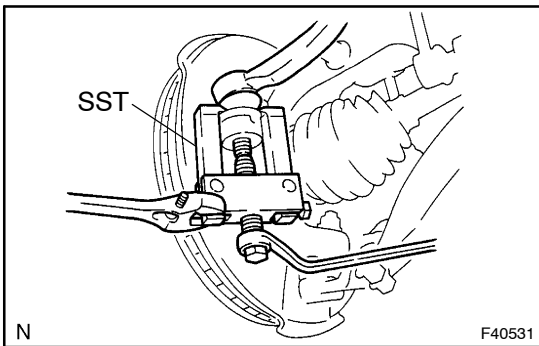


## OVERHAUL

### NOTICE:

When installing, coat the parts indicated by the arrow with power steering fluid or molybdenum disulfide/lithium base grease (See page 51-26).

1. **PRECAUTION** (See page 51-1)
2. **DISCONNECT BATTERY NEGATIVE TERMINAL**
3. **REMOVE HORN BUTTON ASSY**  
(See page 50-6)
4. **REMOVE STEERING WHEEL ASSY**  
(See page 50-6)  
SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05021)
5. **REMOVE FRONT WHEEL**
6. **REMOVE SPIRAL CABLE SUB-ASSY**  
(See page 50-6)



### 7. DISCONNECT TIE ROD ASSY LH

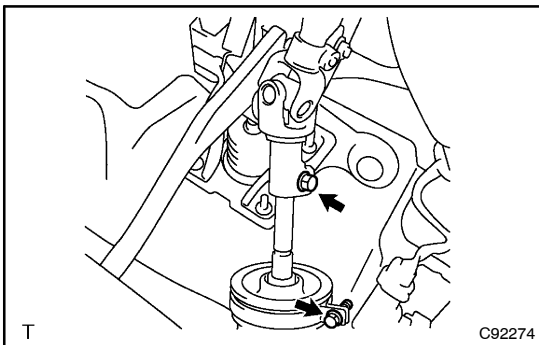
- (a) Remove the cotter pin and nut.
- (b) Using SST, remove the tie rod assy LH from the steering knuckle.  
SST 09628-62011

### 8. DISCONNECT TIE ROD ASSY RH

SST 09628-62011

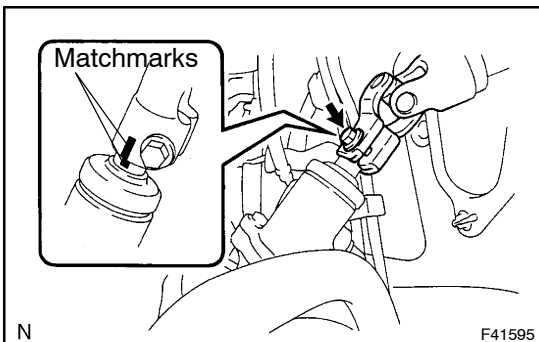
#### HINT:

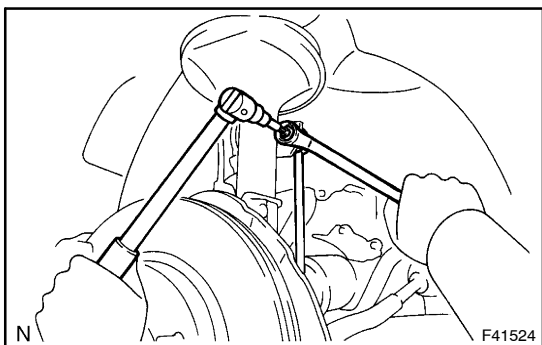
Remove the RH side by the same procedures with LH side.



### 9. DISCONNECT STEERING INTERMEDIATE SHAFT SUB-ASSY

- (a) Loosen the bolt and remove the clamp from the steering column hole cover No.1.
- (b) Disconnect the steering column hole cover No.2 from the steering column hole cover No.1.
- (c) Loosen the bolt.
- (d) Place matchmarks on the steering intermediate shaft sub-assy and rack & pinion power steering gear assy.
- (e) Remove the bolt and disconnect the steering intermediate shaft sub-assy.





### 10. 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.

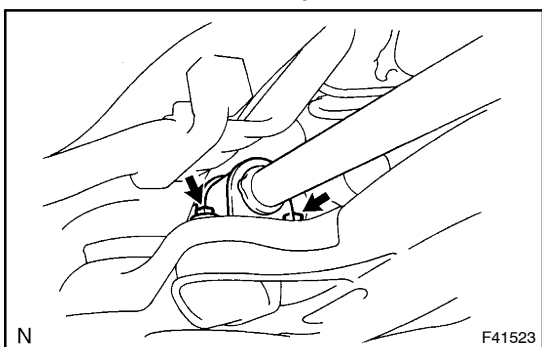
HINT:

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

### 11. DISCONNECT FRONT STABILIZER LINK ASSY RH

HINT:

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



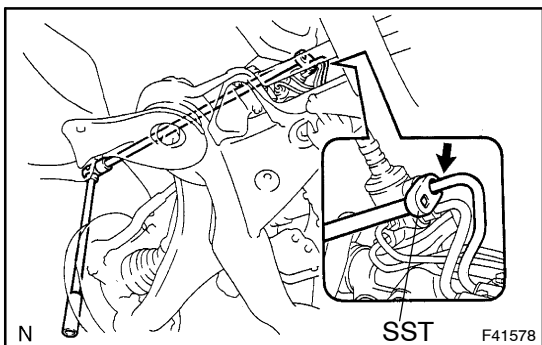
### 12. REMOVE FRONT STABILIZER BRACKET NO.1 LH

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

### 13. REMOVE FRONT STABILIZER BRACKET NO.1 RH

HINT:

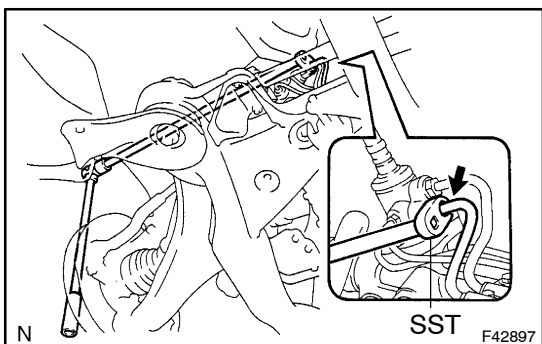
Remove the RH side by the same procedures with LH side.



### 14. DISCONNECT PRESSURE FEED TUBE ASSY

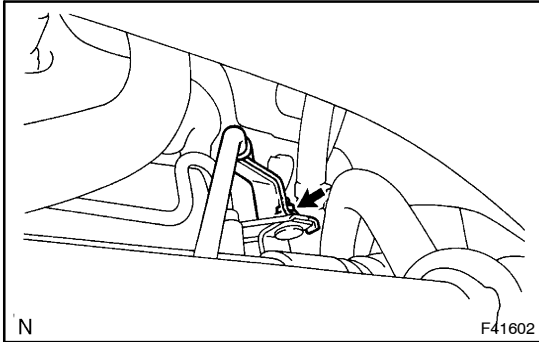
- (a) LHD steering position type:  
Using SST, disconnect the return tube assy from the rack & pinion power steering gear assy.

SST 09023-12700

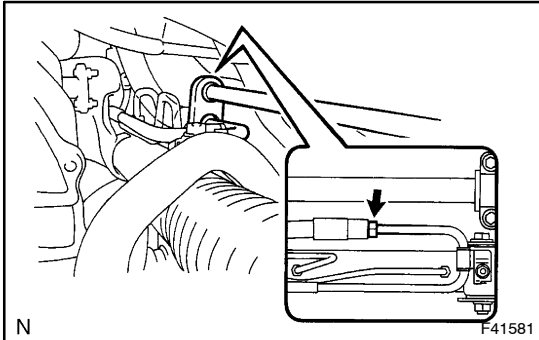


- (b) LHD Steering position type:  
RHD steering position type, 2AZ-FE engine type:  
Using SST, disconnect the pressure feed tube assy from the rack & pinion power steering gear assy.

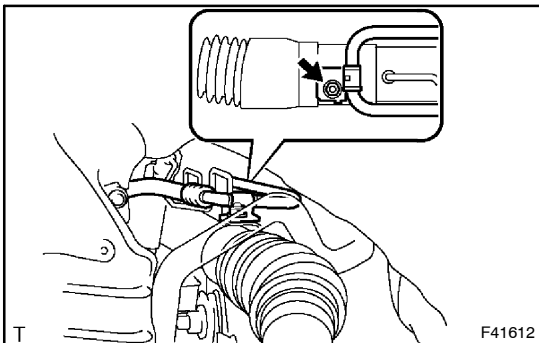
SST 09023-12700



- (c) LHD steering position type:  
Remove the nut and disconnect the return tube assembly clamp.



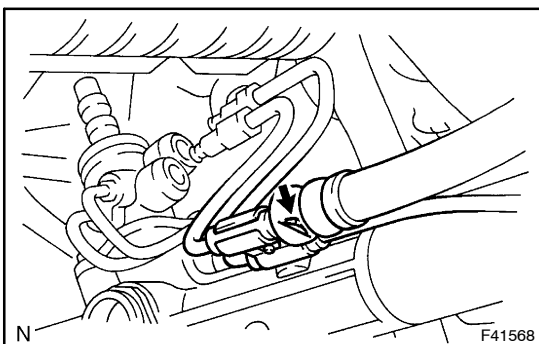
- (d) RHD steering position type, 1MZ-FE engine type:  
Using SST, disconnect the pressure feed tube assembly from the pressure feed hose.  
SST 09023-12700



- (e) RHD steering position type:  
Remove the nut and disconnect the pressure feed tube assembly clamp.

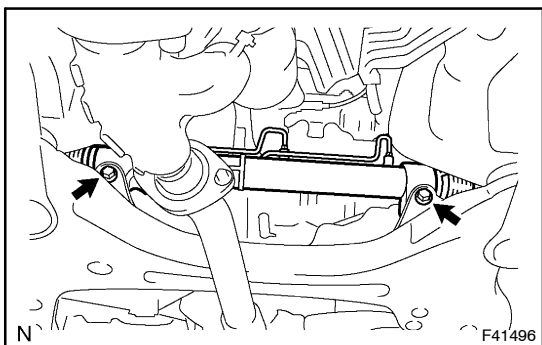
## 15. DISCONNECT STEERING GEAR OUTLET RETURN TUBE(RHD STEERING POSITION TYPE)

- (a) Remove the clip and disconnect the steering gear outlet return tube from the return tube assembly.



## 16. REMOVE RACK & PINION POWER STEERING GEAR ASSY

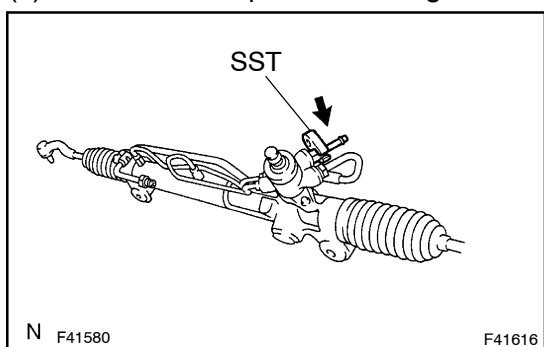
- (a) LHD steering position type:  
Remove the bolt and disconnect the tube clamp.



- (b) Remove the 2 bolts, 2 nuts and rack & pinion power steering gear assy.

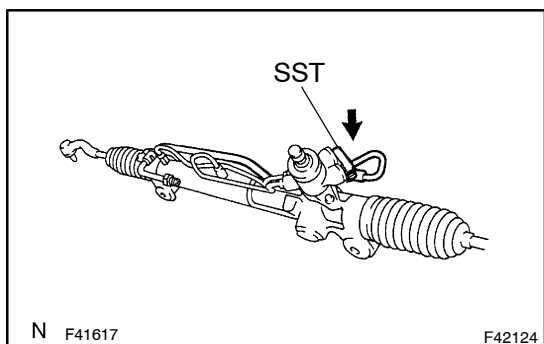
## 17. REMOVE POWER STEERING RACK HOUSING HEAT INSULATOR(1MZ-FE ENGINE TYPE)

- (a) RHD steering position type:  
Remove the bolt from the rack & pinion power steering gear assy.
- (b) Remove the power steering rack housing heat insulator.



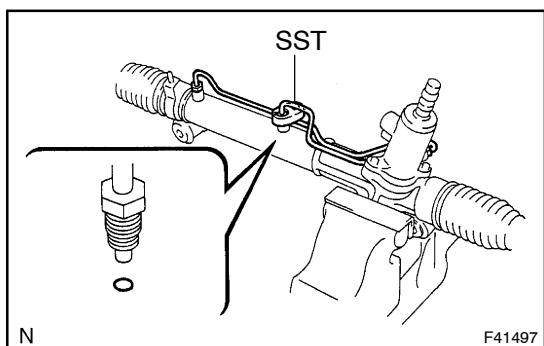
## 18. REMOVE RETURN TUBE ASSY(RHD STEERING POSITION TYPE)

- (a) Using SST, remove the return tube assy from the rack & pinion power steering gear assy.  
SST 09023-12700



## 19. REMOVE PRESSURE FEED TUBE ASSY(RHD STEERING POSITION TYPE, 1MZ-FE ENGINE TYPE)

- (a) Using SST, remove the pressure feed tube assy from the rack & pinion power steering gear assy.  
SST 09023-12700

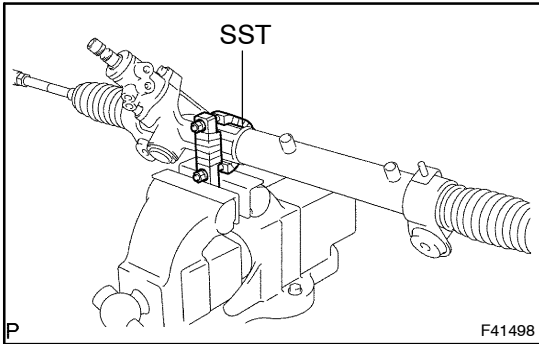


## 20. REMOVE STEERING LEFT TURN PRESSURE TUBE

- (a) Using SST, remove the steering left turn pressure tube.  
SST 09023-38200
- (b) Remove the 2 O-rings from the steering left turn pressure tube.

## 21. REMOVE STEERING RIGHT TURN PRESSURE TUBE

- (a) Using SST, remove the steering right turn pressure tube.  
SST 09023-38200
- (b) Remove the 2 O-rings from the steering right turn pressure tube.



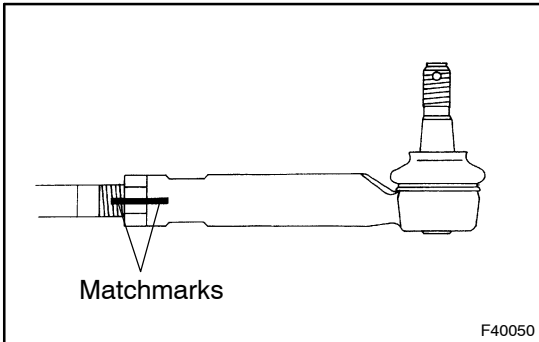
## 22. FIX RACK & PINION POWER STEERING GEAR ASSY

- (a) Using SST, secure the rack & pinion power steering gear Assy.

SST 09612-00012

HINT:

Tape the SST before use.



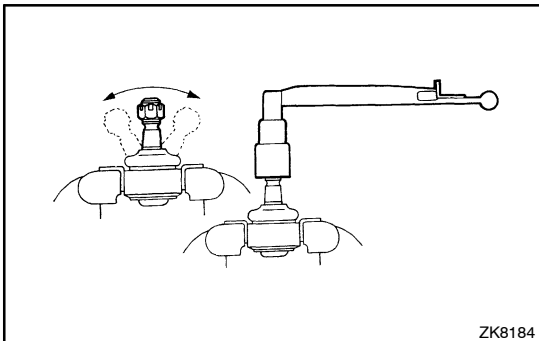
## 23. REMOVE TIE ROD ASSY LH

- (a) Place matchmarks on the tie rod Assy LH and steering rack end sub-assy.
- (b) Loosen the lock nut, and remove the tie rod Assy LH and lock nut.

## 24. REMOVE TIE ROD ASSY RH

HINT:

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



## 25. INSPECT TIE ROD ASSY LH

- (a) Secure the tie rod Assy LH in a vise.
- (b) Install the nut to the stud bolt.
- (c) Flip the ball joint stud back and forth 5 times.
- (d) Using a torque wrench, turn the nut continuously at a rate of 3 – 5 seconds per 1 turn and take the torque reading of the 5th turn.

**Turning torque:**

**0.83 – 3.43 N·m (8.5 – 35.0 kgf·cm, 7.3 – 30.4 in·lbf)**

## 26. INSPECT TIE ROD ASSY RH

HINT:

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

## 27. REMOVE STEERING RACK BOOT CLIP

- (a) Remove the 2 steering rack boot clips.

## 28. REMOVE STEERING RACK BOOT NO.2 CLAMP

- (a) Using pliers, remove the steering rack boot No.2 clamp.

**NOTICE:**

**Be careful not to damage the steering rack boot No.2.**

**29. REMOVE STEERING RACK BOOT NO.1 CLAMP**

HINT:

Remove the steering rack boot No.1 clamp by the same procedures with the steering rack boot No.2 clamp.

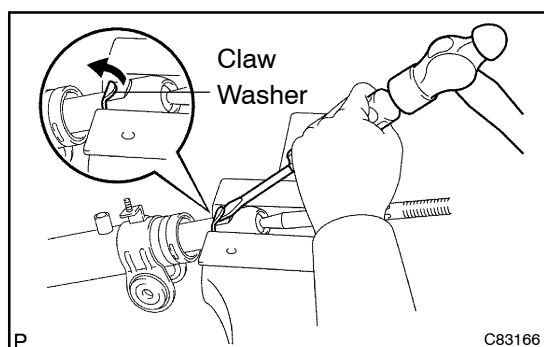
**NOTICE:****Be careful not to damage the steering rack boot No.1.****30. REMOVE STEERING RACK BOOT NO.2**

- (a) Remove the steering rack boot No.2.

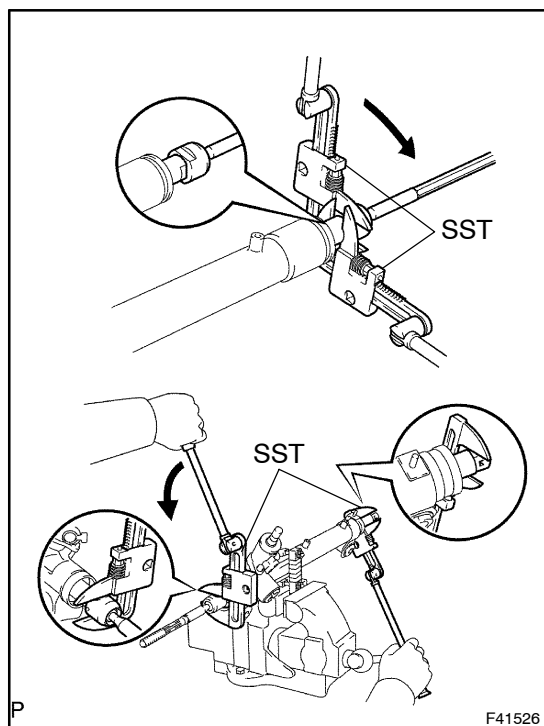
**31. REMOVE STEERING RACK BOOT NO.1**

HINT:

Remove the steering rack boot No.1 by the same procedures with the steering rack boot No.2.

**32. REMOVE STEERING RACK END SUB-ASSY**

- (a) Using a screwdriver and a hammer, unstake the claw washer.

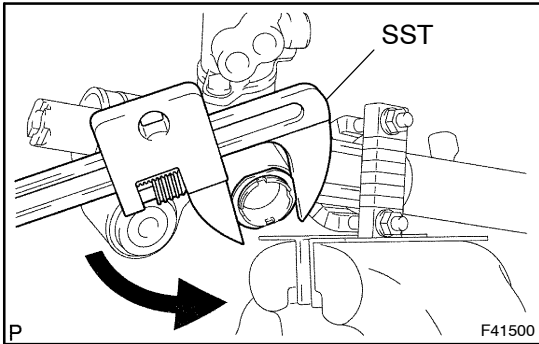
**NOTICE:****Avoid any impact to the power steering rack.**

- (b) Using 2 SSTs, remove the 2 steering rack ends sub-assy and 2 claw washers.

SST 09922-10010

**NOTICE:**

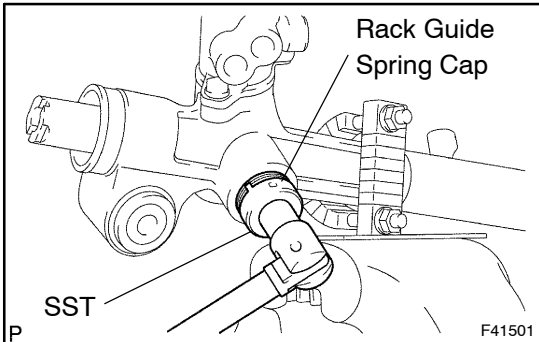
- Use SST 09922-10010 in the direction shown in the illustration.
- Securely hold the steering rack end sub-assy with a SST.

**33. REMOVE RACK GUIDE**

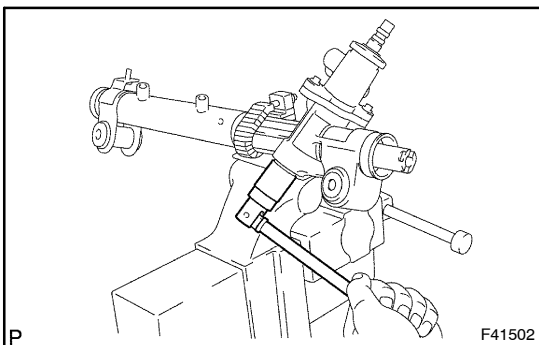
- (a) Using SST, remove the rack guide spring cap nut.  
SST 09922-10010

**NOTICE:**

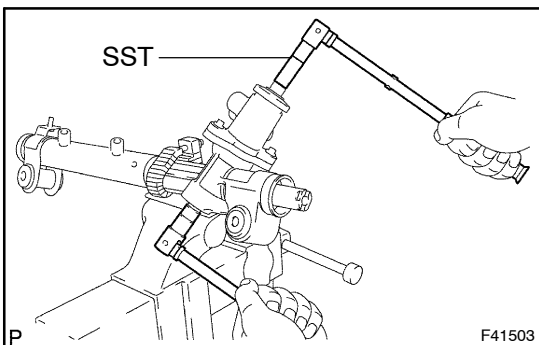
**Use SST 09922-10010 in the direction shown in the illustration.**



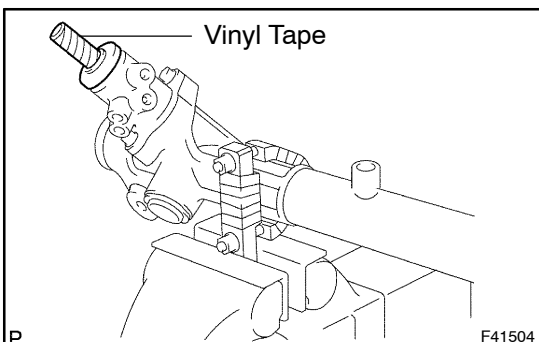
- (b) Using SST, remove the rack guide spring cap.  
SST 09631-10021
- (c) Remove the compression spring and rack guide.

**34. REMOVE POWER STEERING CONTROL VALVE**

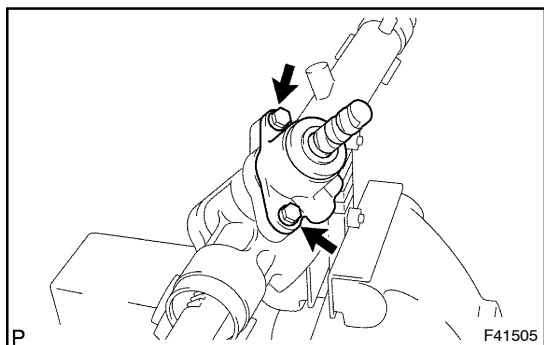
- (a) Using a socket wrench (27 mm), remove the rack housing cap.



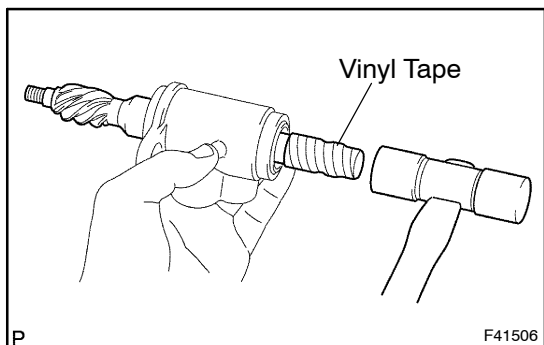
- (b) Using SST, hold the control valve and remove the nut.  
SST 09616-00011



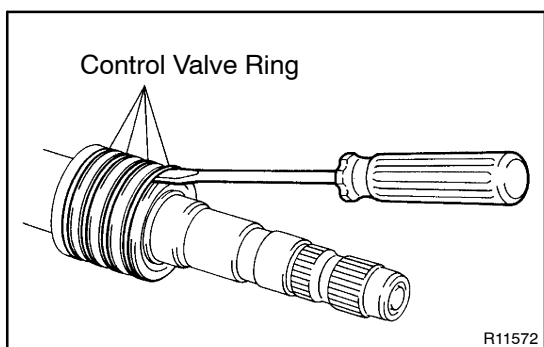
- (c) Wind vinyl tape around the serrated part of the control valve.
- (d) Remove the dust cover from the control valve housing.



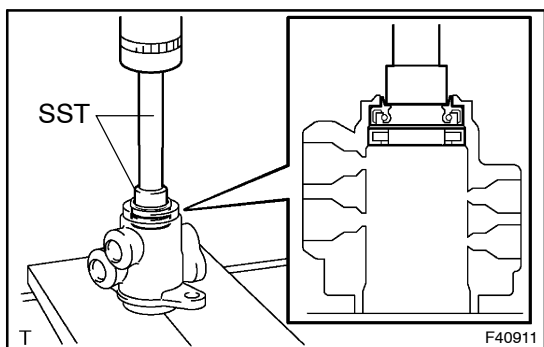
- (e) Remove the 2 bolts and control valve housing.
- (f) Remove the gasket.



- (g) To prevent oil seal lip damage, wind vinyl tape around the serrated part of the control valve.
- (h) Using a plastic hammer, remove the control valve with oil seal from the control valve housing.
- (i) Remove the oil seal from the control valve.



- (j) Using a screwdriver, remove the 4 control valve rings.
- NOTICE:**  
Be careful not to damage the grooves for the control valve ring.

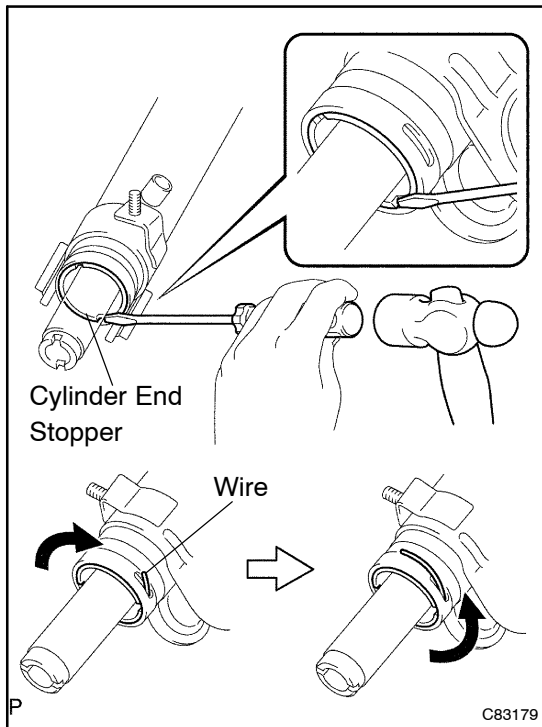


### 35. REMOVE POWER STEERING CONTROL VALVE UPPER OIL SEAL

- (a) Using SST and a press, remove the control valve upper bearing and power steering control valve upper oil seal from the control valve housing.

SST 09950-70010 (09951-07150), 09950-60010 (09951-00250)

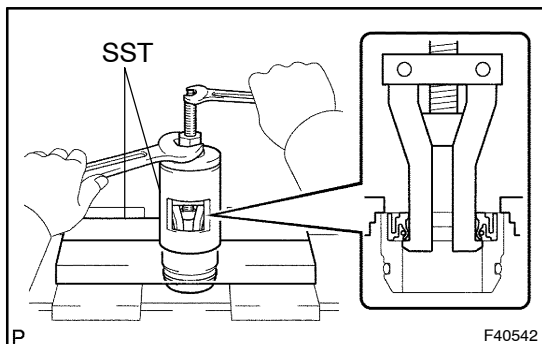


**36. REMOVE CYLINDER END STOPPER**

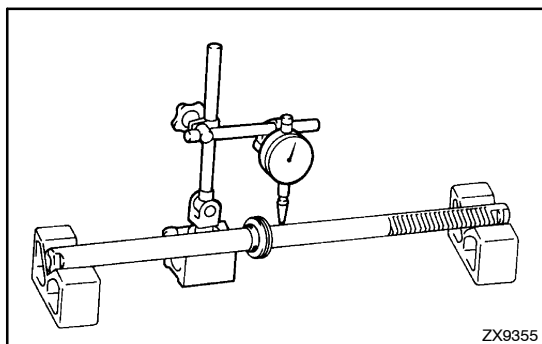
- (a) Using a screwdriver and a hammer, turn the cylinder end stopper clockwise until the wire end is visible through the service hole.
- (b) Using a screwdriver and a hammer, turn the cylinder end stopper counterclockwise, and remove the wire and cylinder end stopper.

**37. REMOVE POWER STEERING RACK**

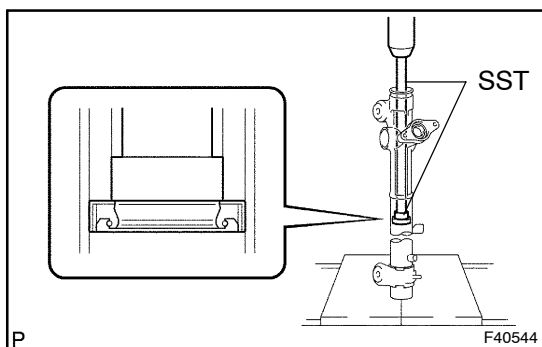
- (a) Remove the power steering rack and power steering rack bush.

**38. REMOVE POWER STEERING RACK BUSH**

- (a) Remove the power steering rack bush from the power steering rack.
- (b) Using SST, remove the rack bush oil seal.  
SST 09527-21011, 09612-24014 (09613-22011)
- (c) Using a screwdriver, remove the O-ring from the power steering rack bush.

**39. INSPECT POWER STEERING RACK**

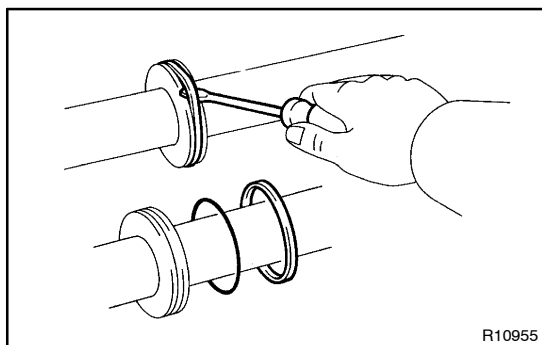
- (a) Using a dial indicator, check the power steering rack for runout and for teeth wear and damage.  
**Maximum runout: 0.3 mm (0.012 in.)**
- (b) Check the back surface for wear and damage.



#### 40. REMOVE POWER STEERING CYLINDER TUBE OIL SEAL

- (a) Using SST and a press, remove the power steering cylinder tube oil seal.

SST 09950-70010 (09951-07360), 09950-60010 (09951-00290)

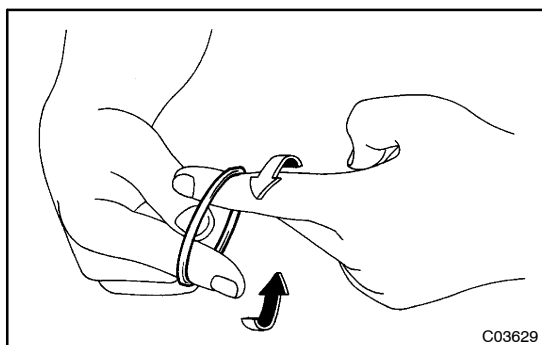


#### 41. REMOVE RACK STEERING PISTON RING

- (a) Using a screwdriver, remove the rack steering piston ring and O-ring.

##### NOTICE:

**Be careful not to damage the grooves for rack steering piston ring.**



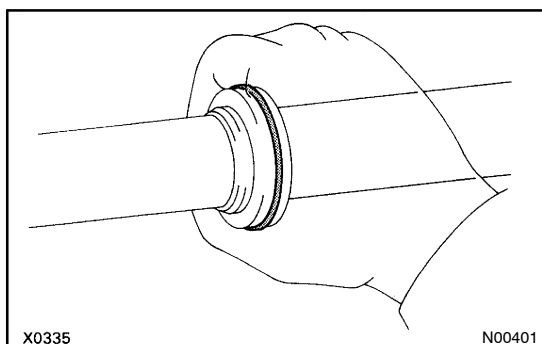
#### 42. INSTALL RACK STEERING PISTON RING

- (a) Coat a new O-ring with power steering fluid and install it to the power steering rack.  
 (b) Expand a new rack steering piston ring with your fingers.

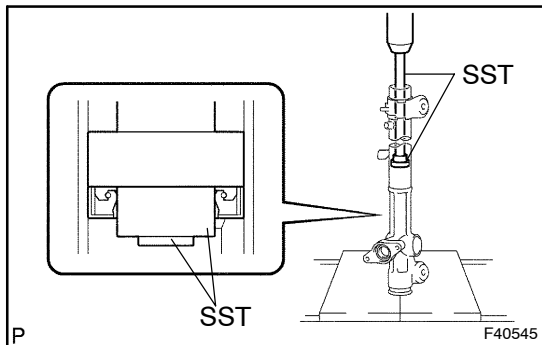
##### NOTICE:

**Be careful not to over expand the rack steering piston ring.**

- (c) Coat the new rack steering piston ring with power steering fluid.



- (d) Install the rack steering piston ring to the power steering rack, and settle it down with your fingers.

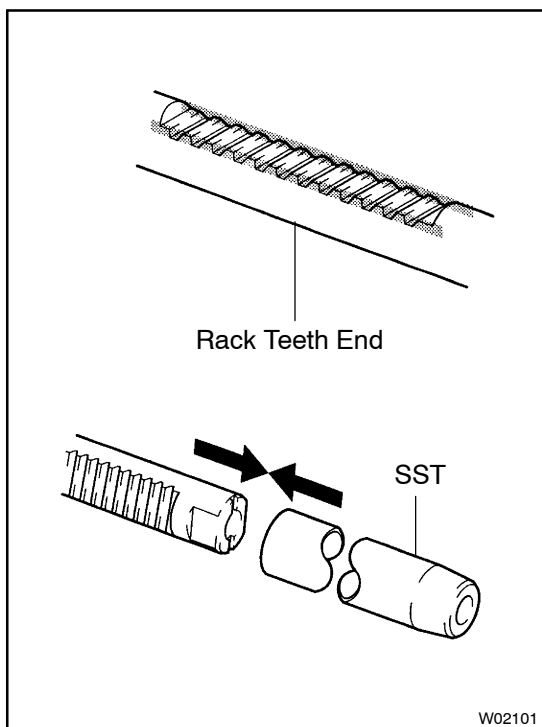


#### 43. INSTALL POWER STEERING CYLINDER TUBE OIL SEAL

- (a) Coat a new power steering cylinder tube oil seal lip with power steering fluid.  
SST 09950-60010 (09951-00420, 09951-00250, 09952-06010), 09950-70010 (09951-07360)
- (b) Using SST and a press, install the power steering cylinder tube oil seal.

#### NOTICE:

- **Make sure that the power steering cylinder tube oil seal is installed facing in the correct direction.**
- **Take care so that the power steering cylinder tube oil seal will not be reversed as you install it.**



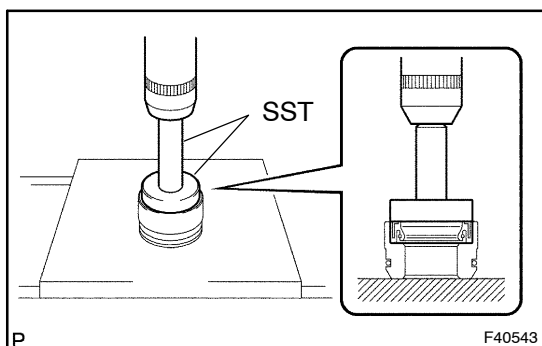
#### 44. INSTALL POWER STEERING RACK

- (a) Install SST to the power steering rack.  
SST 09631-33010

#### HINT:

If necessary, scrape the burrs off the power steering rack teeth end and burnish.

- (b) Coat the SST with power steering fluid.
- (c) Install the power steering rack into the rack housing.
- (d) Remove the SST.



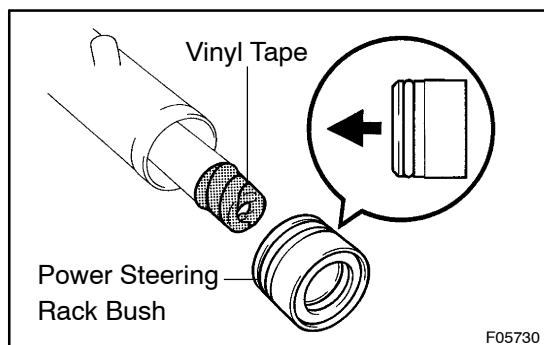
#### 45. INSTALL POWER STEERING RACK BUSH

- (a) Using SST and a press, install the rack bush oil seal to the power steering rack bush.  
SST 09950-60010 (09951-00400), 09950-70010 (09951-07100)

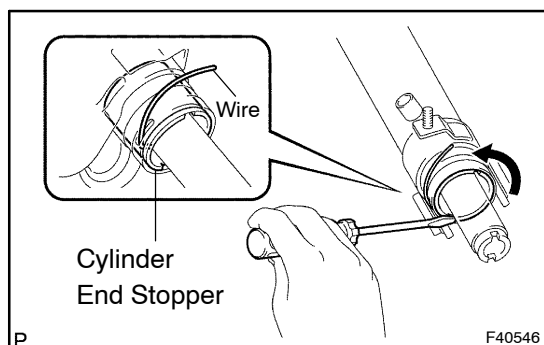
#### NOTICE:

**Make sure that the rack bush oil seal is installed facing in the correct direction.**

- (b) Coat a new O-ring with power steering fluid and install it to the power steering rack bush.

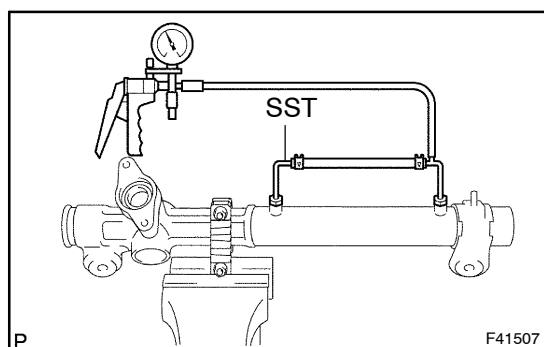


- (c) To prevent rack bush oil seal lip damage, wind vinyl tape around the power steering rack end, and apply power steering fluid.
- (d) Install the power steering rack bush to the power steering rack.



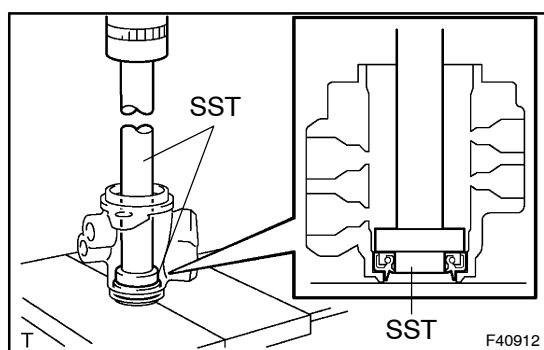
#### 46. INSTALL CYLINDER END STOPPER

- (a) Align the installation hole for the wire of the cylinder end stopper with the slot of the rack housing.
- (b) Install a new wire into the cylinder end stopper.
- (c) Using a screwdriver, turn the cylinder end stopper clockwise by  $450 \pm 50^\circ$ .



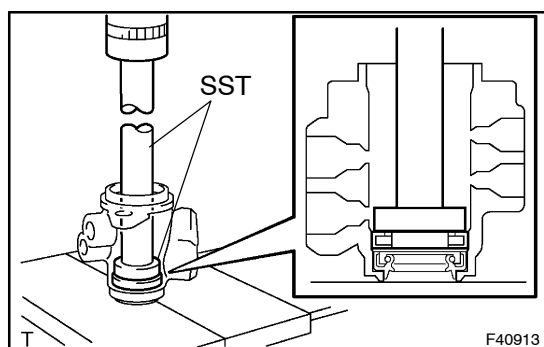
#### 47. AIR TIGHTNESS TEST

- (a) Install SST to the rack housing.  
SST 09631-12071 (09633-00010)
  - (b) Apply vacuum of 53 kPa (400 mmHg, 15.75 in.Hg) for about 30 seconds.
  - (c) Check that there is no change in the vacuum.
- If there is a change in the vacuum, check the installation of the oil seals.

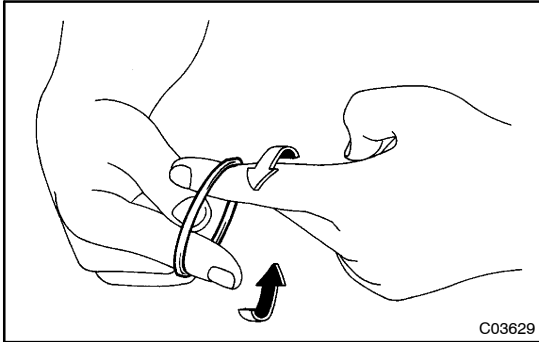


#### 48. INSTALL POWER STEERING CONTROL VALVE UPPER OIL SEAL

- (a) Coat a control valve upper bearing and a new power steering control valve upper oil seal with power steering fluid.
- (b) Using SST and a press, install the power steering control valve upper oil seal.  
SST 09950-70010 (09951-07150), 09950-60010 (09951-00180, 09952-06010, 09951-00320)



- (c) Using SST and a press, install the control valve upper bearing.  
SST 09950-70010 (09951-07150), 09950-60010 (09951-00180, 09952-06010, 09951-00340)

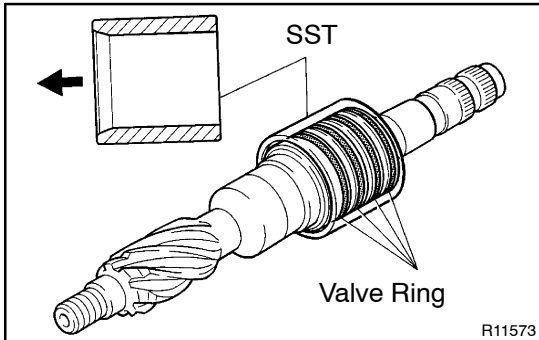
**49. INSTALL POWER STEERING CONTROL VALVE**

- (a) Expand 4 new control valve rings with your fingers.

**NOTICE:**

**Be careful not to over expand the control valve ring.**

- (b) Coat the 4 control valve rings with power steering fluid.  
 (c) Install the 4 control valve rings to the control valve, and settle them down with your fingers.

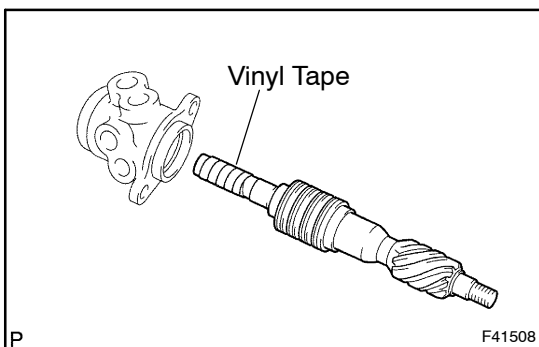


- (d) Carefully slide the tapered end of SST over the control valve rings until they fit to the control valve.

SST 09631-20081

**NOTICE:**

**Be careful not to damage the control valve rings.**



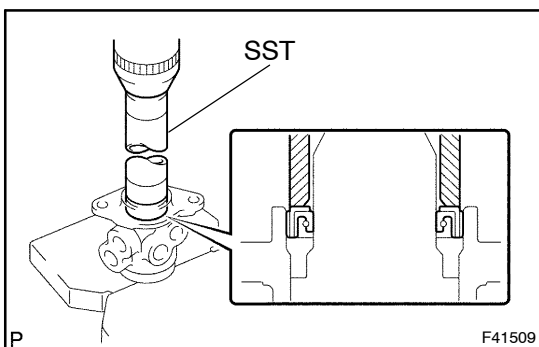
- (e) To prevent power steering control valve upper oil seal lip damage, wind vinyl tape around the serrated part of the control valve.

- (f) Coat the power steering control valve upper oil seal lip with power steering fluid.

- (g) Install the control valve to the control valve housing.

**NOTICE:**

**Be careful not to damage the control valve ring and power steering control valve upper oil seal lip.**



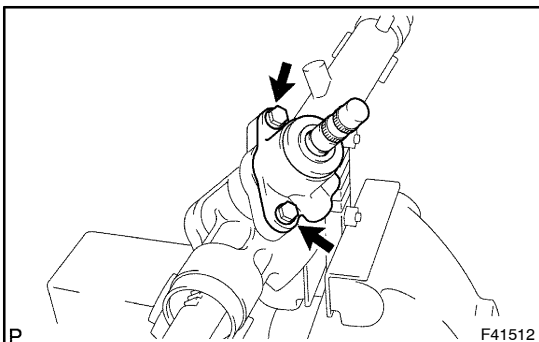
- (h) Coat a new oil seal lip with power steering fluid.

- (i) Using SST and a press, install the oil seal.

SST 09612-22011

**NOTICE:**

**Make sure that the oil seal is installed facing in the correct direction.**



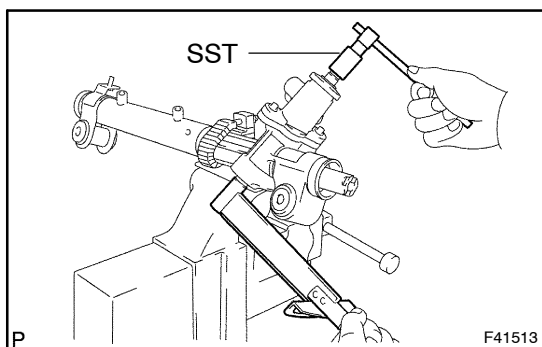
- (j) Apply grease to the needle bearing.

- (k) Install a new gasket to the control valve housing.

- (l) Wind vinyl tape around the serration part of the control valve.

- (m) Install the control valve housing to the rack housing with the 2 bolts.

**Torque: 21 N·m (214 kgf·cm, 15 ft·lbf)**



- (n) Using SST, stop the control valve rotation and install a new lock nut.

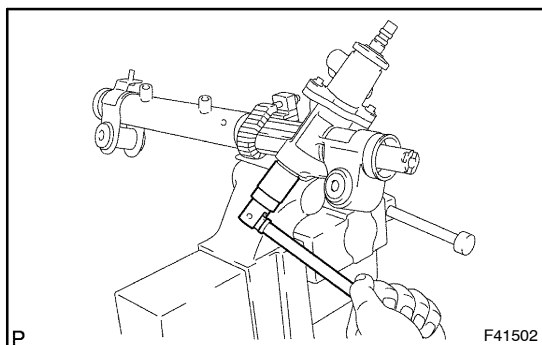
**Torque: 24.5 N·m (250 kgf·cm, 18 ft·lbf)**

SST 09616-00011

- (o) Apply sealant to 2 or 3 threads of the rack housing cap.

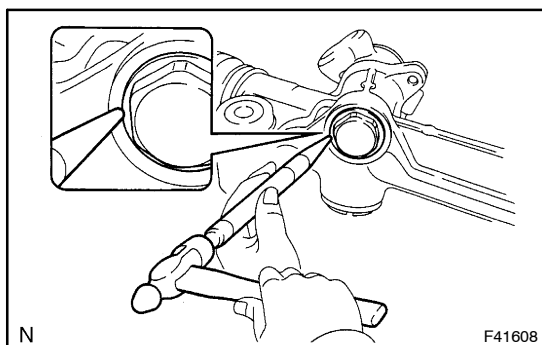
**Sealant:**

**Part No. 08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent**



- (p) Using a socket wrench (27 mm), install the rack housing cap.

**Torque: 58.5 N·m (597 kgf·cm, 43 ft·lbf)**



- (q) Using a punch and a hammer, stake the rack housing cap and rack housing.

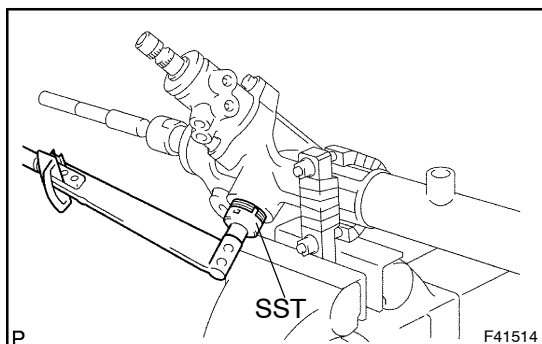
## 50. INSTALL RACK GUIDE

- Apply molybdenum disulfide lithium base grease to the rack guide.
- Install the rack guide.
- Install the compression spring.
- Apply sealant to 2 or 3 threads of the rack guide spring cap.

**Sealant:**

**Part No. 08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent**

- Temporarily install the rack guide spring cap.

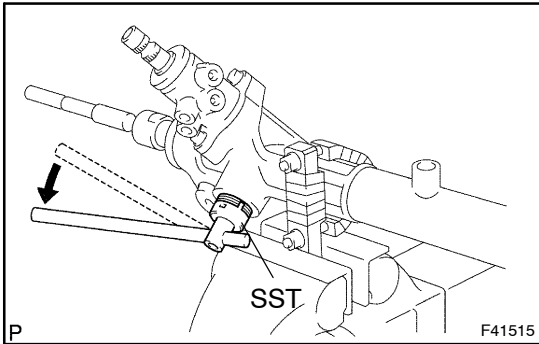


## 51. ADJUST TOTAL PRELOAD

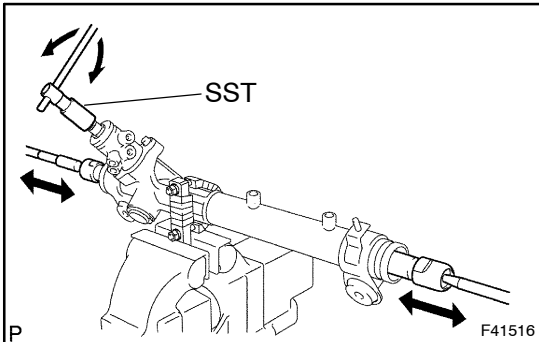
- To prevent the steering rack teeth from damaging the oil seal lip, temporarily install the RH and LH steering rack ends sub-assy.
- Using SST, torque the rack guide spring cap.

SST 09631-10021

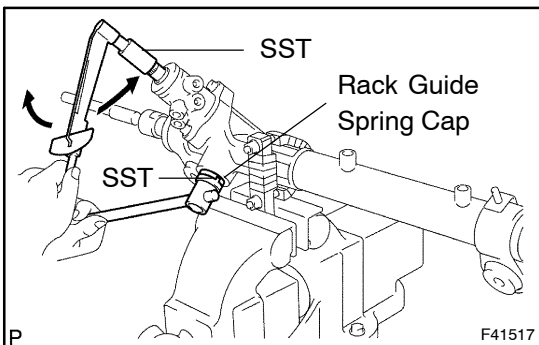
**Torque: 25 N·m (254 kgf·cm, 18 ft·lbf)**



- (c) Using SST, loosen the rack guide spring cap.  
SST 09631-10021



- (d) Using SST, turn the control valve to the right and left 1 or 2 times.  
SST 09616-00011
- (e) Using SST, loosen the rack guide spring cap until the compression spring is not functioning.  
SST 09631-10021



- (f) Using SST and a torque wrench, tighten the rack guide spring cap until the preload is within specification.  
SST 09616-00011, 09631-10021

**Preload (turning):**

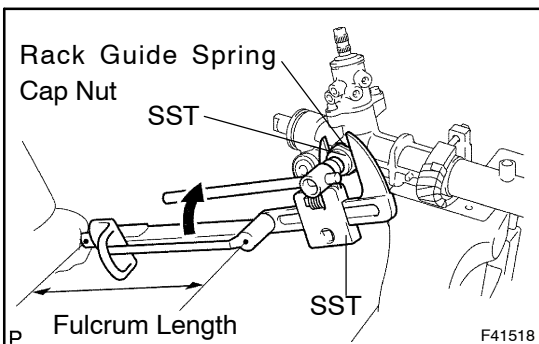
**1.2 - 1.5 N·m (12.2 - 15.3 kgf·cm, 10.6 - 13.3 in·lbf)**

- (g) Apply sealant to 2 or 3 threads of the rack guide spring cap nut.

**Sealant:**

**Part No. 08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent**

- (h) Temporarily install the rack guide spring cap nut.



- (i) Using SST, hold the rack guide spring cap and using another SST, tighten the rack guide spring cap nut.  
SST 09616-00011, 09922-10010

**Torque: 48 N·m (489 kgf·cm, 35 ft·lbf)**

**NOTICE:**

**Use SST 09922-10010 in the direction shown in the illustration.**

**HINT:**

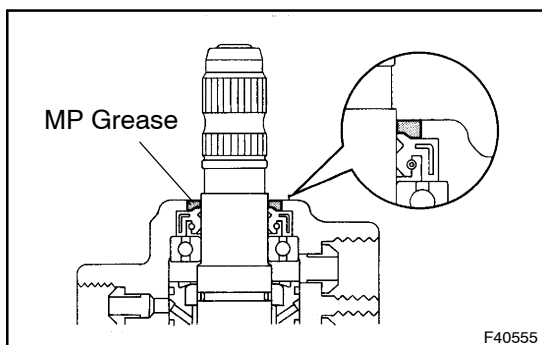
Use a torque wrench with a fulcrum length of 345 mm (13.58 in.).

- (j) Precheck the total preload.

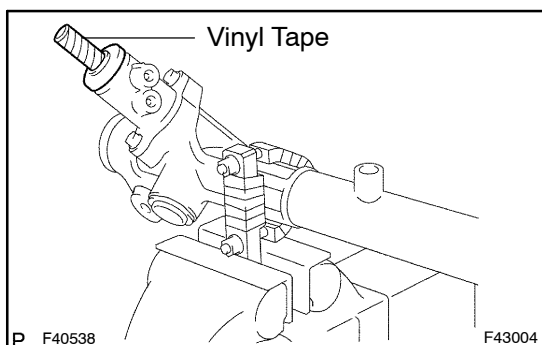
**Preload (turning):**

**1.2 - 1.5 N·m (12.2 - 15.3 kgf·cm, 10.6 - 13.3 in·lbf)**

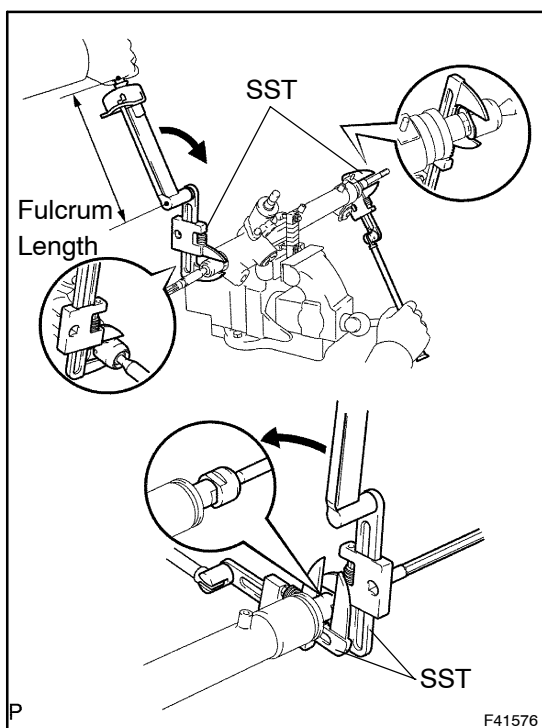
- (k) Remove the RH and LH steering rack ends sub-assy.



- (l) Apply MP grease into the control valve, as shown in the illustration.



- (m) Wind vinyl tape around the serration part of the control valve.
- (n) Install the dust cover to the control valve housing.



## 52. INSTALL STEERING RACK END SUB-ASSY

- (a) Install a new 2 claw washers, and temporarily install the 2 steering rack ends sub-assy.

### HINT:

Align the claws of the claw washer with the power steering rack grooves.

- (b) Using 2 SSTs, install the 2 steering rack ends sub-assy.  
SST 09922-10010

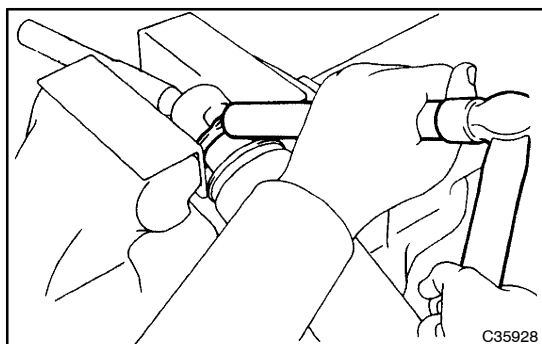
**Torque: 58.5 N·m (597 kgf·cm, 43 ft·lbf)**

### NOTICE:

**Use SST 09922-10010 in the direction shown in the illustration.**

### HINT:

- Using SST, hold the power steering rack and install the steering rack end sub-assy.
- Use a torque wrench with a fulcrum length of 345 mm (13.58 in.).

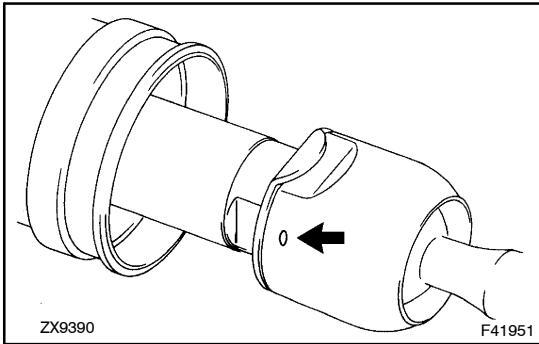


- (c) Using a brass bar and a hammer, stake the claw washer.

### NOTICE:

**Avoid any impact to the power steering rack.**



**53. INSPECT STEERING RACK END SUB-ASSY**

- (a) Ensure that the steering rack end sub-assy hole is not clogged with grease.

**HINT:**

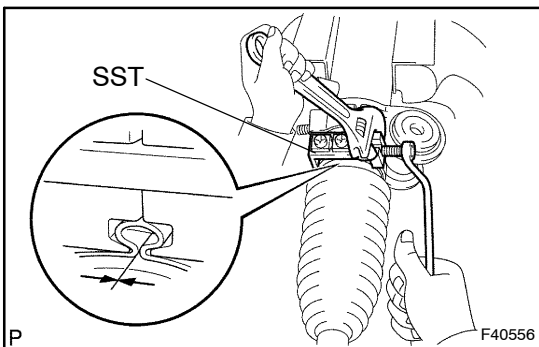
If the hole is clogged, the pressure inside the boot will change after it is assembled and steering wheel is turned.

**54. INSTALL STEERING RACK BOOT NO.2**

- (a) Install the steering rack boot No.2.

**55. INSTALL STEERING RACK BOOT NO.1****HINT:**

Remove the steering rack boot No.1 by the same procedures with steering rack boot No.2.

**56. INSTALL STEERING RACK BOOT NO.2 CLAMP**

- (a) Using SST, tighten the steering rack boot No.2 clamp, as shown in the illustration.

SST 09521-24010

**Clearance: 3.0 mm (0.118 in.) or less**

**NOTICE:**

**Be careful not to damage the steering rack boot No.2.**

**57. INSTALL STEERING RACK BOOT NO.1 CLAMP**

SST 09521-24010

**NOTICE:**

**Be careful not to damage the steering rack boot No.1.**

**HINT:**

Install the steering rack boot No.1 clamp by the same procedures with steering rack boot No.2 clamp.

**58. INSTALL STEERING RACK BOOT CLIP**

- (a) Using pliers, install the 2 steering rack boot clips.

**59. INSTALL TIE ROD ASSY LH**

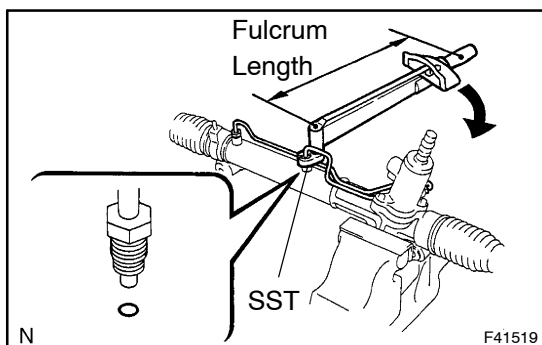
- (a) Screw the lock nut and tie rod assy LH onto the steering rack end sub-assy until the matchmarks are aligned.

**HINT:**

After adjusting toe-in, torque the lock nut.

**60. INSTALL TIE ROD ASSY RH****HINT:**

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

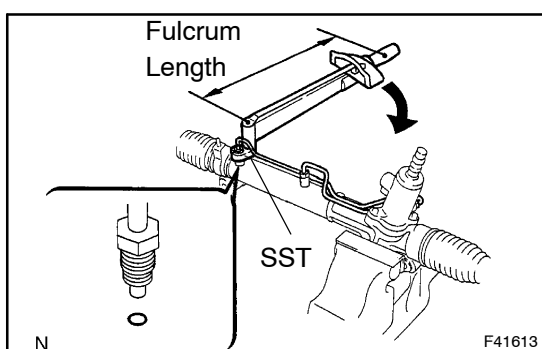
**61. INSTALL STEERING LEFT TURN PRESSURE TUBE**

- (a) Coat 2 new O-rings with power steering fluid and install them to the steering left turn pressure tube.
- (b) Using SST, install the steering left turn pressure tube to the rack & pinion power steering gear assy.

SST 09023-38200

**Torque: 11.5 N·m (117 kgf·cm, 8 ft·lbf)****HINT:**

- Use a torque wrench with a fulcrum length of 345 mm (13.58 in.).
- This torque value is effective in the case that SST is parallel to a torque wrench.

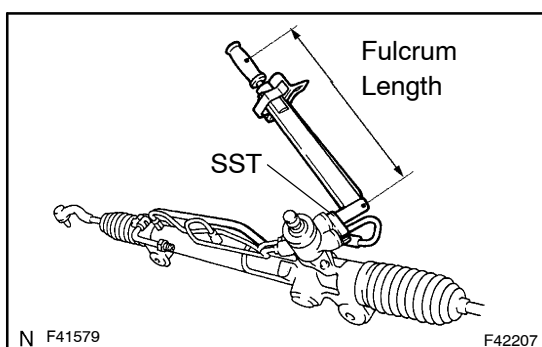
**62. INSTALL STEERING RIGHT TURN PRESSURE TUBE**

- (a) Coat 2 new O-rings with power steering fluid and install them to the steering right turn pressure tube.
- (b) Using SST, install the steering right turn pressure tube to the rack & pinion power steering gear assy.

SST 09023-38200

**Torque: 11.5 N·m (117 kgf·cm, 8 ft·lbf)****HINT:**

- Use a torque wrench with a fulcrum length of 345 mm (13.58 in.).
- This torque value is effective in the case that SST is parallel to a torque wrench.

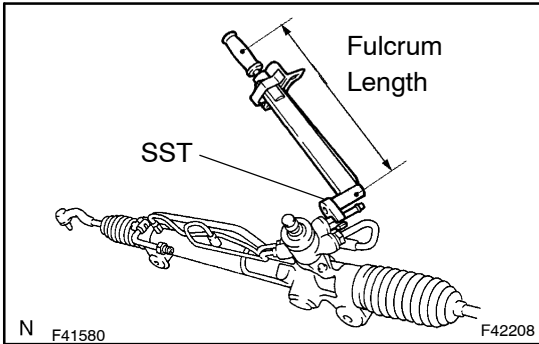
**63. INSTALL PRESSURE FEED TUBE ASSY(RHD STEERING POSITION TYPE, 1MZ-FE ENGINE TYPE)**

- (a) Coat 2 new O-rings with power steering fluid and install them to the pressure feed tube assy.
- (b) Using SST, install the pressure feed tube assy to the rack & pinion power steering gear assy.

SST 09023-12700

**Torque: 22.5 N·m (229 kgf·cm, 17 ft·lbf)****HINT:**

- Use a torque wrench with a fulcrum length of 300 mm (11.81 in.).
- This torque value is effective in the case that SST is parallel to a torque wrench.



#### 64. INSTALL RETURN TUBE ASSY(RHD STEERING POSITION TYPE)

- (a) Coat a new O-ring with power steering fluid and install it to the return tube assy.
- (b) Using SST, install the return tube assy to the rack & pinion power steering gear assy.

SST 09023-12700

**Torque: 22.5 N·m (229 kgf·cm, 17 ft·lbf)**

#### HINT:

- Use a torque wrench with a fulcrum length of 300 mm (11.81 in.).
- This torque value is effective in the case that SST is parallel to a torque wrench.

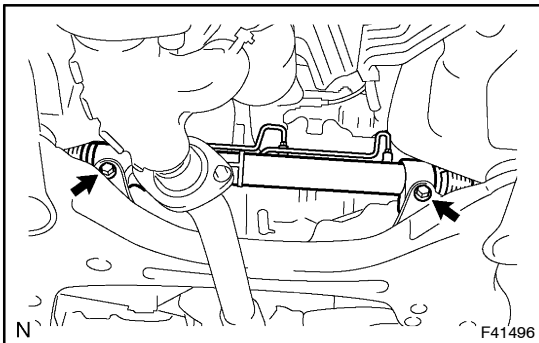
#### 65. INSTALL POWER STEERING RACK HOUSING HEAT INSULATOR(1MZ-FE ENGINE TYPE)

- (a) LHD steering type:  
Install the power steering rack housing heat insulator.

#### HINT:

Install nut when installing the return clamp.

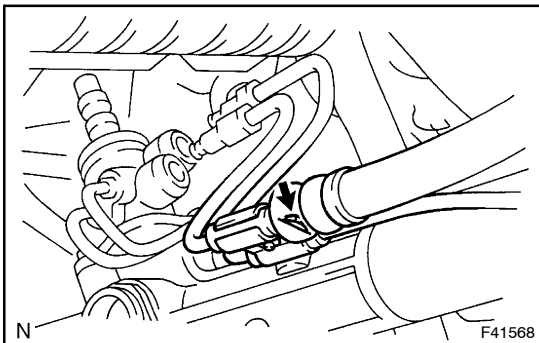
- (b) RHD steering type:  
Install the power steering rack housing heat insulator with the bolt.



#### 66. INSTALL RACK & PINION POWER STEERING GEAR ASSY

- (a) Install the rack & pinion power steering gear assy with the 2 bolts and 2 nuts.

**Torque: 70 N·m (714 kgf·cm, 52 ft·lbf)**



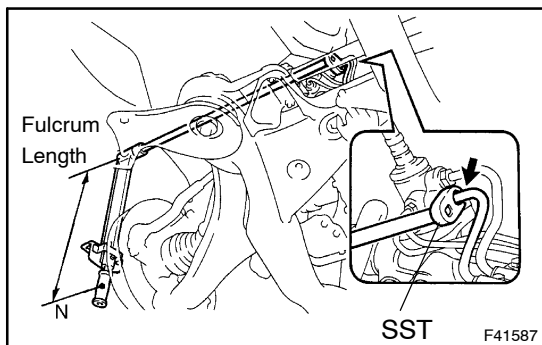
- (b) LHD steering position type:  
Connect the tube clamp with the bolt.

**Torque: 9.8 N·m (100 kgf·cm, 86 in·lbf)**

SST 09023-38200

#### 67. CONNECT STEERING GEAR OUTLET RETURN TUBE(RHD STEERING POSITION TYPE)

- (a) Connect the steering gear outlet return tube to return tube assy and install clamp.

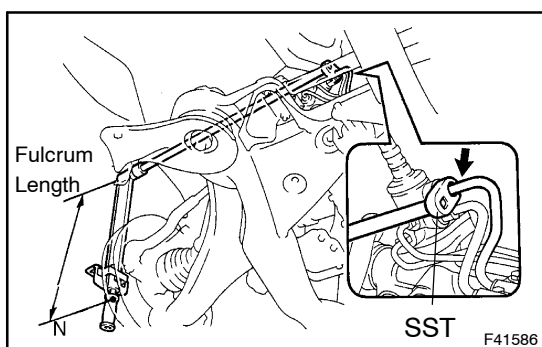
**68. CONNECT PRESSURE FEED TUBE ASSY**

- (a) LHD steering position type:  
RHD steering position type, 2AZ-FE engine type:  
Using SST, connect the pressure feed tube assy to the rack & pinion power steering gear assy.

SST 09023-12700

**Torque: 22.5 N·m (229 kgf·cm, 17 ft·lbf)****HINT:**

- Use a torque wrench with a fulcrum length of 300 mm (11.81 in.).
- This torque value is effective in the case that SST is parallel to a torque wrench.

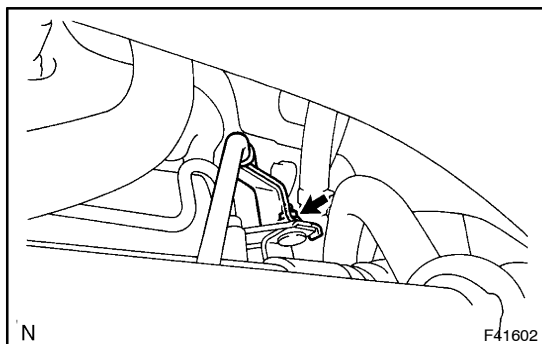


- (b) LHD steering position type:  
Using SST, connect the return tube assy to the rack & pinion power steering gear assy.

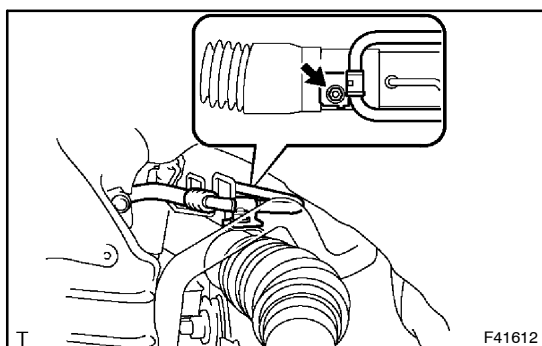
SST 09023-12700

**Torque: 22.5 N·m (229 kgf·cm, 17 ft·lbf)****HINT:**

- Use a torque wrench with a fulcrum length of 300 mm (11.81 in.).
- This torque value is effective in the case that SST is parallel to a torque wrench.

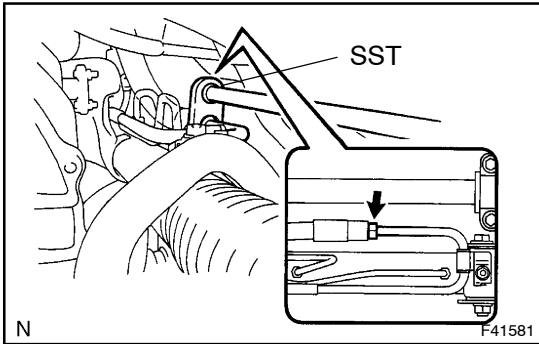


- (c) LHD steering position type:  
Install the return tube assy clamp with the nut.

**Torque: 9.8 N·m (100 kgf·cm, 86 in·lbf)**

- (d) RHD steering position type:  
Connect the pressure feed tube clamp with the nut.

**Torque: 9.8 N·m (100 kgf·cm, 86 in·lbf)**



- (e) RHD steering position type, 1MZ-FE engine type:  
Using SST, connect the pressure feed tube assy to the pressure feed hose.

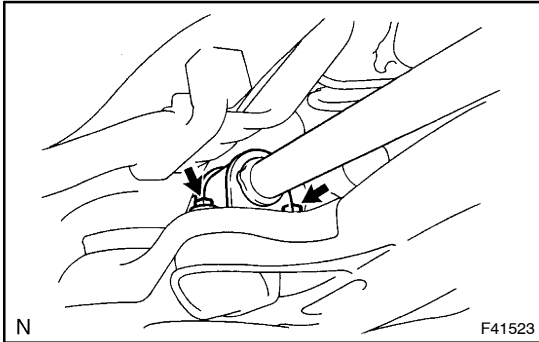
SST 09023-12700

**Torque: 22.3 N·m (227 kgf·cm, 17 in·lbf)**

**HINT:**

- Use a torque wrench with a fulcrum length of 300 mm (11.81 in.).
- This torque value is effective in the case that SST is parallel to a torque wrench.

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



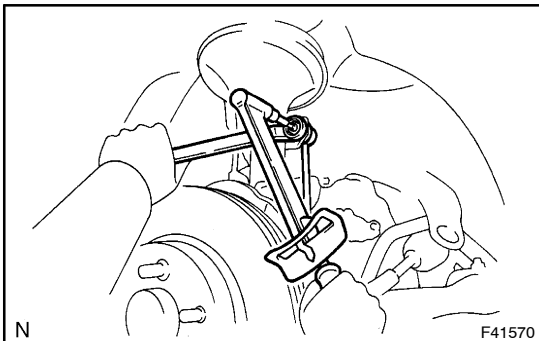
- (a) Install the front stabilizer bracket No.1 LH with the 2 bolts.

**Torque: 19 N·m (194 kgf·cm, 14 ft·lbf)**

**70. INSTALL FRONT STABILIZER BRACKET NO.1 RH**

**HINT:**

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



**71. CONNECT FRONT STABILIZER LINK ASSY LH**

- (a) Connect the front stabilizer link assy LH to the shock absorber assy front LH with the nut.

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

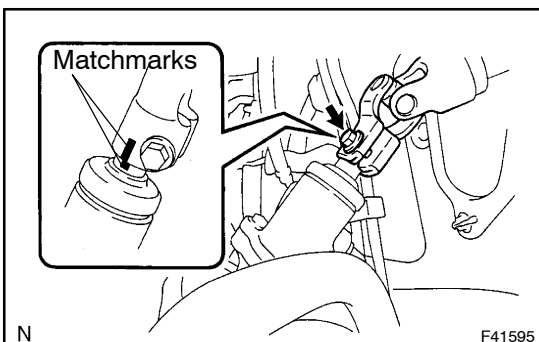
**HINT:**

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

**72. CONNECT FRONT STABILIZER LINK ASSY RH**

**HINT:**

Connect the RH side by the same procedures with LH side.

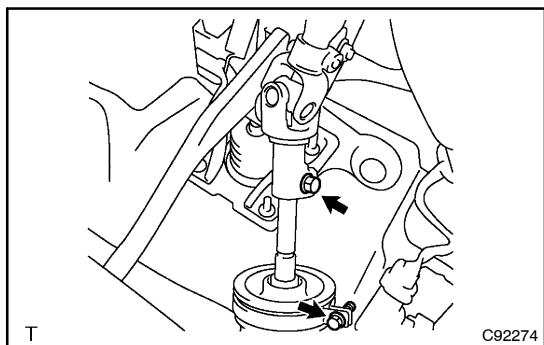


**73. CONNECT STEERING INTERMEDIATE SHAFT SUB-ASSY**

- (a) Align the matchmarks on the steering intermediate shaft sub-assy and rack & pinion power steering gear assy.

- (b) Install the bolt.

**Torque: 35.3 N·m (360 kgf·cm, 26 ft·lbf)**



- (c) Tighten the bolt.  
**Torque: 35.3 N·m (360 kgf·cm, 26 ft·lbf)**
- (d) Install the steering column hole cover No.2 to the steering hole cover No.1.
- (e) Connect the clamp to the steering column hole cover No.1 and tighten the bolt.

#### 74. CONNECT TIE ROD ASSY LH

- (a) Connect the tie rod Assy LH with the nut.  
**Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)**
- (b) Install a new cotter pin.

#### NOTICE:

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

#### 75. CONNECT TIE ROD ASSY RH

#### HINT:

Connect the RH side by the same procedures with LH side.

#### 76. INSTALL FRONT WHEEL

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

#### 77. ADD POWER STEERING FLUID

#### 78. BLEED POWER STEERING FLUID

#### 79. CHECK POWER STEERING FLUID LEAKAGE

#### 80. INSTALL SPIRAL CABLE SUB-ASSY

(See page 50-6)

#### 81. CENTER SPIRAL CABLE (See page 50-6)

#### 82. INSTALL STEERING WHEEL ASSY

(See page 50-6)

#### 83. INSTALL HORN BUTTON ASSY

(See page 50-6)

#### 84. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page 26-4)

#### 85. INSPECT STEERING WHEEL CENTER POINT

#### 86. INSPECT SRS WARNING LIGHT (See page 05-758)