Drive Shaft Dust Cover LH



Front Drive Inboard Joint Assy LH



◆ Front Drive Inner Shaft Inner LH Shaft Snap Ring



Tripod Joint Assy



◆ Front Axle Inboard Joint Boot LH Clamp



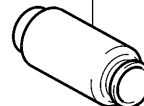
◆ Front Axle Inboard Joint Boot LH No.2 Clamp



◆ Front Drive Shaft Inboard Joint Boot



Drive Shaft Damper

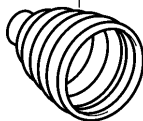


◆ Drive Shaft Damper Clamp

◆ Front Drive Shaft Outboard Joint Boot

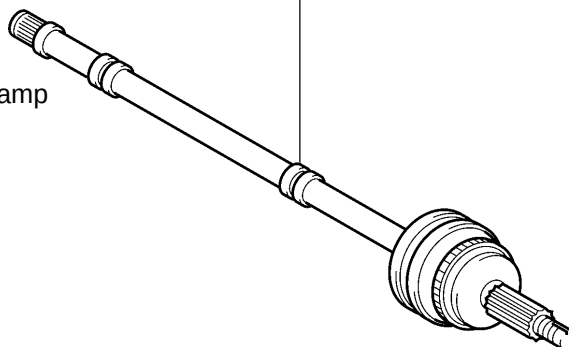


◆ Front Axle Outboard Joint Boot LH No.2 Clamp



◆ Front Axle Outboard Joint Boot LH Clamp

Front Drive Outboard Joint Shaft Assy LH

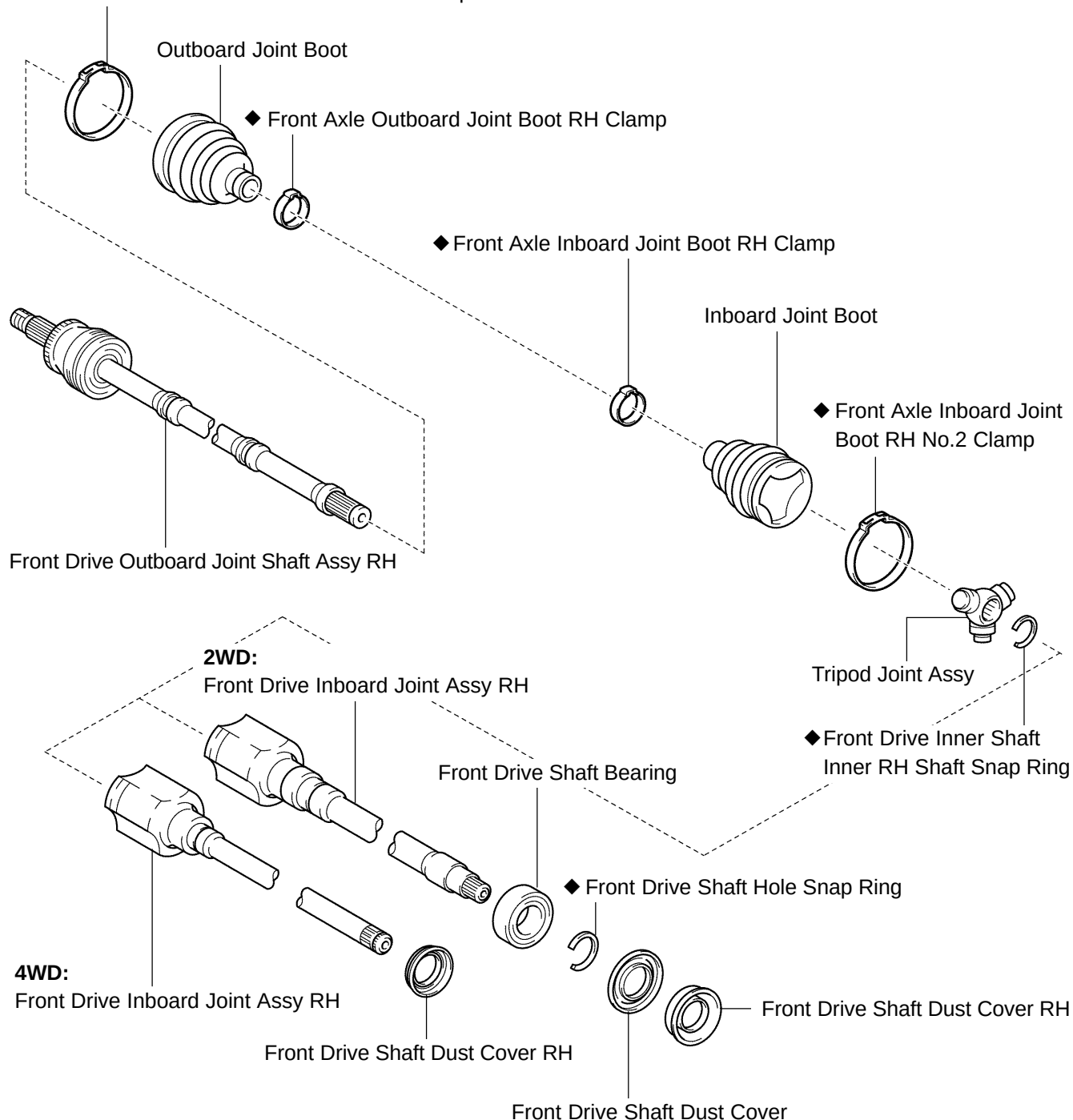


c ◆ Non-reusable parts

F44752

RH:

◆ Front Axle Outboard Joint Boot RH No.2 Clamp



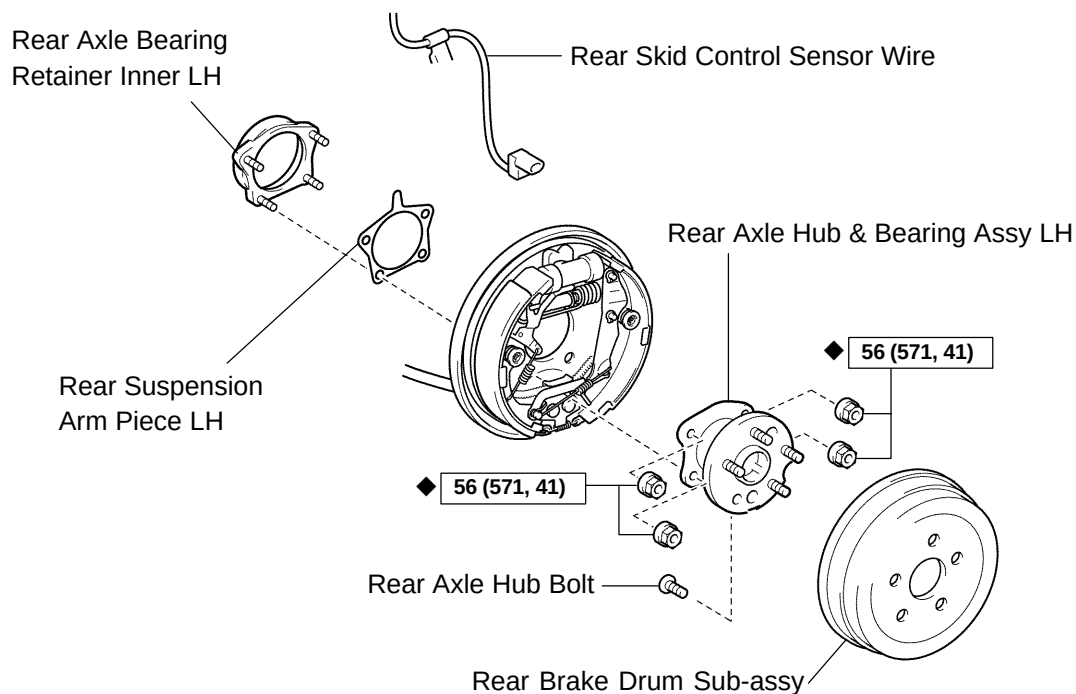
◆ Non-reusable parts

REAR AXLE HUB & BEARING ASSY LH (FF)

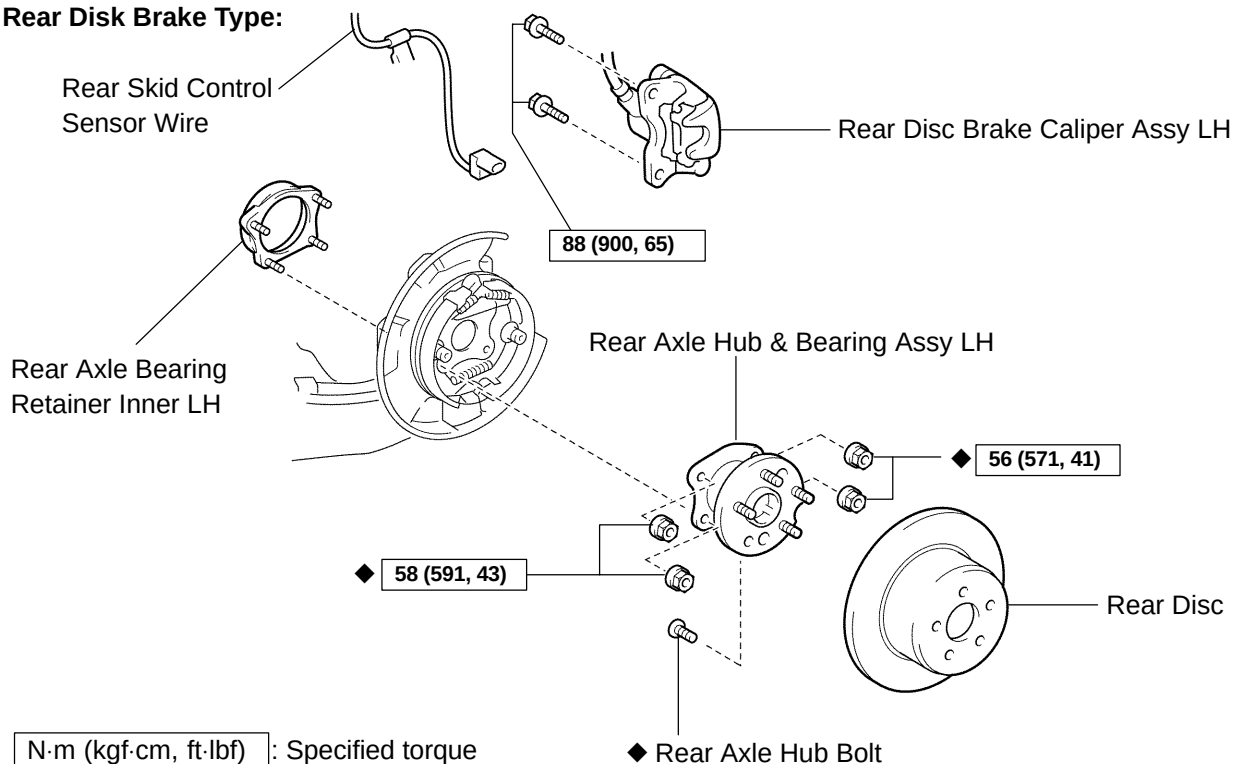
COMPONENTS

300JD-01

Rear Drum Brake Type:



Rear Disk Brake Type:



N·m (kgf·cm, ft·lbf) : Specified torque

◆ Non-reusable part

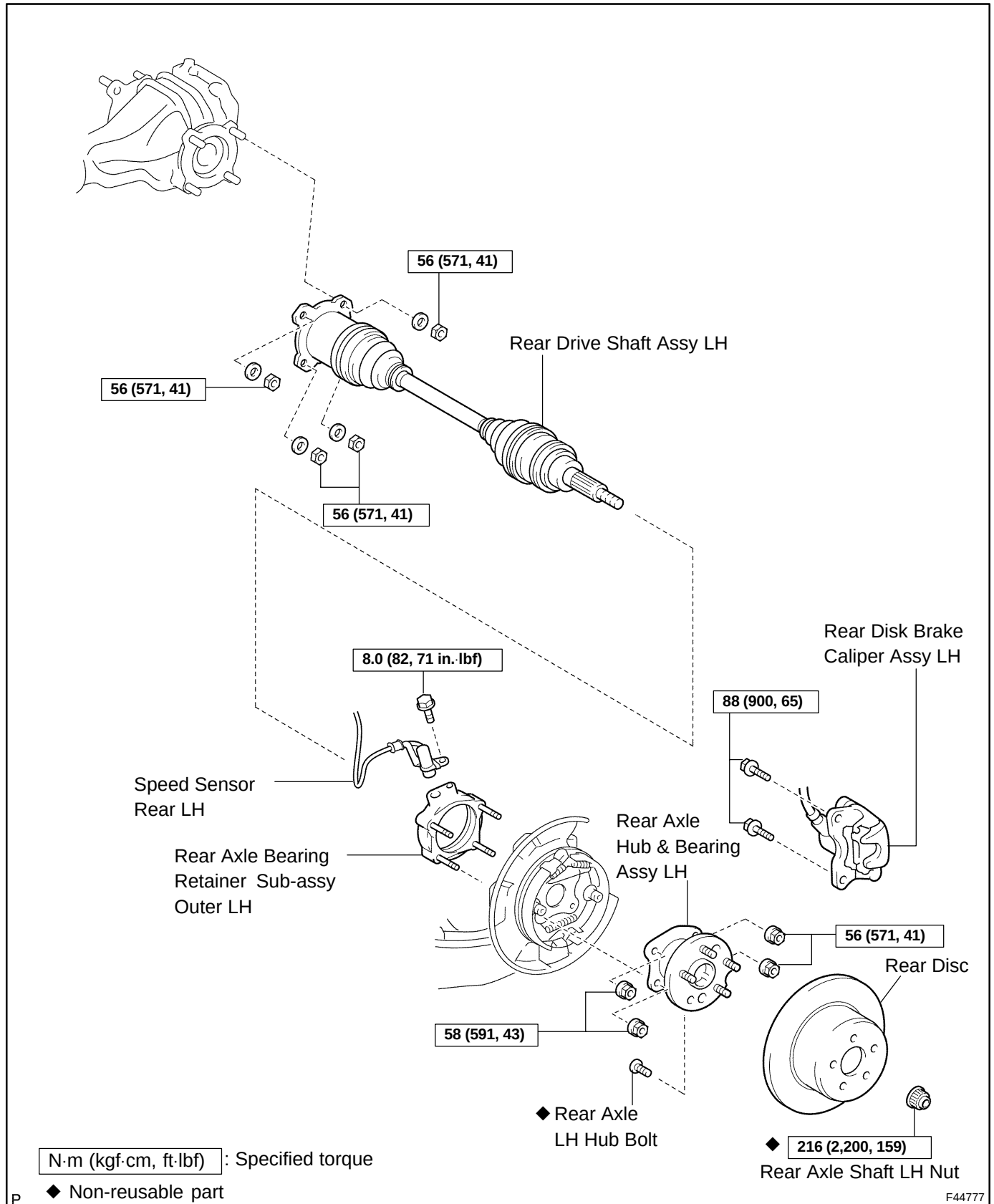
P

F44772

REAR AXLE HUB & BEARING ASSY LH (4WD)

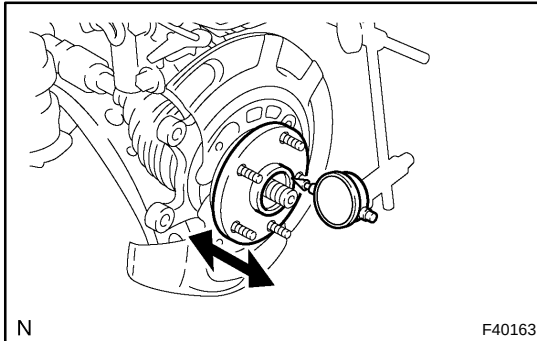
COMPONENTS

300JF-01

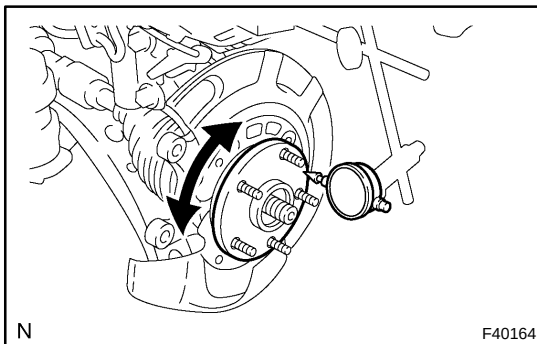


ON-VEHICLE INSPECTION

1. REMOVE FRONT WHEEL
2. DISCONNECT FRONT DISC BRAKE CALIPER ASSY LH (See page 30-39)
3. REMOVE FRONT DISC

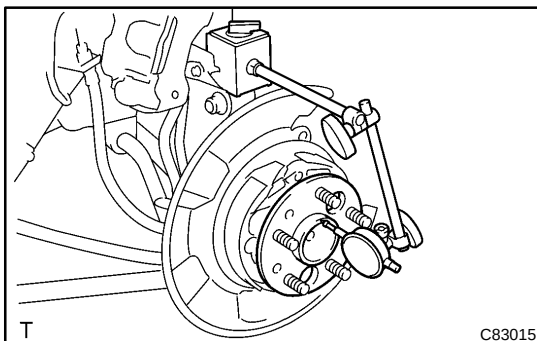


4. **INSPECT FRONT AXLE HUB BEARING BACKLASH**
 - (a) Using a dial indicator, check the backlash near the center of the axle hub.
Maximum: 0.05 mm (0.0020 in.)
If the backlash exceeds the maximum, replace the bearing.

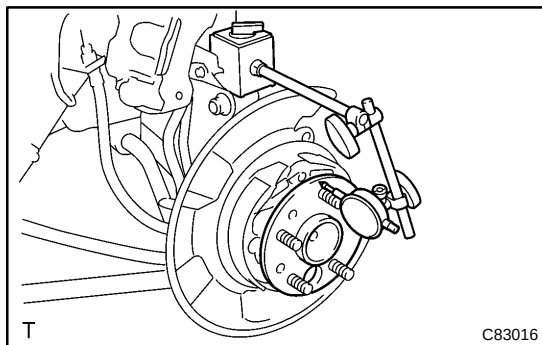


5. **INSPECT FRONT AXLE HUB DEVIATION**
 - (a) Using a dial indicator, check the deviation at the surface of the axle hub outside the hub bolt.
Maximum: 0.05 mm (0.0020 in.)
If the backlash exceeds the maximum, replace the axle hub.

6. INSTALL FRONT DISC
7. INSTALL FRONT DISC BRAKE CALIPER ASSY LH (See page 30-39)
8. INSTALL FRONT WHEEL
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)
9. REMOVE REAR WHEEL
10. DISCONNECT REAR DISC BRAKE CALIPER ASSY LH(DISC REAR BRAKE TYPE)
(See page 30-46)
11. REMOVE REAR DISC(DISC REAR BRAKE TYPE)
12. REMOVE REAR BRAKE DRUM SUB-ASSY(DRUM REAR BRAKE TYPE)



13. **INSPECT REAR AXLE HUB 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 axle hub assembly.

**14. INSPECT REAR AXLE HUB DEVIATION**

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

Maximum: 0.07 mm (0.0027 in.)

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

15. INSTALL REAR DISC(DISC REAR BRAKE TYPE)**16. INSTALL REAR DISC BRAKE CALIPER ASSY LH(DISC REAR BRAKE TYPE)**

(See page [30-46](#))

17. INSTALL REAR BRAKE DRUM SUB-ASSY(DRUM REAR BRAKE TYPE)**18. INSTALL REAR WHEEL**

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

DRIVE SHAFT, PROPELLER SHAFT, AXLE

30036-01

PRECAUTION

1. NOTICE OF REMOVING AND INSTALLING FRONT DRIVE SHAFT ASSY RH

- (a) When removing and installing the front drive shaft assy RH in the 4WD vehicle, drain all the transaxle oil and transfer oil. If the removal and installation is performed without draining these oils, the transfer oil will flow into the transaxle side, which will mix these 2 different oils. In this case, cleaning the inside of the transaxle and the transfer is required.

PROBLEM SYMPTOMS TABLE

Use the table below to help you find the cause of the problem. The numbers indicate the priority of the likely cause of the problem. Check each part in order. If necessary, replace these parts.

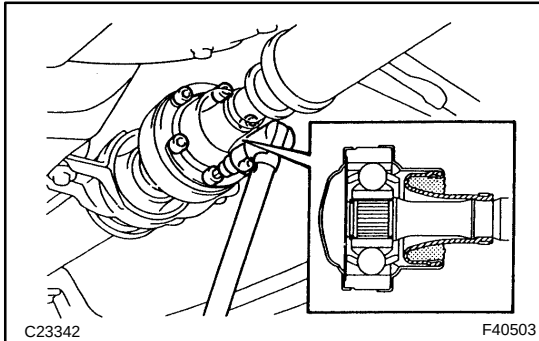
Symptom	Suspect Area	See page
Wander	4. Wheel 5. Front wheel alignment 6. Rear wheel alignment 7. Hub bearing (Worn) 8. Front shock absorber 9. Rear shock absorber	28-1 26-7 27-4 30-39 26-11 27-5
Front wheel shimmy	1. Wheel (imbalance) 2. Hub bearing (Worn) 3. Lower suspension arm 4. Lower ball joint (Worn) 5. Front shock absorber	28-1 30-39 26-17 26-19 26-11
Noise (Front)	1. Front drive shaft 2. Front shock absorber 3. Hub bearing (Worn) 4. Lower ball joint (Worn)	30-18 26-11 30-39 26-19
Noise (Rear)	1. Rear drive shaft 2. Hub & bearing (Worn) 3. Rear shock absorber FF: 4WD:	30-32 30-46 30-49 27-5
Vibration or noise (Propeller w/center bearing shaft)	1. Center support bearing 2. Propeller and intermediate shafts (Runout)	30-6 30-6

OVERHAUL

HINT:

COMPONENTS: See page 30-5

1. REMOVE EXHAUST PIPE ASSY (See page 15-6)

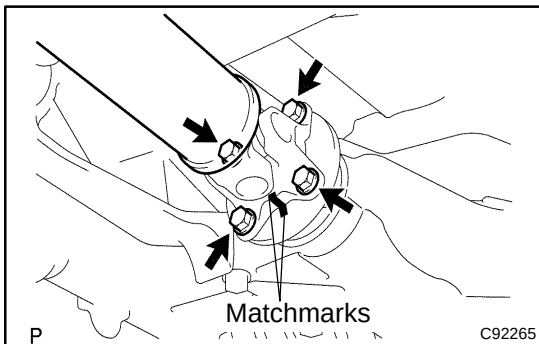


2. REMOVE PROPELLER W/CENTER BEARING SHAFT ASSY

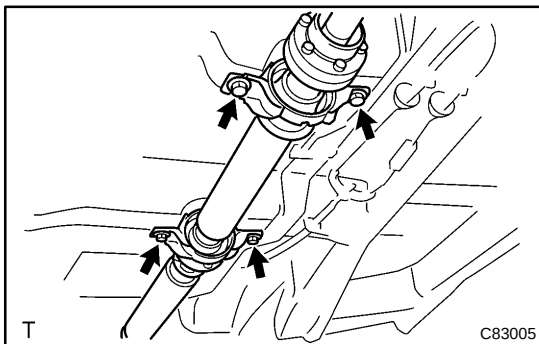
- Depress the brake pedal and hold it.
- Using a hexagon wrench (6 mm), loosen the cross groove joint set bolts 1/2 turn.

HINT:

Put a shop rug into the inside of the universal joint cover so that the boot does not touch the inside of the universal joint cover.



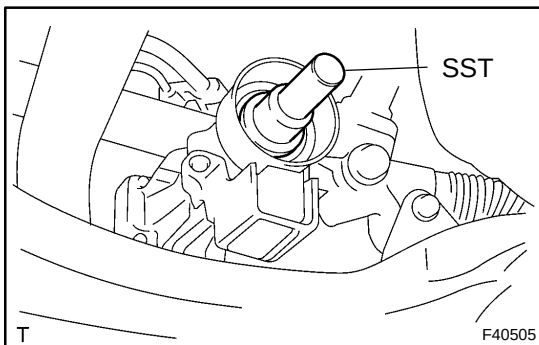
- Place matchmarks on both the flanges.
- Remove the 4 nuts, bolts and washers.



- Remove the 4 bolts, 2 adjusting shims and propeller shaft w/center bearing shaft assy.

NOTICE:

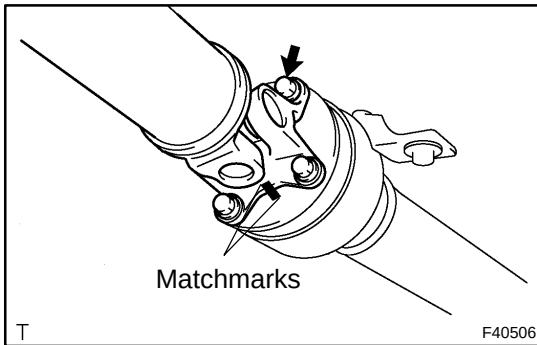
- When removing the propeller shaft, do not apply excessive force to the universal joint.
- During and after the removal of the propeller shaft, keep the universal joint angle straight (within 15 degrees).
- Be careful not to damage the oil seal.



- Insert SST in the transfer to prevent oil leakage.
SST 09325-20010

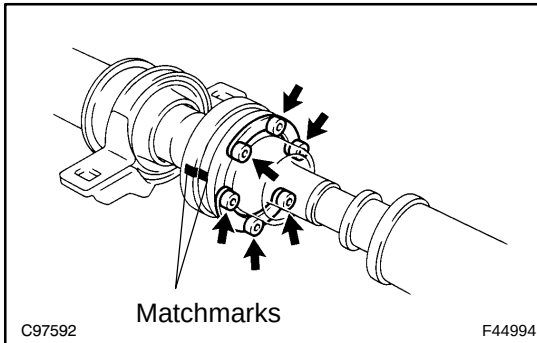
NOTICE:

Be careful not to damage the oil seal.



3. REMOVE PROPELLER SHAFT

- (a) Place matchmarks on both the flanges.
- (b) Remove the 4 nuts, bolts and washers.



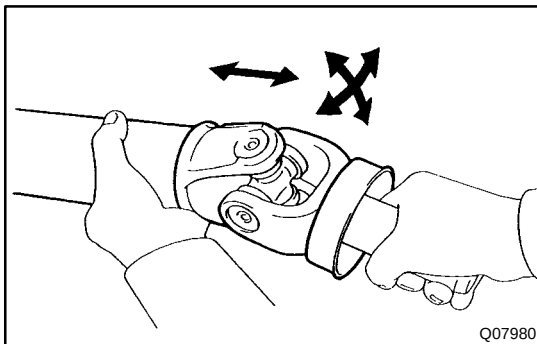
4. REMOVE INTERMEDIATE SHAFT

- (a) Place matchmarks on the propeller shaft sub-assy and universal joint flange.

NOTICE:

Do not punch the marks.

- (b) Using a hexagon wrench (6 mm), remove the 6 bolts and 2 washers and separate the intermediate shaft from the rear propeller shaft.

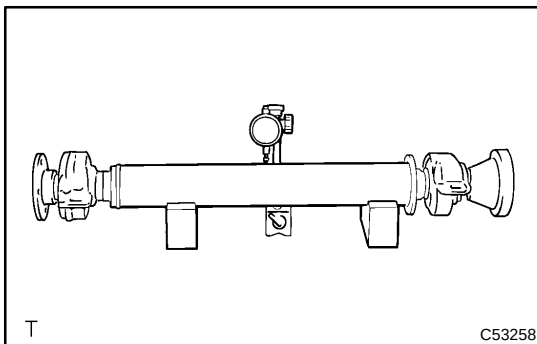


5. INSPECT SPIDER BEARING

- (a) Check the spider bearing axial play by turning the flange while holding the propeller shaft tightly.

HINT:

If necessary, replace the shaft.



6. INSPECT INTERMEDIATE SHAFT

- (a) Using a dial indicator, check for the runout of the intermediate shaft.

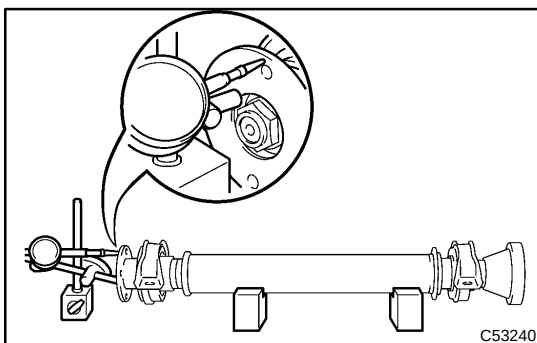
Maximum runout: 0.8 mm (0.031 in.)

HINT:

If the shaft runout exceeds the maximum, replace the shaft.

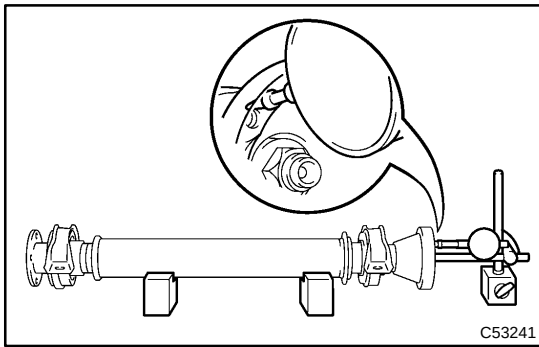
NOTICE:

The dial indicator must be set at right angles to the center of the intermediate shaft.

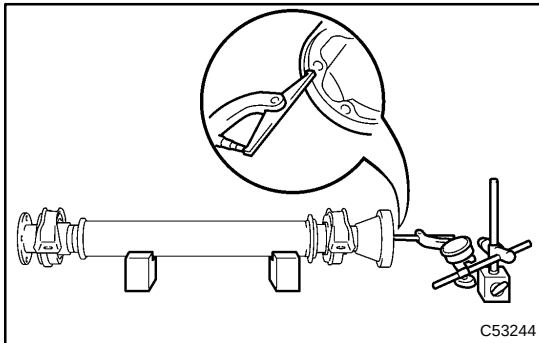


- (b) Using a dial indicator, check the front side of the intermediate shaft flange for the runout.

Maximum runout: 0.1 mm (0.004 in.)



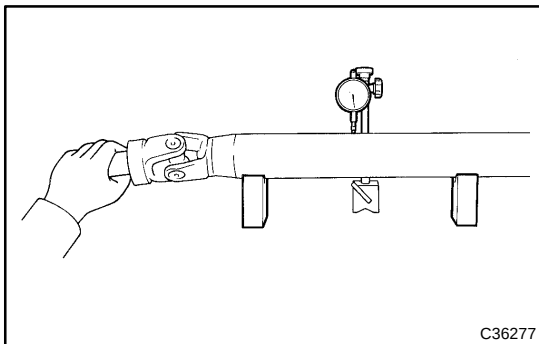
- (c) Using a dial indicator, check the rear side of the intermediate shaft flange for the runout in the horizontal direction.
Maximum runout: 0.1 mm (0.004 in.)



- (d) Using a dial indicator, check the rear side of the intermediate shaft flange for the runout in the vertical direction.
Maximum runout: 0.1 mm (0.004 in.)

HINT:

If the intermediate shaft flange runout exceeds the maximum, replace the intermediate shaft.

**7. INSPECT PROPELLER SHAFT**

- (a) Using a dial indicator, check for the runout of the propeller shaft.

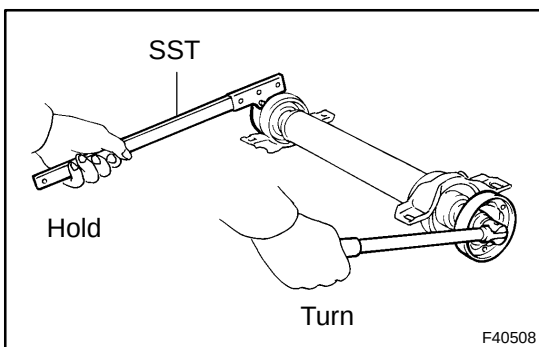
Maximum runout: 0.8 mm (0.031 in.)

HINT:

If the shaft runout exceeds the maximum, replace the propeller shaft.

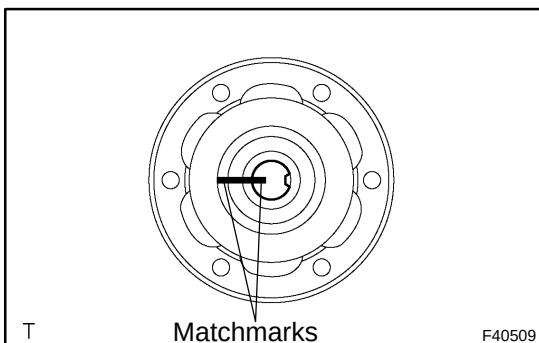
NOTICE:

The dial indicator must be set at right angles to the center of the propeller shaft.

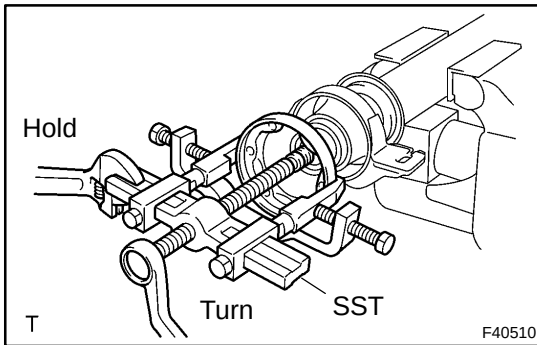
**8. REMOVE CENTER SUPPORT BEARING ASSY NO.2**

- (a) Using a chisel and a hammer, loosen the staked part of the nut.
(b) Using SST to hold the front flange, remove the nut and plate washer.

SST 09330-00021



- (c) Place matchmarks on the rear flange and shaft.

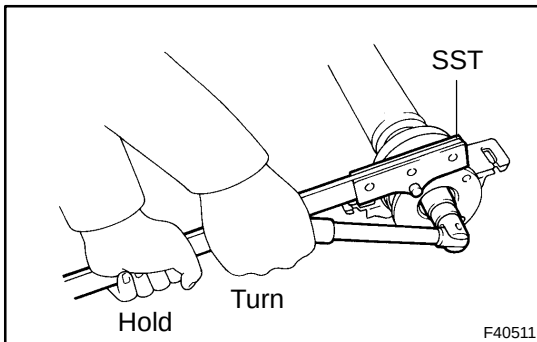


- (d) Using SST, remove the rear flange.
SST 09950- 40011 (09951- 04020, 09952- 04010, 09953- 04030, 09954- 04010, 09955- 04061, 09957-04010, 09958-04011)

NOTICE:

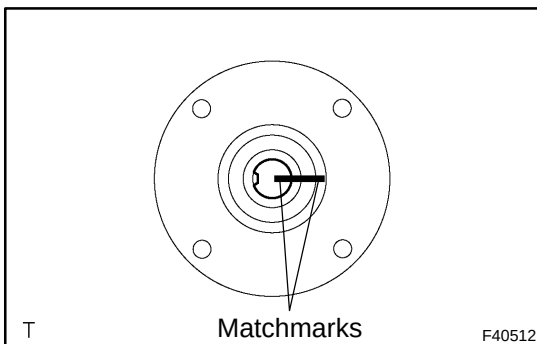
Be careful not to damage the universal joint flange.

- (e) Remove the center support bearing assy No.2 and plate washer.

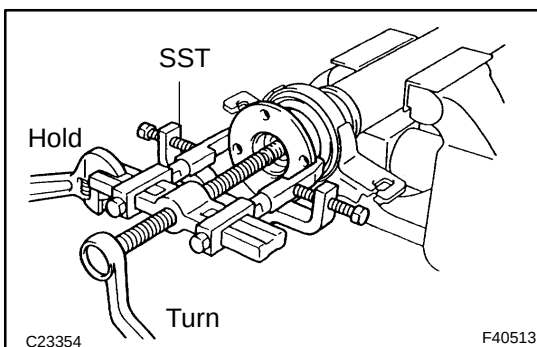


9. REMOVE CENTER SUPPORT BEARING ASSY NO.1

- (a) Using a chisel and a hammer, loosen the staked part of the nut.
(b) Using SST to hold the front flange, remove the nut and plate washer.
SST 09330-00021



- (c) Place matchmarks on the front flange and shaft.

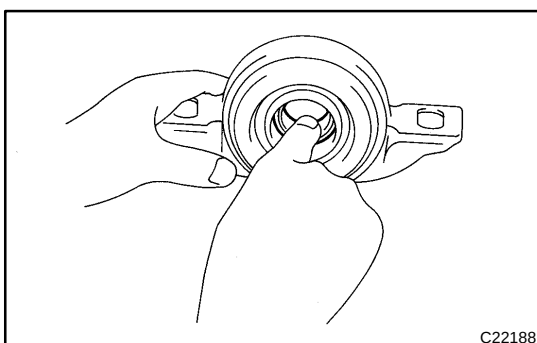


- (d) Using SST, remove the front flange.
SST 09950- 40011 (09951- 04020, 09952- 04010, 09953- 04030, 09954- 04010, 09955- 04061, 09957-04010, 09958-04011)

NOTICE:

Be careful not to damage the universal joint flange.

- (e) Remove the center support bearing assy No.1 and plate washer.



10. INSPECT CENTER SUPPORT BEARING ASSY NO.2

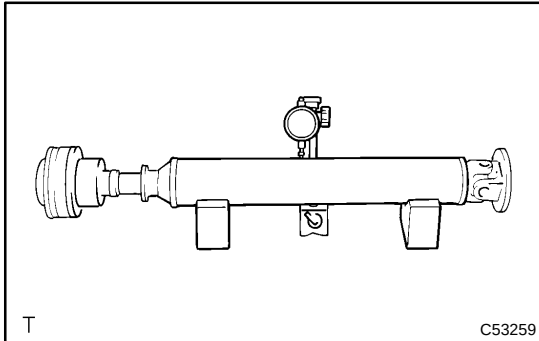
- (a) Turn the bearing by hand with applying force in the direction of rotating. Check the bearing turns smoothly.
(b) Check that the seals and bracket are not cracked or damaged.

HINT:

If the bearing is damaged, worn, or does not turn freely, replace it.

11. INSPECT CENTER SUPPORT BEARING ASSY NO.1

- (a) Inspect the center support bearing assy No.1 by the same procedures as the center support bearing assy No.2.

**12. INSPECT PROPELLER SHAFT**

- (a) Using a dial indicator, check for the runout of the rear propeller shaft.

Maximum runout: 0.8 mm (0.031 in.)

HINT:

If the shaft runout exceeds the maximum, replace the rear propeller shaft.

NOTICE:

The dial indicator must be set at right angles to the center of the propeller shaft.

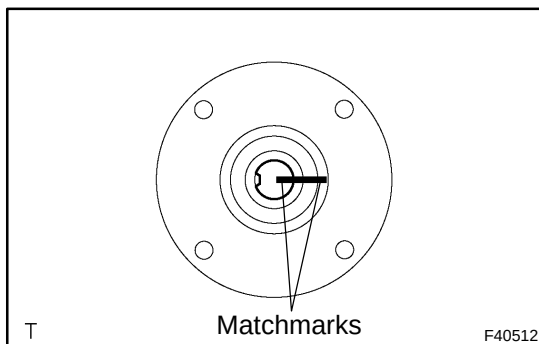
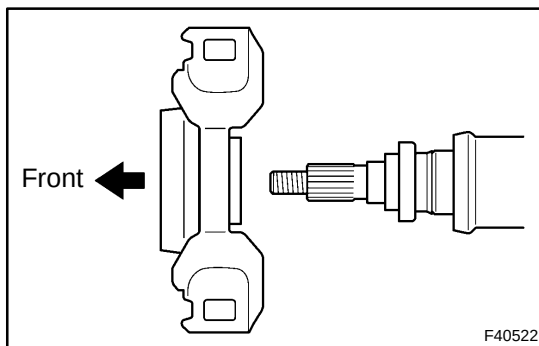
13. INSTALL CENTER SUPPORT BEARING ASSY NO.1

- (a) Set the center support bearing assy No.1 on the intermediate shaft, as shown in the illustration.

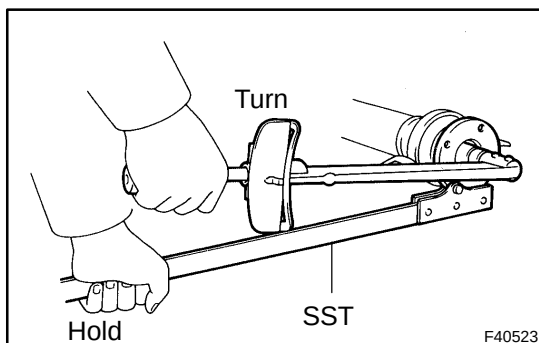
- (b) Install a new washer to the intermediate shaft.

NOTICE:

Be sure to install the bearing in the correct direction.



- (c) Align the matchmarks on the front flange and shaft, and place the flange on the shaft.



- (d) Using SST to hold the front flange, press the center support bearing assy No.1 into the position by tightening down a new nut and plate washer.

SST 09330-00021

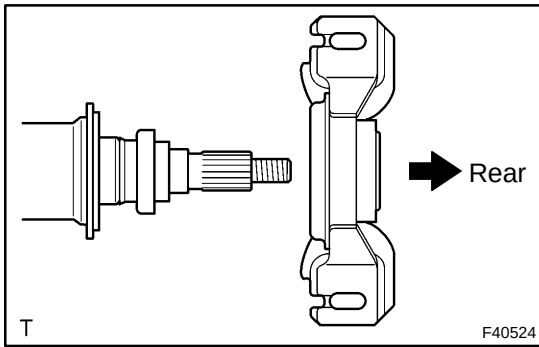
Torque: 181 N·m (1,850 kgf·cm, 134 ft·lbf)

- (e) Loosen the nut.

- (f) Torque the nut again.

Torque: 69 N·m (700 kgf·cm, 51 ft·lbf)

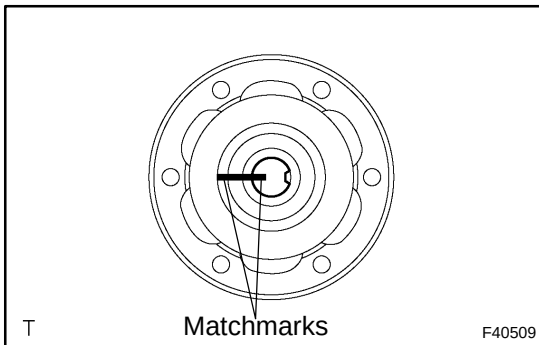
- (g) Using a chisel and a hammer, stake the nut.



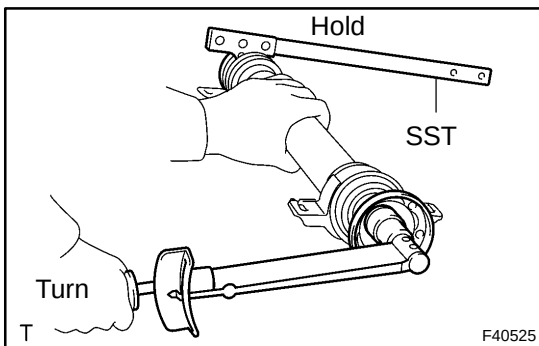
- 14. INSTALL CENTER SUPPORT BEARING ASSY NO.2**
- (a) Set the center support bearing assy No.2 on the shaft as shown in the illustration.
 - (b) Install the plate washer to the shaft.

NOTICE:

Be sure to install the bearing in the correct direction.



- (c) Align the matchmarks on the rear flange and shaft, and place the flange on the shaft.

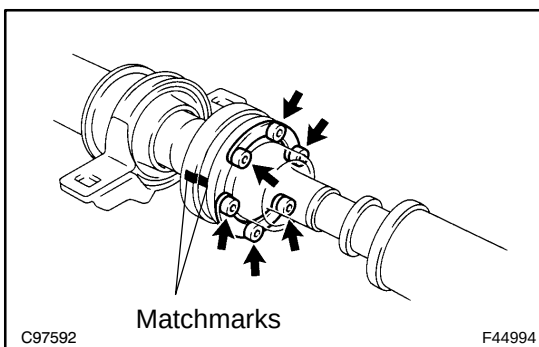


- (d) Using SST to hold the front flange, press the center support bearing assy No.2 into the position by tightening down a new nut and plate washer.

SST 09330-00021

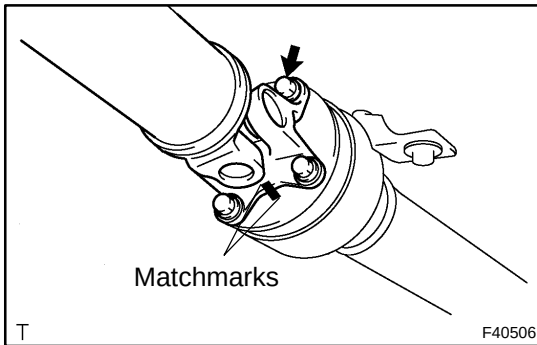
Torque: 181 N·m (1,850 kgf·cm, 134 ft·lbf)

- (e) Loosen the nut.
- (f) Torque the nut again.
- Torque: 69 N·m (700 kgf·cm, 51 ft·lbf)**
- (g) Using a chisel and a hammer, stake the nut.



15. INSTALL INTERMEDIATE SHAFT

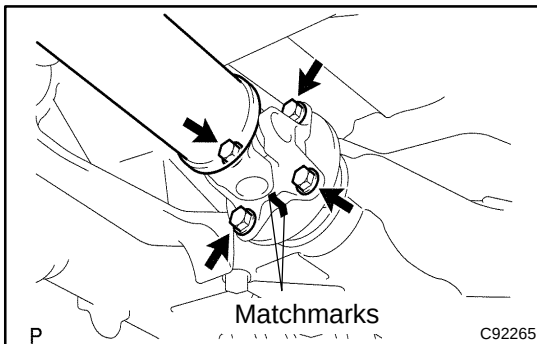
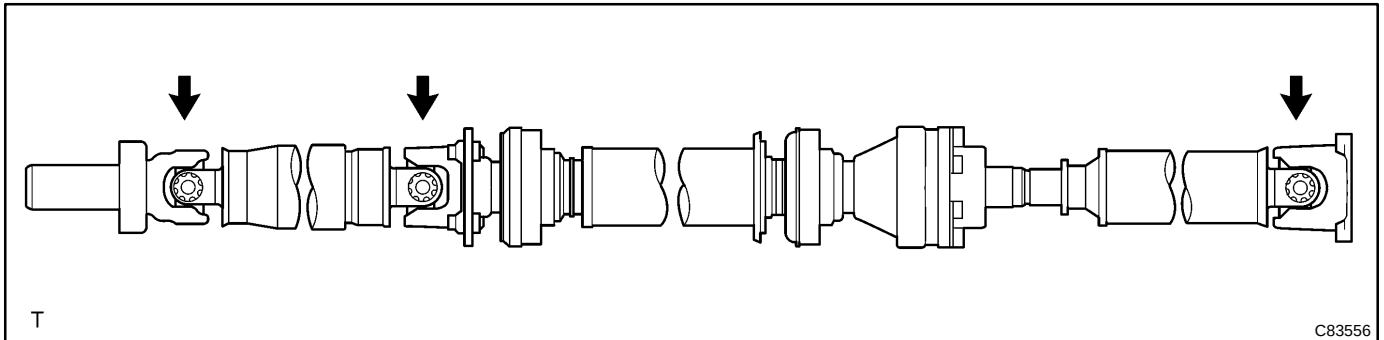
- (a) Align the matchmarks on the intermediate shaft and rear propeller shaft, then install the 2 washers and 6 bolts.
- (b) Using a hexagon wrench (6 mm), tighten the 6 bolts temporarily.

**16. INSTALL PROPELLER SHAFT**

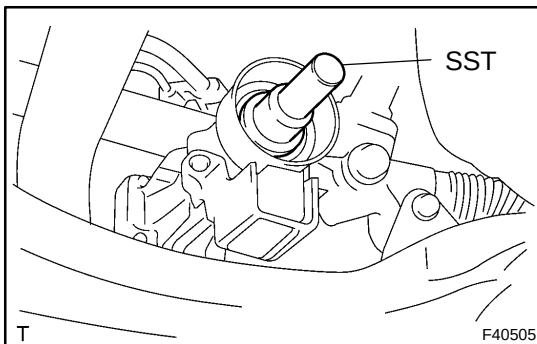
- (a) Align the matchmarks on the propeller shaft flange and differential companion flange, and connect the shaft with the 4 bolts, washers and nuts.

Torque: 74 N·m (750 kgf·cm, 54 ft·lbf)

- (b) Check that the each joint of the propeller shaft is facing in the correct direction, as shown in the illustration.

**17. INSTALL PROPELLER W/CENTER BEARING SHAFT ASSY**

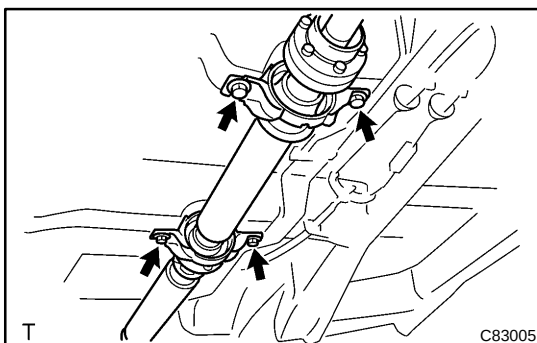
- (a) Align the matchmarks on the propeller shaft flange and differential companion flange, and connect the shaft with the 4 bolts, washers and nuts.



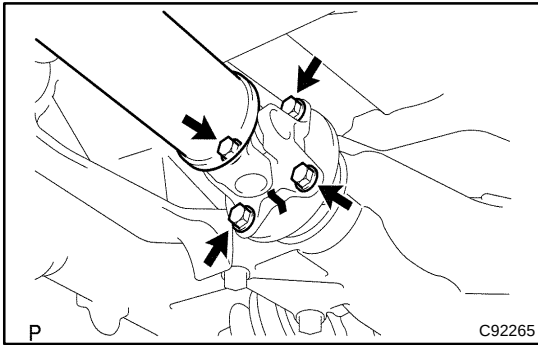
- (b) Remove SST from the extension housing.
(c) Insert the yoke into the extension housing.

NOTICE:

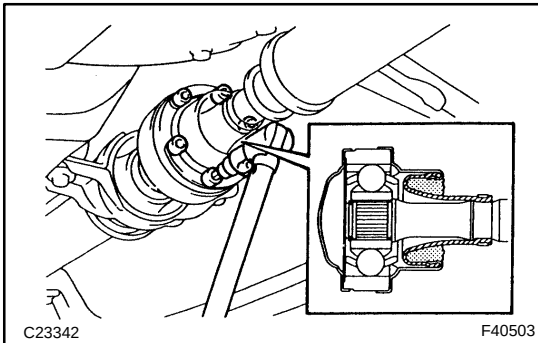
- Be careful not to damage the oil seal.
- Be careful not to damage the universal joint boot when installing the propeller shaft.



- (d) Install the 2 adjusting shims and propeller shaft w/center bearing, and temporarily tighten the 4 bolts.

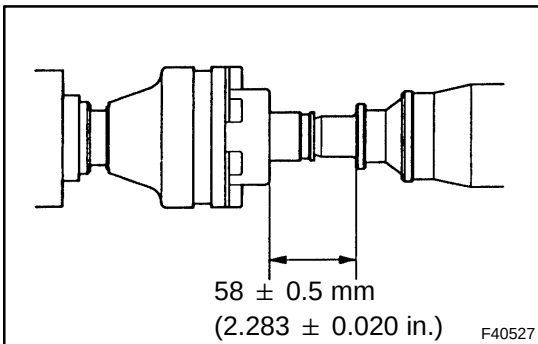


- (e) Tighten the 4 nuts.
Torque: 74 N·m (750 kgf·cm, 54 ft·lbf)

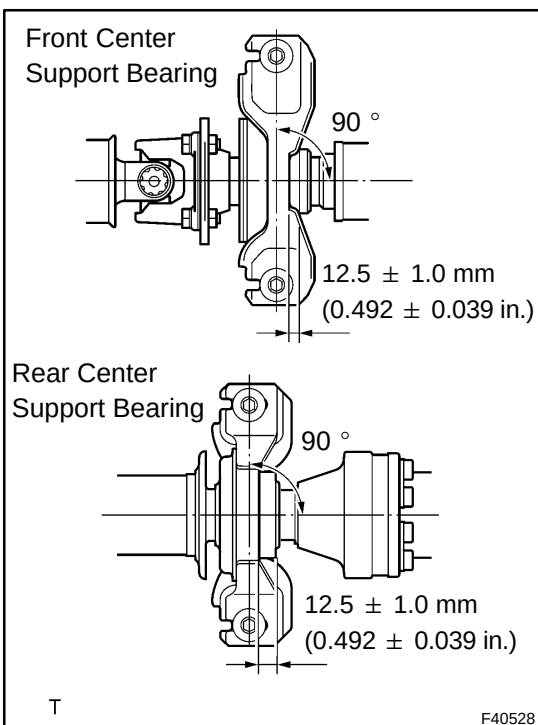


18. FULLY TIGHTEN PROPELLER W/CENTER BEARING SHAFT ASSY

- (a) Remove the shop rag from the joint.
 (b) Using a hexagon wrench (6 mm), tighten the 6 bolts.
Torque: 29 N·m (296 kgf·cm, 21 ft·lbf)



- (c) With the vehicle unloaded, adjust the dimension between the rear side of the cover and shaft, as shown in the illustration.



- (d) Adjust the front and rear dimensions between the edge surface of the center support bearing and the edge surface of the cushion to $12.5 \pm 1.0 \text{ mm}$ ($0.492 \pm 0.039 \text{ in.}$) respectively as shown, then torque the bolts.
Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)
 (e) Check that the center line of the bracket is at right angles to the shaft axial direction.

- (f) If any vibration or noise occurs, perform joint angle check as follows and replace the adjusting shim with a proper one.

- (1) Turn the propeller shaft several times by hand to stabilize the center support bearings.
- (2) Using a jack, raise and lower the differential to stabilize the differential mounting cushion.
- (3) Remove the transfer dynamic damper.
- (4) Using SST, measure the installation angle of the transfer extension housing (A) and front propeller shaft (B).

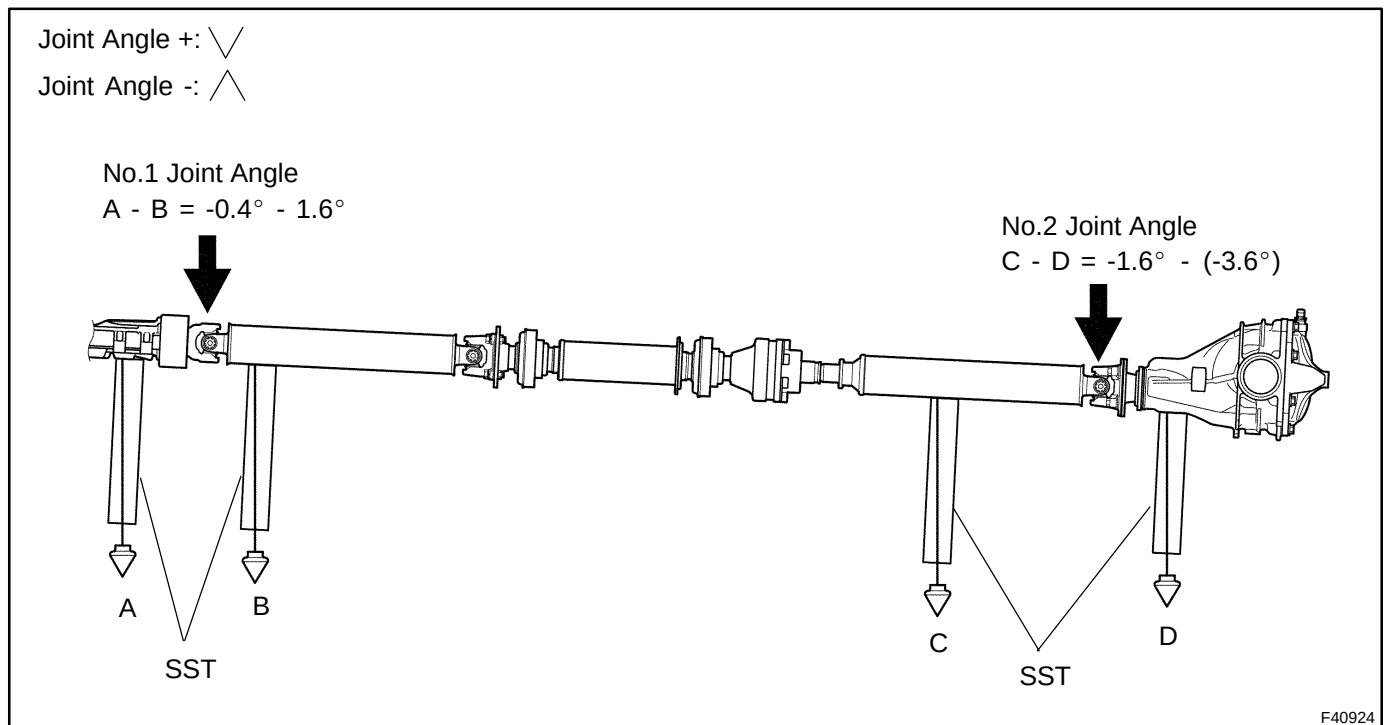
SST 09370-50010

No.1 joint angle: A - B = -0.4° - 1.6°

- (5) Using SST, measure the installation angle of the rear propeller shaft (C) and rear differential (D).

SST 09370-50010

No.2 joint angle: C - D = -1.6° - (-3.6°)



If the measured angle is not within the specification, adjust it with the center support bearing adjusting shim.

Center support bearing adjusting shim thickness:

Thickness mm (in.)	Thickness mm (in.)
3.2 (0.126)	4.5 (0.177)
6.5 (0.256)	9.0 (0.354)

- (g) Install the transfer dynamic damper.

Torque: 26 N·m (260 kgf·cm, 19 ft·lbf)

19. INSTALL EXHAUST PIPE ASSY (See page 15-6)

20. CHECK FOR EXHAUST GAS LEAKS

OVERHAUL

HINT:

- COMPONENTS: See page 30-31
- Overhaul the RH side by the same procedures as the LH side.

1. REMOVE REAR WHEEL

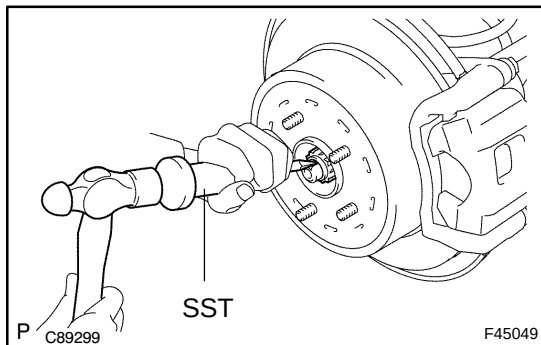
2. REMOVE EXHAUST PIPE ASSY TAIL (See page 15-6)

3. REMOVE SPEED SENSOR REAR LH

- Remove the bolt and ABS speed sensor from the axle carrier.

NOTICE:

- Be careful not to damage the speed sensor.
- Prevent foreign matter from attaching to the speed sensor.

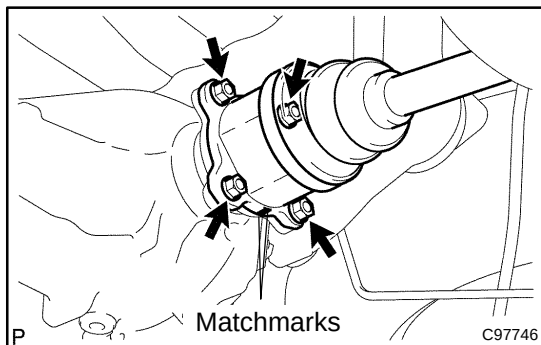


4. REMOVE REAR AXLE SHAFT LH NUT

- Using SST and a hammer, unstake the staked part of the nut.

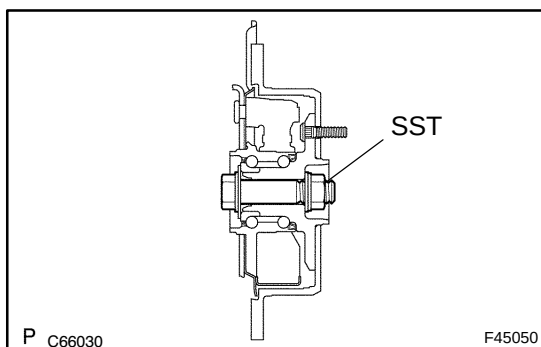
SST 09930-00010

- While applying the brakes, remove the lock nut.



5. REMOVE REAR DRIVE SHAFT ASSY LH

- Place matchmarks on the drive shaft and differential side gear shaft.
- Remove the 4 nuts and washers, and disconnect the drive shaft from the differential side gear shaft.
- Remove the drive shaft from the axle carrier.

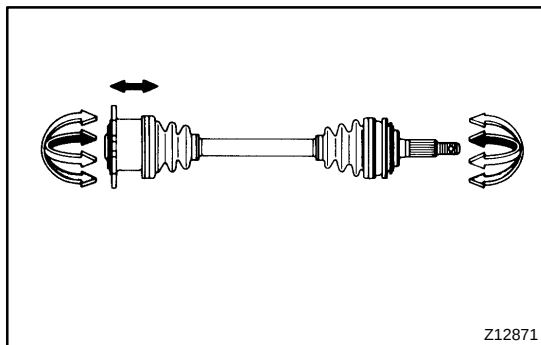


6. FIX REAR AXLE ASSY LH

NOTICE:

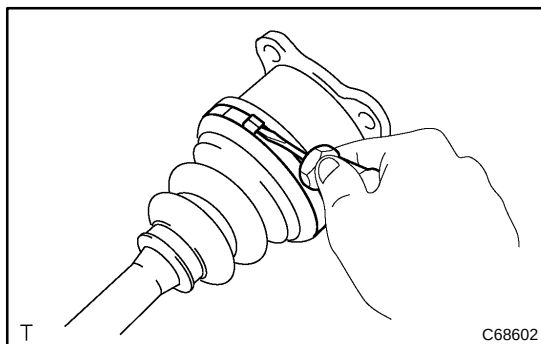
- After disconnecting the drive shaft from the axle hub, work carefully so as not to damage the ABS speed sensor rotor serration on the drive shaft.
- The hub bearing could be damaged if it is subjected to the vehicle weight, such as when moving the vehicle with the drive shaft removed. Therefore, if it is absolutely necessary to place the vehicle weight on the hub bearing, first support it with SST.

SST 09608-16042 (09608-02021, 09608-02041)



7. INSPECT REAR DRIVE SHAFT ASSY LH

- Check that there is no remarkable play in the radial direction of the outboard joint.
- Check that the inboard joint slides smoothly in the thrust direction.
- Check that there is no remarkable play in the radial direction of the inboard joint.
- Check the boots for damage.

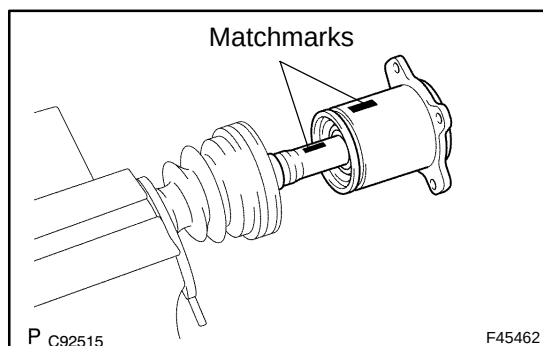


8. SEPARATE REAR DRIVE SHAFT INBOARD JOINT BOOT NO.2 CLAMP

- Using a screwdriver, remove the inboard joint boot No.2 clamp.
- Remove the inboard joint boot clamp by the same procedures as the inboard joint boot No.2 clamp.

9. SEPARATE RR DRIVE SHAFT INBOARD JOINT BOOT

- Remove the inboard joint boot from the inboard joint assy.



10. REMOVE REAR DRIVE SHAFT INBOARD JOINT ASSY

- Remove the circlip, place matchmarks on the inboard joint assy and outboard joint shaft.

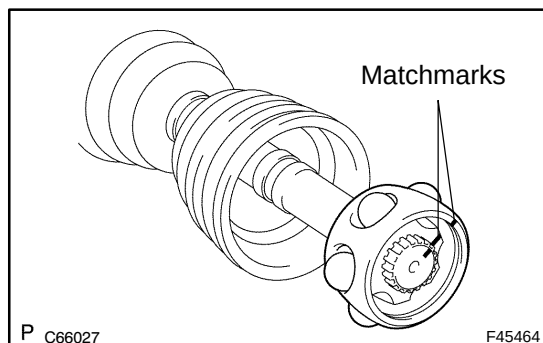
NOTICE:

Do not punch the marks.

- Pull out the inboard joint assy.

NOTICE:

Be careful not to drop the balls.

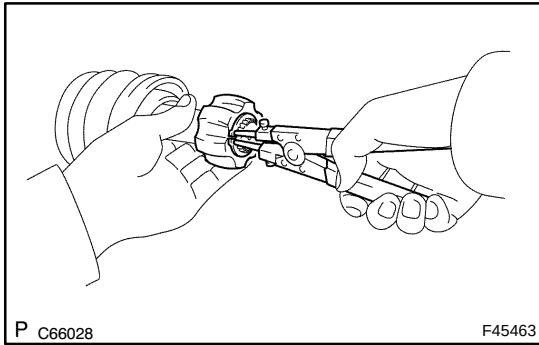


- Place matchmarks on the outboard joint shaft, inner race and cage.

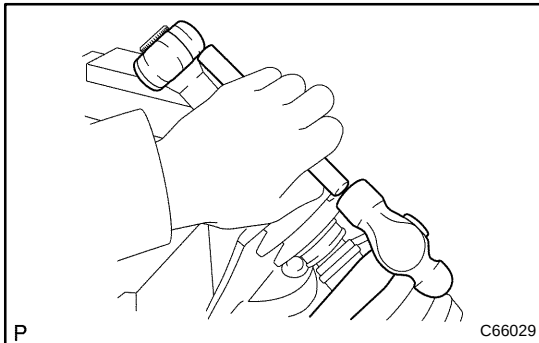
NOTICE:

Do not punch the marks.

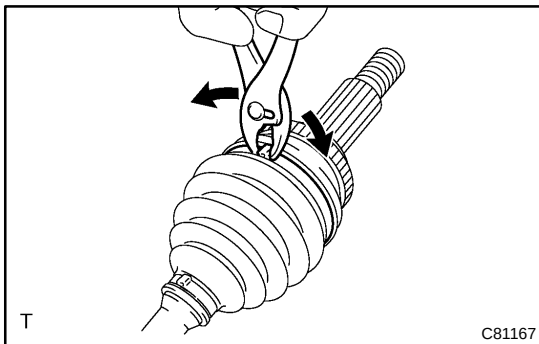
- Remove the 6 bolts.
- Slide the cage toward outboard joint.



- (f) Using a snap ring expander, remove the snap ring.



- (g) Using a brass bar and hammer, remove the inner race.
 (h) Remove the cage.
 (i) Remove the inboard joint boot, inboard joint boot clamp and inboard joint boot No.2 clamp.



11. SEPARATE REAR DRIVE SHAFT OUTBOARD JOINT BOOT NO. 2 CLAMP

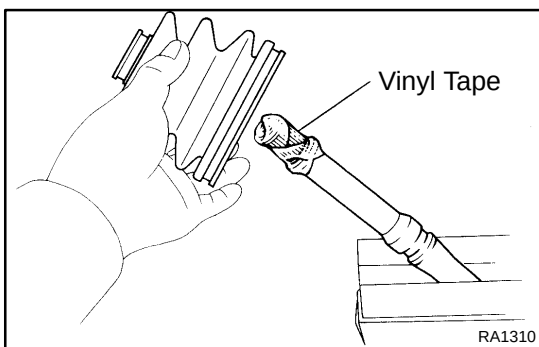
- (a) Using pliers, remove the outboard joint boot No.2 clamp.
 (b) Remove the outboard joint boot clamp by the same procedures as the outboard joint boot No.2 clamp.

12. REMOVE RR DRIVE SHAFT OUTBORD JOINT BOOT

- (a) Remove the outboard joint boot from the outboard joint shaft assy.
 (b) Remove the old grease from the outboard joint.

NOTICE:

Do not disassemble the outboard joint.



13. INSTALL RR DRIVE SHAFT OUTBORD JOINT BOOT

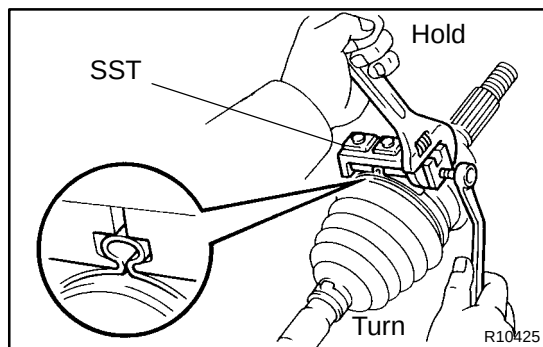
HINT:

Before installing the boots, wrap the spline of the outboard joint shaft with vinyl tape to prevent the boots from being damaged.

- (a) Install the outboard joint boot, 2 outboard joint boot clamps.
 (b) Before assembling the boots, pack the outboard joint and boot with grease in the boot kit.

Grease capacity: 90 - 110 g (3.2 - 3.9 oz.)

- (c) Make sure that the 2 boots are on the shaft groove.

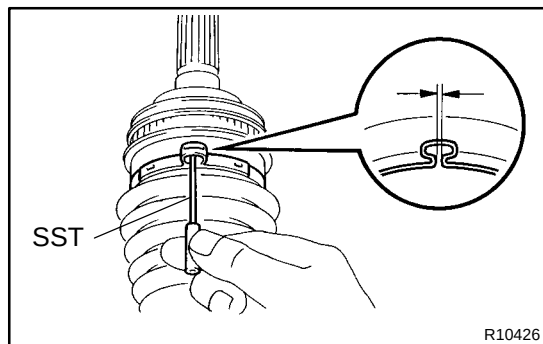


14. INSTALL REAR DRIVE SHAFT OUTBOARD JOINT BOOT NO. 2 CLAMP

- Hold the drive shaft in a soft vise.
- Secure the 2 outboard joint boot clamps onto the boot.
- Place SST onto the outboard joint large boot clamp.
- Tighten the SST so that the large clamp is pinched.

NOTICE:

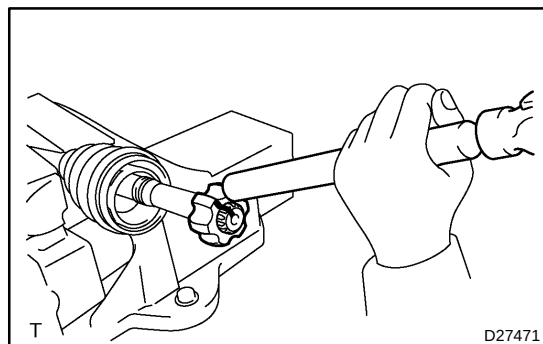
Do not overtighten the SST.



- Using SST, adjust the clearance of the large clamp.

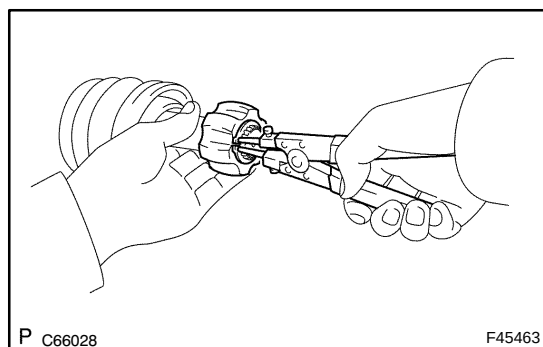
SST 09240-00020
Clearance: 1.2 - 4.0 mm (0.047 - 0.157 in.)

- Install the outboard joint boot clamp by the same procedures as the outboard joint boot No.2 clamp.

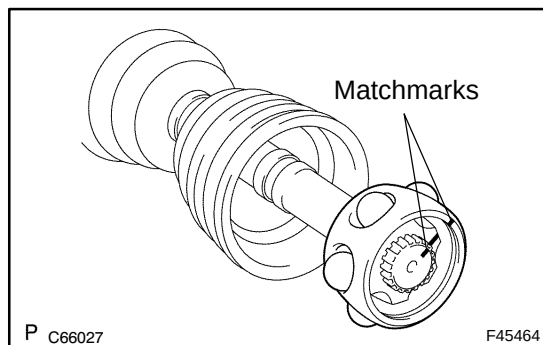


15. INSTALL REAR DRIVE SHAFT INBOARD JOINT ASSY

- Through a new inboard joint boot, 2 new inboard joint clamps and cage.
- Align the matchmarks, using a brass bar and a hammer, install the inner race.

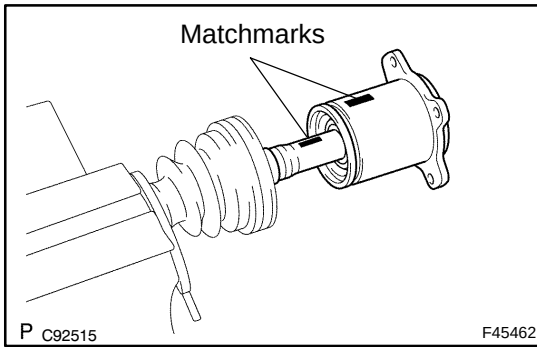


- Using a snap ring expander, install a new rear drive shaft snap ring.



- Align the matchmarks, install the cage to the inner race.
- Install the 6 balls with grease to the inner race.
- Pack the inboard joint shaft and boot with grease in the boot kit.

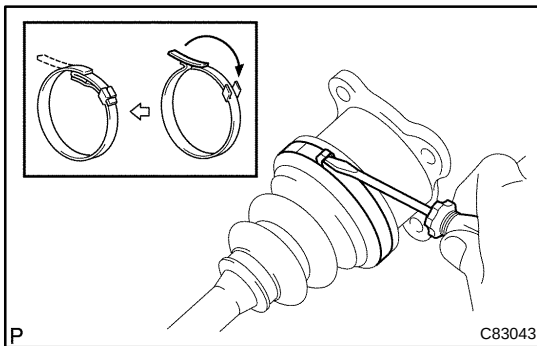
Grease capacity: 130 - 150g (4.6 - 5.3 oz.)



- (g) Align the matchmarks, install the inboard joint assy to the outboard joint shaft assy.
- (h) Install the circlip.

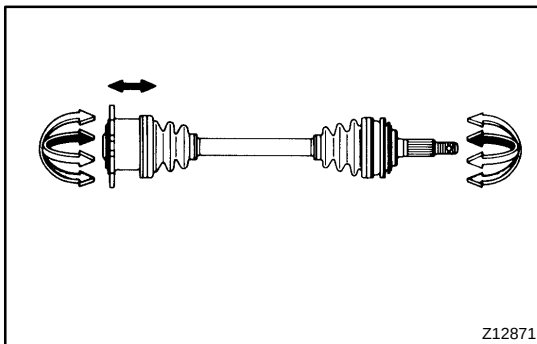
16. INSTALL RR DRIVE SHAFT INBOARD JOINT BOOT

- (a) Install the inboard joint boot to the inboard joint assy.



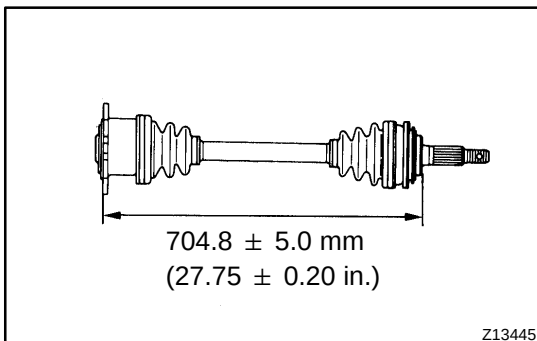
17. INSTALL REAR DRIVE SHAFT INBOARD JOINT BOOT NO.2 CLAMP

- (a) Using a screwdriver, install the inboard joint boot No.2 clamp.
- (b) Install the inboard joint boot clamp by the same procedures as the inboard joint boot No.2 clamp.



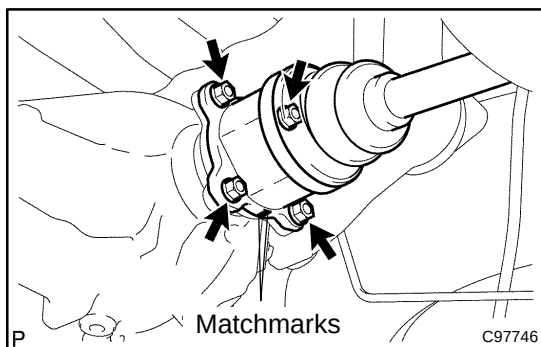
18. INSPECT REAR DRIVE SHAFT ASSY LH

- (a) Check that there is no remarkable play in the radial direction of the outboard joint.
- (b) Check that the inboard joint slides smoothly in the thrust direction.
- (c) Check that there is no remarkable play in the radial direction of the inboard joint.
- (d) Check the boots for damage.



- (e) Make sure that the 2 boots are not stretched or contracted when the drive shaft is at standard length.

Standard length: 704.8 ± 5.0 mm (27.748 ± 0.20 in.)

**19. INSTALL REAR DRIVE SHAFT ASSY LH**

- (a) Install the drive shaft to the axle carrier.

NOTICE:

Be careful not to damage the boots and ABS speed sensor rotor to the drive shaft and oil seal of the axle hub bearing.

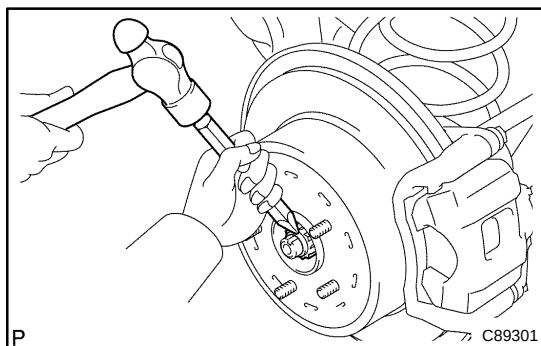
- (b) Align the matchmarks and connect the drive shaft to the side gear shaft.

NOTICE:

Be careful not to damage the boots and end cover.

- (c) Install the drive shaft with the 4 nuts and washers.

Torque: 56 N·m, (571 kgf·cm, 41 ft·lbf)

**20. INSTALL REAR AXLE SHAFT LH NUT**

- (a) Install a new axle shaft LH nut.

Torque: 216 N·m, (2,200 kgf·cm, 159 ft·lbf)

- (b) Using a chisel and hammer, stake the axle shaft LH nut.
SST 09930-00010

21. INSTALL EXHAUST PIPE ASSY TAIL (See page 15-6)**22. INSTALL SPEED SENSOR REAR LH**

- (a) Install the speed sensor with the bolt.

Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)

NOTICE:

- Be careful not to damage the speed sensor.
- Prevent foreign matter from attaching to the speed sensor.
- Do not twist the sensor wire when installing the sensor.

23. INSTALL REAR WHEEL

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

24. CHECK FOR EXHAUST GAS LEAKS**25. CHECK ABS SPEED SENSOR SIGNAL**

- (a) ABS WITH EBD & BA & TRAC & VSC SYSTEM (See page 05-435)

OVERHAUL

HINT:

- COMPONENTS: See page 30-15
- Overhaul the RH side by the same procedures as the LH side.

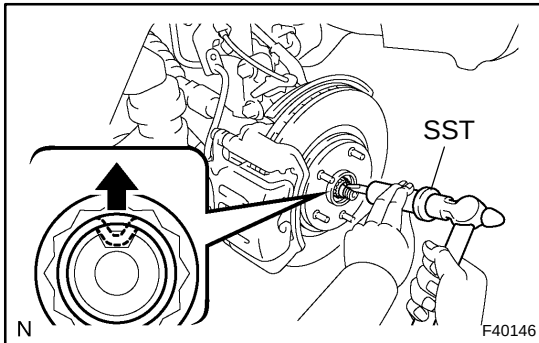
1. DRAIN AUTOMATIC TRANSAXLE FLUID (See page 40-9)

2. DRAIN TRANSFER OIL (4WD DRIVE TYPE) (See page 31-9)

HINT:

Perform the procedure only when removing the RH side.

3. REMOVE FRONT WHEEL

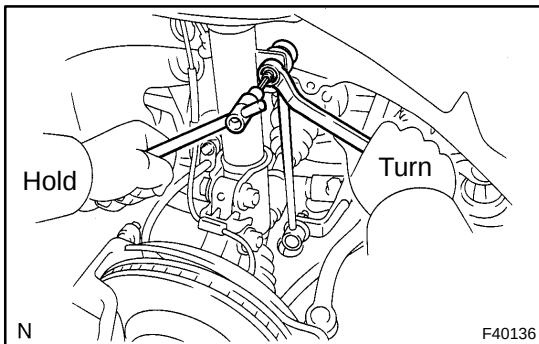


4. REMOVE FRONT AXLE HUB LH NUT

- Using SST and a hammer, unstack the staked part of the axle hub LH nut.
SST 09930-00010
- While applying the brakes, remove the lock axle hub LH nut.

NOTICE:

Loosen the staked part of the nut completely, otherwise the screw of the drive shaft may be damaged.

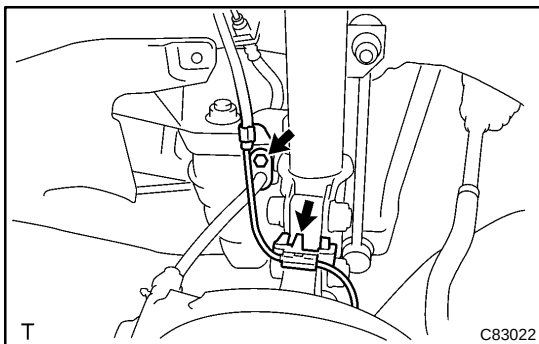


5. SEPARATE FRONT STABILIZER LINK ASSY LH

- Remove the nut, separate the stabilizer link assy LH.

HINT:

If the ball joint turns together with the nut, use a hexagon wrench (6 mm) to hold the stud.

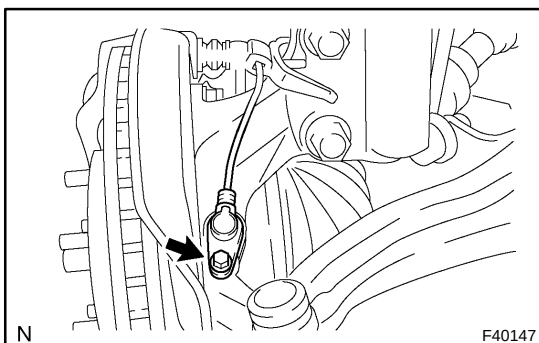


6. SEPARATE SPEED SENSOR FRONT LH

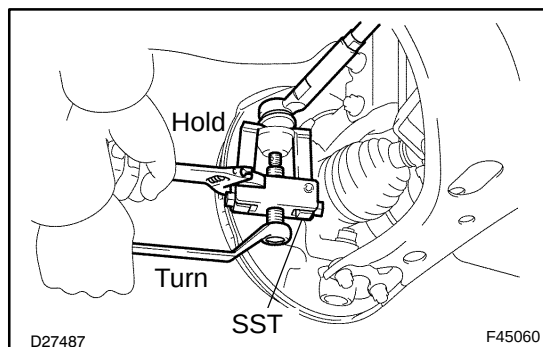
- Remove the bolt and clip, and separate the sensor wire and flexible hose from the shock absorber.

NOTICE:

- Be careful not to damage the speed sensor.
- Prevent foreign matter from being attaching to the speed sensor.



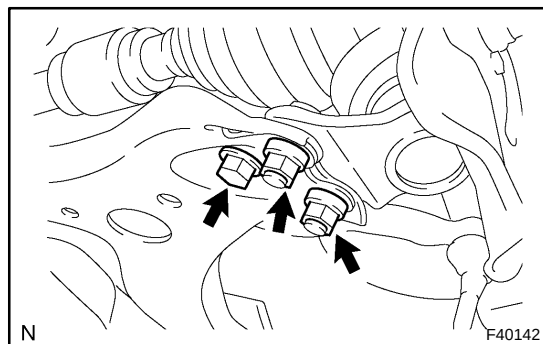
- Remove the bolt, and separate the speed sensor front LH from the steering knuckle.



7. SEPARATE TIE ROD ASSY LH

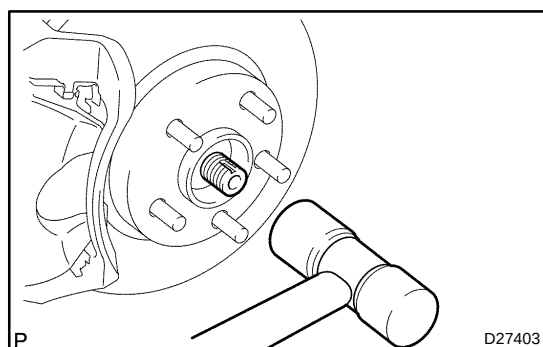
- Remove the cotter pin and nut.
- Using SST, separate the tie rod end from the steering knuckle.

SST 09628-6201 1



8. SEPARATE FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH

- Remove the bolt and 2 nuts, and separate the front suspension arm sub-assy lower from the lower ball joint.

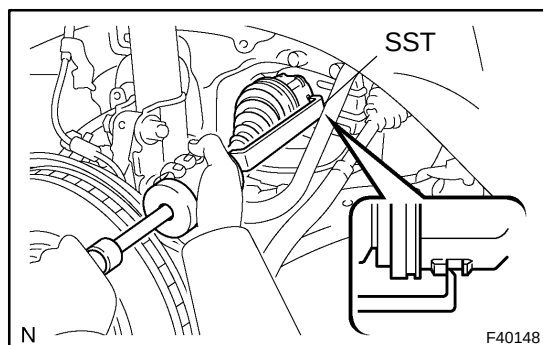


9. SEPARATE FRONT AXLE ASSY LH

- Using a plastic hammer, separate the drive shaft from the axle hub.

NOTICE:

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

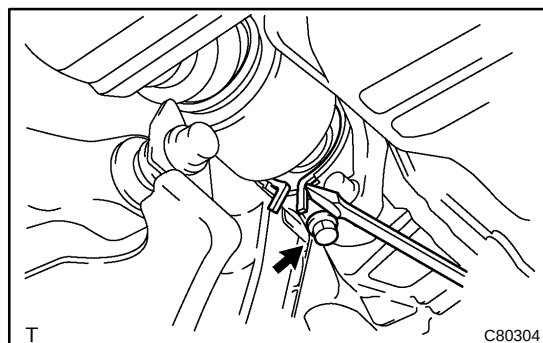


10. REMOVE FRONT DRIVE SHAFT ASSY LH

- Using SST, remove the front drive shaft assy LH.
SST 09520-01010, 09520-24010 (09520-32040)

NOTICE:

- Be careful not to damage the oil seal boot and dust cover.
- Be careful not to drop the drive shaft assy.



11. REMOVE FRONT DRIVE SHAFT ASSY RH (2WD DRIVE TYPE)

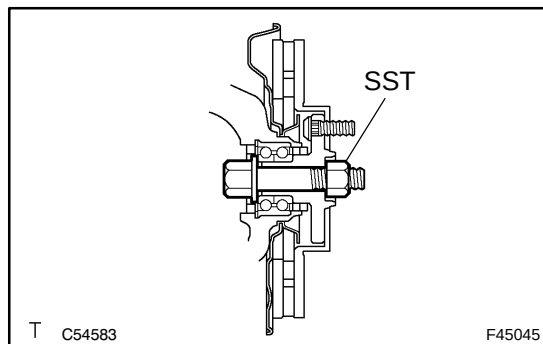
- Using a screwdriver, remove the drive shaft bearing bracket hole snap ring.
- Remove the bolt and front drive shaft assy RH from the drive shaft bearing bracket.

12. REMOVE FRONT DRIVE SHAFT ASSY RH (4WD DRIVE TYPE)**HINT:**

Overhaul the RH side by the same procedures as the LH side.

NOTICE:

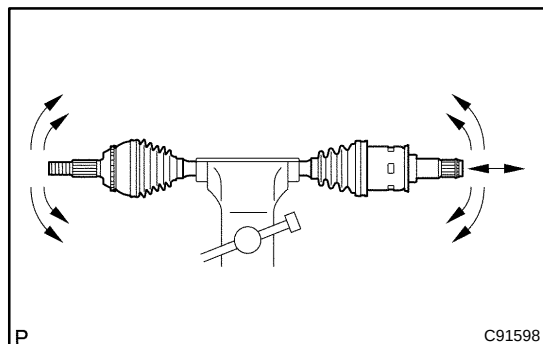
- When removing and installing the front drive shaft assy RH in the 4WD vehicle, drain all the transaxle oil and transfer oil. If the removal and installation is performed without draining these oils, the transfer oil will flow into the transaxle side, which will mix these 2 different oils. In this case, cleaning the inside of the transaxle and the transfer is required.
- Do not damage the oil seal and dust cover.

**13. FIX FRONT AXLE ASSY LH****NOTICE:**

The hub bearing could be damaged if it is subjected to the vehicle weight, such as when moving the vehicle with the drive shaft removed.

Therefore, if it is absolutely necessary to place the vehicle weight on the hub bearing, first support it with SST.

SST 09608-16042 (09608-02021, 09608-02041)

**14. INSPECT FRONT DRIVE SHAFT ASSY LH**

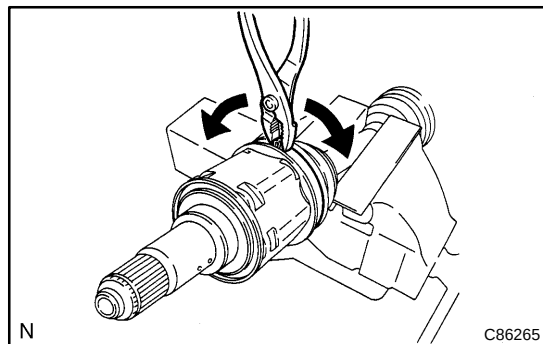
- Check that there is no remarkable play in the radial direction of the outboard joint.
- Check that the inboard joint slides smoothly in the thrust direction.
- Check that there is no remarkable play in the radial direction of the inboard joint.
- Check the boots for damage.

NOTICE:

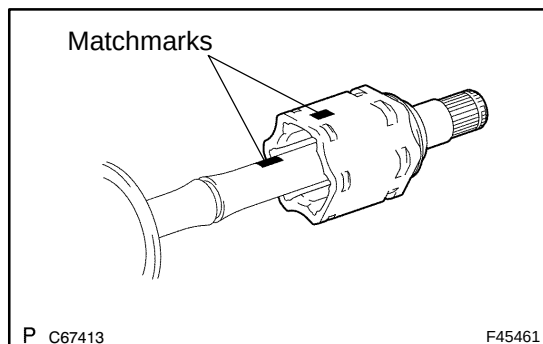
Keep the driver shaft level during the inspection.

15. REMOVE FRONT AXLE INBOARD JOINT BOOT CLAMP

- Using pliers, remove the inboard joint boot LH No.2 clamp, as shown in the illustration.
- Remove the inboard joint boot LH clamp by the same procedures as the inboard joint boot LH No.2 clamp.

**16. SEPARATE FR AXLE INBOARD JOINT BOOT**

- Remove the inboard joint boot from the inboard joint shaft.



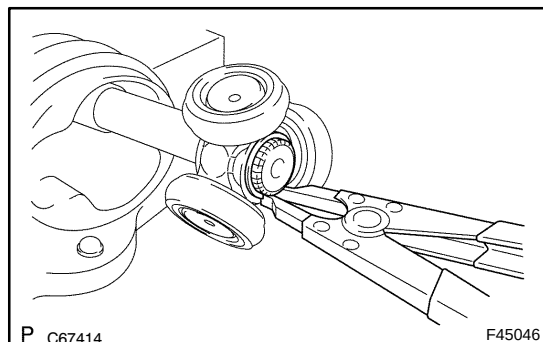
17. REMOVE FRONT DRIVE INBOARD JOINT ASSY LH

- (a) Place matchmarks on the inboard joint assy and outboard joint shaft.

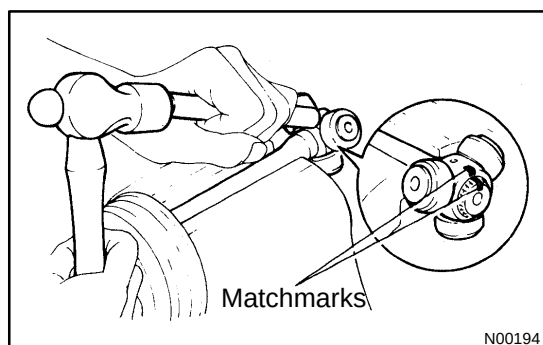
NOTICE:

Do not punch the marks.

- (b) Remove the inboard joint assy from the outboard joint shaft.



- (c) Using a snap ring expander, remove the shaft snap ring.



- (d) Place matchmarks on the outboard joint shaft and tripod joint.

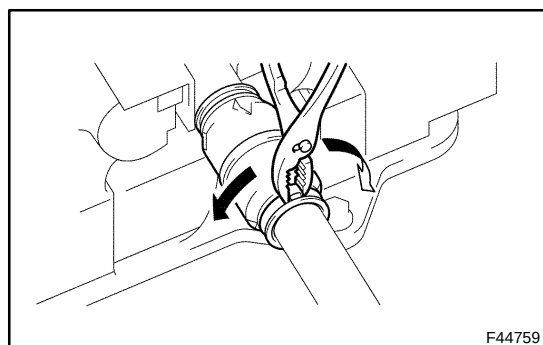
NOTICE:

Do not punch the marks.

- (e) Using a brass bar and hammer, remove the tripod joint from the outboard joint shaft.

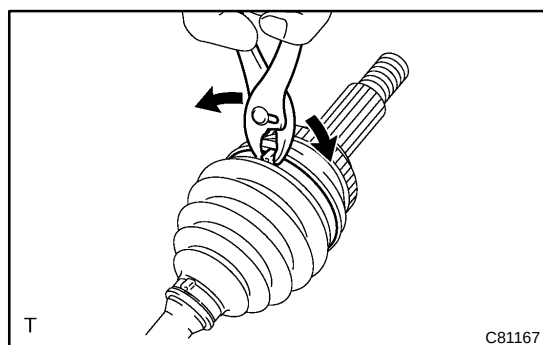
NOTICE:

Do not tap the roller.



18. REMOVE FRONT DRIVE SHAFT DAMPER LH

- (a) Using pliers, remove the drive shaft damper clamp, as shown in the illustration.
- (b) Remove the drive shaft damper.

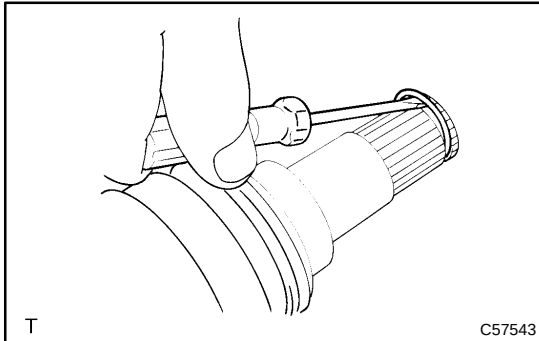


19. REMOVE FRONT AXLE OUTBOARD JOINT BOOT CLAMP

- (a) Using pliers, remove the outboard joint boot LH No.2 clamp, as shown in the illustration.
- (b) Remove the outboard joint boot LH clamp by the same procedures as the outboard joint boot LH No.2 clamp.

20. REMOVE OUTBOARD JOINT BOOT

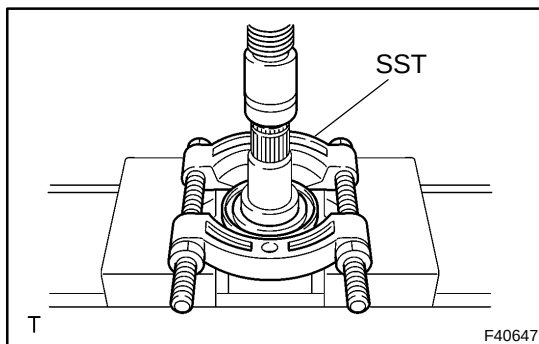
- (a) Remove the outboard joint boot from the outboard joint shaft.
- (b) Remove the old grease from the outboard joint.

**21. REMOVE FRONT DRIVE SHAFT LH HOLE SNAP RING**

- (a) Using a screwdriver, remove the hole snap ring.

HINT:

Except 2WD (RH)

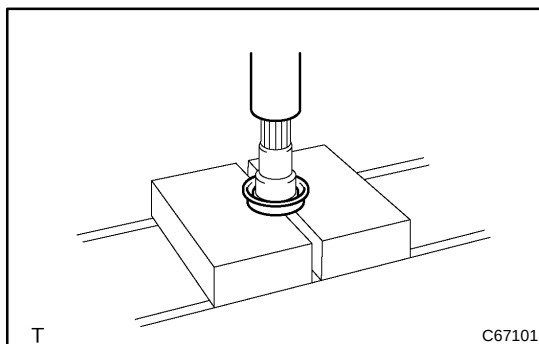
**22. REMOVE FRONT DRIVE SHAFT DUST COVER LH**

- (a) Using SST and a press, remove the drive shaft dust cover LH.

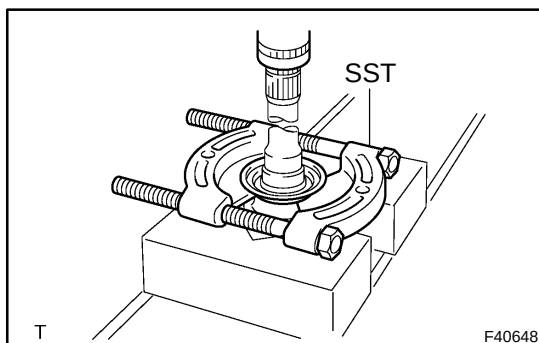
SST 09950-00020

NOTICE:

Be careful not to drop the inboard joint assy.

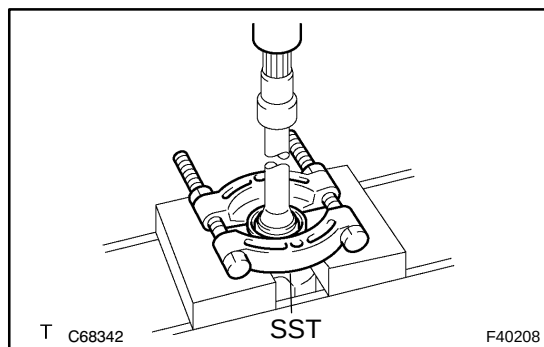
**23. REMOVE FRONT DRIVE SHAFT DUST COVER RH (2WD DRIVE TYPE)**

- (a) Using a press, remove the drive shaft dust cover RH.

**24. REMOVE FRONT DRIVE SHAFT DUST COVER RH (4WD DRIVE TYPE)**

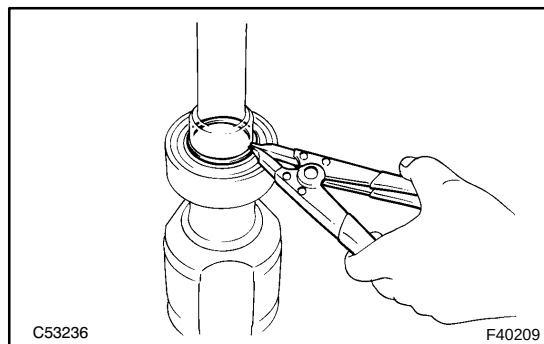
- (a) Using SST and a press, remove the driver shaft dust cover RH.

SST 09950-00020



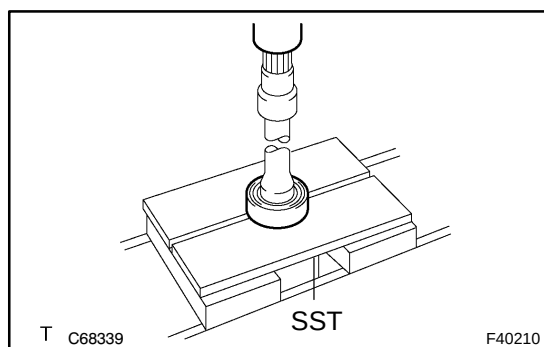
25. REMOVE FRONT DRIVE SHAFT DUST COVER (2WD DRIVE TYPE)

- (a) Using SST and a press, remove the drive shaft dust cover.
SST 09950-00020



26. REMOVE FRONT DRIVE SHAFT BEARING (2WD DRIVE TYPE)

- (a) Using a snap ring expander, remove the hole snap ring.

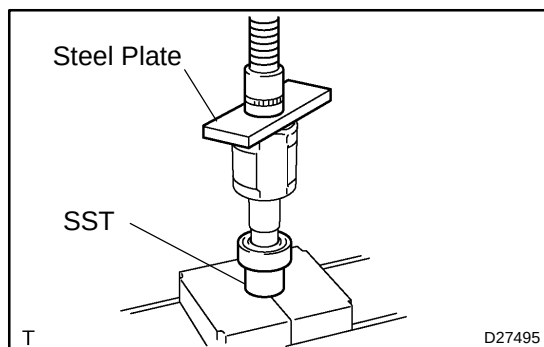


- (b) Using SST and a press, remove the bearing.
SST 09527-1001 1

- (c) Remove the bearing bracket hole snap ring.

NOTICE:

Be careful not to drop the inboard joint assy.



27. INSTALL FRONT DRIVE SHAFT BEARING (2WD DRIVE TYPE)

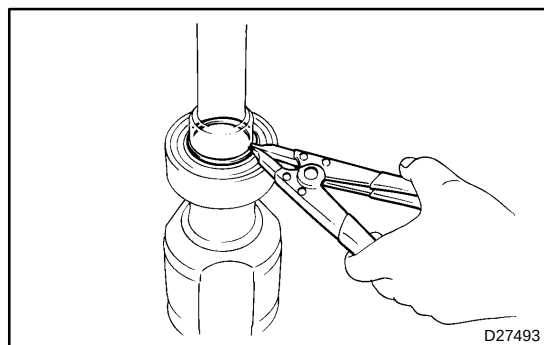
- (a) Install a new bearing bracket hole snap ring on the front drive shaft assy RH.

- (b) Using SST and a steel plate, install a new front drive shaft bearing.

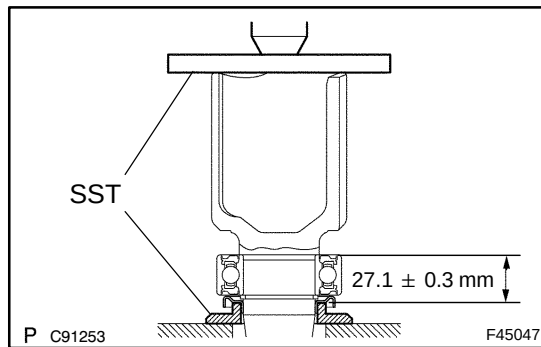
SST 09710-30021 (09710-03141)

NOTICE:

Bearing should be installed completely.



- (c) Using a snap ring expander, install a new hole snap ring.



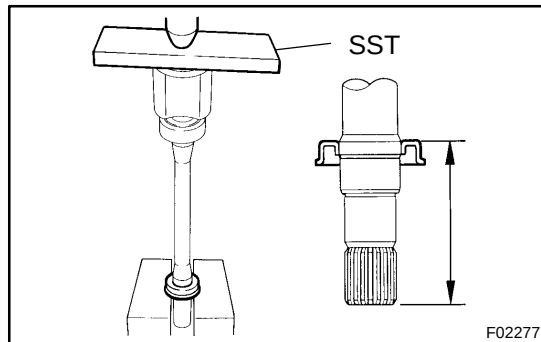
28. INSTALL FRONT DRIVE SHAFT DUST COVER (2WD DRIVE TYPE)

- (a) Using SST and a press, install a new drive shaft dust cover.

SST 09726-40010, 09527-10011

NOTICE:

- Dust cover should be installed completely.
- Be careful not to damage the dust cover.



29. INSTALL FRONT DRIVE SHAFT DUST COVER RH (2WD DRIVE TYPE)

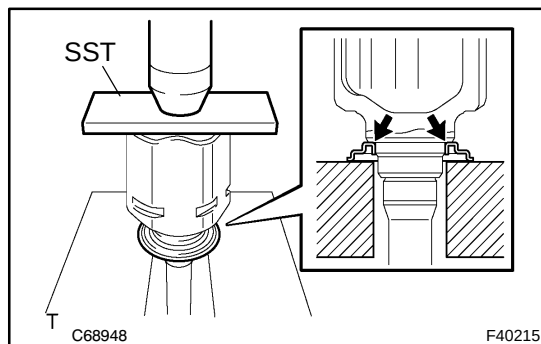
- (a) Using SST and a press, install a new drive shaft dust cover RH until the distance from the tip of center drive shaft to the drive shaft dust cover RH reaches the specification, as shown in the illustration.

SST 09527-1001 1

Distance: 109.5 mm (4.311 in.)

NOTICE:

- Dust cover should be installed completely.
- Be careful not to damage the dust cover.



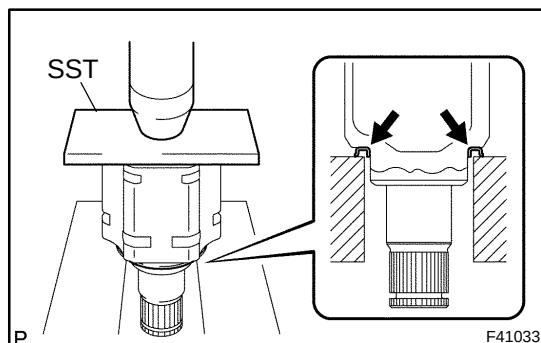
30. INSTALL FRONT DRIVE SHAFT DUST COVER RH (4WD DRIVE TYPE)

- (a) Using SST and a press, install a new drive shaft dust cover RH.

SST 09527-1001 1

NOTICE:

- Dust cover should be installed completely.
- Be careful not to damage the dust cover.



31. INSTALL FRONT DRIVE SHAFT DUST COVER LH

- (a) Using SST and a press, install a new drive shaft dust cover LH.

SST 09527-1001 1

NOTICE:

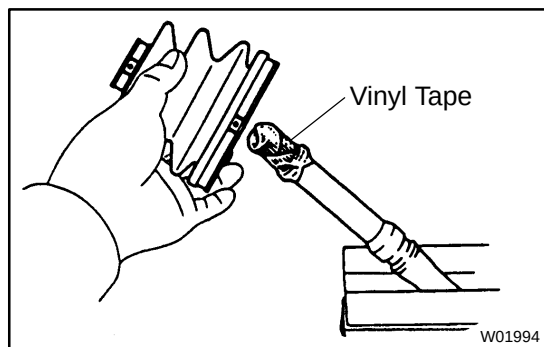
- Dust cover should be installed completely.
- Be careful not to damage the dust cover.

32. INSTALL FRONT DRIVE SHAFT LH HOLE SNAP RING

- (a) Install a new hole snap ring.

HINT:

Except 2WD (RH)



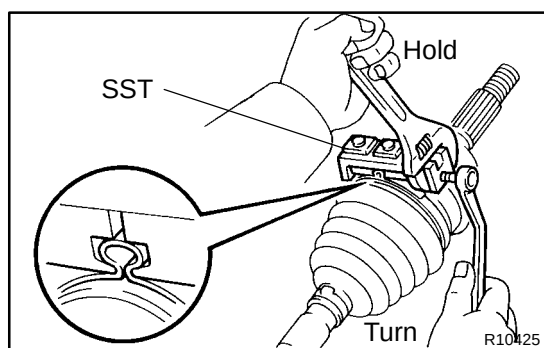
33. INSTALL OUTBOARD JOINT BOOT

HINT:

Before installing the boots, wrap the spline of the drive shaft with vinyl tape to prevent the boots from being damaged.

- Temporarily install a new outboard joint boot with 2 clamps to the drive shaft.
- Pack the outboard joint shaft and boot with grease in the boot kit.

Drive type	Grease capacity g (oz.)
2WD	35 - 55 g (1.2 - 1.9 oz.)
4WD	40 - 60 g (1.4 - 2.1 oz.)



34. INSTALL FRONT AXLE OUTBOARD JOINT BOOT CLAMP

- Hold the drive shaft in a soft vise.
- Secure the 2 outboard joint boot clamps onto the boot.
- Place SST onto the outboard joint large boot clamp.

SST 09521-24010

Clearance: 0.8 mm (0.031 in.) or less

- Tighten the SST so that the large clamp is pinched.

NOTICE:

Do not overtighten the SST.

- Using SST, adjust the clearance of the large clamp.

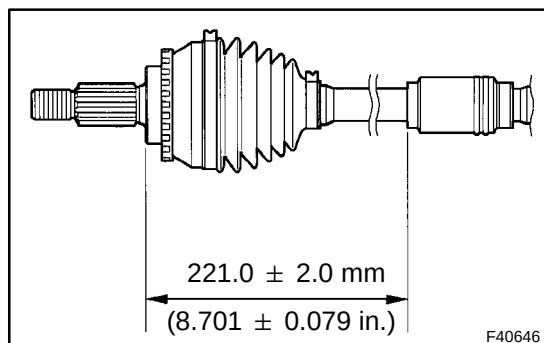
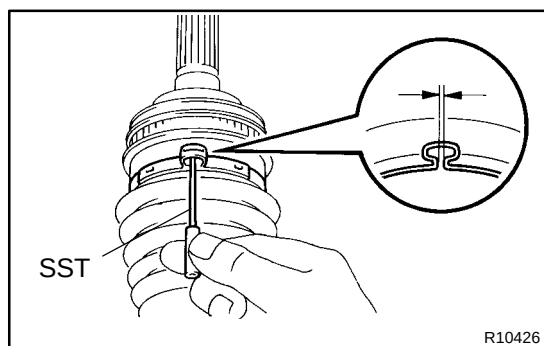
SST 09240-00020

Clearance: 0.8 mm (0.031 in.) or less

- The procedure for the outboard joint small boot clamp is the same as above.

NOTICE:

When the measured value exceeds the specified value, re-tighten the clamp.



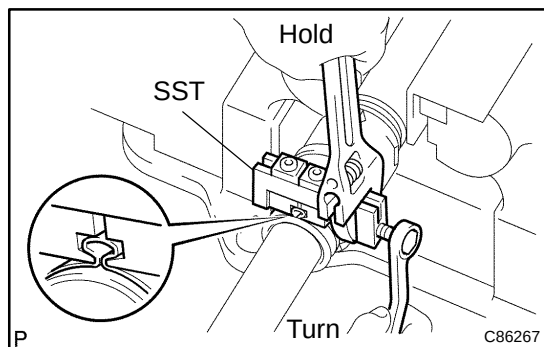
35. INSTALL FRONT DRIVE SHAFT DAMPER LH

- Make sure that the damper is on the shaft groove.
- Set the distance, as described below.

Distance: 221.0 ± 2.0 mm (8.701 ± 0.079 in.)

NOTICE:

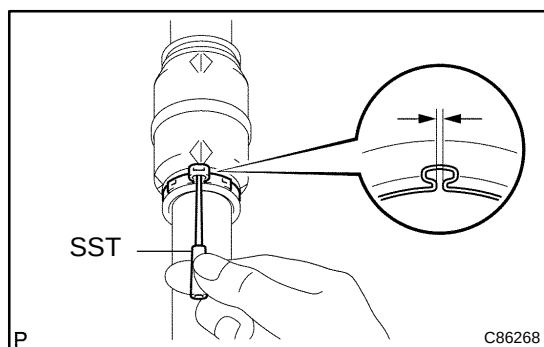
Be sure to install the clamp in the correct position.



- (c) Hold the front drive shaft in a soft vise.
- (d) Secure the damper setting clamp onto the damper.
- (e) Place SST onto the damper setting clamp.
SST 09521-24010
- (f) Tighten the SST so that the clamp is pinched.

NOTICE:

Do not overtighten the SST.



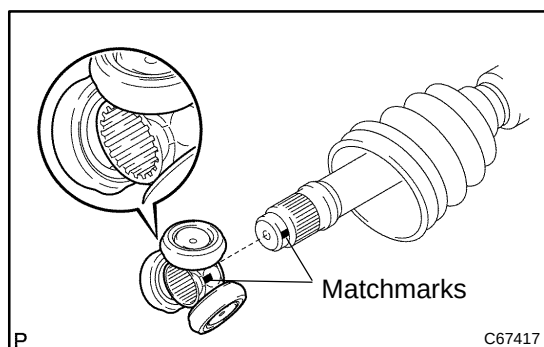
- (g) Using SST, measure the clearance of the damper setting clamp.

SST 09240-00020

Clearance: 0.8 mm (0.031 in.) or less

NOTICE:

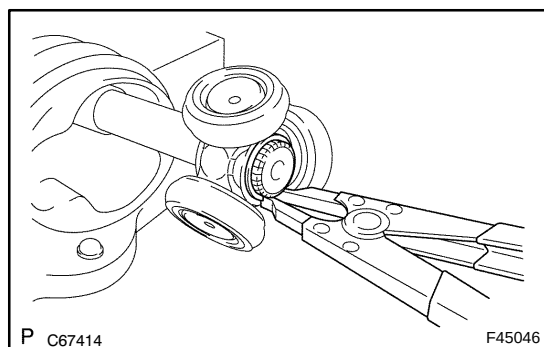
When the measured value exceeds the specified value, re-tighten the clamp.

**36. INSTALL FRONT DRIVE INBOARD JOINT ASSY LH**

- (a) Place the beveled side of the tripod joint axial spline toward the outboard joint shaft.
- (b) Align the matchmarks placed before removal.
- (c) Using a brass bar and hammer, tap in the tripod joint to the outboard joint shaft.

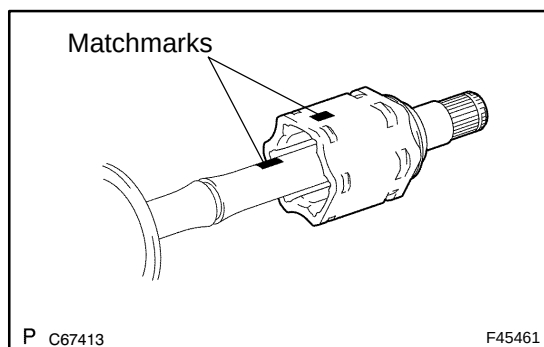
NOTICE:

- **Do not tap the roller.**
- **Be sure to install the tripod joint assy in the correct direction.**



- (d) Using a snap ring expander, install a new shaft snap ring.
- (e) Pack the outboard joint shaft and boot with grease in the boot kit.

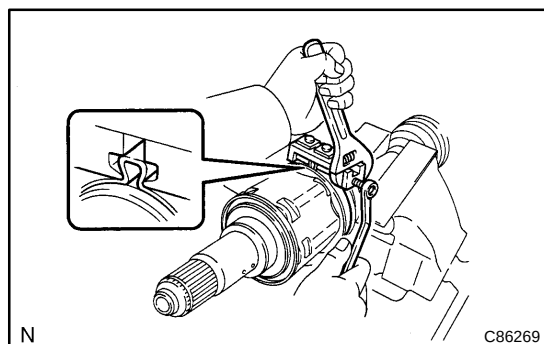
Drive type	Grease capacity g (oz.)
2WD	95 - 115 g (3.4 - 4.1 oz.)
4WD	110 - 130 g (3.9 - 4.6 oz.)



- (f) Aligning the matchmarks, install the inboard joint assy to the outboard joint shaft assy.

37. INSTALL FR AXLE INBOARD JOINT BOOT

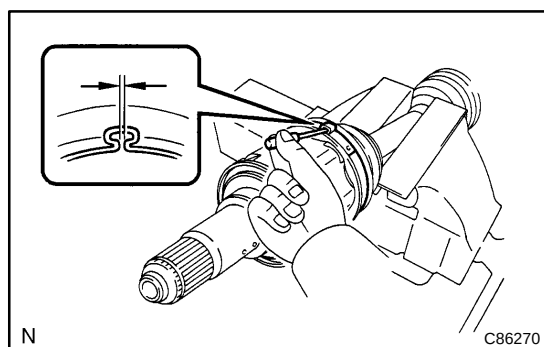
- (a) Install the inboard joint boot to the outboard joint shaft.

**38. INSTALL FRONT AXLE INBOARD JOINT BOOT CLAMP**

- (a) Install the inboard joint boot clamp.
- (1) Hold the drive shaft in a soft vise.
 - (2) Secure the 2 inboard joint boot clamps onto the boot.
 - (3) Place SST onto the inboard joint large boot clamp.
SST 09521-24010
 - (4) Tighten the SST so that the large clamp is pinched.

NOTICE:

Do not overtighten the SST.



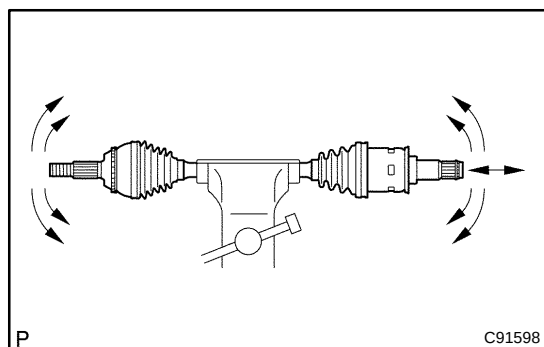
- (5) Using SST, adjust the clearance of the large clamp.
SST 09240-00020

Clearance: 0.8 mm (0.031 in.) or less

- (b) Install the inboard joint boot LH clamp by the same procedures as the inboard joint boot LH No.2 clamp.

NOTICE:

When the measured value exceeds the specified value, retighten the clamp.

**39. INSPECT FRONT DRIVE SHAFT**

- (a) Check that there is no remarkable play in the radial direction of the outboard joint.
- (b) Check that the inboard joint slides smoothly in the thrust direction.
- (c) Check that there is no remarkable play in the radial direction of the inboard joint.
- (d) Check the boots for damage.

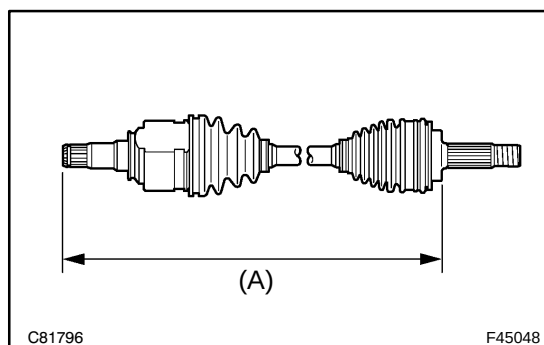
NOTICE:

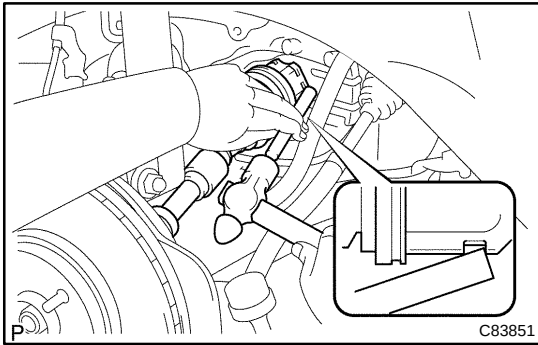
Keep the driver shaft level during inspection.

HINT:

For dimension (A), refer to the following table.

DRIVE TYPE	LH mm (in.)	RH mm (in.)
2WD	638.40 ± 5.0 (25.1338 ± 0.20)	957.00 ± 5.0 (37.6771 ± 0.20)
4WD	553.64 ± 5.0 (21.7968 ± 0.20)	992.24 ± 5.0 (39.0645 ± 0.20)

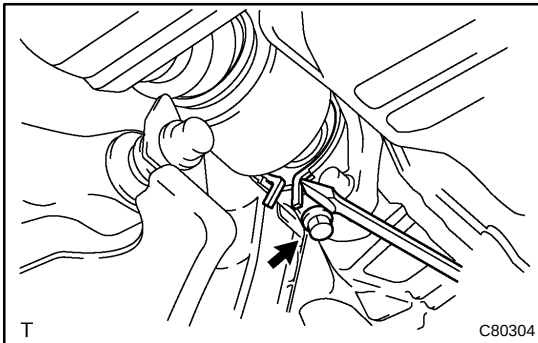


**40. INSTALL FRONT DRIVE SHAFT ASSY LH**

- (a) Coat the spline of the inboard joint shaft assy with ATF.
- (b) Align the shaft splines and install the drive shaft assy with a brass bar and hammer.

NOTICE:

- Set the snap ring with the opening side facing downward.
- Be careful not to damage the oil seal boot and dust cover.

**41. INSTALL FRONT DRIVE SHAFT ASSY RH (2WD DRIVE TYPE)**

- (a) Using a screwdriver, install the drive shaft bearing bracket hole snap ring.
- (b) Install the bolt.

Torque: 32 N·m (330 kgf·cm, 24 ft·lbf)

NOTICE:

Do not damage the oil seal and boot.

42. INSTALL FRONT DRIVE SHAFT ASSY RH (4WD DRIVE TYPE)**HINT:**

Install the RH side by the same procedures as the LH side.

NOTICE:

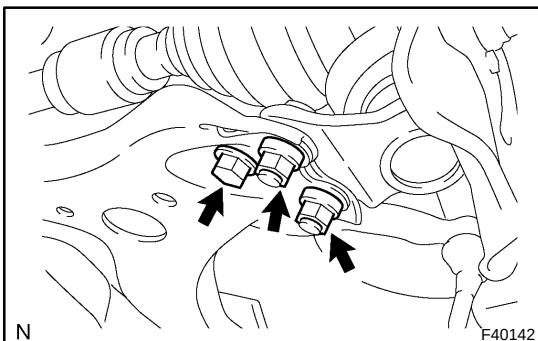
- Set the snap ring with the opening side facing downward.
- Be careful not to damage the oil seal boot and dust cover.

43. INSTALL FRONT AXLE ASSY LH

- (a) Install the drive shaft assy LH to the front axle assy LH.

NOTICE:

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

**44. INSTALL FRONT SUSPENSION ARM SUB- ASSY LOWER NO.1 LH**

- (a) Install the lower ball joint to the front suspension arm sub-assy lower with the bolt and 2 nuts.

Torque: 127 N·m (1,300 kgf·cm, 94 ft·lbf)

45. INSTALL TIE ROD ASSY LH

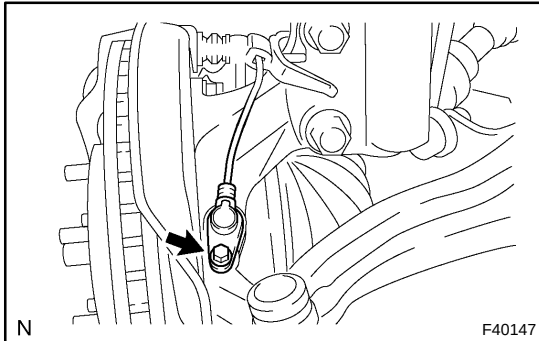
- (a) Install the tie rod end to the steering knuckle with the nut.

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

- (b) Install a new cotter pin.

NOTICE:

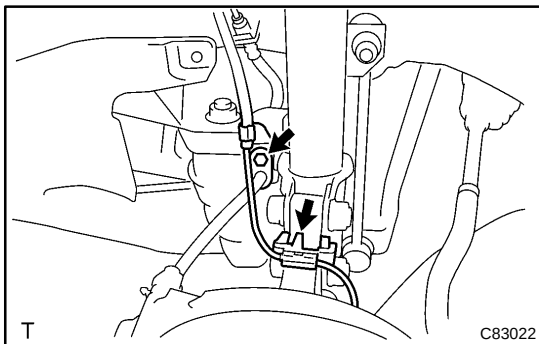
If the holes for the cotter pin are not aligned, tighten the nut further up to 60°.



46. INSTALL SPEED SENSOR FRONT LH

- (a) Install the speed sensor to the steering knuckle with the bolt.

Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)

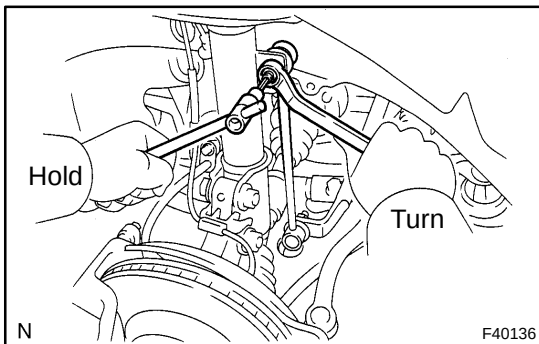


- (b) Install the flexible hose and the speed sensor to the shock absorber with the bolt, and set the clip of sensor on knuckle.

Torque: 19 N·m (192 kgf·cm, 14 ft·lbf)

NOTICE:

- Be careful not to damage the speed sensor.
- Prevent foreign matter from attaching to the speed sensor.
- Do not twist the sensor wire when installing the sensor.



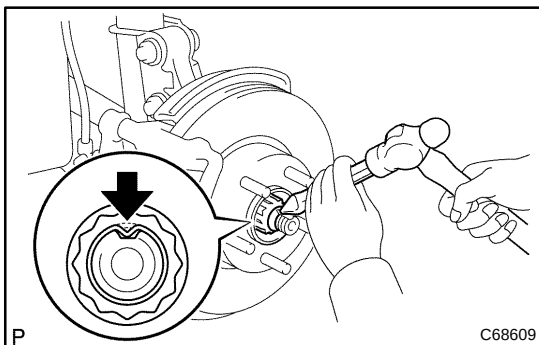
47. INSTALL FRONT STABILIZER LINK ASSY LH

- (a) Install the stabilizer link assy LH with the nut.

Torque: 74 N·m (755 kgf·cm, 55 ft·lbf)

HINT:

If the ball joint turns together with the nut, use a hexagon (6 mm) wrench to hold the stud.



48. INSTALL FRONT AXLE HUB LH NUT

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

49. INSTALL FRONT WHEEL

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

50. ADD AUTOMATIC TRANSAXLE FLUID

51. INSPECT AUTOMATIC TRANSAXLE FLUID (See page 40-2)

52. ADD TRANSFER OIL (4WD DRIVE TYPE)

HINT:

Perform the procedure only when installing the RH side.

53. INSPECT TRANSFER OIL (4WD DRIVE TYPE) (See page [31-4](#))

HINT:

Perform the procedure only when installing the RH side.

54. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page [26-7](#))**55. CHECK ABS SPEED SENSOR SIGNAL**(a) ABS WITH EBD SYSTEM (See page [05-386](#))(b) ABS WITH EBD & BA & TRAC & VSC SYSTEM (See page [05-435](#))

REPLACEMENT

HINT:

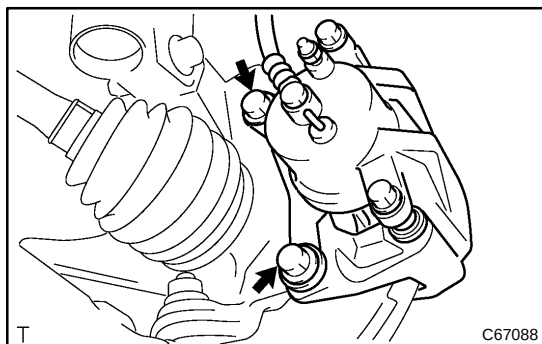
- COMPONENTS: See page 30-38
- Replace the RH side by the same procedures as the LH side.

1. REMOVE FRONT WHEEL

2. REMOVE FRONT AXLE HUB LH NUT (See page 30-18)

SST 09930-00010

3. SEPARATE SPEED SENSOR FRONT LH (See page 30-18)



4. SEPARATE FRONT DISC BRAKE CALIPER ASSY LH

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

NOTICE:

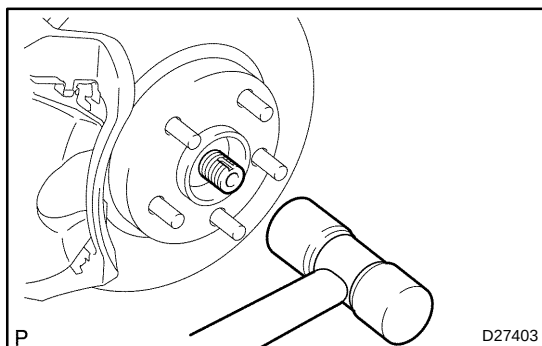
Using a string and so on, hang down the disc brake caliper.

5. REMOVE FRONT DISC

6. SEPARATE TIE ROD ASSY LH (See page 30-18)

SST 09628-6201 1

7. SEPARATE FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH (See page 30-18)

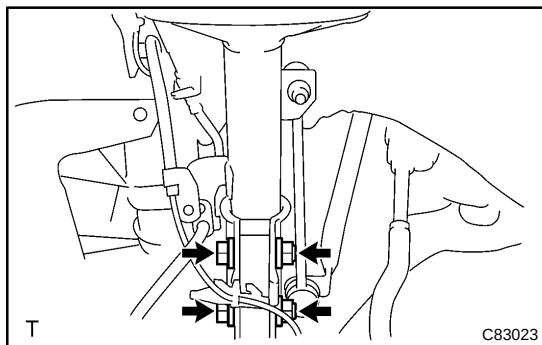


8. REMOVE FRONT AXLE ASSY LH

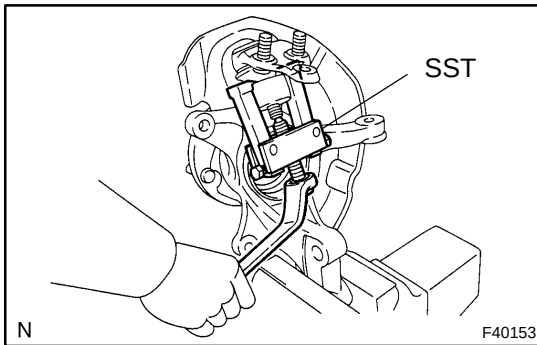
- (a) Using a plastic hammer, separate the front drive shaft assy LH from the front axle hub sub-assy LH.

NOTICE:

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

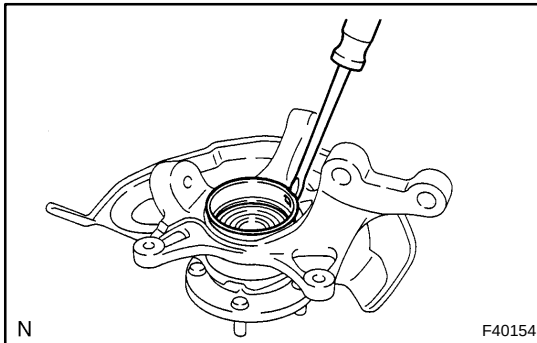


- (b) Remove the 2 bolts, nuts and steering knuckle LH with the front axle hub sub-assy LH.



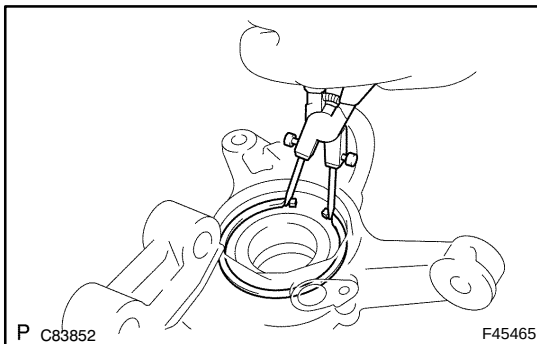
9. REMOVE LOWER BALL JOINT ASSY FRONT LH

- (a) Remove the cotter pin and nut.
- (b) Using SST, remove the lower ball joint assy front LH.
SST 09628-6201 1



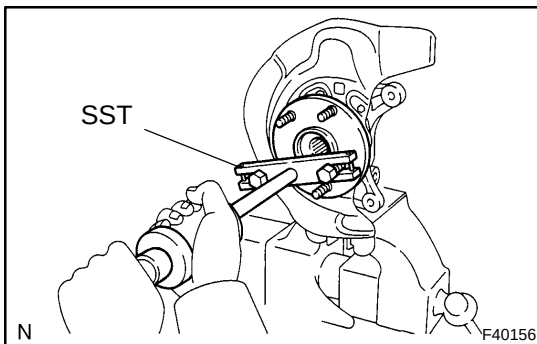
10. REMOVE FRONT WHEEL BEARING DUST DEFLECTOR NO.1 LH

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



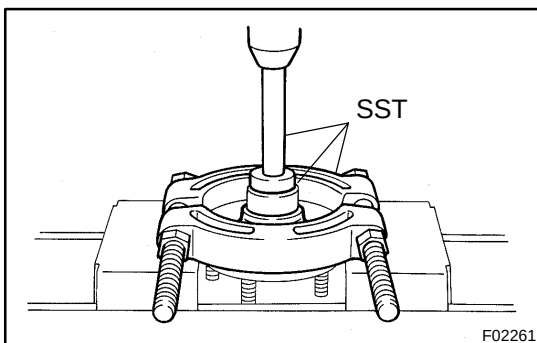
11. REMOVE FRONT AXLE HUB LH HOLE SNAP RING

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



12. REMOVE FRONT AXLE HUB SUB-ASSY LH

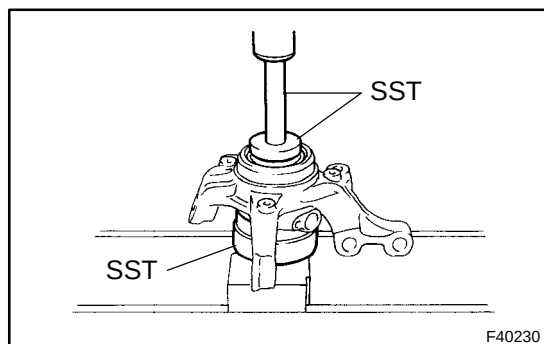
- (a) Using SST, remove the front axle hub sub-assy LH.
SST 09520-00031



- (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 (09951-00430),
09950-70010 (09951-07100)

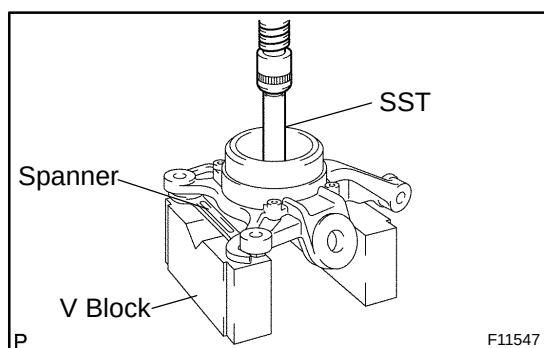
13. REMOVE DISC BRAKE DUST COVER FRONT LH

- (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)



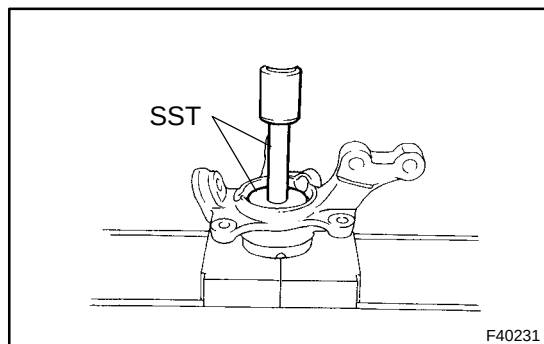
- (c) Using a spanner to make the steering knuckle LH horizontal, fix it to the V block as shown in the illustration.

NOTICE:

Be sure the steering knuckle is horizontally positioned.

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

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

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

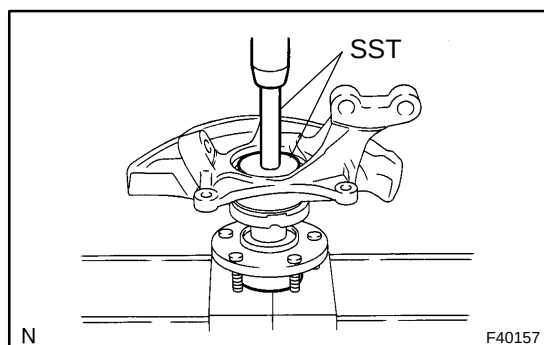
- (a) Using SST and a press, install a new front axle hub LH bearing to the steering knuckle LH.

SST 09950-60020 (09951-00810), 09950-70010
 (09951-07100)

16. INSTALL DISC BRAKE DUST COVER FRONT LH

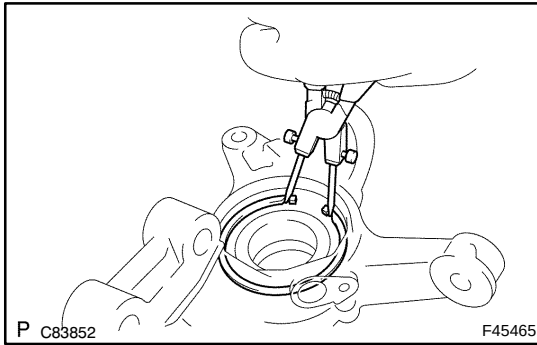
- (a) Place the disc brake dust cover front LH and using a torx® wrench (T30), torque the 4 bolts.

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

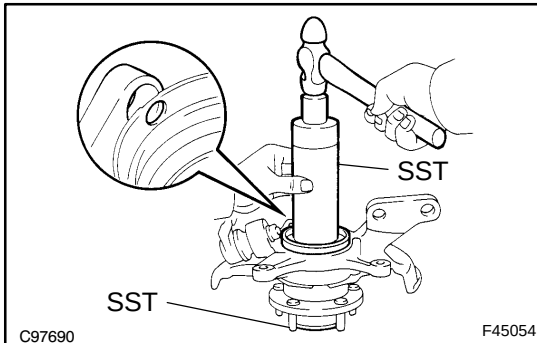
**17. INSTALL FRONT AXLE HUB SUB-ASSY LH**

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

SST 09608-32010, 09950-60020 (09951-00810),
 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. INSTALL 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 holes for the ABS speed sensor in the bearing dust deflector No.1 LH with steering knuckle.

20. INSTALL LOWER BALL JOINT ASSY FRONT LH

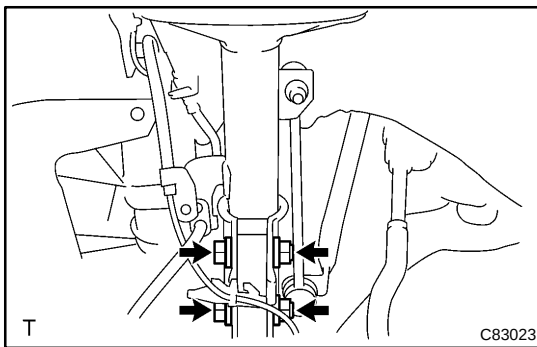
- (a) Install the lower ball joint assy front LH and tighten the nut.

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, tighten the nut further up to 60°.

**21. INSTALL FRONT AXLE ASSY LH**

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

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

NOTICE:

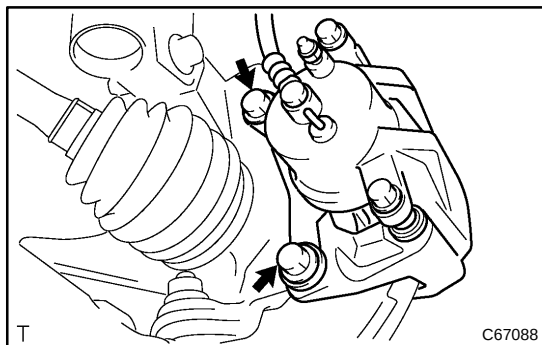
Only when reusing the bolts and nuts, apply engine oil to the screw part of the nuts.

- (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.

22. INSTALL FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH (See page 30-18)**23. INSTALL TIE ROD ASSY LH (See page 30-18)****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 hub nut.

Torque: 294 N·m (3,000 kgf·cm, 217 ft·lbf)

27. SEPARATE FRONT DISC BRAKE CALIPER ASSY LH

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

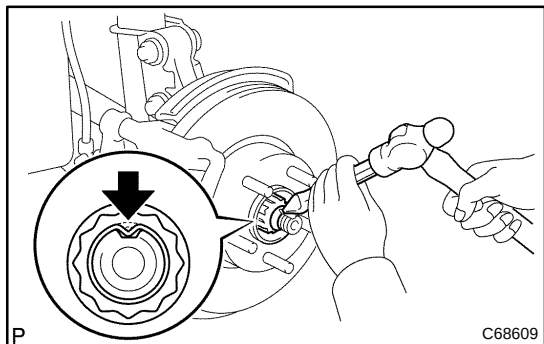
NOTICE:

Using a string and so on, hang down the disc brake caliper.

28. REMOVE FRONT DISC**29. INSPECT BEARING BACKLASH (See page 30-3)****30. INSPECT AXLE HUB DEVIATION (See page 30-3)****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 (See page 30-18)**34. INSTALL FRONT AXLE HUB LH NUT**

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

Torque: 294 N·m (3,000 kgf·cm, 217 ft·lbf)

- (b) Using a chisel and hammer, stake the lock nut.

35. INSTALL FRONT WHEEL

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

36. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page 26-7)**37. CHECK ABS SPEED SENSOR SIGNAL**

- (a) ABS WITH EBD SYSTEM (See page 05-386)

- (b) ABS WITH EBD & BA & TRAC & VSC SYSTEM (See page 05-435)

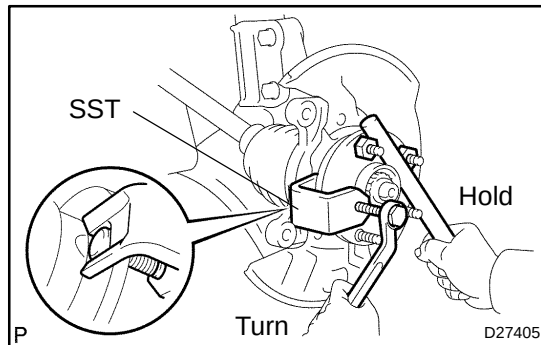
FRONT AXLE LH HUB BOLT REPLACEMENT

30020-05

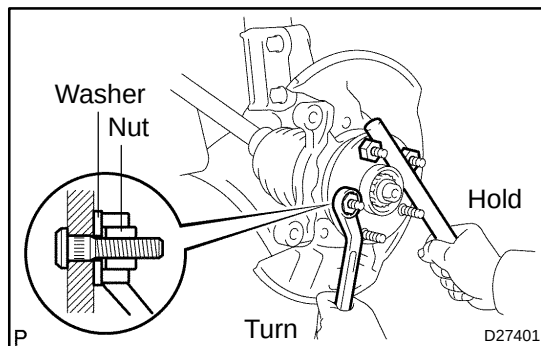
HINT:

- COMPONENTS: See page [30-38](#)
- Replace the RH side by the same procedures as the LH side.

1. **REMOVE FRONT WHEEL**
2. **SEPARATE FRONT DISC BRAKE CALIPER ASSY LH (See page [30-39](#))**
3. **REMOVE FRONT DISC**

**4. REMOVE FRONT AXLE LH HUB BOLT**

- (a) Using SST and a screwdriver or an equivalent to hold the front axle hub, remove the front axle LH hub bolt.
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**5. INSTALL FRONT AXLE LH HUB BOLT**

- (a) Install a washer and nut to a new front axle LH hub bolt as shown in the illustration.
- (b) Using a screwdriver to hold the front axle hub, install the hub bolt by torquing the nut.

6. **INSTALL FRONT DISC**
7. **INSTALL FRONT DISC BRAKE CALIPER ASSY LH (See page [30-39](#))**
8. **INSTALL FRONT WHEEL**
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

REPLACEMENT

HINT:

- COMPONENTS: See page 30-45
- Replace the RH side by the same procedures as the LH side.

1. REMOVE REAR WHEEL

2. SEPARATE REAR DISC BRAKE CALIPER ASSY LH (DISC REAR BRAKE TYPE)

- (a) Removing the 2 bolts, separate the rear disc brake caliper assy LH.

NOTICE:

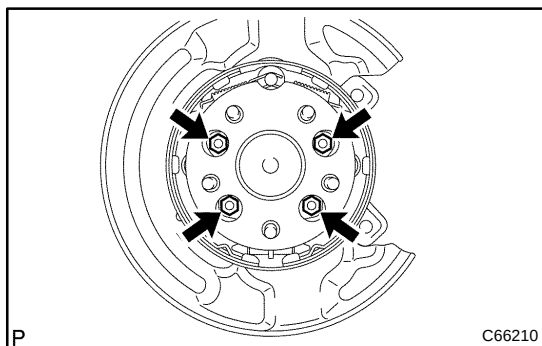
Using a string and so on, hang down the disc brake caliper.

3. REMOVE REAR DISC (DISC REAR BRAKE TYPE)

4. REMOVE REAR BRAKE DRUM SUB-ASSY (DRUM REAR BRAKE TYPE)

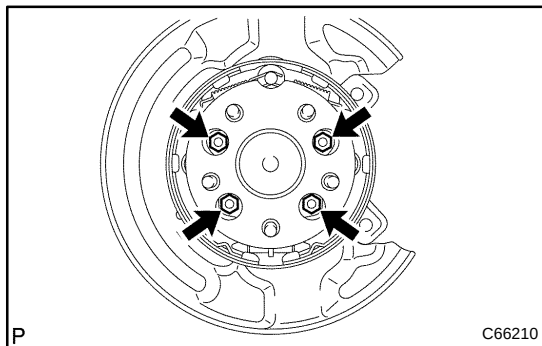
5. SEPARATE SKID CONTROL SENSOR WIRE

- (a) Disconnect the connector.



6. REMOVE REAR AXLE HUB & BEARING ASSY LH

- (a) Remove the 4 bolts and hub & bearing assy LH.



7. INSTALL REAR AXLE HUB & BEARING ASSY LH

- (a) Install the hub & Bearing assy LH with the 4 bolts.

Torque: 56 N·m (571 kgf·cm, 41 ft·lbf)

8. INSPECT BEARING BACKLASH (See page 30-3)

9. INSPECT AXLE HUB DEVIATION (See page 30-3)

10. CONNECT SKID CONTROL SENSOR WIRE

- (a) Connect the connector.

NOTICE:

Do not twist the sensor wire when connecting it.

11. INSTALL REAR DISC (DISC REAR BRAKE TYPE)

12. INSTALL REAR BRAKE DRUM SUB-ASSY (DRUM REAR BRAKE TYPE)

13. INSTALL REAR DISC BRAKE CALIPER ASSY LH (DISC REAR BRAKE TYPE)

- (a) Install the rear disc brake caliper assy LH with the 2 bolts.

Torque: 88 N·m (900 kgf·cm, 65 ft·lbf)

14. INSTALL REAR WHEEL

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

15. CHECK ABS SPEED SENSOR SIGNAL

- (a) ABS WITH EBD SYSTEM (See page [05-386](#))
- (b) ABS WITH EBD & BA & TRAC & VSC SYSTEM (See page [05-435](#))

REPLACEMENT

HINT:

- COMPONENTS: See page 30-48
- Replace the RH side by the same procedures as the LH side.

1. REMOVE REAR WHEEL

2. REMOVE REAR AXLE SHAFT LH NUT (See page 30-32)

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3. SEPARATE REAR DISC BRAKE CALIPER ASSY LH

- (a) Removing the 2 bolts, separate the rear disc brake caliper assy LH.

NOTICE:

Using a string and so on, hang down the disc brake caliper.

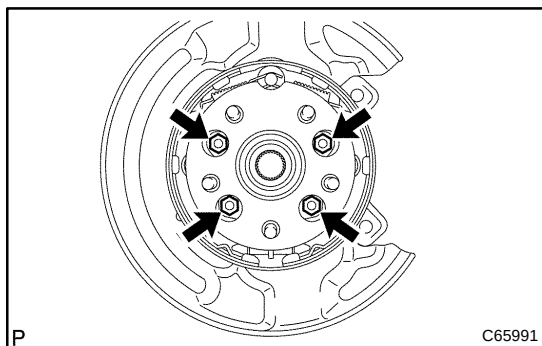
4. REMOVE REAR DISC

5. SEPARATE SPEED SENSOR REAR LH

- (a) Removing the bolt, separate the speed sensor rear LH.

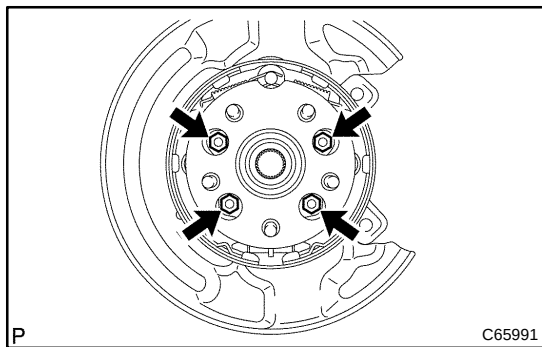
NOTICE:

- Be careful not to damage the speed sensor.
 - Prevent foreign matter from attaching to the speed sensor.
- #### 6. REMOVE REAR DRIVE SHAFT ASSY LH (See page 30-32)



7. REMOVE REAR AXLE HUB & BEARING ASSY LH

- (a) Remove the 4 bolts and hub & bearing assy LH.



8. INSTALL REAR AXLE HUB & BEARING ASSY LH

- (a) Install the hub & bearing assy LH with the 4 bolts.
Torque: 56 N·m (571 kgf·cm, 41 ft·lbf)

9. INSPECT BEARING BACKLASH (See page 30-3)

10. INSPECT AXLE HUB DEVIATION (See page 30-3)

11. INSTALL REAR DRIVE SHAFT ASSY LH (See page 30-32)

12. INSTALL SPEED SENSOR REAR LH

- (a) Install the bolt, connect the speed sensor rear LH.

Torque: 8.0 N·m (82 kgf·cm, 71 in·lbf)

NOTICE:

- Be careful not to damage the speed sensor.
- Prevent foreign matter from attaching to the speed sensor.
- Do not twist the sensor wire when installing the sensor.

13. INSTALL REAR DISC**14. INSTALL REAR DISC BRAKE CALIPER ASSY LH**

- (a) Install the rear disc brake caliper assy LH with the 2 bolts.

Torque: 88 N·m (900 kgf·cm, 65 ft·lbf)

15. INSTALL REAR AXLE SHAFT LH NUT (See page [30-32](#))**16. INSTALL REAR WHEEL**

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

17. CHECK ABS SPEED SENSOR SIGNAL

- (a) ABS WITH EBD & BA & TRAC & VSC SYSTEM (See page [05-435](#))

REAR AXLE LH HUB BOLT REPLACEMENT

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HINT:

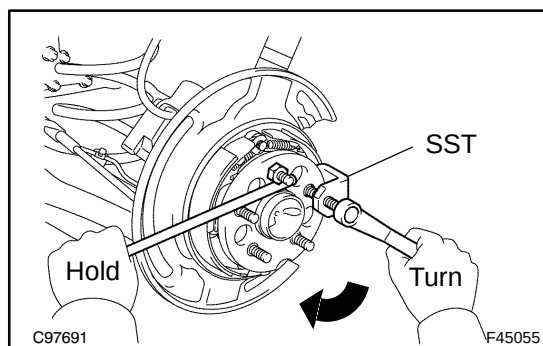
- COMPONENTS:

FF: See page 30-45

4WD: See page 30-48

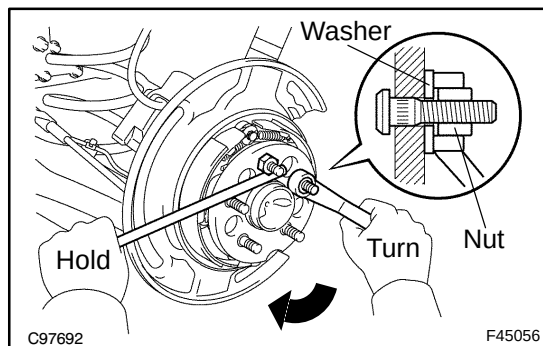
Replace the RH side by the same procedures as the LH side.

1. REMOVE REAR WHEEL
2. SEPARATE REAR DISC BRAKE CALIPER ASSY LH (DISC REAR BRAKE TYPE)
 - (a) Removing the 2 bolts, separate the rear disc brake caliper assy LH.
3. REMOVE REAR DISC (DISC REAR BRAKE TYPE)
4. REMOVE REAR BRAKE DRUM SUB-ASSY (DRUM REAR BRAKE TYPE)



5. REMOVE REAR AXLE LH HUB BOLT

- (a) Using SST and a hammer handle or an equivalent to hold the hub & bearing assy, remove the LH hub Bolt.
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6. INSTALL REAR AXLE LH HUB BOLT

- (a) Install a washer and nut to a new bolt as shown in the illustration.
- (b) Using a hammer handle or an equivalent to hold the hub & bearing assy, install the LH hub bolt by tightening the nut.

7. INSTALL REAR BRAKE DRUM SUB-ASSY (DRUM REAR BRAKE TYPE)
8. INSTALL REAR DISC (DISC REAR BRAKE TYPE)
9. INSTALL REAR DISC BRAKE CALIPER ASSY LH (DISC REAR BRAKE TYPE)
 - (a) Install the rear disc brake caliper assy LH with the 2 bolts.
Torque: 88 N·m (900 kgf·cm, 65 ft·lbf)
10. INSTALL REAR WHEEL
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)