

DRIVE SHAFT SYSTEM

PRECAUTION

NOTICE:

When disconnecting the negative(-) battery terminal, initialize the following systems after the terminal is reconnected.

System Name	See procedure
Lighting System (Adaptive Front-lighting System)	LI-17
Power Window Control System	WS-12
Power Back Door System	ED-33
Sliding Roof System	RF-4

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

- (a) When removing and installing the front drive shaft assembly RH in a 4WD vehicle, be sure to first drain all the transaxle oil and transfer oil. If removal and installation is carried out without draining these oils, the transfer oil will flow into the transaxle side. Extensive will be required if the two oils mix.

PROBLEM SYMPTOMS TABLE

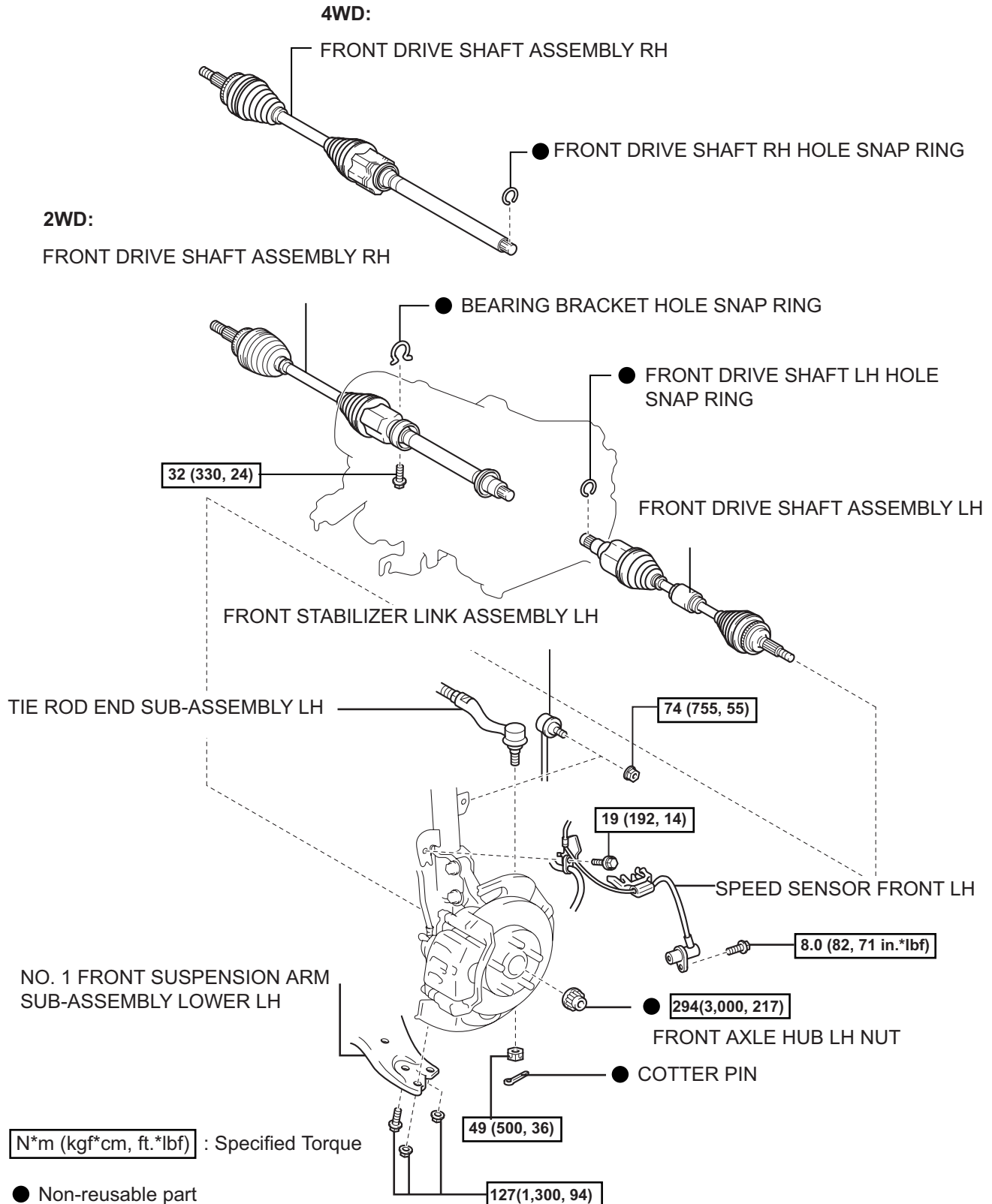
Use the table below to help find the cause of the problem.
Check each part. If necessary, replace these parts.

DRIVE SHAFT SYSTEM

Symptom	Suspected area	See page
Front wheel shimmy	Front drive shaft (Worn)	DS-10
Rear wheel shimmy	Rear drive shaft (Worn) (4WD)	DS-23

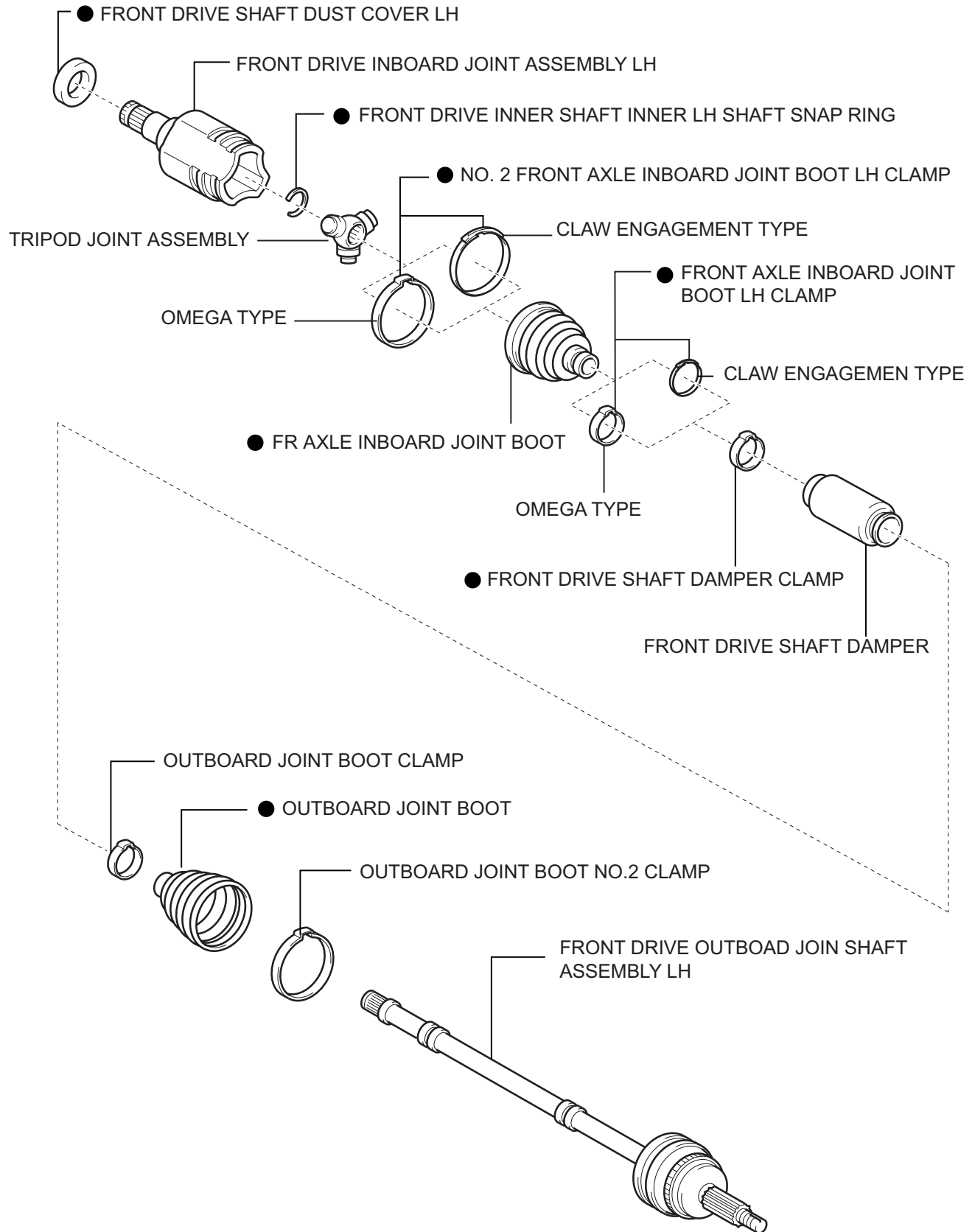
FRONT DRIVE SHAFT

COMPONENTS



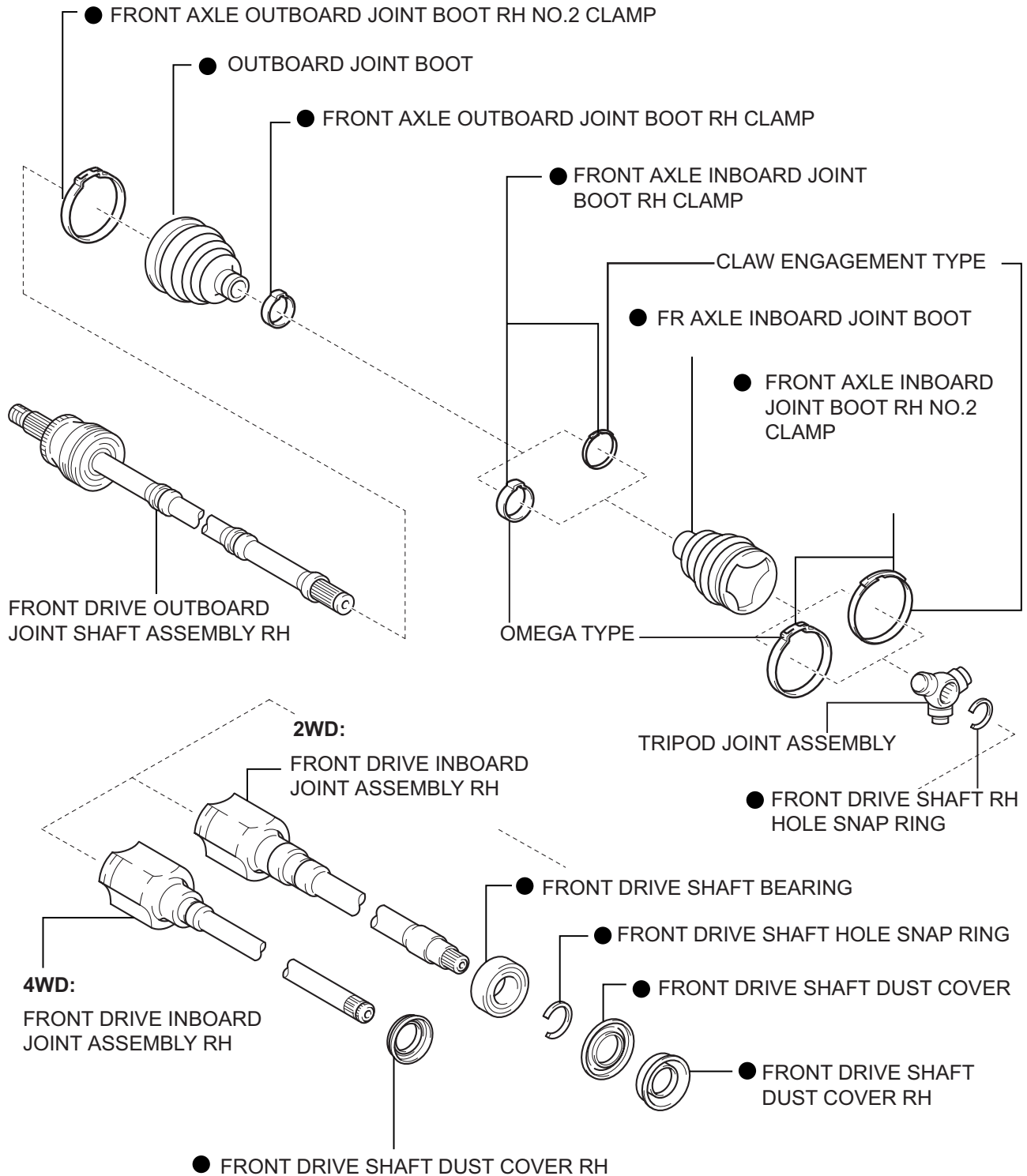
DS

LH:



● Non-reusable part

RH:



● Non-reusable part

REMOVAL

1. REMOVE ENGINE UNDER COVER ASSEMBLY (See page [EX-3](#))
2. REMOVE NO. 2 ENGINE UNDER COVER (See page [EX-3](#))
3. DRAIN AUTOMATIC TRANSAXLE FLUID
 - (a) Remove the drain plug, gasket and drain ATF.
 - (b) Install a new gasket and the drain plug.
Torque: 49 N*m (500 kgf*cm, 36 ft.*lbf)
4. DRAIN TRANSFER OIL
HINT:
(See page [TF-14](#))

5. REMOVE FRONT WHEEL

6. REMOVE FRONT AXLE HUB LH NUT

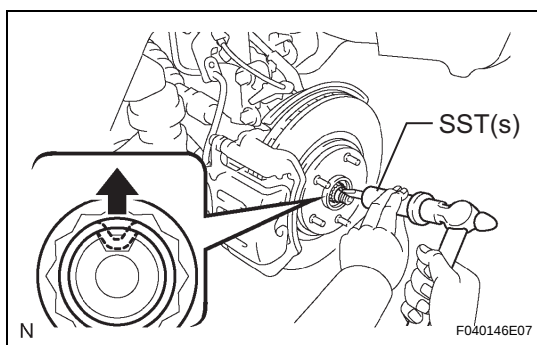
- (a) Using SST(s) and a hammer, unstake the staked part of the axle hub LH nut.

SST 09930-00010

NOTICE:

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

- (b) While applying the brakes, remove the lock axle hub LH nut.

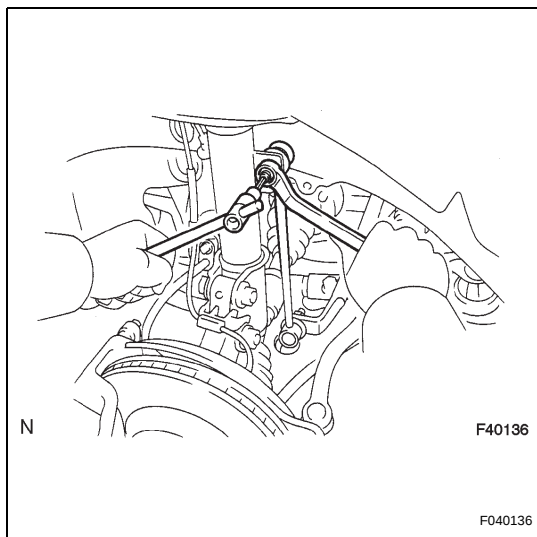


7. SEPARATE FRONT STABILIZER LINK ASSEMBLY LH

- (a) Remove the nut, and separate the stabilizer link assembly LH.

HINT:

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

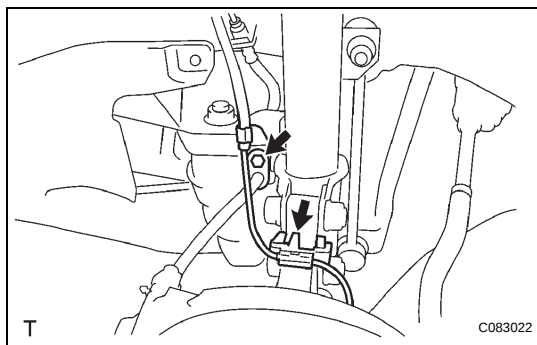


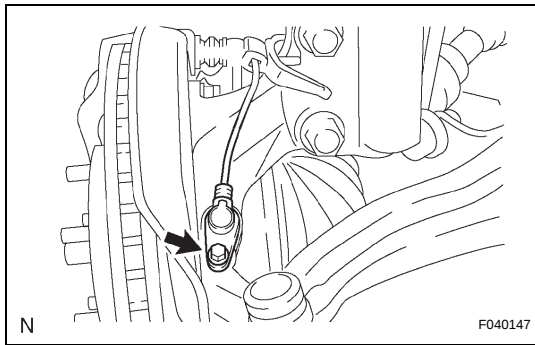
8. SEPARATE SPEED SENSOR FRONT LH

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

NOTICE:

Be careful not to damage the speed sensor.

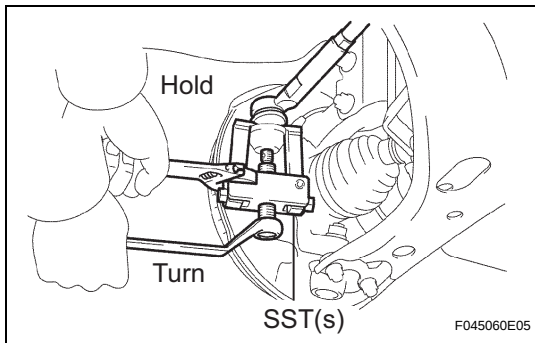




- (b) Remove the bolt, and separate the speed sensor from LH from the steering knuckle.

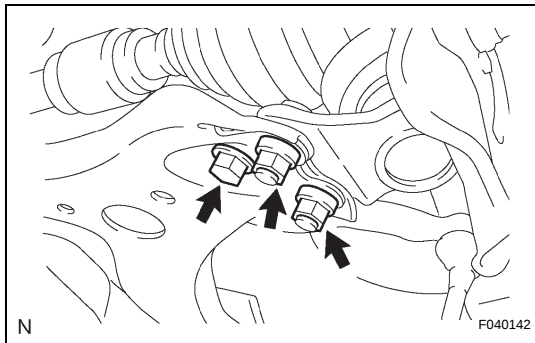
NOTICE:

Prevent foreign matter from adhering to the speed sensor.



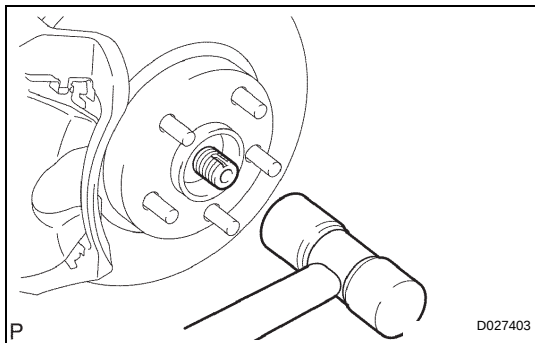
9. SEPARATE TIE ROD END SUB-ASSEMBLY LH

- (a) Remove the cotter pin and nut.



10. SEPARATE NO. 1 FRONT SUSPENSION ARM SUB-ASSEMBLY LOWER

- (a) Remove the bolt and 2 nuts, and separate the No. 1 front suspension arm sub-assembly lower from the lower ball joint.

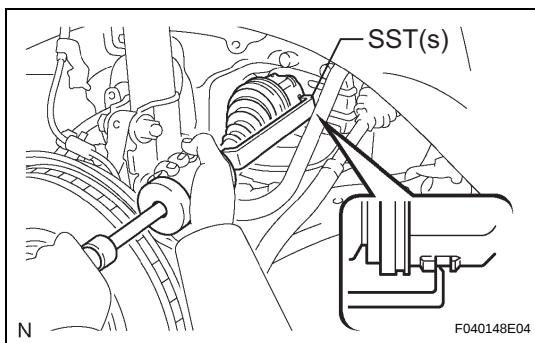


11. SEPARATE FRONT AXLE ASSEMBLY LH

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

NOTICE:

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



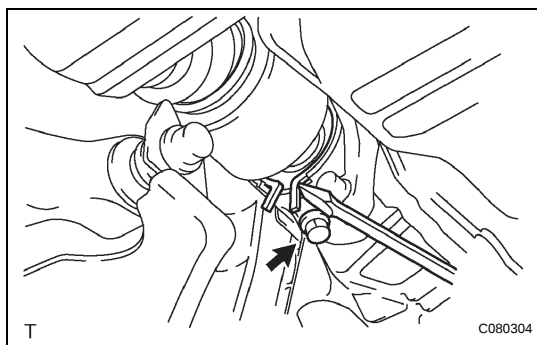
12. REMOVE FRONT DRIVE SHAFT ASSEMBLY LH

- (a) Using SST(s), remove the front drive shaft assembly LH.

SST 09520-01010, 09520-24010 (09520-32040)

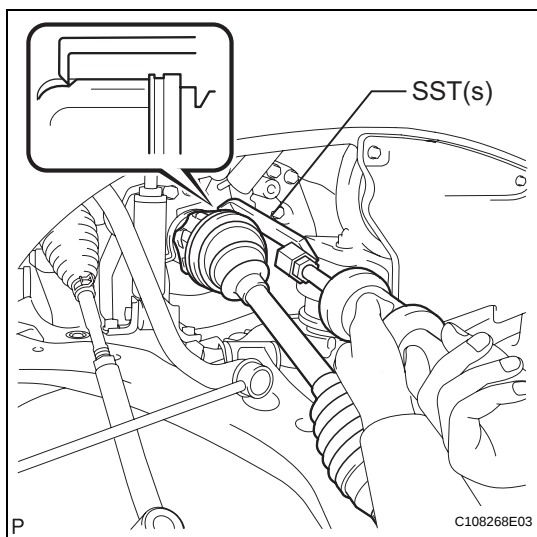
NOTICE:

- Be careful not to damage the transaxle case oil seal, inboard joint boot and drive shaft dust cover.
- Be careful not to drop the drive shaft assembly.



13. REMOVE FRONT DRIVE SHAFT ASSEMBLY RH (for 2WD)

- (a) Using a screwdriver, remove the bearing brake hole snap ring.
- (b) Remove the bolt and front drive shaft assembly RH from the drive shaft bearing bracket.



14. REMOVE FRONT DRIVE SHAFT ASSEMBLY RH (for 4WD)

- (a) Using SST(s), remove the front drive shaft assembly RH.

SST 09520-01010, 09520-24010 (09520-32040)

HINT:

Overhaul the side following the same procedures as for the LH side.

NOTICE:

- When removing and installing the front drive shaft assembly RH in 4WD vehicle, be sure to first drain all the transaxle oil and transfer oil. If removal and installation is carried out without draining these oils, the transfer oil will flow into the transaxle side. Extensive cleaning will be required if the two oils mix.
- Do not damage the oil seal and dust cover.
- Move the drive shaft assembly while keeping it level.

DISASSEMBLY

1. REMOVE NO. 2 FRONT AXLE INBOARD JOINT BOOT LH CLAMP

- (a) Using pliers, remove the No. 2 front axle inboard joint boot LH clamp, as shown in the illustration.

2. REMOVE FRONT AXLE INBOARD JOINT BOOT LH CLAMP

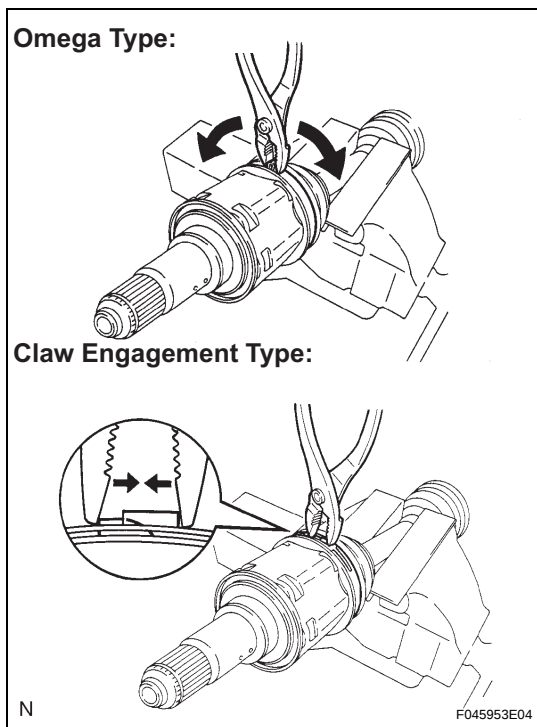
- (a) Remove the front axle inboard joint boot LH clamp using the same procedures as for the No. 2 front axle inboard joint boot LH clamp.

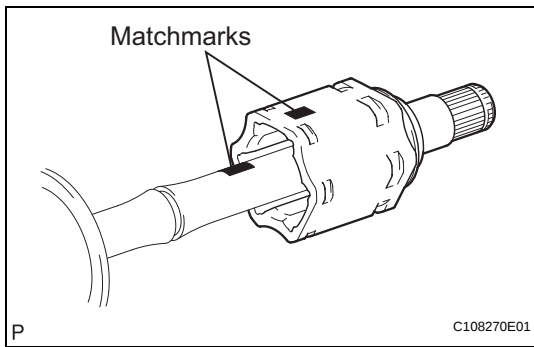
3. SEPARATE FR AXLE INBOARD JOINT BOOT

- (a) Separate the inboard joint boot from the inboard joint assembly.

4. REMOVE FRONT DRIVE INBOARD JOINT ASSEMBLY LH

- (a) Remove the grease from the inboard joint.



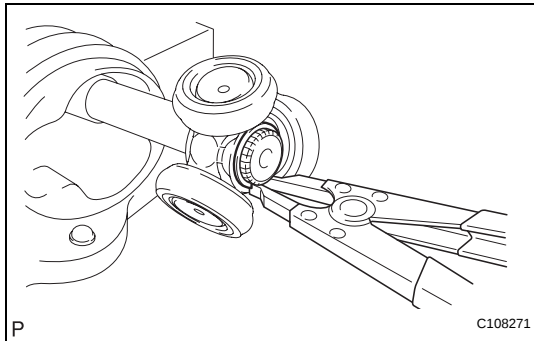


- (b) Put matchmarks on the inboard joint shaft assembly and outboard joint shaft.

NOTICE:

Do not use a punch for the marks.

- (c) Remove the inboard joint shaft assembly from the outboard joint shaft.

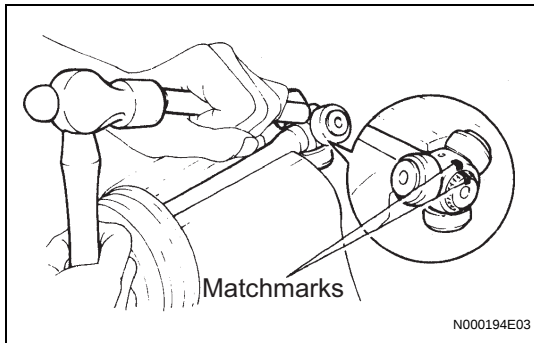


- (d) Using a snap ring expander, remove the snap ring.

- (e) Put matchmarks on the outboard joint shaft and tripod.

NOTICE:

Do not use a punch for the marks.



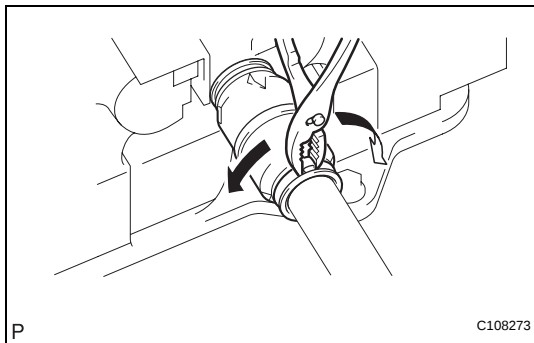
- (f) Using a brass bar and hammer, remove the tripod from the outboard joint shaft.

NOTICE:

Do not tap the roller.

5. REMOVE INBOARD JOINT BOOT

- (a) Remove the inboard joint boot and inboard joint boot clamp.

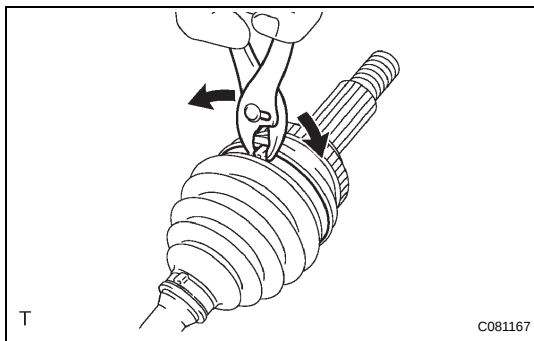


6. REMOVE FRONT DRIVE SHAFT DAMPER CLAMP

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

7. REMOVE FRONT DRIVE SHAFT DAMPER

- (a) Remove the drive shaft damper.



8. REMOVE OUTBOARD JOINT BOOT NO.2 CLAMP

- (a) Using pliers, remove the outboard joint boot No.2 clamp, as shown in the illustration.

9. REMOVE OUTBOARD JOINT BOOT CLAMP

- (a) Remove the outboard joint boot clamp perform the same procedures as for the outboard joint boot No.2 clamp.

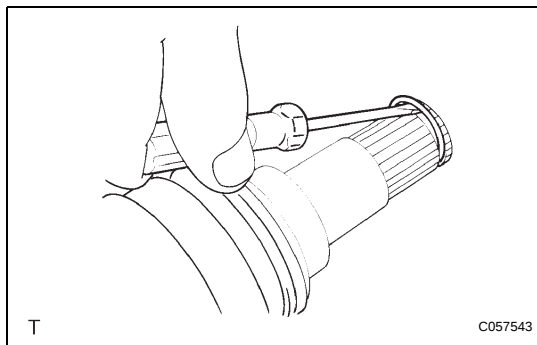
10. REMOVE OUTBOARD JOINT BOOT

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

(b) Remove the grease from the outboard joint.

11. REMOVE FRONT DRIVE SHAFT LH HOLE SNAP RING

- (a) Using a screwdriver, remove the front drive shaft LH hole snap ring.



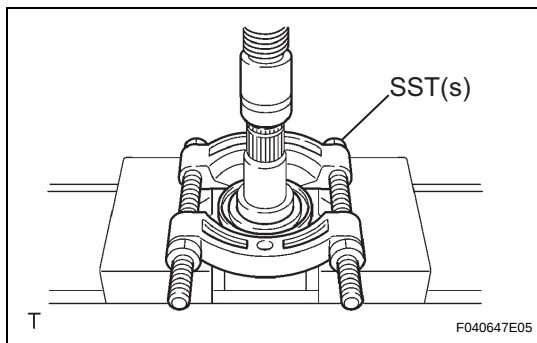
12. REMOVE FRONT DRIVE SHAFT DUST COVER LH

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

SST 09950-00020

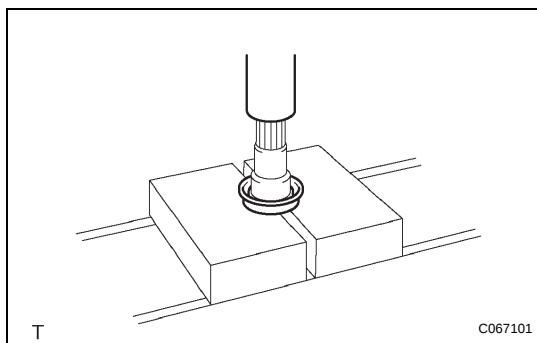
NOTICE:

Be careful not to drop the inboard joint assembly.



13. REMOVE FRONT DRIVE SHAFT DUST COVER RH (for 2WD)

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



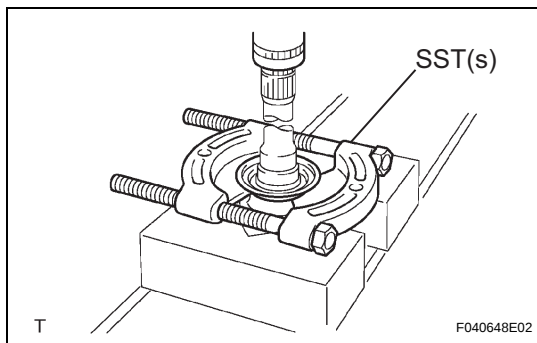
14. REMOVE FRONT DRIVE SHAFT DUST COVER RH (for 4WD)

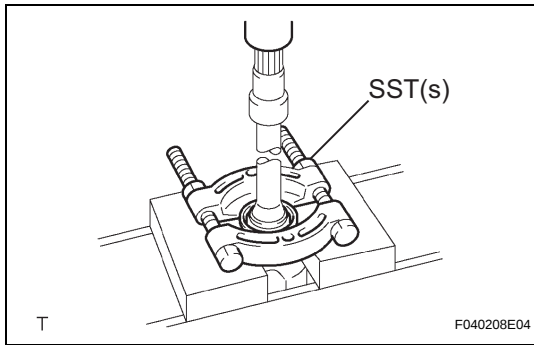
- (a) Using SST(s) and a press, remove the drive shaft dust cover RH.

SST 09950-00020

NOTICE:

Be careful not to drop the inboard joint assembly.



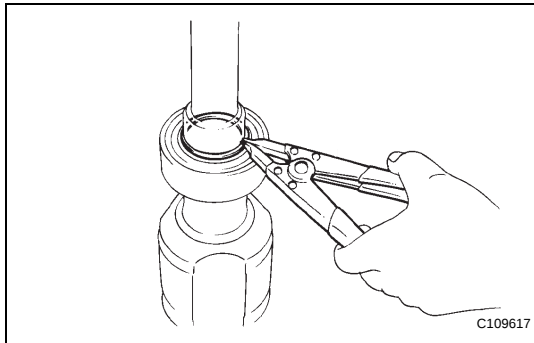
**15. REMOVE FRONT DRIVE SHAFT DUST COVER**

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

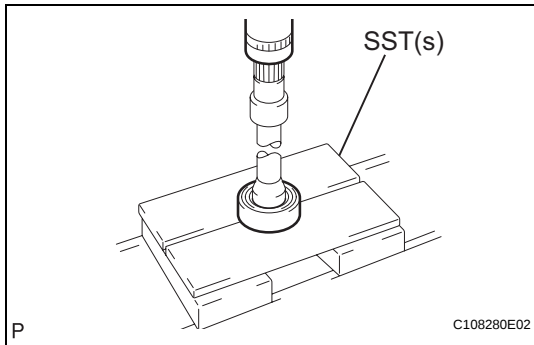
SST 09950-00020

NOTICE:

Be careful not to drop the inboard joint assembly.

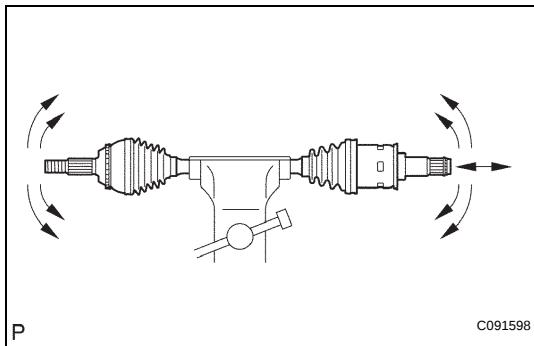
**16. REMOVE FRONT DRIVE SHAFT RH HOLE SNAP RING**

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

**17. REMOVE FRONT DRIVE SHAFT BEARING**

- (a) Using SST(s) and a press, remove the front drive shaft bearing.

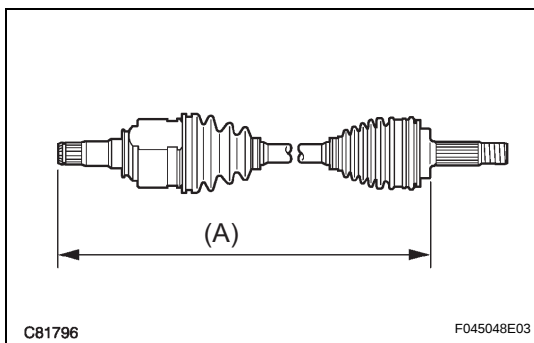
SST 09527-10011

**INSPECTION****1. INSPECT FRONT DRIVE SHAFT ASSEMBLY 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) For dimension (A), refer to the following table.

DRIVE TYPE	LH mm (in.)	RH mm (in.)
2WD	579.4 (22.81) +- 2.0 (0.08)	898.0 (35.35) +- 2.0 (0.08)
4WD	495.6 (19.51) +- 2.0 (0.08)	932.2 (36.70) +- 2.0 (0.08)



REASSEMBLY

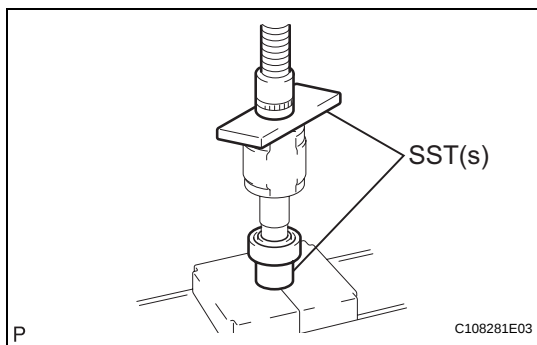
1. INSTALL FRONT DRIVE SHAFT BEARING

- (a) Using SST(s) and a press, install a new front drive shaft bearing.

SST 09726-40010, 09527-10011

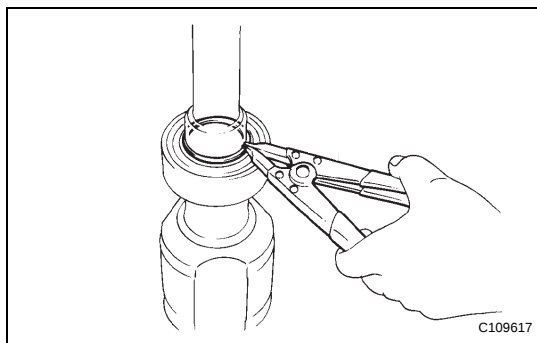
NOTICE:

Bearing should be completely installed.



2. INSTALL FRONT DRIVE SHAFT RH HOLE SNAP RING

- (a) Using a snap ring expander, install a new front drive shaft RH hole snap ring.



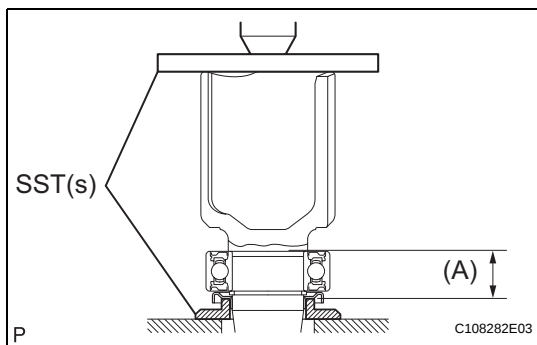
3. INSTALL FRONT DRIVE SHAFT DUST COVER

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

SST 09726-40010, 09527-10011

Distance (A):

26.8 to 27.4 mm (1.0551 to 1.0787 in.)



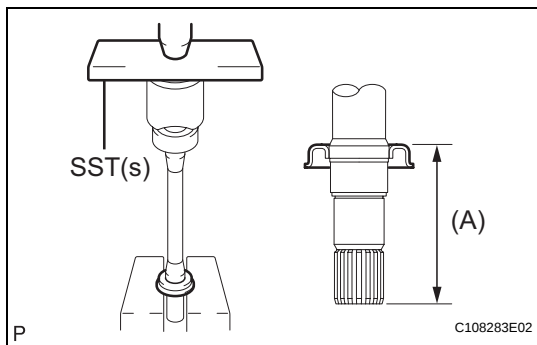
4. INSTALL FRONT DRIVE SHAFT DUST COVER RH (for 2WD)

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

SST 09527-10011

Distance (A):

109.5 mm (4.311 in.)



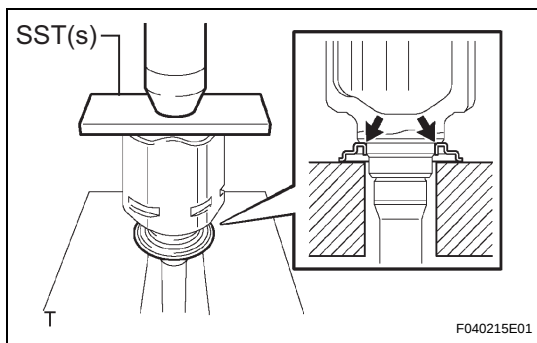
5. INSTALL FRONT DRIVE SHAFT DUST COVER RH (for 4WD)

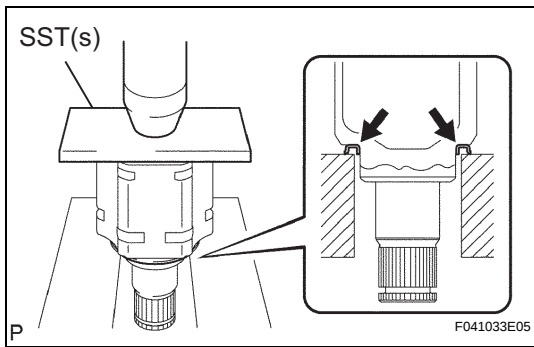
- (a) Using SST(S) and a press, install a new drive shaft dust cover RH.

SST 09527-10011

NOTICE:

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





6. INSTALL FRONT DRIVE SHAFT DUST COVER LH

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

SST 09527-10011

NOTICE:

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

7. INSTALL FRONT DRIVE SHAFT LH HOLE SNAP RING

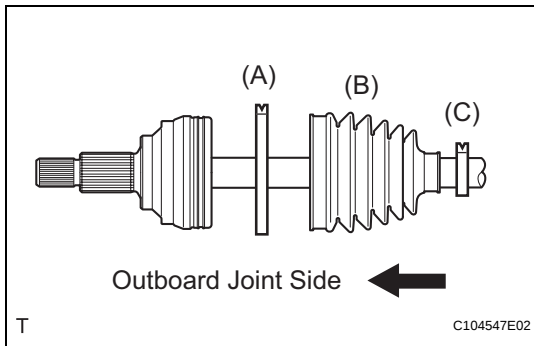
- (a) Install a new hole snap ring to the inboard joint shaft assembly.

8. 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.

- (a) Install new parts to the outboard joint shaft assembly in the following order.
- (1) Outboard joint boot No.2 clamp (A)
 - (2) Outboard joint boot (B)
 - (3) Outboard joint boot clamp (C)
- (b) Pack the outboard joint shaft and boot with grease.



Drive type	Grease capacity g (oz.)
2WD	205 to 225 g (7.2 to 7.9 oz.)
4WD	105 to 125 g (3.7 to 4.4 oz.)

9. INSTALL OUTBOARD JOINT BOOT NO.2 CLAMP

- (a) Hold the outboard joint shaft assembly between aluminium plates in a vise.

NOTICE:

Do not overtighten the vise.

- (b) Install the outboard joint boot No.2 clamp onto the boot.
- (c) Place SST onto the outboard joint boot No.2 clamp.

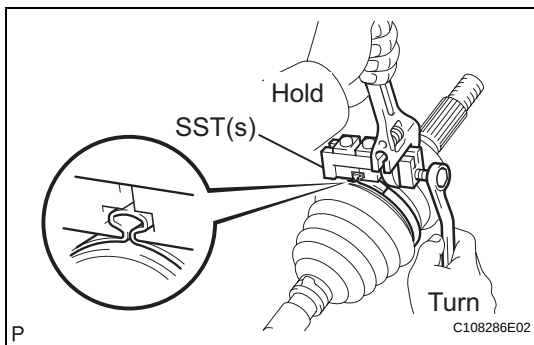
SST 09521-24010

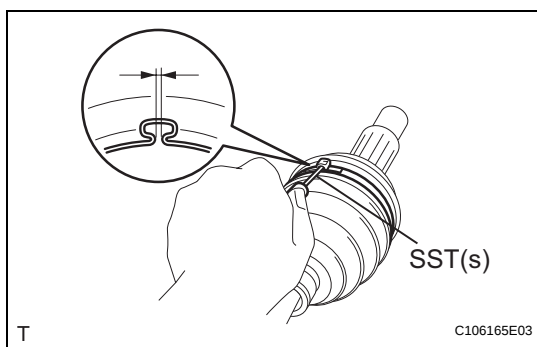
- (d) Tighten the SST(s) so that the outboard joint boot No.2 clamp is pinched.

SST 09521-24010

NOTICE:

Do not overtighten the SST(s).





- (e) Using SST(s), measure the clearance of the outboard joint boot No.2 clamp.

SST 09240-00020

Clearance:

0.8 mm (0.031 in.) or less

NOTICE:

When the measured value is greater than the specified value, retighten the clamp.

10. INSTALL OUTBOARD JOINT BOOT CLAMP

- (a) Install the outboard joint boot clamp perform the same procedures as for the outboard joint boot No.2 clamp.

11. INSTALL FRONT DRIVE SHAFT DAMPER

- (a) Install the drive shaft damper to the drive shaft.
 (b) Make sure that the damper is on the shaft groove.
 (c) Set the distance, as specified below.

Distance (A):

225.5 to 229.5 mm (8.8779 to 9.0354 in.)

12. INSTALL FRONT DRIVE SHAFT DAMPER CLAMP

- (a) Hold the outboard joint shaft assembly between aluminium plates in a vise.

NOTICE:

Do not overtighten the vise.

- (b) Install the drive shaft damper clamp to the damper.

NOTICE:

Be sure to install the clamp in the correct position.

- (c) Place SST onto the drive shaft damper clamp.

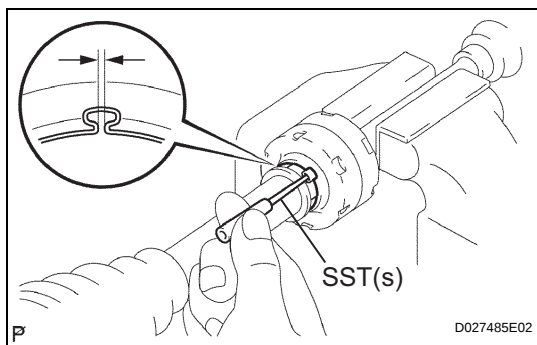
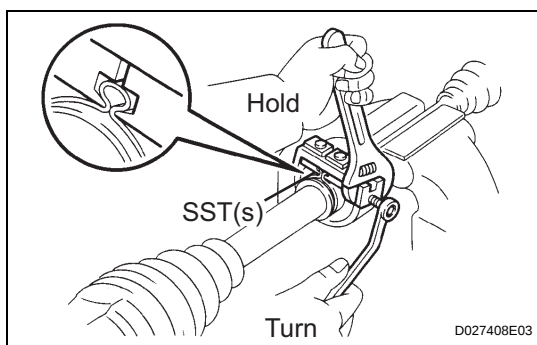
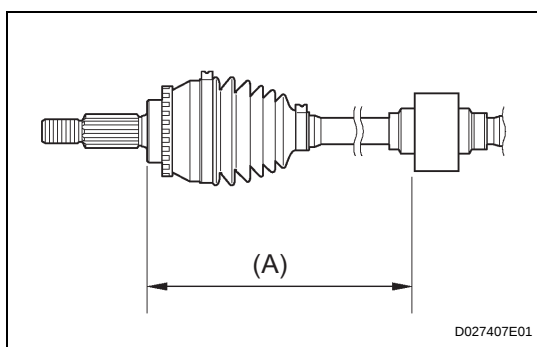
SST 09521-24010

- (d) Tighten the SST(s) so that the clamp is pinched.

SST 09521-24010

NOTICE:

Do not overtighten the SST(s).



- (e) Using SST(s), measure the clearance of the drive shaft damper clamp.

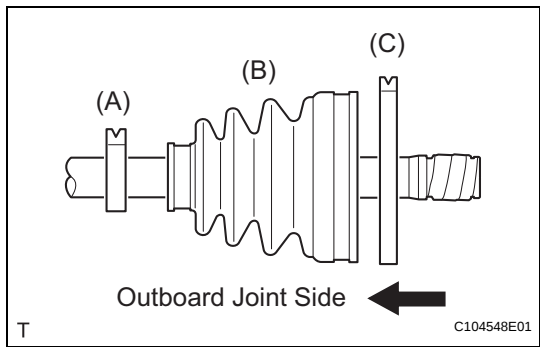
SST 09240-00020

Clearance:

0.8 mm (0.031 in.) or less

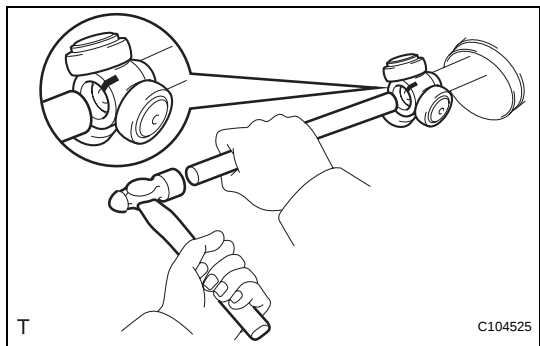
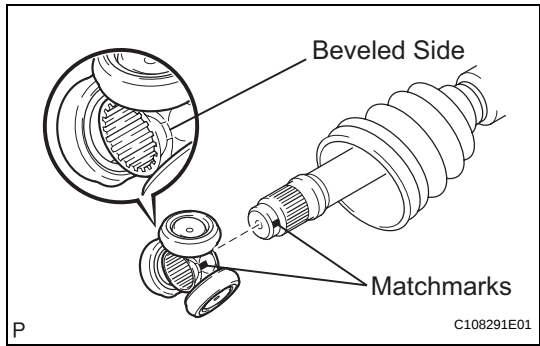
NOTICE:

Using SST, measure the clearance of the drive shaft damper clamp.

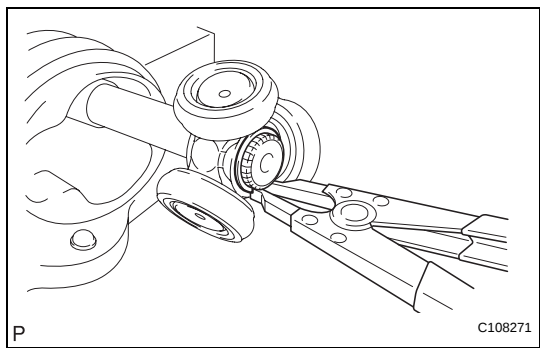


13. INSTALL INBOARD JOINT SHAFT ASSEMBLY

- (a) Install new parts to the inboard joint shaft assembly in the following order.
- (1) Inboard joint boot clamp (A)
 - (2) Inboard joint boot (B)
 - (3) Inboard joint boot No.2 clamp (C)
- (b) Hold the outboard joint shaft assembly between aluminium plates in a vise.
- NOTICE:**
Do not overtighten the vise.
- (c) Place the beveled side of the tripod axial spline toward the outboard joint shaft.
- (d) Align the matchmarks.

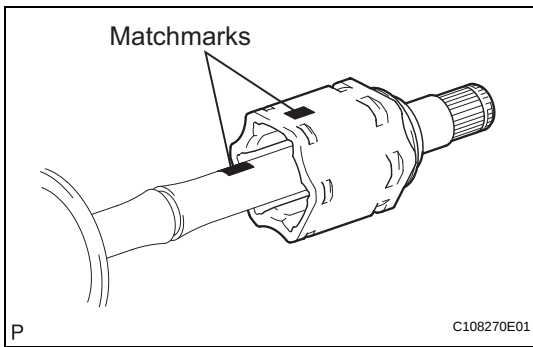


- (e) Using a brass bar and hammer, tap in the tripod to the outboard joint shaft.
- NOTICE:**
- **Do not tap the roller.**
 - **Be sure to install the tripod in the correct direction.**



- (f) Using a snap ring expander, install a new front inner shaft snap ring.
- (g) Pack the inboard joint shaft and boot with grease.

Drive type	Grease capacity g (oz.)
2WD	205 to 225 g (7.2 to 7.9 oz.)
4WD	105 to 125 g (3.7 to 4.4 oz.)



- (h) Align the matchmarks, install the inboard joint assembly to the outboard joint shaft assembly.

14. INSTALL INBOARD JOINT BOOT

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

15. INSTALL INBOARD JOINT BOOT NO.2 CLAMP

- (a) Hold the outboard joint shaft assembly between aluminium plates in a vise.

NOTICE:

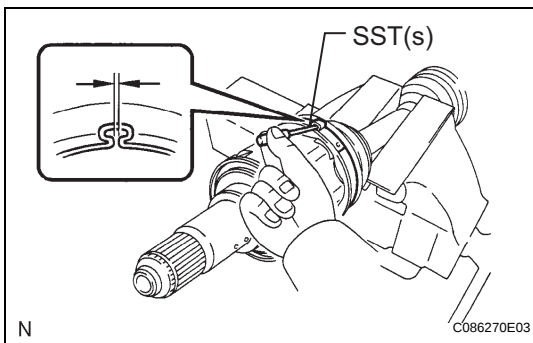
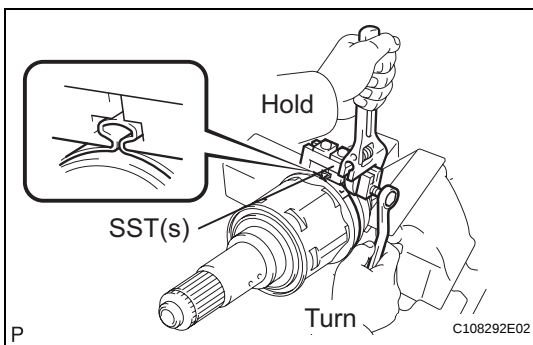
Do not overtighten the vise.

- (b) Install the inboard joint boot No.2 clamp onto the boot.
- (c) Place SST onto the inboard joint boot No.2 clamp.
- SST 09521-24010**
- (d) Tighten the SST(s) so that the inboard joint boot No.2 clamp is pinched.

SST 09521-24010

NOTICE:

Do not overtighten the SST(s).



- (e) Using SST(s), measure the clearance of the inboard joint boot No.2 clamp.

SST 09240-00020

Clearance:

0.8 mm (0.031 in.) or less

NOTICE:

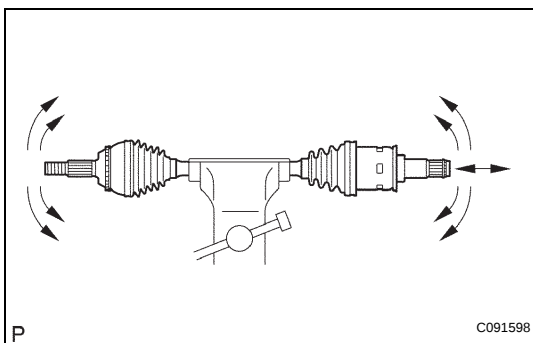
When the measured value is greater than the specified value, retighten the clamp.

16. INSTALL INBOARD JOINT BOOT CLAMP

- (a) Install the outboard joint boot clamp perform the same procedures as for the inboard joint boot No.2 clamp.

17. INSPECT FRONT DRIVE SHAFT ASSEMBLY

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



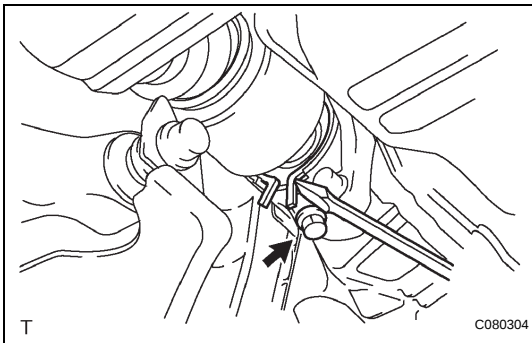
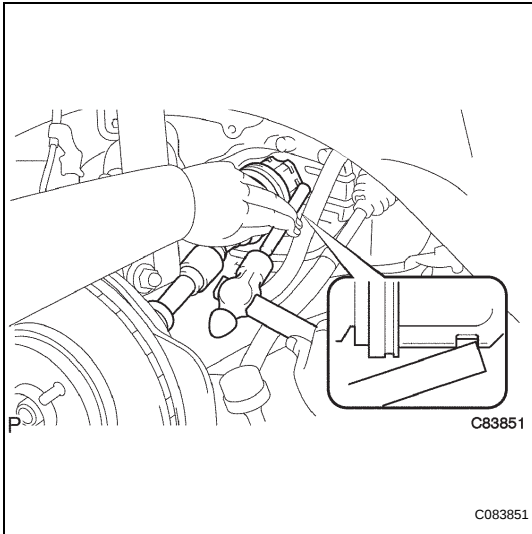
INSTALLATION

1. INSTALL FRONT DRIVE SHAFT ASSEMBLY LH

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

NOTICE:

- Set the snap ring with the opening side facing down.
- Be careful not to damage the drive shaft dust cover, boot and oil seal.
- Move the drive shaft assembly while keeping it level.



2. INSTALL FRONT DRIVE SHAFT ASSEMBLY RH (for 2WD)

- Using a screwdriver, install a new bearing bracket hole snap ring.

NOTICE:

Do not damage the oil seal and boot.

- Install the bolt.

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

3. INSTALL FRONT DRIVE SHAFT ASSEMBLY RH (for 4WD)

HINT:

Install the RH side using the same procedures as for the LH side.

NOTICE:

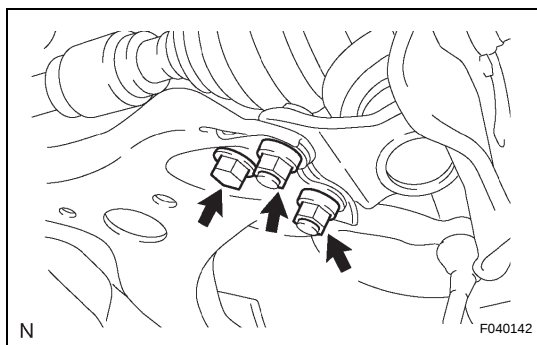
- Set the snap ring with the opening side facing downward.
- Be careful not to damage the transaxle case oil seal, inboard joint boot and drive shaft dust cover.

4. INSTALL FRONT AXLE ASSEMBLY LH

- Install the drive shaft assembly LH to the front axle assembly LH.

NOTICE:

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



5. INSTALL NO. 1 FRONT SUSPENSION ARM SUB-ASSEMBLY LOWER LH

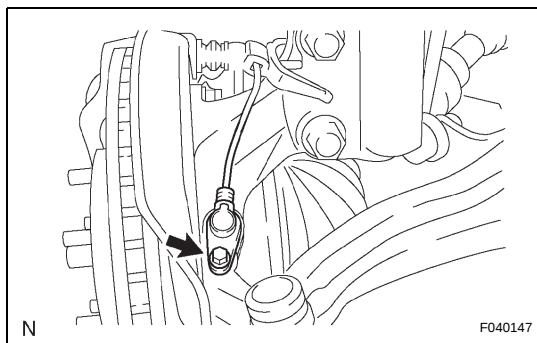
- (a) Install the lower ball joint to the front suspension arm sub-assembly lower with the bolt and nuts.
Torque: 127 N*m (1,300 kgf*cm, 94 ft.*lbf)

6. INSTALL TIE ROD END SUB-ASSEMBLY 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 up to 60° further.

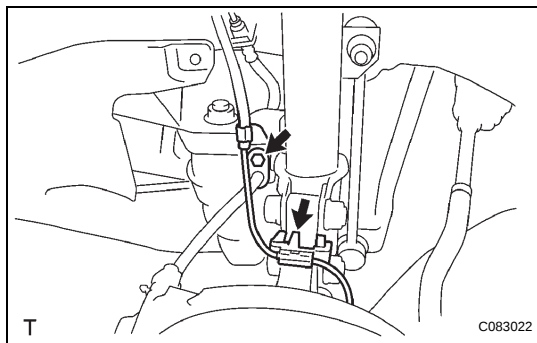


7. INSTALL SPEED SENSOR FRONT LH

- (a) Install the speed sensor to the steering knuckle with the bolt.
Torque: 8.0 N*m (82 kgf*cm, 71 in.*lbf)

NOTICE:

Prevent foreign matter from adhering to the speed sensor.

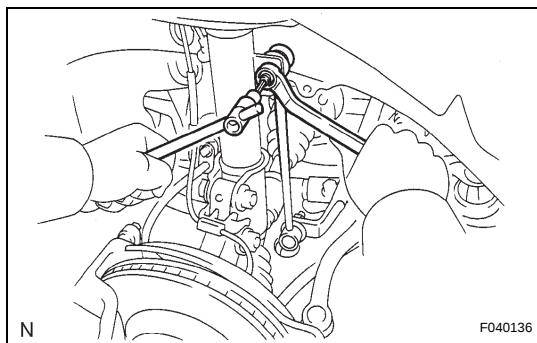


- (b) Install the flexible hose and the speed sensor to the shock absorber with the bolt and set the clip of sensor on knuckle.

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

NOTICE:

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

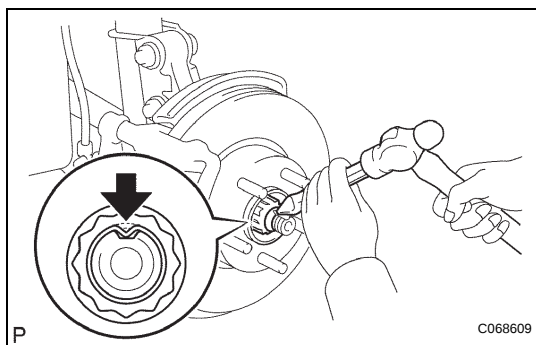


8. INSTALL FRONT STABILIZER LINK ASSEMBLY LH

- (a) Install the stabilizer link assembly LH with the nut.
Torque: 74 N*m (755 kgf*cm, 55 ft.*lbf)

HINT:

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

**9. INSTALL FRONT AXLE HUB LH NUT**

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

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

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

10. INSTALL FRONT WHEEL

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

11. ADD AUTOMATIC TRANSAXLE FLUID

HINT:

(See page [AX-130](#))

12. ADD TRANSFER OIL (for 4WD)

HINT:

(See page [TF-3](#))

13. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT

HINT:

(See page [SP-2](#))

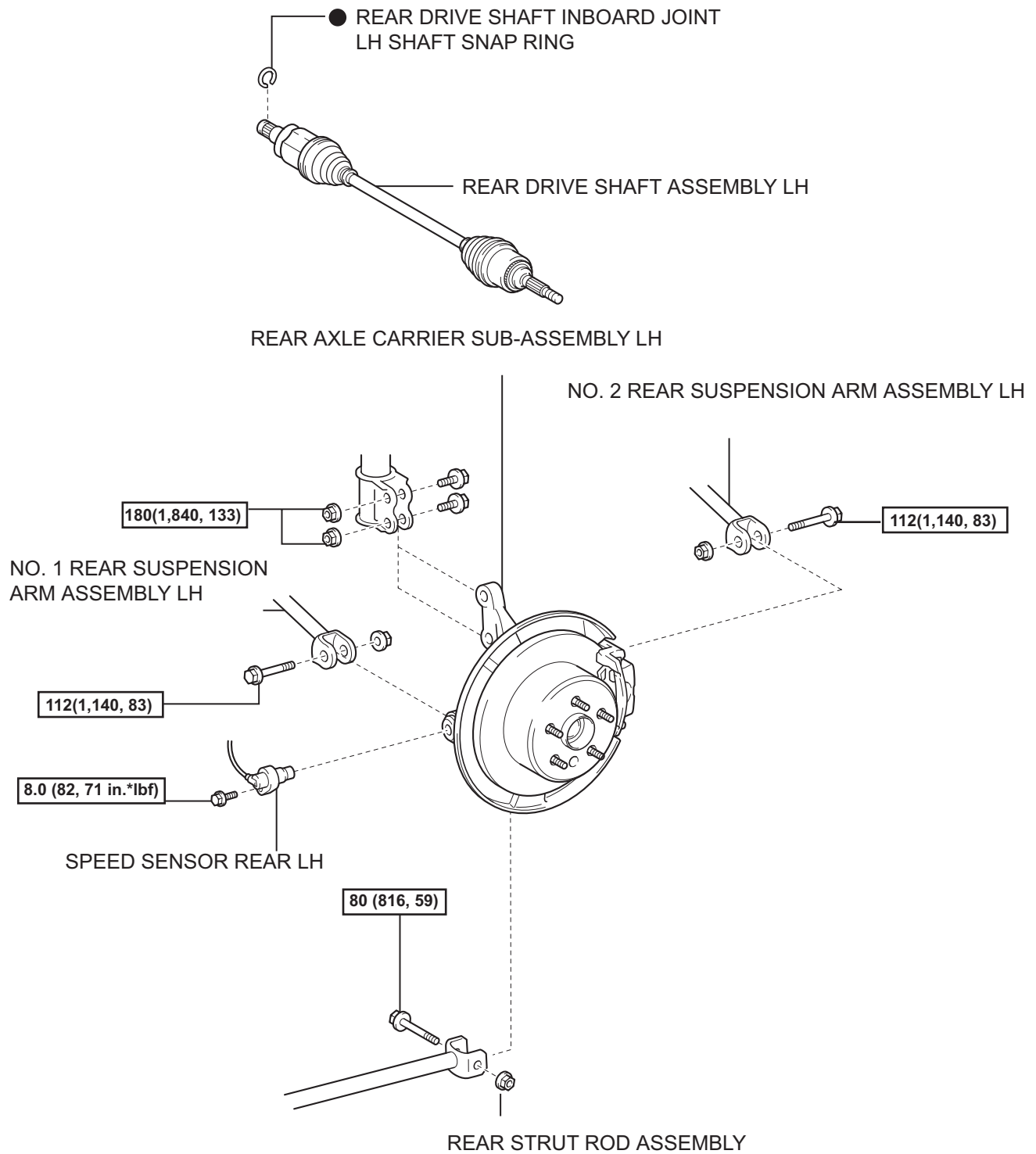
14. INSTALL NO. 2 ENGINE UNDER COVER (See page [EX-7](#))**15. INSTALL ENGINE UNDER COVER ASSEMBLY (See page [EX-7](#))****16. CHECK ABS SPEED SENSOR SIGNAL**

HINT:

(See page [BC-16](#))

REAR DRIVE SHAFT (for 4WD)

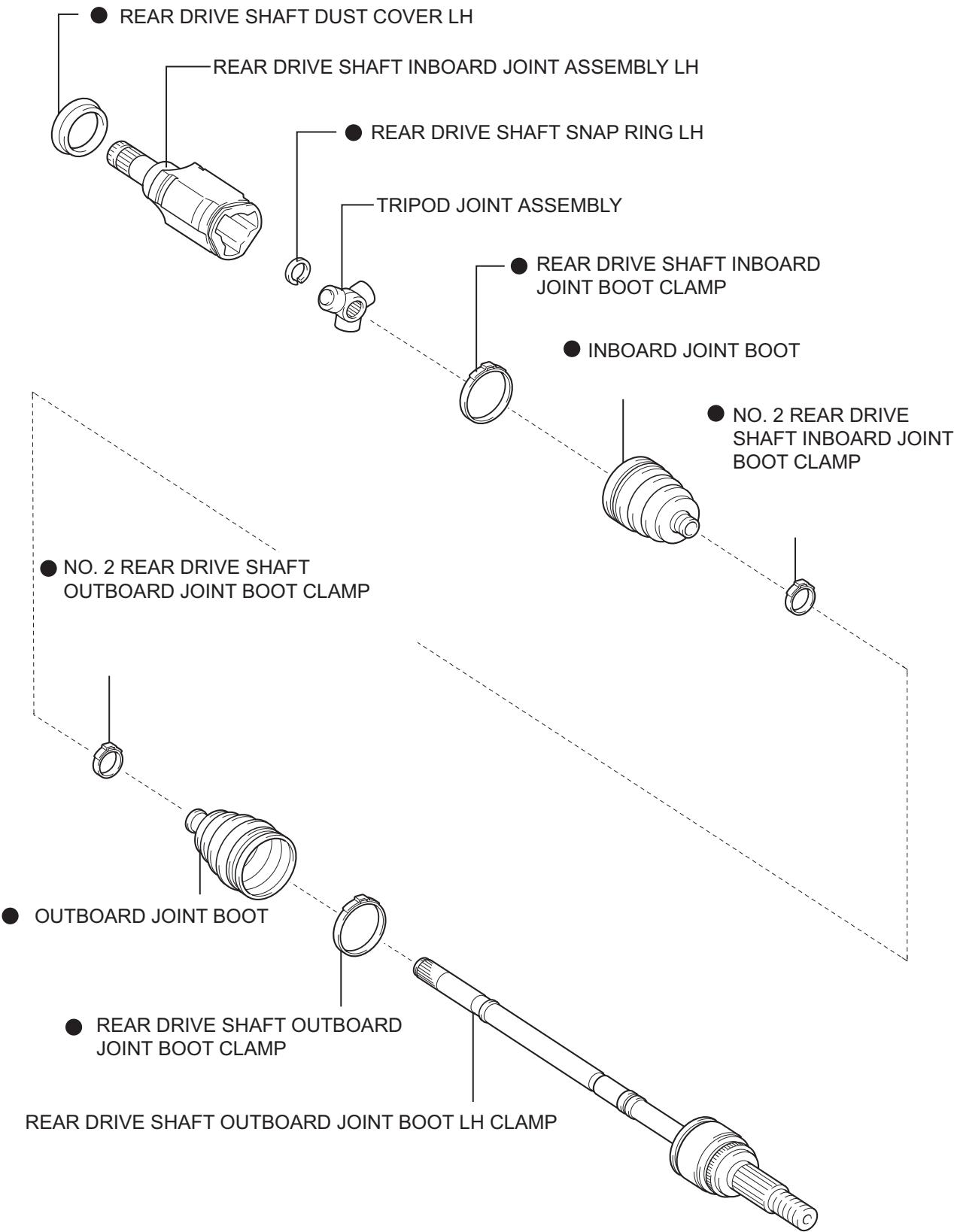
COMPONENTS



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

● Non-reusable part

DS



DS

REMOVAL

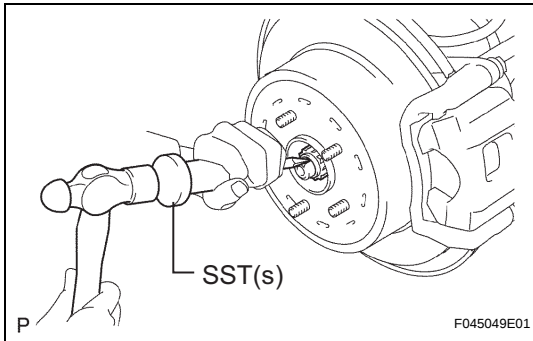
1. REMOVE REAR WHEEL

2. SEPARATE REAR SPEED SENSOR

- (a) Remove the bolt and the speed sensor from the axle carrier.

NOTICE:

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



3. REMOVE REAR AXLE SHAFT NUT

- (a) Using SST(s) and a hammer, unstake part of the axle shaft LH nut.

SST 09930-00010

NOTICE:

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

- (b) While apply the brakes, remove the lock axle shaft LH nut.

4. SEPARATE REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY

HINT:

(See page [LI-239](#))

5. SEPARATE NO. 1 REAR SUSPENSION ARM ASSEMBLY

HINT:

(See page [SP-52](#))

6. SEPARATE REAR STRUT ROD ASSEMBLY

HINT:

(See page [SP-48](#))

7. SEPARATE NO. 2 REAR SUSPENSION ARM ASSEMBLY

HINT:

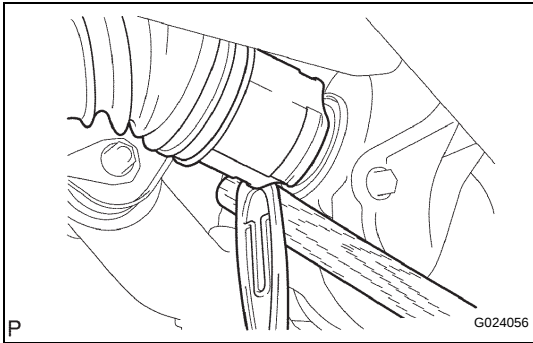
(See page [SP-61](#))

8. SEPARATE REAR AXLE CARRIER SUB-ASSEMBLY LH

- (a) Push the rear axle carrier sub-assembly LH toward the outside of the vehicle, using plastic hammer, separate The rear drive shaft assembly LH from the rear axle carrier sub-assembly LH.

NOTICE:

- Be careful not to damage the joint boot and speed sensor rotor.
- Do not push out the axle carrier sub-assembly LH.



9. REMOVE REAR DRIVE SHAFT ASSEMBLY LH

- (a) Remove the rear drive shaft, as shown in the illustration.

NOTICE:

Move the drive shaft assembly while keeping it level.

10. REMOVE REAR AXLE CARRIER SUB-ASSEMBLY

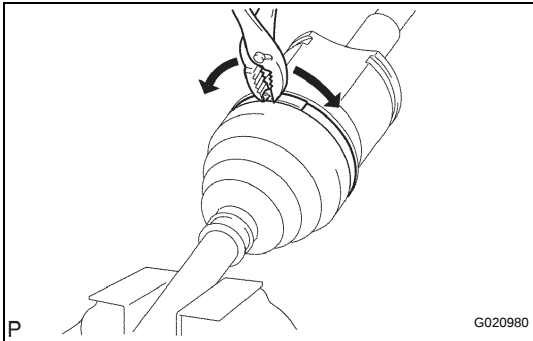
HINT:

(See page [AH-22](#))

DISASSEMBLY

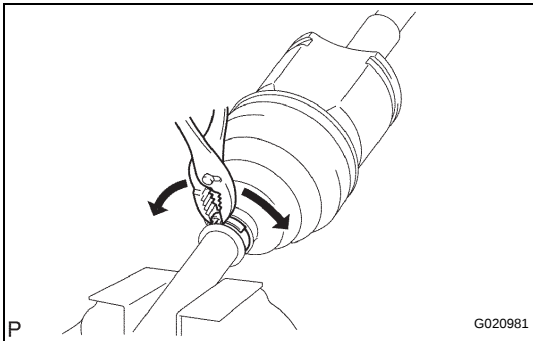
1. REMOVE REAR DRIVE SHAFT INBOARD JOINT BOOT CLAMP

- (a) Using a pliers, remove the inboard joint boot clamp as shown in the illustration.



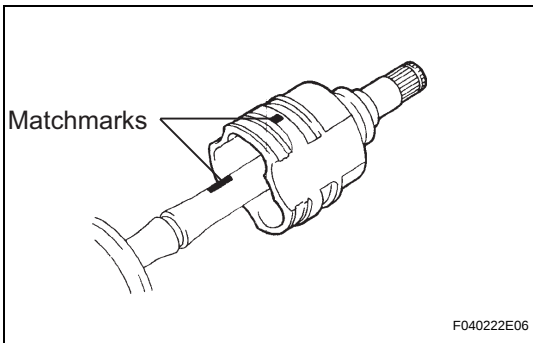
2. REMOVE NO. 2 REAR DRIVE SHAFT INBOARD JOINT BOOT CLAMP

- (a) Using pliers, remove the No. 2 rear drive shaft inboard joint boot clamp as shown in the illustration.



3. SEPARATE REAR DRIVE SHAFT INBOARD JOINT BOOT

- (a) Separate the rear drive shaft inboard joint boot from the inboard joint assembly.



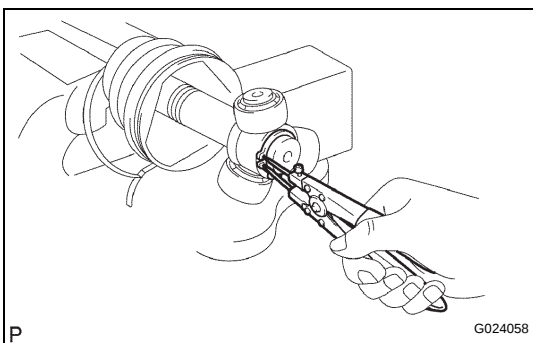
4. REMOVE REAR DRIVE SHAFT INBOARD JOINT ASSEMBLY

- (a) Put matchmarks on the inboard joint assembly and outboard joint shaft.

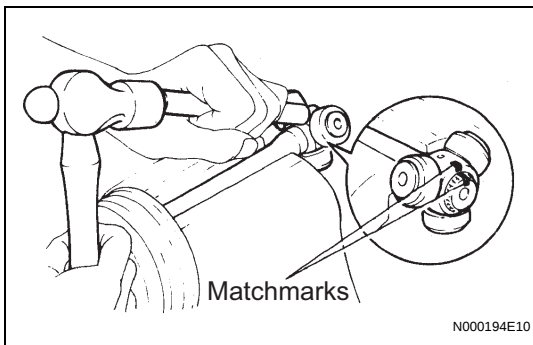
NOTICE:

Do not use a punch for the marks.

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



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



- (d) Put the 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.

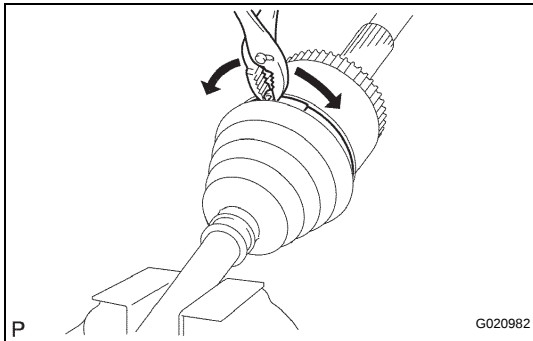
NOTICE:

Do not tap the roller.

- (f) Remove the inboard joint boot, inboard joint boot LH clamp and inboard joint boot LH No. 2 clamp.

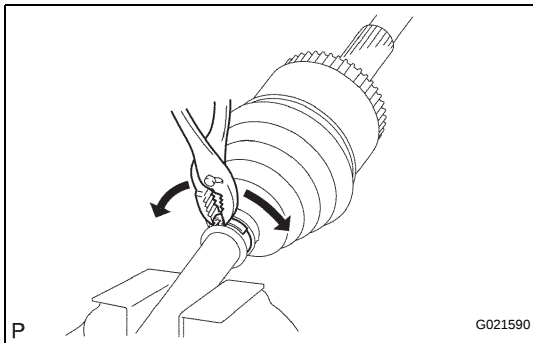
5. REMOVE REAR DRIVE SHAFT OUTBOARD JOINT BOOT CLAMP

- (a) Using pliers, remove the rear drive shaft outboard joint boot clamp as shown in the illustration.



6. REMOVE NO. 2 REAR DRIVE SHAFT OUTBOARD JOINT BOOT CLAMP

- (a) Using pliers, remove the No. 2 rear drive shaft outboard joint boot clamp as shown in the illustration.



7. REMOVE REAR DRIVE SHAFT OUTBOARD JOINT BOOT

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

NOTICE:

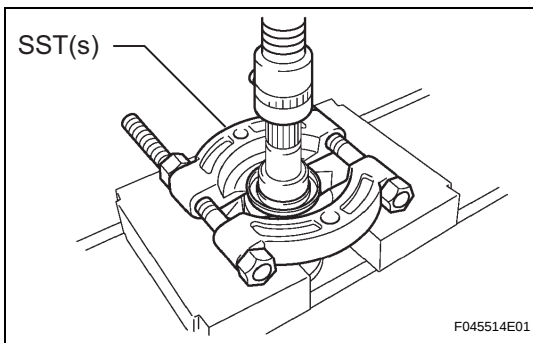
Do not disassemble the outboard joint.

**8. REMOVE REAR DRIVE SHAFT DUST COVER LH
SST 09950-00020**

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

NOTICE:

Be careful not to drop the inboard joint assembly. Do not overtighten the SST(s).



INSPECTION

1. INSPECT REAR DRIVE SHAFT ASSEMBLY 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.

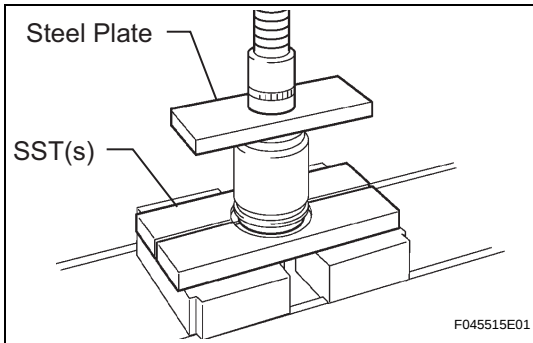
REASSEMBLY

1. INSTALL REAR DRIVE SHAFT DUST COVER LH SST 09527-21011

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

NOTICE:

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



2. INSTALL SNAP RING

- (a) Install a new snap ring.

NOTICE:

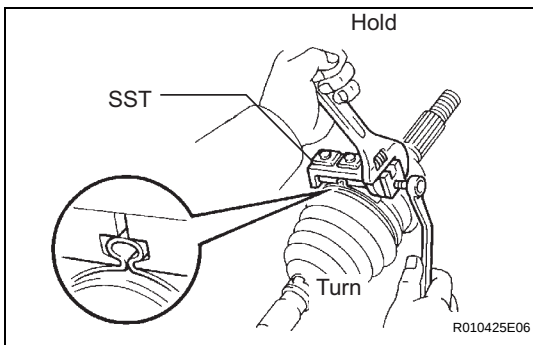
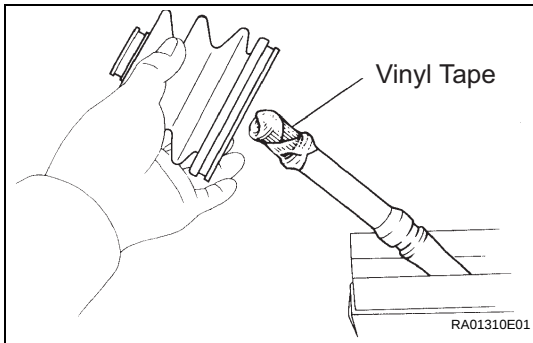
Be careful not to damage the boot.

3. INSTALL OUTBOARD JOINT BOOT

HINT:

Before install the boot, wrap the spline of the outboard joint shaft with vinyl tape to prevent the boot from bearing damaged.

- (a) Install new outboard joint boot, 2 outboard joint boot clamps, 2 inboard joint boot clamps and inboard joint boot.
- (b) Make sure that the 2 boots are on the shaft groove.



4. INSTALL REAR DRIVE SHAFT OUTBOARD JOINT BOOT LH CLAMP

- (a) Hold the drive shaft lightly in a soft vise.
- (b) Install the 2 outboard joint boot clamps to the boot.

HINT:

Before install the clamps, pack the outboard joint and boot with grease in the boot kit.

Grease capacity:

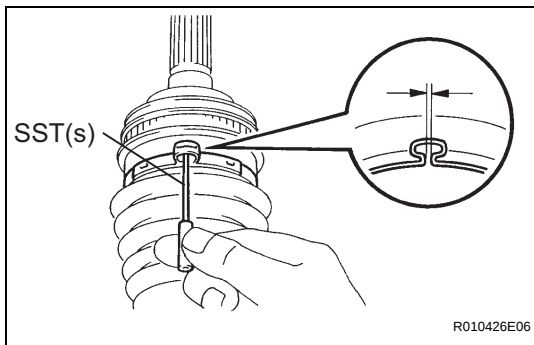
95 to 105 g (3.4 to 3.7 oz.)

- (c) Place SST(s) onto the outboard joint boot LH clamp.
SST 09521-24010

- (d) Tighten the SST(s) so that the outboard joint boot LH clamp is pinched.

NOTICE:

Do not overtighten the SST(s).



- (e) Using a SST(s), measure the clearance of the outboard joint boot LH clamp.

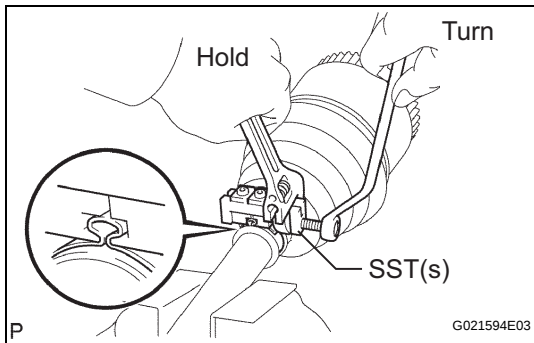
SST 09240-00020

Clearance:

1.3 mm (0.051 in.) or less

NOTICE:

When the measured value is greater than the specified value, retighten the clamp.



5. INSTALL NO. 2 REAR DRIVE SHAFT INBOARD JOINT BOOT LH CLAMP

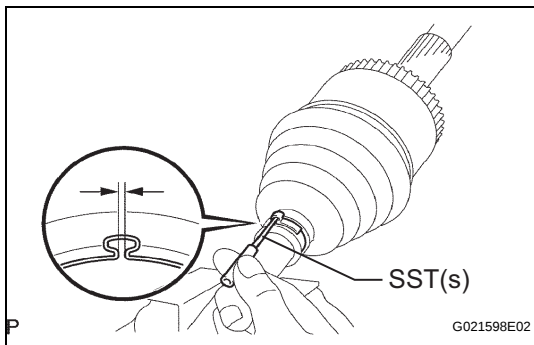
- (a) Place SST(s) onto the No. 2 rear drive shaft outboard joint boot LH clamp.

SST 09521-24010

- (b) Tighten the SST(s) so that the No. 2 rear drive shaft outboard joint boot LH clamp is pinched.

NOTICE:

Do not overtighten the SST(s).



- (c) Using SST(s), measure the clearance of the No. 2 rear drive shaft outboard joint boot LH clamp.

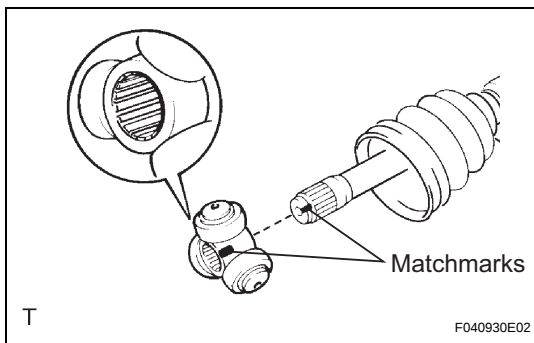
SST 09240-00020

Clearance:

1.3 mm (0.051 in.) or less

NOTICE:

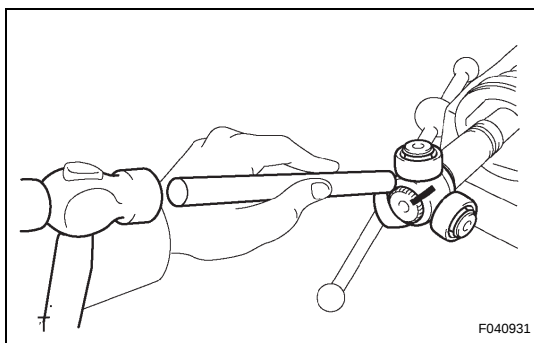
When the measured value is greater than the specified value, retighten the clamp.



6. INSTALL REAR DRIVE SHAFT INBOARD JOINT ASSEMBLY LH

- (a) Place the beveled side of the tripod joint axial spline toward the outboard joint shaft.

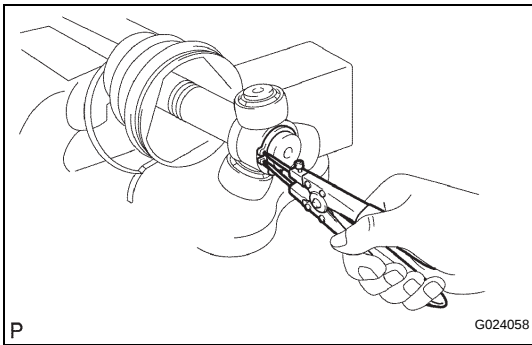
- (b) Align the matchmarks.



- (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 assembly in the correct direction.**

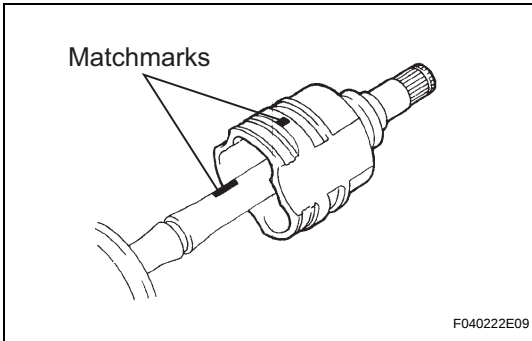


(d) Using a snap ring expander, install a new shaft snap ring.

(e) Pack the outboard joint shaft and boot with grease.

Grease capacity:

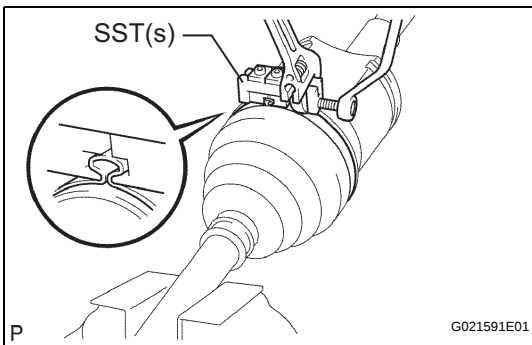
125.5 to 135.5 g (4.4 to 4.7 oz.)



(f) Align the matchmarks, install the inboard joint assembly to the outboard joint shaft assembly.

7. INSTALL INBOARD JOINT BOOT

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



8. INSPECT REAR DRIVE SHAFT INBOARD JOINT BOOT CLAMP

(a) Install the inboard joint boot clamp.

(1) Hold the drive shaft lightly in a soft vise.

(2) Install the 2 inboard joint boot clamps to the boot.

(3) Place SST(s) onto the inboard joint boot LH clamp.

SST 09521-24010

(4) Tighten the SST(s) so that the inboard joint boot LH clamp is pinched.

NOTICE:

Do not overtighten the SST(s).

(b) Using SST(s), measure the clearance of the inboard joint boot LH clamp.

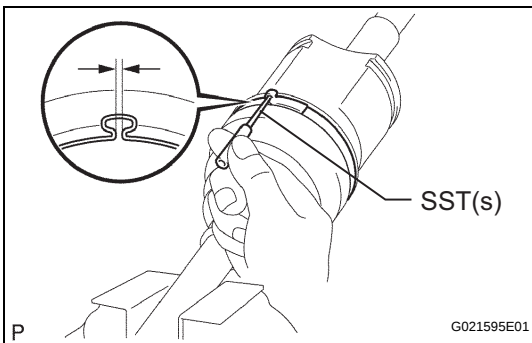
SST 09240-00020

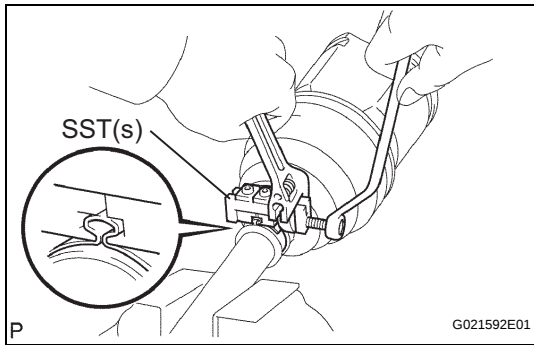
Clearance:

1.1 mm (0.043 in.) or less

NOTICE:

When the measured value is greater than the specified value, retighten the clamp.





9. REMOVE NO. 2 REAR DRIVE SHAFT INBOARD JOINT BOOT LH CLAMP

- Install the No. 2 rear drive shaft inboard joint boot LH clamp.
- Place SST(s) onto the No. 2 rear drive shaft inboard joint boot LH clamp.

SST 09521-24010

- Tighten the SST(s) so that the rear drive shaft inboard joint boot LH clamp is pinched.

NOTICE:

Do not overtighten the SST(s).

- Using SST(s), measure the clearance of the inboard joint boot LH clamp.

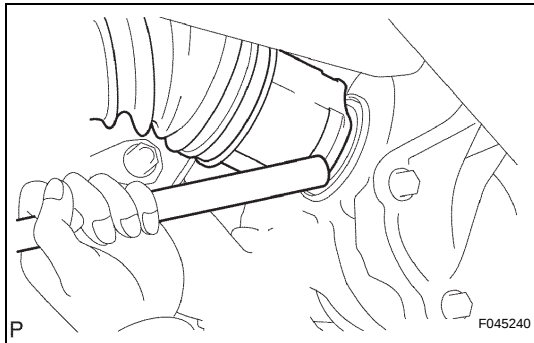
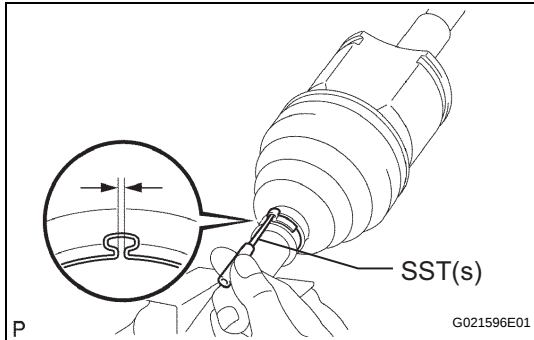
SST 09240-00020

Clearance:

1.1 mm (0.043 in.) or less

NOTICE:

When the measured value is greater than the specified value, retighten the clamp.



INSTALLATION

1. INSTALL REAR DRIVE SHAFT ASSEMBLY LH

- Align the shaft splines and install the drive shaft assembly 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.
- Move the drive shaft assembly while keeping it level.

2. INSTALL REAR AXLE CARRIER SUB-ASSEMBLY LH

- Push the rear axle carrier sub-assembly LH toward the inside of the vehicle fitting it to the spline part of the rear drive shaft assembly LH and insert.

NOTICE:

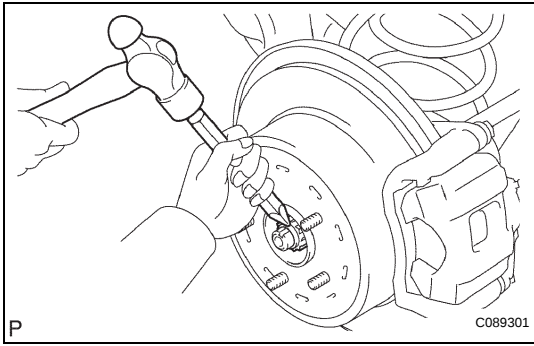
- Be careful not to damage the joint boot and speed sensor rotor.
- Do not push out the rear axle carrier sub-assembly LH excessively.

3. TEMPORARILY TIGHTEN REAR SUSPENSION ARM ASSEMBLY NO. 2 LH (See page [SP-61](#))

4. TEMPORARILY TIGHTEN STRUT ROD ASSEMBLY REAR (See page [SP-49](#))

5. TEMPORARILY TIGHTEN REAR SUSPENSION ARM ASSEMBLY NO. 1 LH (See page [SP-52](#))

6. INSTALL REAR HEIGHT CONTROL SENSOR SUB-ASSEMBLY (See page [LI-240](#))

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

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

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

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

8. INSTALL SPEED SENSOR REAR LH

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

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

HINT:

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

9. INSTALL REAR WHEEL

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

10. INSTALL STABILIZER BAR REAR (See page [SP-68](#))**11. FULLY TIGHTEN REAR SUSPENSION ARM ASSEMBLY NO. 2 LH (See page [SP-62](#))****12. FULLY TIGHTEN REAR STRUT ROD ASSEMBLY (See page [SP-50](#))****13. FULLY TIGHTEN REAR SUSPENSION ARM ASSEMBLY NO. 1 LH (See page [SP-53](#))****14. INSPECT AND ADJUST REAR WHEEL ALIGNMENT**

HINT:

(See page [SP-7](#))

15. CHECK HEADLIGHT AIM ONLY (w/ HID)

(See page [LI-196](#))

16. CHECK ABS SPEED SENSOR SIGNAL

HINT:

(See page [BC-16](#))