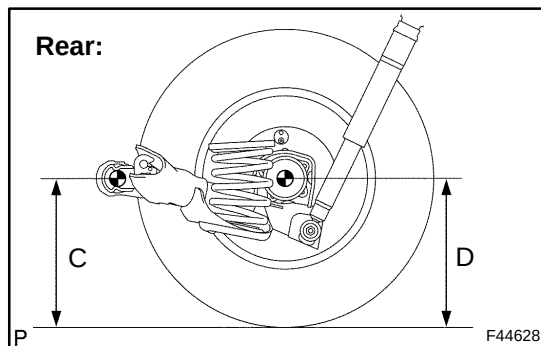
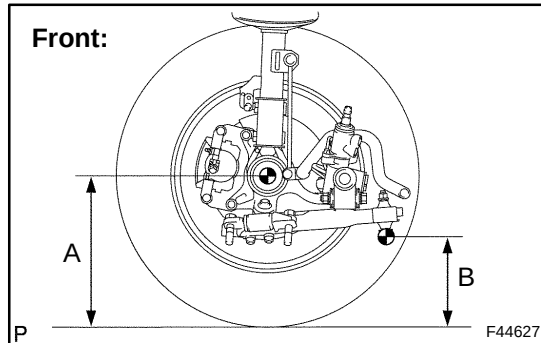


FRONT WHEEL ALIGNMENT

ADJUSTMENT

2605T-06

1. INSPECT TIRE (See page 28-1)



2. MEASURE VEHICLE HEIGHT

Vehicle height:

FF:

Front (A - B)	114 mm (4.48 in.)
Rear (D - C)	-18.0 mm (-0.7 in.)

4WD:

Front (A - B)	116 mm (4.57 in.)
Rear (D - C)	-53.5 mm (-2.1 in.)

Measuring points:

A: Ground clearance of front wheel center

B: Ground clearance of lower suspension arm No.2 set bolt center

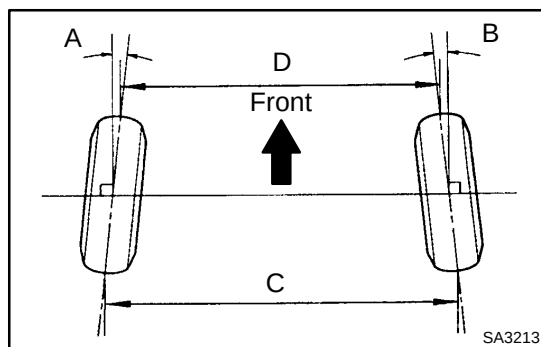
C: Ground clearance of rear axle carrier bush set bolt center

D: Ground clearance of rear wheel center

NOTICE:

Before inspecting the wheel alignment, adjust the vehicle height to the specified value.

If the vehicle height is not the specified value, Adjust it by pushing down or lifting the body.



3. INSPECT TOE-IN

Toe-in:

Toe-in (total)	A + B: $0^\circ \pm 12'$ ($0^\circ \pm 0.2^\circ$) C - D: 0 ± 2 mm (0 ± 0.08 in.)
----------------	---

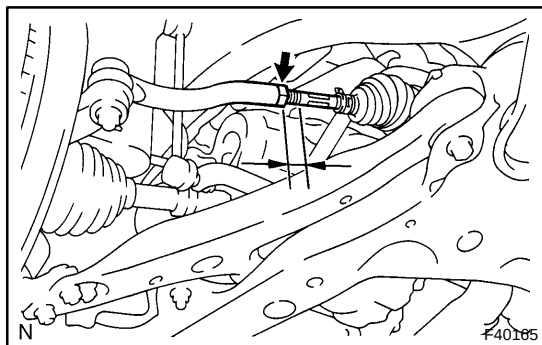
If the toe-in is not within the specified value, adjust it at the rack ends.

4. ADJUST TOE-IN

- Remove the rack boot set clips.
- Loosen the tie rod end lock nuts.
- Turn the right and left rack ends by an equal amount to adjust the toe-in.

HINT:

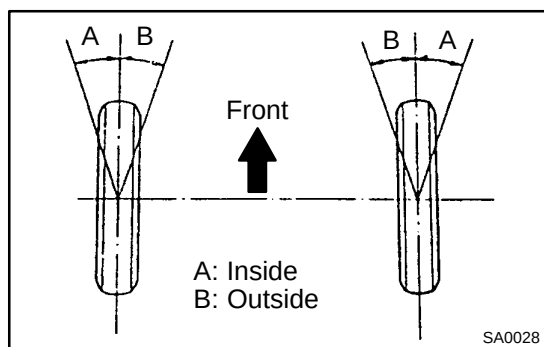
Adjust the toe-in to the center of the specified value as much as possible.



- (d) Make sure that the lengths of the right and left rack ends are the same.
- (e) Torque the tie rod end lock nuts.
Torque: 74 N·m (755 kgf·cm, 55 ft·lbf)
- (f) Place the boots on the seats and install the clips.

HINT:

Make sure that the boots are not twisted.



5. INSPECT WHEEL ANGLE

- (a) Turn the steering wheel fully and measure the turning angle.

Wheel turning angle:

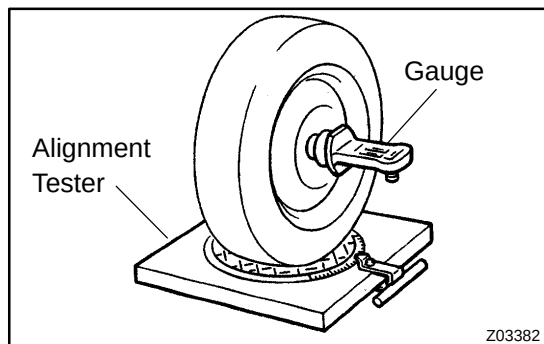
FF:

Inside wheel	42°45' ± 2° (42.75° ± 2°)
Outside wheel	36°21' (36.35°)

4WD:

Inside wheel	42°42' ± 2° (42.70° ± 2°)
Outside wheel	36°16' (36.27°)

If the right and left inside wheel angles differ from the specified value, check the right and left rack end lengths.



6. INSPECT CAMBER, CASTER AND STEERING AXIS INCLINATION

- (a) Install the camber-caster-kingpin gauge or position the vehicle on the wheel alignment tester.
- (b) Inspect the camber, caster and steering axis inclination.

FF:

Camber	Right-left error	-0°17' ± 45' (-0.28° ± 0.75°) 30' (0.5°) or less
Caster	Right-left error	2°48' ± 45' (2.80° ± 0.75°) 30' (0.5°) or less
Steering axis inclination	Right-left error	10°25' ± 45' (10.42° ± 0.75°) 30' (0.5°) or less

4WD:

Camber	Right-left error	-0°17' ± 45' (-0.28° ± 0.75°) 30' (0.5°) or less
Caster	Right-left error	2°40' ± 45' (2.67° ± 0.75°) 30' (0.5°) or less
Steering axis inclination	Right-left error	10°12' ± 45' (10.02° ± 0.75°) 30' (0.5°) or less

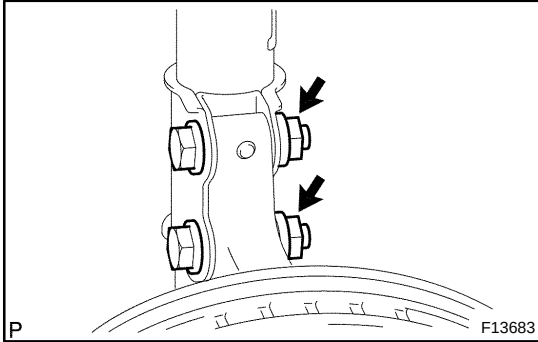
If the caster and steering axis inclination are not within the specified values, after the camber has been correctly adjusted, re-check the suspension parts for damaged and/or worn out parts.

7. ADJUST CAMBER

NOTICE:

After the camber has been adjusted, inspect the toe-in.

(a) Remove the front wheel.



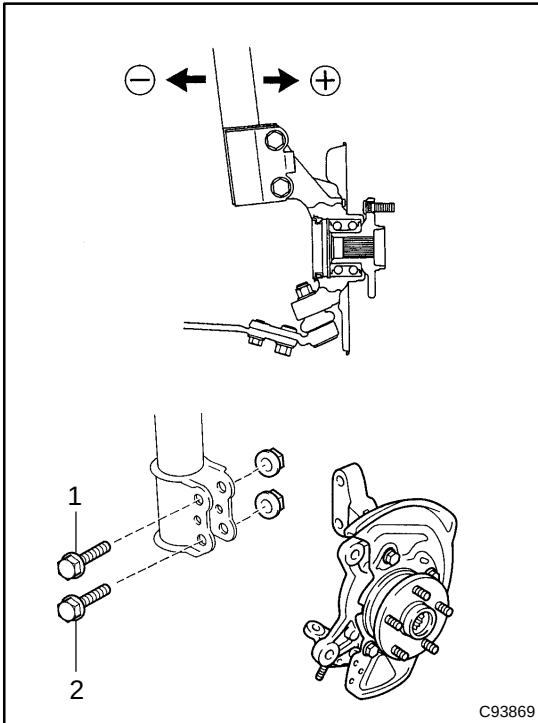
(b) Remove the 2 nuts on the lower side of the shock absorber.

NOTICE:

When removing the nut, hold the bolt not to rotate.

(c) Clean the installation surfaces of the shock absorber and the steering knuckle.

(d) Temporarily install the 2 nuts.



(e) Adjust the camber by pushing or pulling the lower side of the shock absorber in the direction in which the camber adjustment is required.

(f) Tighten the nuts.

Torque: 210 N·m (2,140 kgf·cm, 155 ft·lbf)

NOTICE:

When installing nut, stop the bolt from rotating and torque the nut.

(g) Install the front wheel.

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

(h) Check the camber.

HINT:

- Adjust the camber to the center of the specified value as much as possible.
- Adjusting value for the set bolts is 6' - 30' (0.1° - 0.5°).

If the camber is not within the specified value, using the following table, estimate how much additional camber adjustment will be required, and select the camber adjusting bolt.

NOTICE:

Tighten the adjusting bolt with a washer and a new nut.

Bolt Adjusting Value	Set Bolt		Adjusting Bolt					
	90080-10335		90105-17009		90105-17010		90105-17011	
								
	1	2	1	2	1	2	1	2
15'	●			●				
30'	●					●		
45'	●							●
1°00'			●					●
1°15'					●			●
1°30'							●	●

(i) Perform the procedure mentioned above again. At step (b), replace 1 or 2 selected bolts.

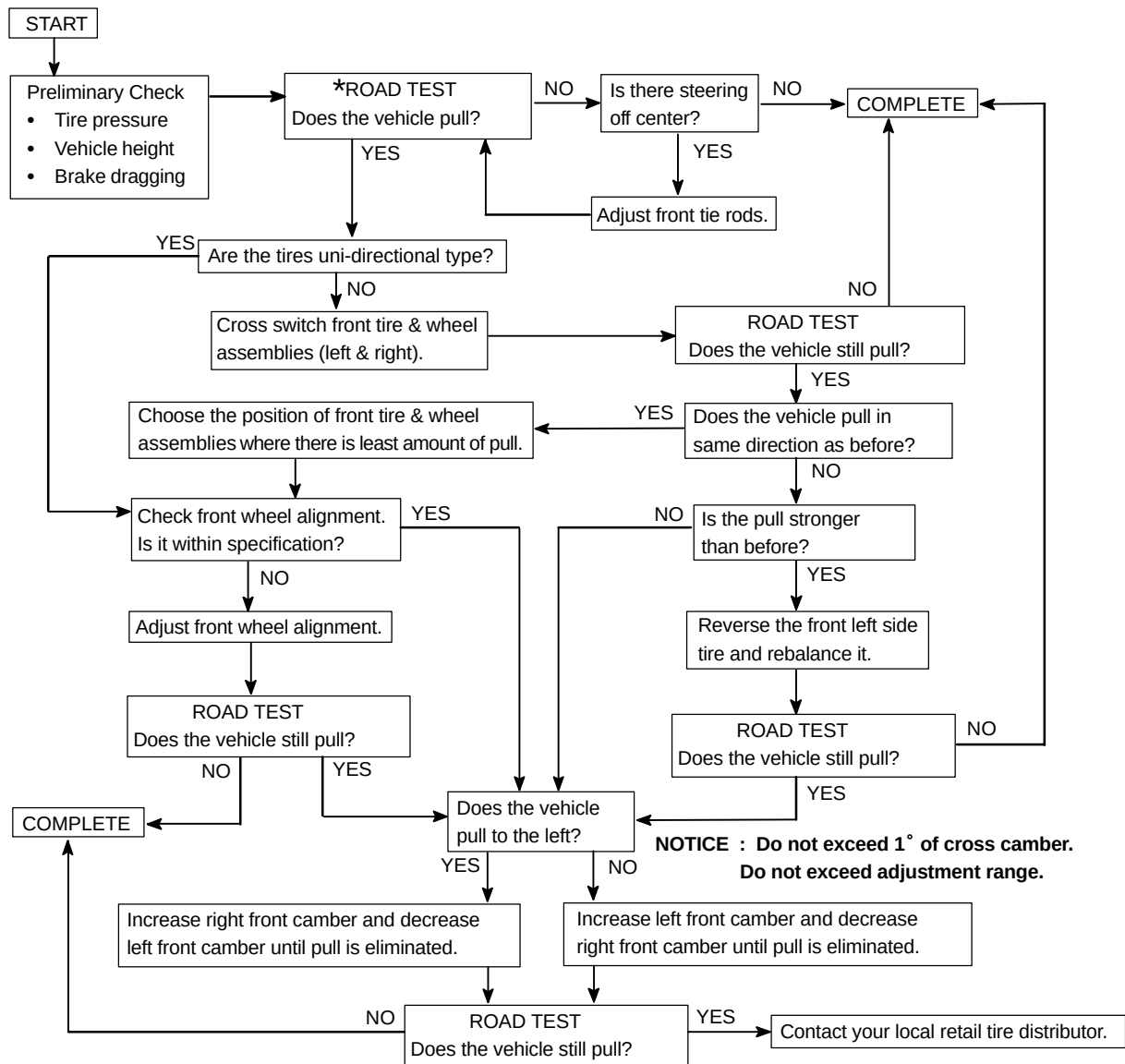
HINT:

When replacing the 2 bolts, replace 1 bolt for each time.

REPAIR

HINT:

This is the repair procedure for vehicle pull.



*Select a flat road where the vehicle can be driven in a straight line for 100 meters at a constant speed of 35mph. Please confirm safety and set the steering wheel to its straight position. Drive the vehicle in a straight line for 100 meters at a constant speed of 35 mph without holding the steering wheel.

(1) The vehicle can keep straight but the steering wheel has some angle.

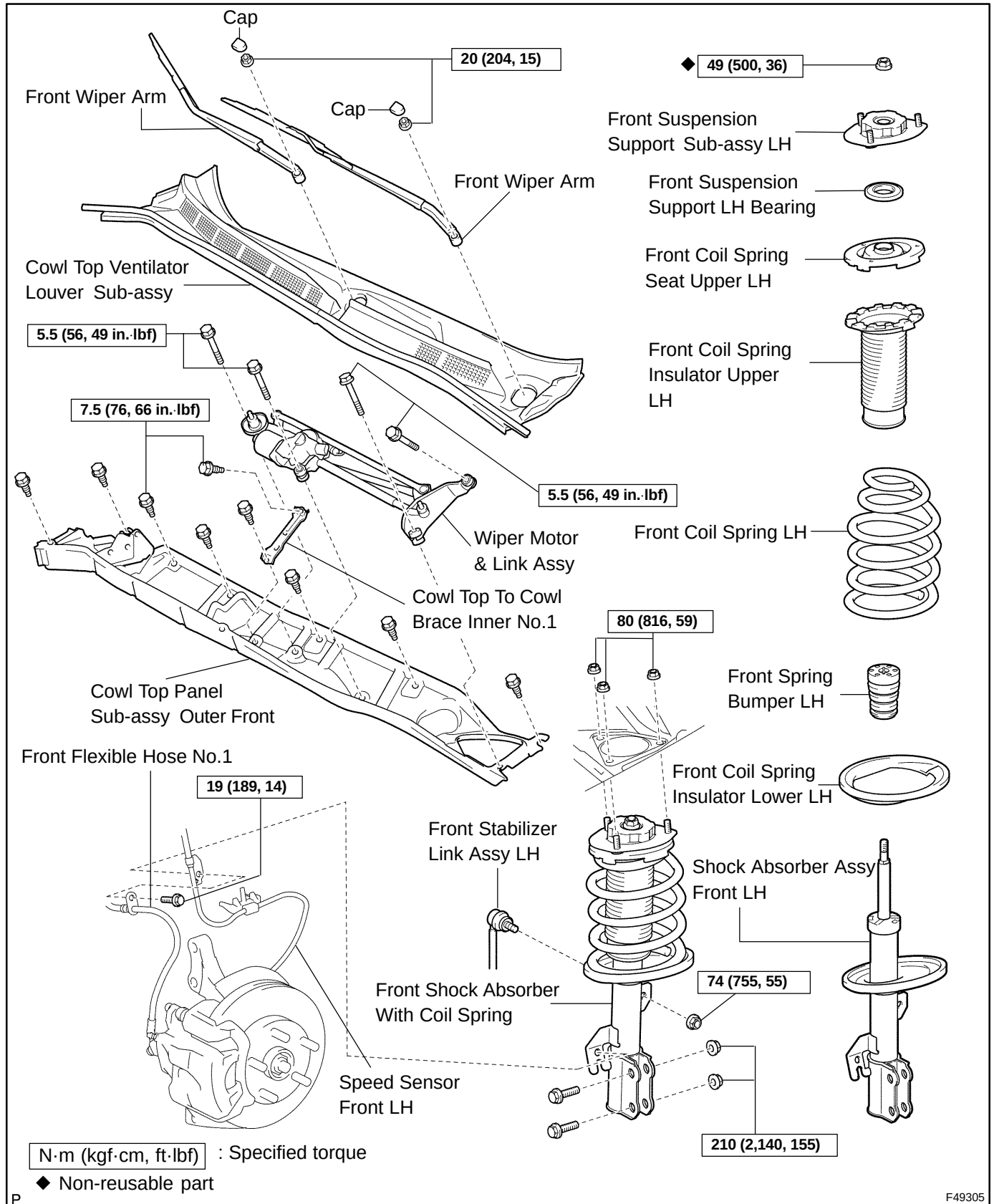
→ STEERING OFF CENTER (See page 50-4)

(2) The vehicle cannot keep straight.

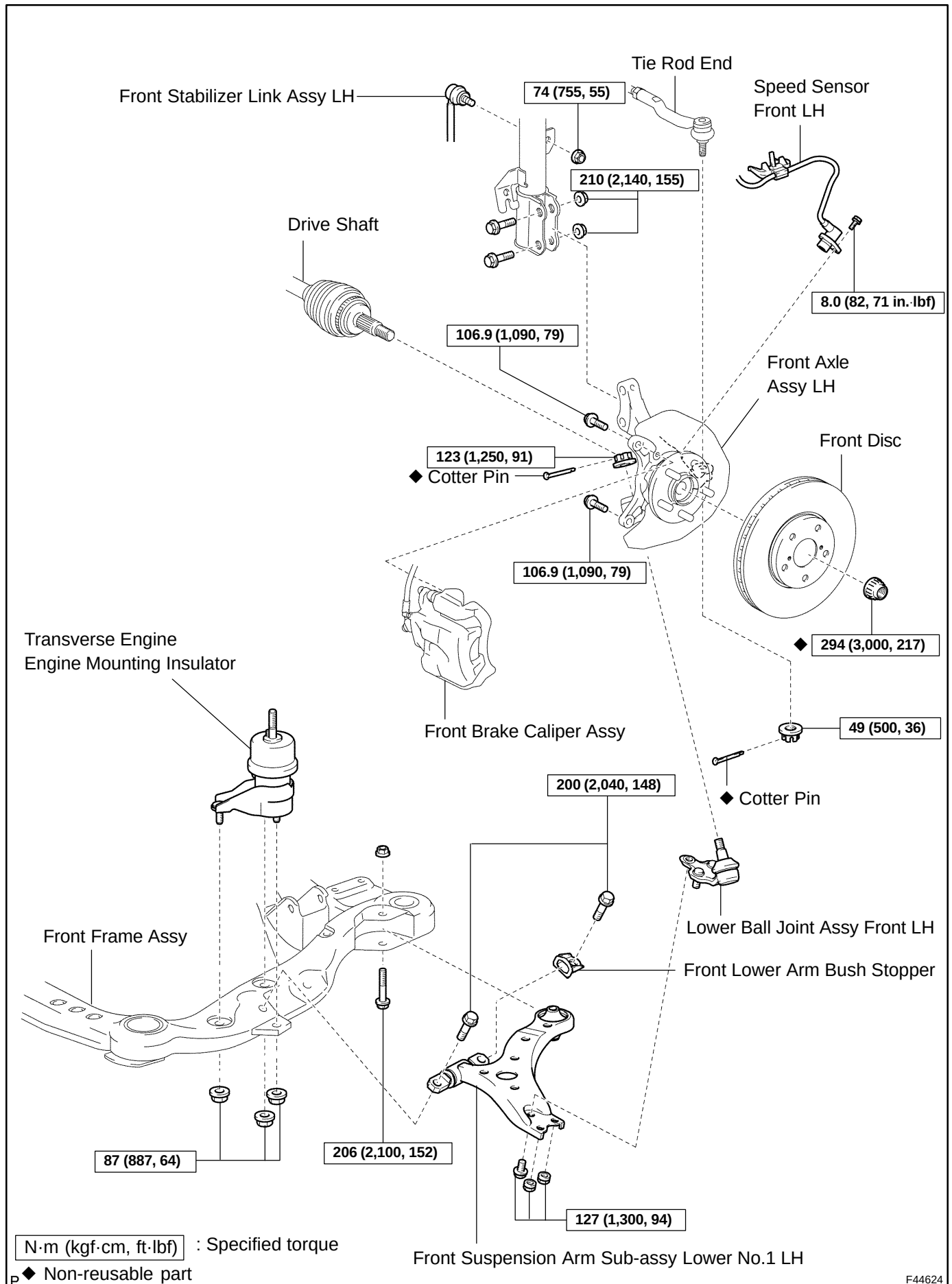
→ STEERING PULL

FRONT SUSPENSION COMPONENTS

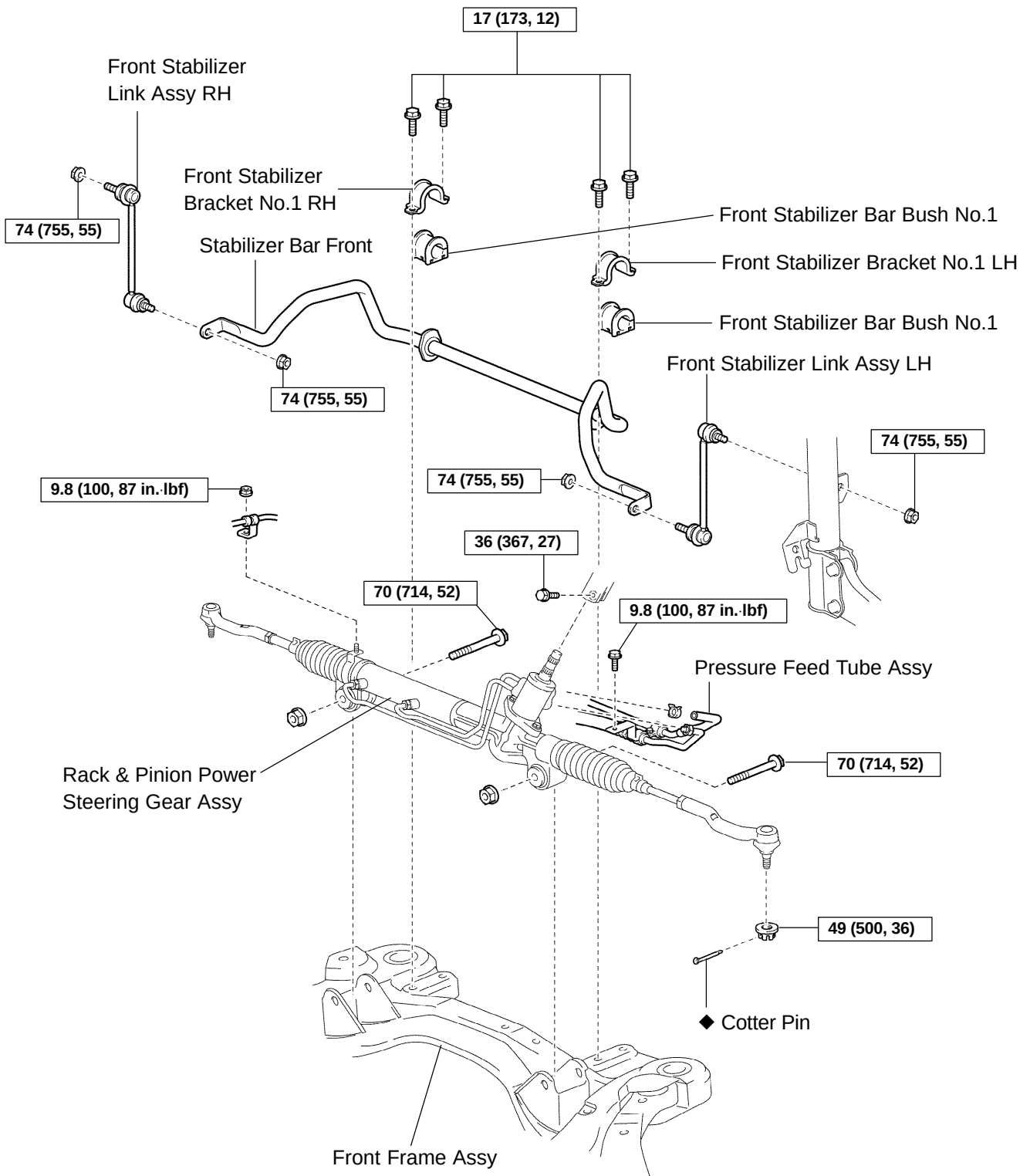
260DJ-02



F49305



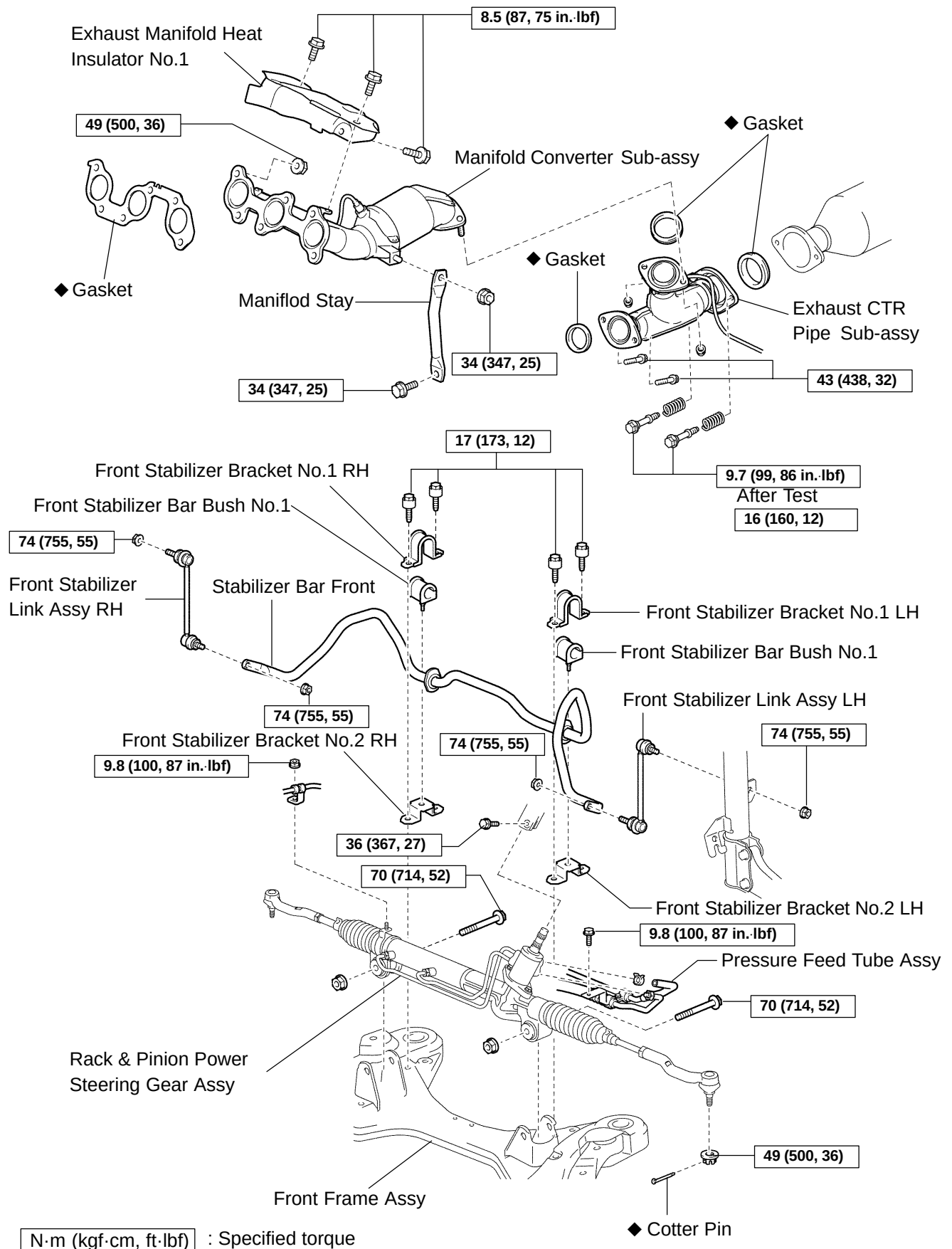
F44624

FF Type:

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

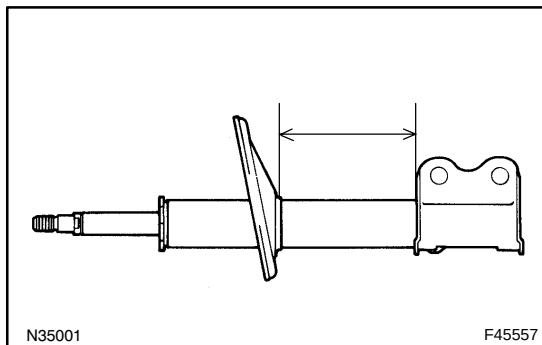
◆ Non-reusable part

F44625

4WD Type:

P

F52360



DISPOSAL

HINT:

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

1. **DISPOSE OF SHOCK ABSORBER ASSY FRONT LH**

- (a) Fully extend the shock absorber rod.
- (b) Using a drill, make a hole in the cylinder as shown in the illustration to discharge the gas inside.

CAUTION:

- **When drilling, chips may fly out, work carefully.**
- **The gas is colorless, odorless and non-poisonous.**

FRONT SUSPENSION SYSTEM

2601D-15

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
Bottoming	1. Vehicle (Overloaded) 2. Spring (Weak) 3. Shock absorber (Worn)	- 26-11 26-11
Sways/pitches	1. Tire (Worn or improperly inflated) 2. Stabilizer bar (Bent or broken) 3. Shock absorber (Worn)	28-1 26-21 26-24 26-11
Front wheel shimmy	1. Tire (Worn or improperly inflated) 2. Wheel (Out of balance) 3. Shock absorber (Worn) 4. Wheel alignment (Incorrect) 5. Ball joint (Worn) 6. Hub bearing (Worn) 7. Steering linkage (Loose or worn)	28-1 28-1 26-11 26-7 26-19 30-3 -
Abnormal tire wear	1. Tire (Worn or improperly inflated) 2. Wheel alignment (Incorrect) 3. Shock absorber (Worn) 4. Suspension parts (Worn)	28-1 26-7 26-11 -

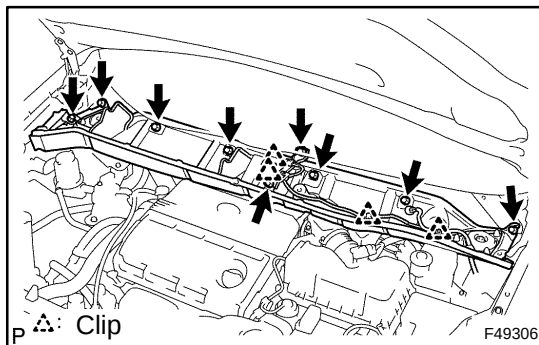
FRONT SHOCK ABSORBER WITH COIL SPRING OVERHAUL

260M0-01

HINT:

COMPONENTS: See page 26-3 .

1. REMOVE FRONT WHEEL
2. REMOVE FRONT WIPER ARM HEAD CAP (See page 66-8)
3. REMOVE FR WIPER ARM RH (See page 66-8)
4. REMOVE FR WIPER ARM LH (See page 66-8)
5. REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSY (See page 66-8)
6. REMOVE WINDSHIELD WIPER MOTOR & LINK ASSY (See page 66-8)

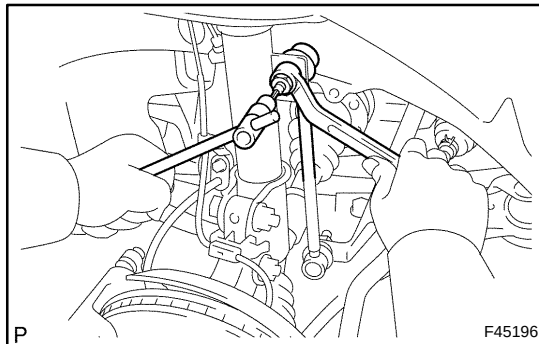


7. REMOVE COWL TOP PANEL SUB- ASSY OUTER FRONT

HINT:

When removing or installing the front shock absorber with coil spring RH, it is necessary to remove the cowl top panel sub-assy outer front.

- (a) Disconnect the wire harness from the cowl top panel sub-assy outer front.
- (b) Remove the 9 bolts, cowl top brace and cowl top panel sub-assy outer front.

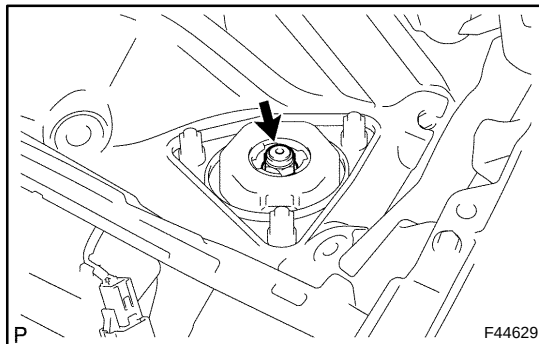


8. DISCONNECT FRONT STABILIZER LINK ASSY LH

- (a) Remove the nut and disconnect the front stabilizer link assy LH from the shock absorber assy front LH.

HINT:

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

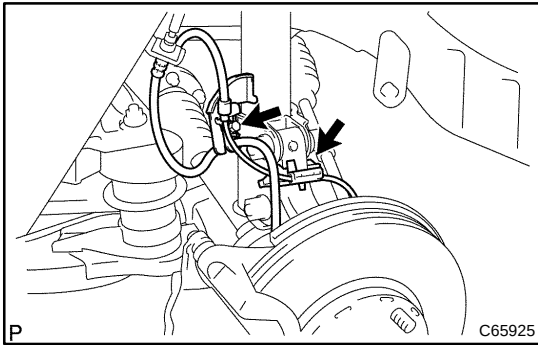


9. REMOVE FRONT SHOCK ABSORBER WITH COIL SPRING

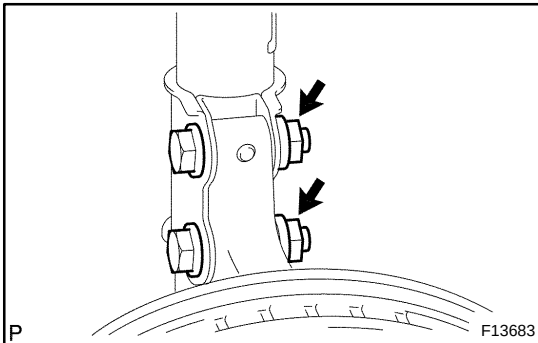
- (a) Loosen the lock nut.

NOTICE:

- Do not loosen the nut except for the purpose of disassembling the shock absorber assy front LH with coil spring.
- Do not remove the lock nut.



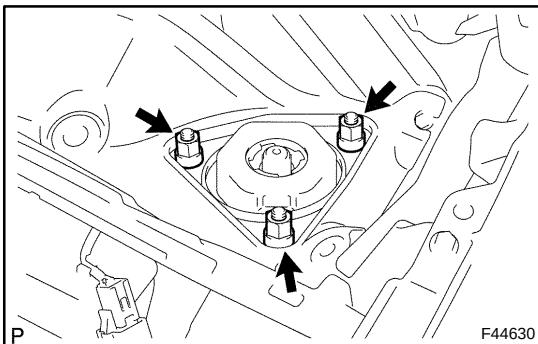
- (b) Remove the bolt, and disconnect the front flexible hose No.1 and speed sensor front LH.



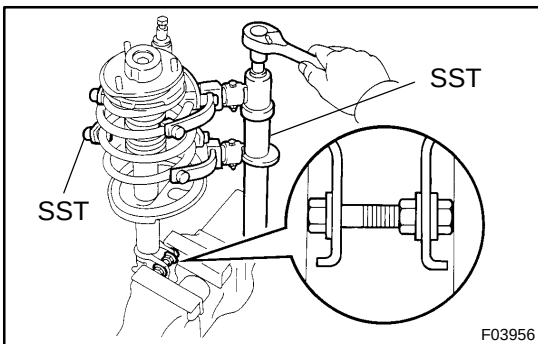
- (c) Remove the 2 nuts and 2 bolts on the lower side of the front shock absorber with coil spring.

NOTICE:

When removing the bolt, hold the nut not to rotate.



- (d) Remove the 3 nuts on the upper side of the front shock absorber with coil spring.
(e) Remove the front shock absorber with the coil spring.



10. FIX FRONT SHOCK ABSORBER WITH COIL SPRING

- (a) Install 2 nuts and a bolt to the bracket at the lower side of the front shock absorber with coil spring and secure it in a vise.

11. REMOVE FRONT SUSPENSION SUPPORT SUB-ASSY LH

- (a) Using SST, compress the front coil spring LH.
SST 09727-30021 (09727-00010, 09727-00021, 09727-00031)

NOTICE:

Do not use an impact wrench. It will damage the SST.

HINT:

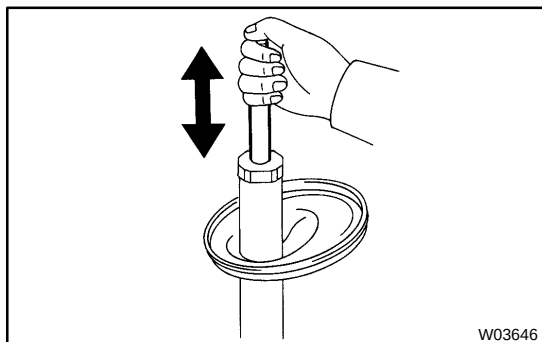
Use 2 SST of the same type.

- (b) Remove the lock nut and the front suspension support sub-assy.

12. REMOVE FRONT SUSPENSION SUPPORT LH BEARING

13. REMOVE FRONT COIL SPRING SEAT UPPER LH

14. REMOVE FRONT COIL SPRING INSULATOR UPPER LH
15. REMOVE FRONT COIL SPRING LH
16. REMOVE FRONT SPRING BUMPER LH
17. REMOVE FRONT COIL SPRING INSULATOR LOWER LH
18. REMOVE SHOCK ABSORBER ASSY FRONT LH



19. INSPECT SHOCK ABSORBER ASSY FRONT LH

- (a) Compress and extend the shock absorber rod and check that there is no unusual resistance or unusual sound during operation.

If there is any abnormality, replace the shock absorber assy front LH with a new one.

NOTICE:

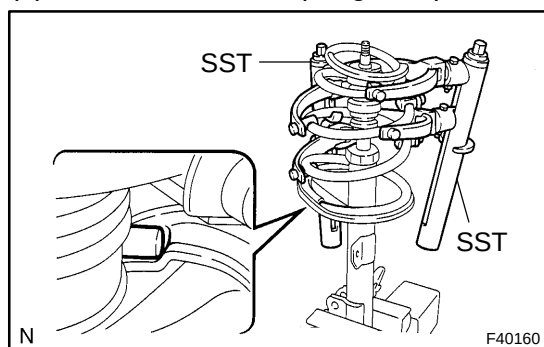
When disposing of the shock absorber assy front LH, see **DISPOSAL** on page [26-16](#).

20. INSTALL SHOCK ABSORBER ASSY FRONT LH
21. INSTALL FRONT COIL SPRING INSULATOR LOWER LH

- (a) Install the front coil spring insulator lower LH onto the shock absorber assy front LH.

22. INSTALL FRONT SPRING BUMPER LH

- (a) Install the front spring bumper LH to the piston rod.



23. INSTALL FRONT COIL SPRING LH

- (a) Using SST, compress the front coil spring LH.

SST 09727- 30021 (09727- 00010, 09727- 00021, 09727-00031)

NOTICE:

Do not use an impact wrench. It will damage the SST.

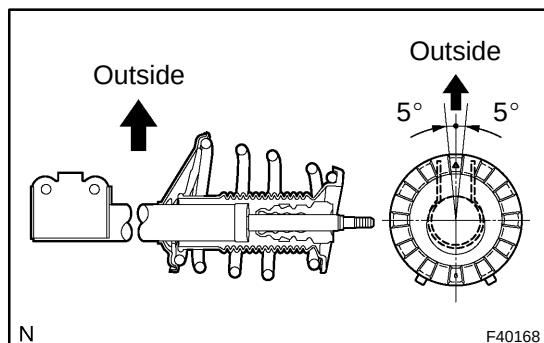
HINT:

Use 2 SST of the same type.

- (b) Install the front coil spring LH to the shock absorber assy front LH.

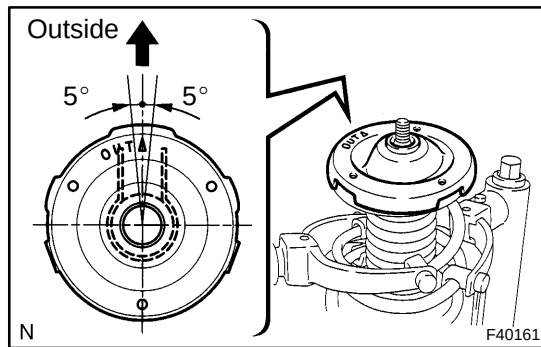
HINT:

Fit the front coil spring insulator lower LH into the gap of the shock absorber assy front LH.

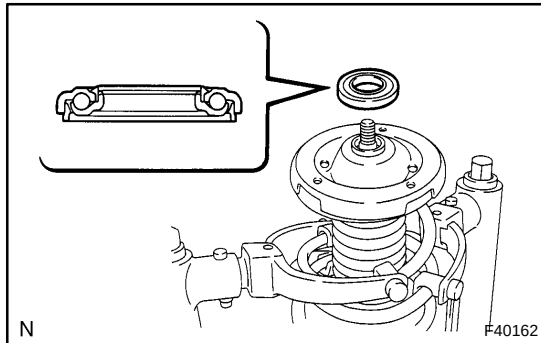


24. INSTALL FRONT COIL SPRING INSULATOR UPPER LH

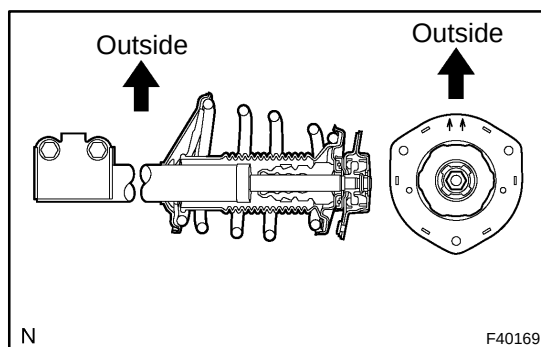
- (a) Install the front coil spring insulator upper LH as shown in the illustration.

**25. INSTALL FRONT COIL SPRING SEAT UPPER LH**

- (a) Install the front coil spring seat upper LH to the shock absorber assy front LH with the mark facing to the outside of the vehicle.

**26. INSTALL FRONT SUSPENSION SUPPORT LH BEARING**

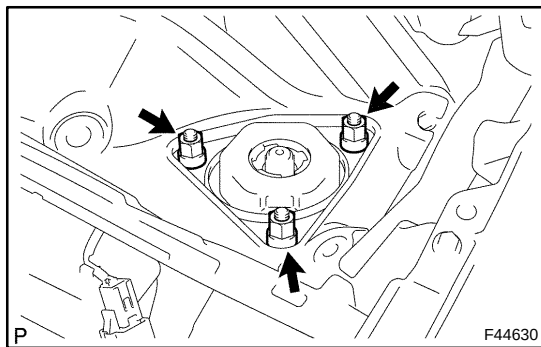
- (a) Install the front suspension support LH bearing.

**27. INSTALL FRONT SUSPENSION SUPPORT SUB-ASSY LH**

- (a) Install the front suspension support sub-assy LH with the mark facing to the outside of the vehicle.
(b) Temporarily tighten a new lock nut.

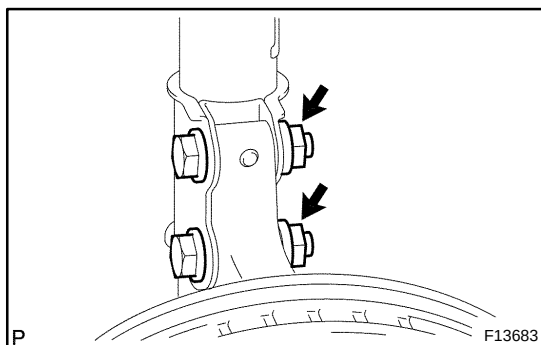
28. INSTALL FRONT SHOCK ABSORBER WITH COIL SPRING

- (a) Install the front shock absorber with coil spring as shown in the illustration.



- (b) Install the 3 nuts to the upper side of the front shock absorber with coil spring.

Torque: 80 N·m (816 kgf·cm, 59 ft·lbf)

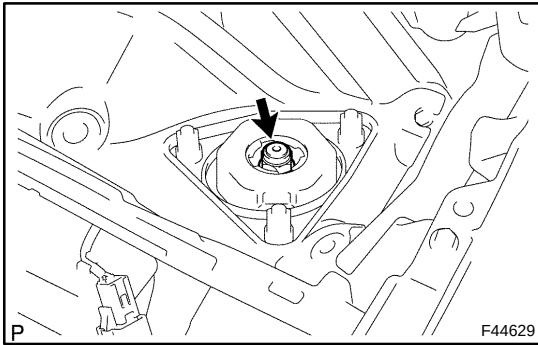


- (c) Install the 2 bolts and 2 nuts to the lower side of the front shock absorber with coil spring.

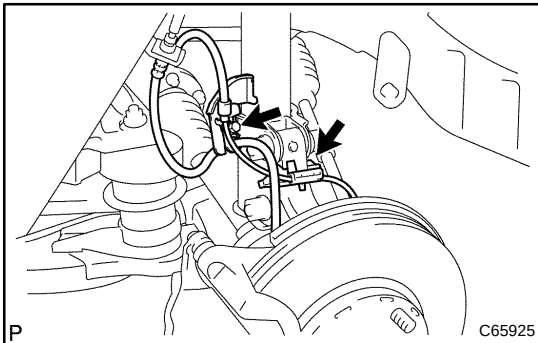
Torque: 210 N·m (2,140 kgf·cm, 155 ft·lbf)

NOTICE:

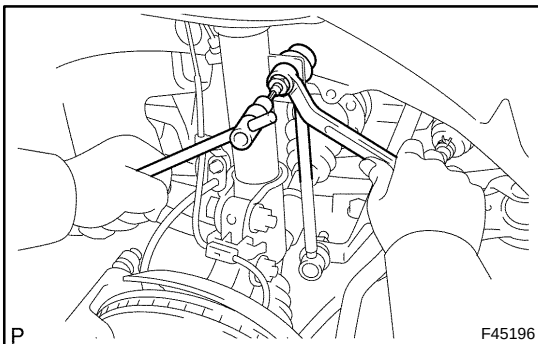
When installing the bolt, hold the nut not to rotate.



- (d) Fully tighten the lock nut.
Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)



- (e) Install the front flexible hose No.1 and speed sensor front LH with the bolt.
Torque: 19 N·m (189 kgf·cm, 14 ft·lbf)

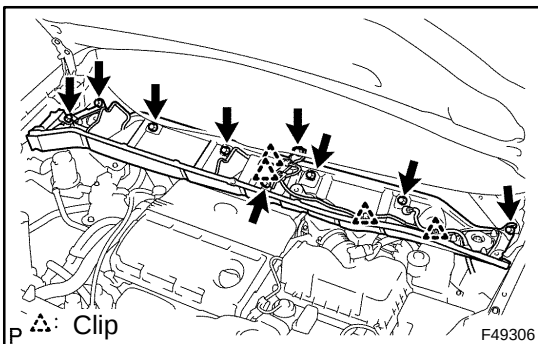


29. INSTALL FRONT STABILIZER LINK ASSY LH

- (a) Install the front 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.



30. INSTALL COWL TOP PANEL SUB- ASSY OUTER FRONT

- (a) Install the cowl top brace and cowl top panel sub-assy outer front with the 9 bolts.
Torque: 7.5 N·m (76 kgf·cm, 66 in·lbf)
 (b) Connect the wire harness to the cowl top panel sub-assy outer front.

31. INSTALL WINDSHIELD WIPER MOTOR & LINK ASSY (See page [66-8](#))
 32. INSTALL FR WIPER ARM LH (See page [66-8](#))
 33. INSTALL FR WIPER ARM RH (See page [66-8](#))
 34. INSTALL FRONT WHEEL
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)
 35. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page [26-7](#))

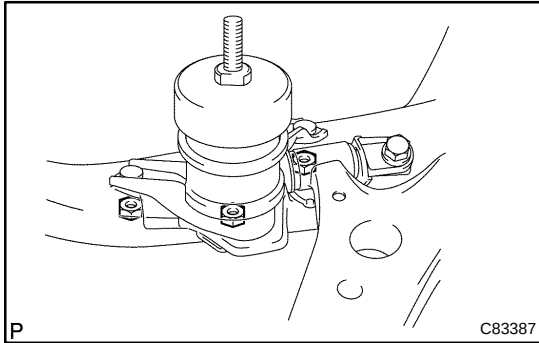
FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH REPLACEMENT

2601H-12

HINT:

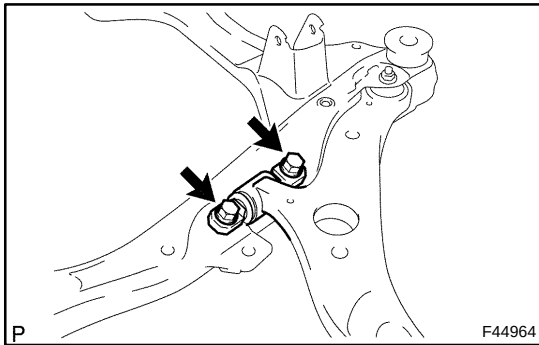
COMPONENTS: See page 26-3 , 14-17 .

1. REMOVE ENGINE ASSEMBLY WITH TRANSAXLE (See page 14-33)



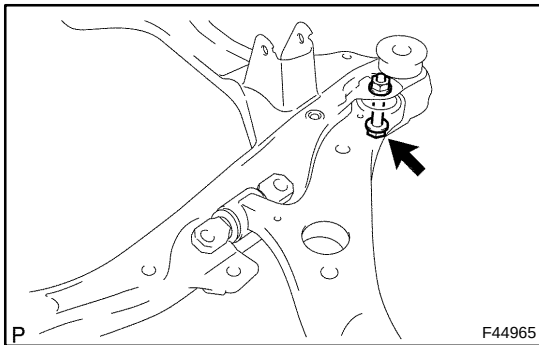
2. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

- (a) Remove the 3 nuts and transverse engine engine mounting insulator.



3. REMOVE FRONT SUSPENSION ARM SUB- ASSY LOWER NO.1 LH

- (a) Remove the 2 bolts on the front side of the front suspension arm sub-assy lower No.1 LH.

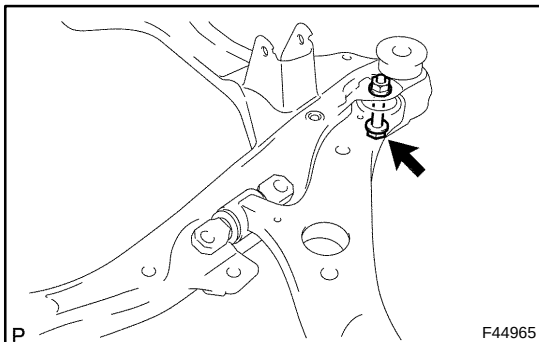


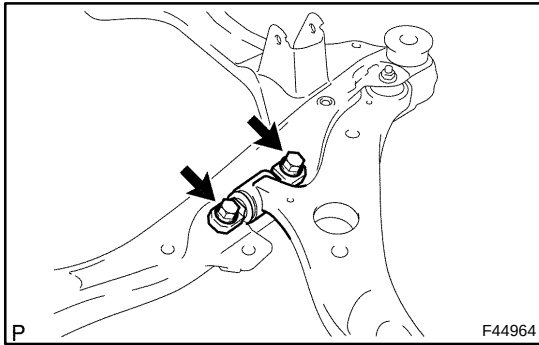
- (b) Remove the bolt and nut on the rear side of the front suspension arm sub-assy lower No.1 LH.
- (c) Remove the front suspension arm sub-assy lower No.1 LH.
- (d) Remove the front lower arm bush stopper from the front suspension arm sub-assy lower No.1 LH.

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

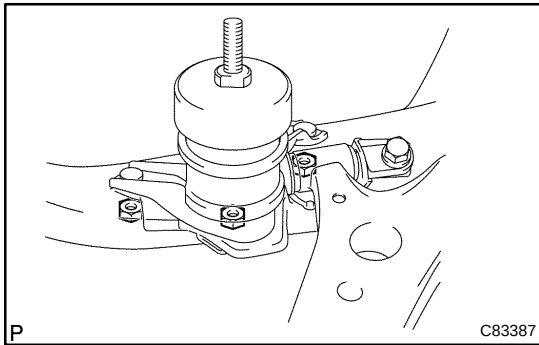
- (a) Install the front lower arm bush stopper to the front suspension arm sub-assy lower No.1 LH.
- (b) Install the bolt and nut to the rear side of the front suspension arm sub-assy lower No.1 LH.

Torque: 206 N·m (2,100 kgf·cm, 152 ft·lbf)





- (c) Install the 2 bolts on the front side of the front suspension arm sub-assy lower No.1 LH.
Torque: 200 N·m (2,040 kgf·cm, 148 ft·lbf)



5. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

- (a) Install the transverse engine engine mounting insulator with the 3 nuts.
Torque: 87 N·m (887 kgf·cm, 64 ft·lbf)

6. INSTALL ENGINE ASSEMBLY WITH TRANSAXLE (See page [14-33](#))

LOWER BALL JOINT ASSY FRONT LH

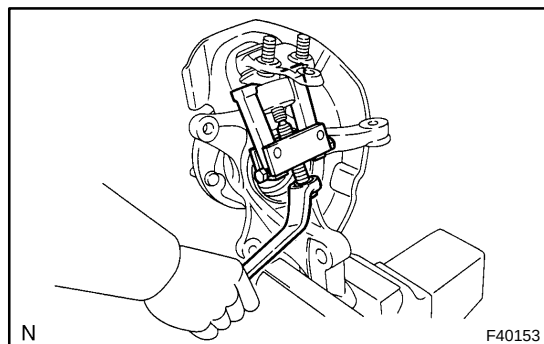
REPLACEMENT

260DK-02

HINT:

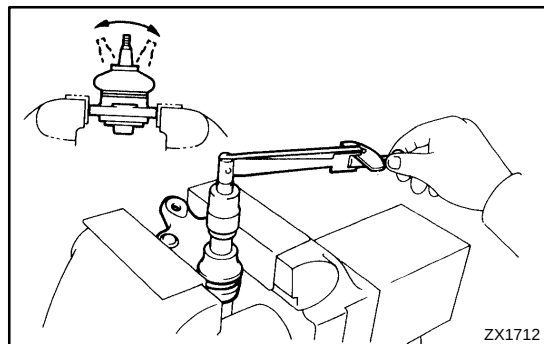
COMPONENTS: See page 26-3 .

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 (See page 30-39)
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 (See page 30-39)



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. INSPECT LOWER BALL JOINT ASSY FRONT LH

- (a) As shown in the illustration, flip the ball joint stud back and forth 5 times, before installing the nut.
- (b) Using a torque wrench, turn the nut continuously at a rate of 3 - 5 seconds per 1 turn and take the torque reading on the 5th turn.

Turning torque:**0.98 - 3.43 N·m (10 - 35 kgf·cm, 8.7 - 30 in.·lbf)**

11. INSTALL LOWER BALL JOINT ASSY FRONT LH

- (a) Install the lower ball joint assy front LH and tighten the nut.
Torque: 123 N·m (1,250 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°.

12. INSTALL FRONT AXLE ASSY LH (See page 30-39)
13. INSTALL FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH (See page 30-18)
14. INSTALL TIE ROD ASSY LH (See page 30-18)
15. INSTALL FRONT DISC

2005 SIENNA REPAIR MANUAL (RM1163U)

16. INSTALL FRONT DISC BRAKE CALIPER ASSY LH (See page [30-39](#))
17. INSTALL SPEED SENSOR FRONT LH (See page [30-18](#))
18. INSTALL FRONT AXLE HUB LH NUT (See page [30-18](#))
19. INSTALL FRONT WHEEL
Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)
20. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page [26-7](#))
21. CHECK ABS SPEED SENSOR SIGNAL
w/o VSC: (See page [05-386](#))
w/ VSC: (See page [05-435](#))

STABILIZER BAR FRONT (FF)

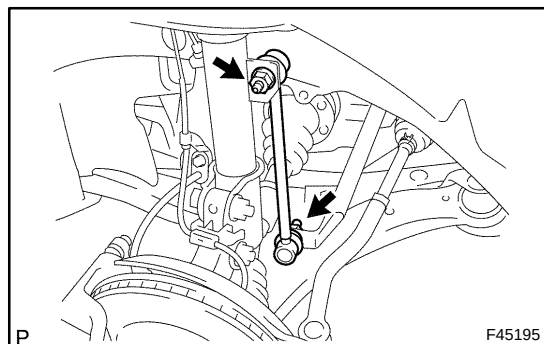
REPLACEMENT

26013-22

HINT:

COMPONENTS: See page 26-3 .

1. REMOVE FRONT WHEELS



2. REMOVE FRONT STABILIZER LINK ASSY LH

- (a) Remove the 2 nuts and front stabilizer link assy LH.

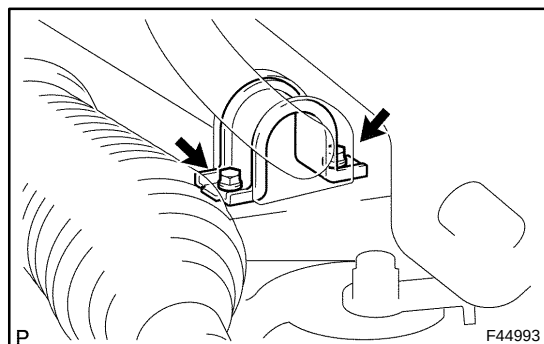
HINT:

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

3. REMOVE FRONT STABILIZER LINK ASSY RH

HINT:

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



4. REMOVE FRONT STABILIZER BRACKET NO.1 LH

- (a) Remove the 2 bolts and the front stabilizer bracket No.1 LH.

5. REMOVE FRONT STABILIZER BRACKET NO.1 RH

HINT:

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

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

SST 09628-6201 1

7. SEPARATE TIE ROD ASSY RH

SST 09628-6201 1

HINT:

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

8. DISCONNECT PRESSURE FEED TUBE ASSY (See page 51-19)

SST 09023-12701

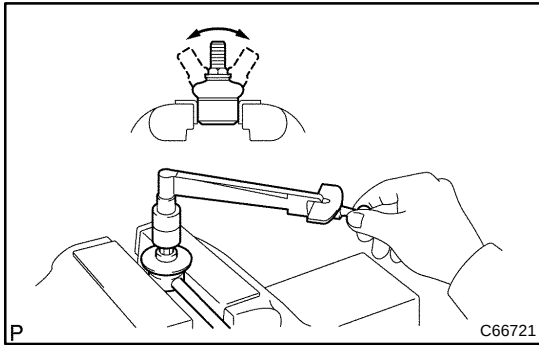
9. SEPARATE STEERING INTERMEDIATE SHAFT ASSY (See page 51-19)

10. REMOVE RACK & PINION POWER STEERING GEAR ASSY (See page 51-19)

11. REMOVE FRONT STABILIZER BAR BUSH NO.1

12. REMOVE STABILIZER BAR FRONT

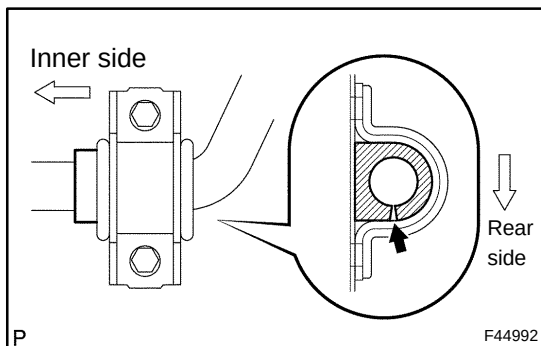
2005 SIENNA REPAIR MANUAL (RM1163U)

**13. INSPECT FRONT STABILIZER LINK ASSY LH**

- (a) As shown in the illustration, flip the ball joint stud back and forth 5 times, before installing the nut.
- (b) Using a torque wrench, turn the nut continuously at a rate of 2 - 4 seconds per 1 turn and take the torque reading on the 5th turn.

Turning torque:

0.05 - 1.96 N·m (0.5 - 20 kgf·cm, 0.4 - 17.4 in·lbf)

14. INSTALL STABILIZER BAR FRONT**15. INSTALL FRONT STABILIZER BAR BUSH NO.1**

HINT:

Install the bushing to the outer side of the bushing stopper on the stabilizer bar as shown in the illustration.

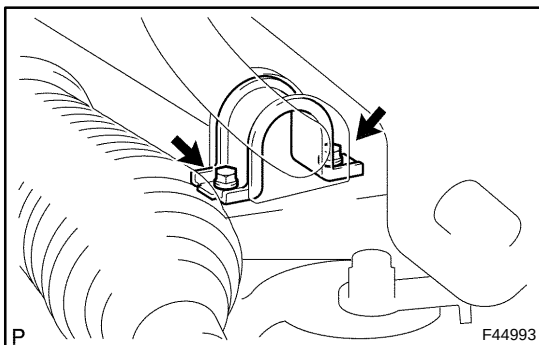
16. INSTALL STEERING INTERMEDIATE SHAFT ASSY (See page 51-19)**17. INSTALL RACK & PINION POWER STEERING GEAR ASSY (See page 51-19)****18. CONNECT PRESSURE FEED TUBE ASSY (See page 51-19)**

SST 09023-12701

19. INSTALL TIE ROD ASSY LH (See page 30-18)**20. INSTALL TIE ROD ASSY RH**

HINT:

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

**21. INSTALL FRONT STABILIZER BRACKET NO.1 LH**

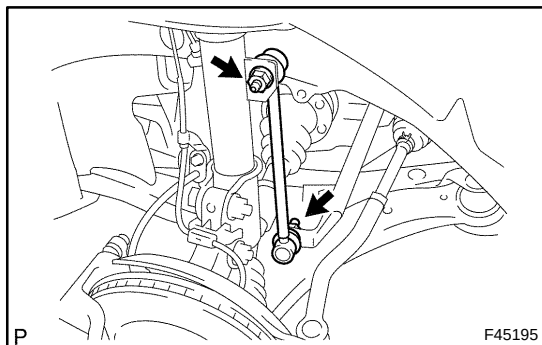
- (a) Install the front stabilizer bracket No.1 LH with the 2 bolts.

Torque: 17 N·m (173 kgf·cm, 12 ft·lbf)

22. INSTALL FRONT STABILIZER BRACKET NO.1 RH

HINT:

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

**23. INSTALL FRONT STABILIZER LINK ASSY LH**

(a) Install the front stabilizer link assy LH with the 2 nuts.

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.

24. INSTALL FRONT STABILIZER LINK ASSY RH

HINT:

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

25. INSTALL FRONT WHEELS

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

26. INSPECT CENTER FRONT WHEEL**27. INSPECT STEERING WHEEL CENTER POINT****28. ADD POWER STEERING FLUID****29. BLEED POWER STEERING FLUID (See page 51-3)****30. CHECK POWER STEERING FLUID LEAKAGE****31. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page 26-7)**

STABILIZER BAR FRONT (4WD)

REPLACEMENT

260DL-02

HINT:

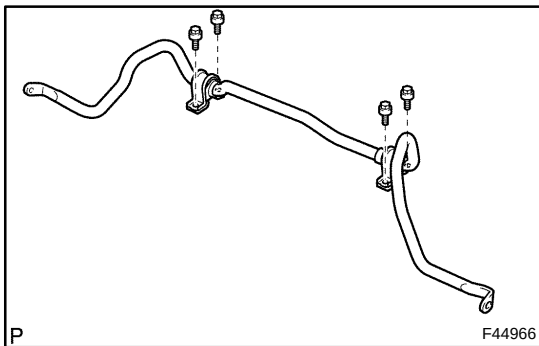
COMPONENTS: See page 26-3 .

1. REMOVE FRONT WHEELS
2. REMOVE FRONT STABILIZER LINK ASSY LH (See page 26-21)
3. REMOVE FRONT STABILIZER LINK ASSY RH

HINT:

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

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



5. REMOVE FRONT STABILIZER BRACKET NO.1 LH
 - (a) Remove the 2 bolts, the front stabilizer bracket No.1 LH and the front stabilizer bracket No.2 LH.

6. REMOVE FRONT STABILIZER BRACKET NO.1 RH

HINT:

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

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

SST 09628-6201 1

8. SEPARATE TIE ROD ASSY RH

SST 09628-6201 1

HINT:

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

9. SEPARATE PRESSURE FEED TUBE ASSY (See page 51-19)

SST 09023-12701

10. SEPARATE STEERING INTERMEDIATE SHAFT ASSY (See page 51-19)

11. REMOVE RACK & PINION POWER STEERING GEAR ASSY (See page 51-19)

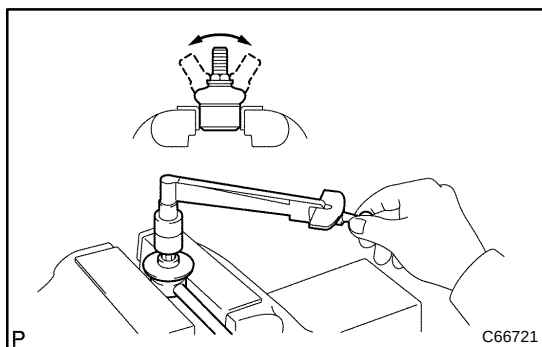
12. REMOVE EXHAUST MANIFOLD HEAT INSULATOR NO.1 (See page 14-33)

13. REMOVE MANIFOLD STAY (See page 14-33)

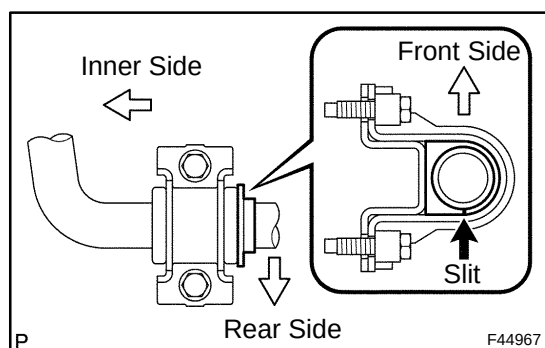
14. REMOVE EXHAUST MANIFOLD CONVERTER SUB-ASSY (See page 14-33)

15. REMOVE FRONT STABILIZER BAR BUSH NO.1

16. REMOVE STABILIZER BAR FRONT

**17. INSPECT FRONT STABILIZER LINK ASSY LH**

- (a) As shown in the illustration, flip the ball joint stud back and forth 5 times, before installing the nut.
- (b) Using a torque wrench, turn the nut continuously at a rate of 2 - 4 seconds per 1 turn and take the torque reading on the 5th turn.

Turning torque:**0.05 - 1.96 N·m (0.5 - 20 kgf·cm, 0.4 - 17.4 in·lbf)****18. INSTALL STABILIZER BAR FRONT****19. INSTALL FRONT STABILIZER BAR BUSH NO.1**

- (a) Install the 2 front stabilizer bar bush No.1 to the stabilizer bar front.

NOTICE:**Install the bushings with the slit facing on the rear side of the vehicle.****HINT:**

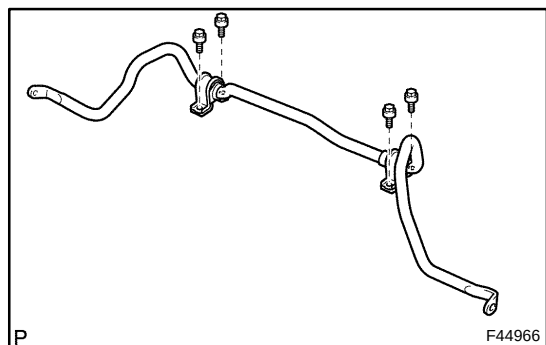
Install the bushing to the outer side of the bushing stopper on the stabilizer bar as shown in the illustration.

20. INSTALL EXHAUST MANIFOLD CONVERTER SUB-ASSY (See page 14-33)**21. INSTALL MANIFOLD STAY (See page 14-33)****22. INSTALL EXHAUST MANIFOLD HEAT INSULATOR NO.1 (See page 14-33)****23. INSTALL STEERING INTERMEDIATE SHAFT ASSY (See page 51-19)****24. INSTALL RACK & PINION POWER STEERING GEAR ASSY (See page 51-19)****25. CONNECT PRESSURE FEED TUBE ASSY (See page 51-19)**

SST 09023-12701

26. INSTALL TIE ROD ASSY LH (See page 30-18)**27. INSTALL TIE ROD ASSY RH****HINT:**

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

**28. INSTALL FRONT STABILIZER BRACKET NO.1 LH**

- (a) Install the front stabilizer bracket No.1 LH with the 2 bolts.
Torque: 17 N·m (173 kgf·cm, 12 ft·lbf)

29. INSTALL FRONT STABILIZER BRACKET NO.1 RH

HINT:

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

30. REMOVE EXHAUST PIPE ASSY CENTER (See page [15-6](#))**31. INSTALL FRONT STABILIZER LINK ASSY LH (See page [26-21](#))****32. INSTALL FRONT STABILIZER LINK ASSY RH**

HINT:

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

33. INSTALL FRONT WHEELS**34. INSPECT CENTER FRONT WHEEL****35. INSPECT STEERING WHEEL CENTER POINT****36. ADD POWER STEERING FLUID****37. BLEED POWER STEERING FLUID (See page [51-3](#))****38. CHECK POWER STEERING FLUID LEAKAGE****39. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page [26-7](#))**