

# FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH (ATM)

## REPLACEMENT

HINT:

COMPONENTS: [See page 26-2](#)

1. REMOVE HOOD SUB-ASSY
2. REMOVE FRONT WIPER ARM HEAD CAP
3. REMOVE FR WIPER ARM LH(3 LINK TYPE FR WIPER)  
([See page 66-9](#))
4. REMOVE COWL TOP VENTILATOR LOUVER CENTER NO.1(4 LINK TYPE FR WIPER)  
([See page 66-9](#))
5. REMOVE FR WIPER ARM LH(4 LINK TYPE FR WIPER)  
([See page 66-9](#))
6. REMOVE FR WIPER ARM RH  
([See page 66-9](#))
7. REMOVE COWL TOP VENTILATOR LOUVER SUB-ASSY  
([See page 66-9](#))
8. REMOVE WIPER LINK ASSY  
([See page 66-9](#))
9. REMOVE COWL TOP PANEL SUB-ASSY OUTER  
([See page 26-7](#))
10. SUSPEND ENGINE ASSEMBLY([See page 40-7](#))
11. REMOVE FRONT WHEEL
12. REMOVE FRONT AXLE HUB LH NUT  
([See page 30-7](#))  
SST 09930-00010
13. REMOVE FRONT AXLE HUB RH NUT

SST 09930-00010

HINT:

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

14. SEPARATE SPEED SENSOR FRONT LH  
([See page 26-7](#))
15. SEPARATE SPEED SENSOR FRONT RH

HINT:

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

16. SEPARATE TIE ROD END SUB-ASSY LH  
([See page 30-7](#))  
SST 09628-62011
17. SEPARATE TIE ROD END SUB-ASSY RH

SST 09628-62011

HINT:

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

## 18. SEPARATE FRONT STABILIZER LINK ASSY LH

(See page 26-7)

## 19. SEPARATE FRONT STABILIZER LINK ASSY RH

HINT:

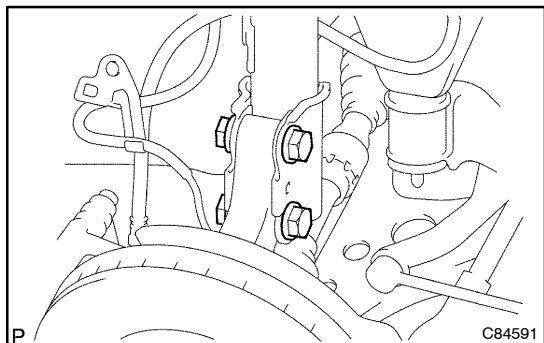
Remove the RH side by the same procedures with the LH side.

## 20. SEPARATE FRONT AXLE ASSY LH (See page 30-7)

## 21. SEPARATE FRONT AXLE ASSY RH

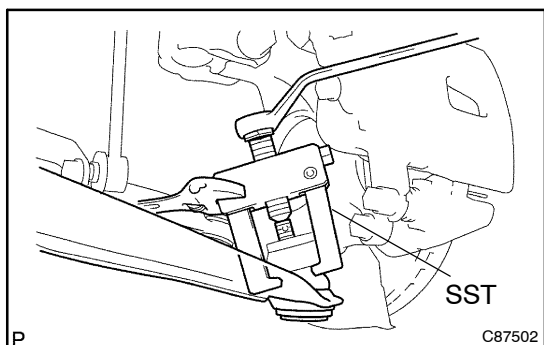
HINT:

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



## 22. TEMPORARY TIGHTEN FRONT AXLE ASSY LH

- Install the bolt and nut, temporarily tighten front axle assy LH to the shock absorber assy front LH.



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

- Remove the clip and castle nut.
- Using SST, disconnect the front suspension arm sub-assy lower No. 1 LH.  
SST 09628-62011

## 24. TEMPORARY TIGHTEN FRONT AXLE ASSY RH

HINT:

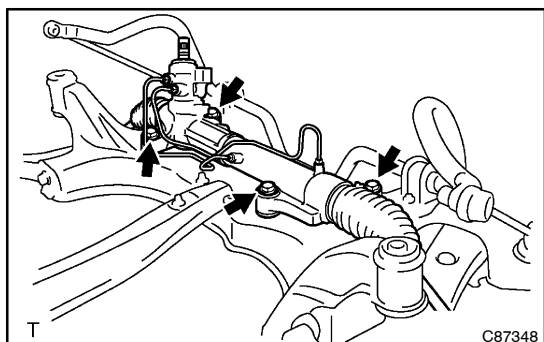
Remove the RH side by the same procedures with the LH side.

## 25. SEPARATE FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 RH

SST 09628-62011

HINT:

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

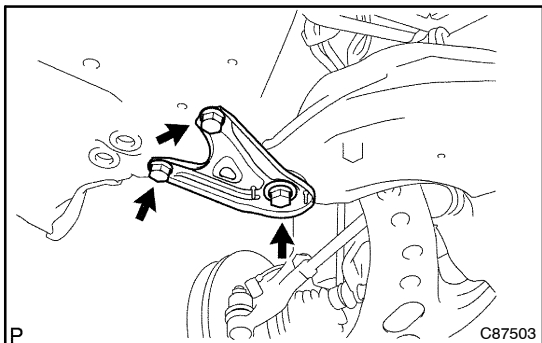


## 26. SEPARATE RACK & PINION POWER STEERING GEAR ASSY

- Remove the 4 bolts and 4 nuts, disconnect the rack & pinion power steering gear assy.
- Suspend the rack & pinion power steering gear assy.

**NOTICE:**

**Loosen the bolt since the nut cannot be rotated.**



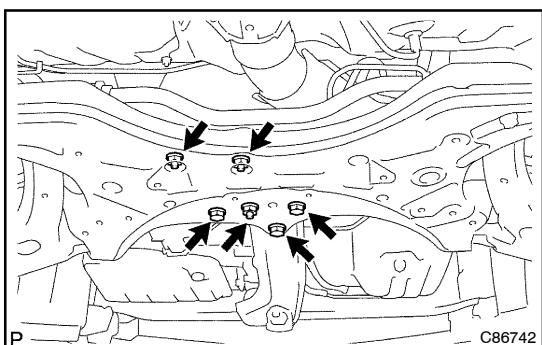
## 27. REMOVE FRONT SUSPENSION MEMBER BRACE REAR LH

- (a) Support the front suspension crossmember sub-assy with a transmission jack.
- (b) Remove the 3 bolts and front suspension member brace rear LH.
- (c) Remove the front suspension member body mounting stopper rear from the front suspension member brace rear LH.

## 28. REMOVE FRONT SUSPENSION MEMBER BRACE REAR RH

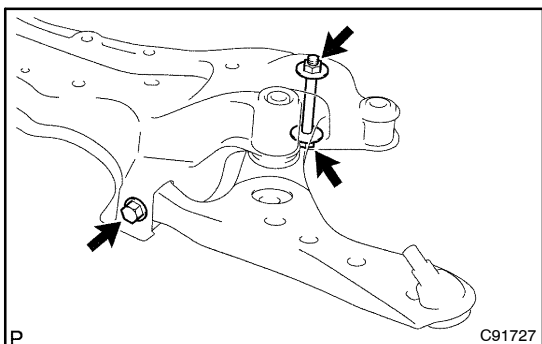
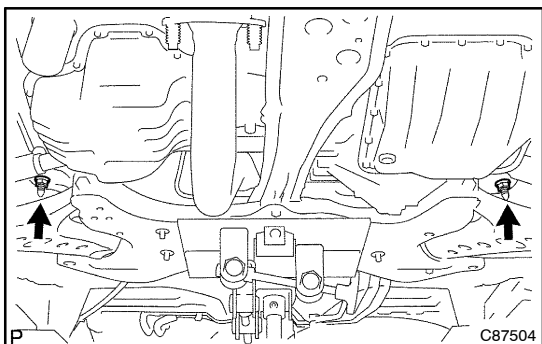
### HINT:

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



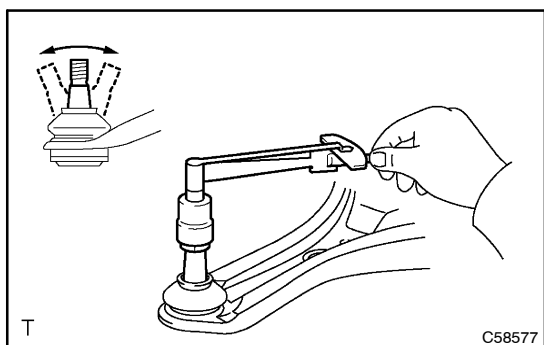
## 29. SEPARATE FRONT SUSPENSION CROSSMEMBER SUB-ASSY

- (a) Remove the 3 bolts and 3 nuts, disconnect the transverse engine engine mounting insulator and engine mounting member sub-assy center from the front suspension crossmember sub-assy.
- (b) Remove the 2 nuts and 2 front suspension member body mounting stoppers front.
- (c) Lower the transmission jack, remove the front suspension crossmember sub-assy.



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

- (a) Remove the 2 bolts, nut and front suspension arm sub-assy lower No. 1 LH from the front suspension crossmember sub-assy.

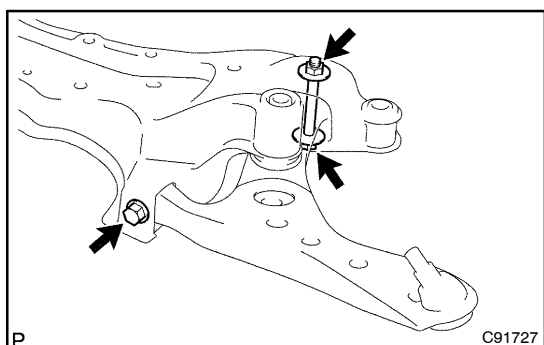


### 31. INSPECT FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH

- As shown in the illustration, flip the ball joint stud back and forth 5 times, before installing the nut.
- 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.

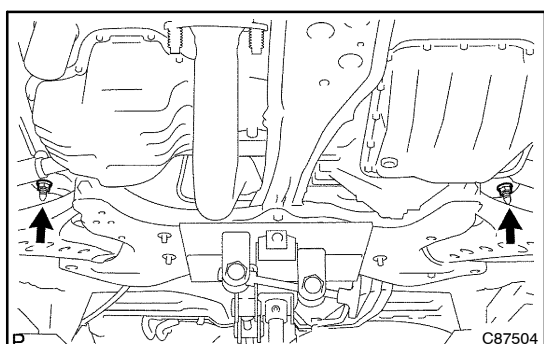
**Turning torque:**

**0.98 – 3.43 N·m (10 – 35 kgf·cm, 8.7 – 30 in·lbf)**



### 32. TEMPORARY TIGHTEN FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH

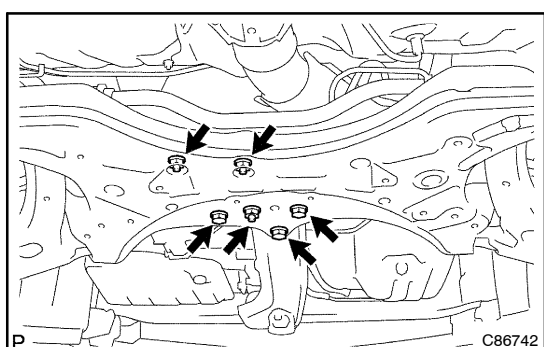
- Install the front suspension arm sub-assy lower No. 1 LH, temporarily tighten the 2 bolts and nut.



### 33. CONNECT FRONT SUSPENSION CROSSMEMBER SUB-ASSY

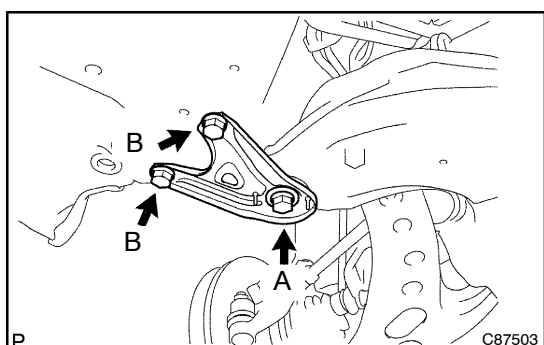
- Support the front suspension crossmember sub-assy with a transmission jack.
- Install the 2 front suspension member body mounting stoppers front and 2 nuts.

**Torque: 133 N·m (1,356 kgf·cm, 98 ft·lbf)**



- Connect the transverse engine engine mounting insulator and engine mounting member sub-assy center to the front suspension crossmember sub-assy.
- Install 3 bolts and 3 nuts.

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



### 34. INSTALL FRONT SUSPENSION MEMBER BRACE REAR LH

- Install the front suspension member body mounting stopper rear to the front suspension member brace rear LH.
- Install 3 bolts and front suspension member brace rear LH.

**Torque:**

**Bolt A: 133 N·m (1,356 kgf·cm, 98 ft·lbf)**

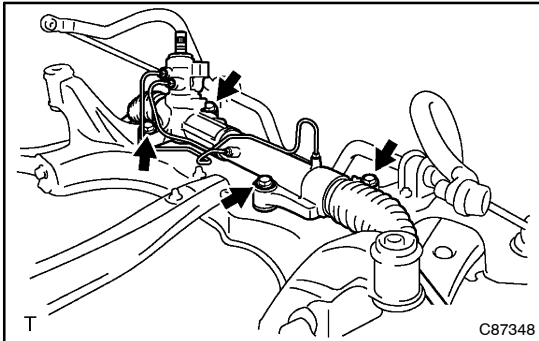
**Bolt B: 80 N·m (816 kgf·cm, 59 ft·lbf)**

- (c) Remove the transmission jack.

### 35. INSTALL FRONT SUSPENSION MEMBER BRACE REAR RH

HINT:

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



### 36. CONNECT RACK & PINION POWER STEERING GEAR ASSY

- (a) Install the 4 bolts and 4 nuts, connect the rack & pinion power steering gear assy.

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

**NOTICE:**

- Torque the bolt since the nut cannot be rotated.
- The 4 bushes must be securely installed to the power steering gear assy.
- When tightening the installation bolt for power steering gear, the bush should not bitten in.

### 37. CONNECT FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH

- (a) Install the front suspension arm sub-assy lower No. 1 LH and castle nut.

**Torque: 123 N·m (1,254 kgf·cm, 91 ft·lbf)**

- (b) Install a new clip.

### 38. CONNECT FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 RH

HINT:

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

### 39. INSTALL FRONT AXLE ASSY LH (See page 30-7)

### 40. INSTALL FRONT AXLE ASSY RH

HINT:

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

### 41. CONNECT FRONT STABILIZER LINK ASSY LH

(See page 26-7)

### 42. CONNECT FRONT STABILIZER LINK ASSY RH

HINT:

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

### 43. CONNECT TIE ROD END SUB-ASSY LH

(See page 30-7)

### 44. CONNECT TIE ROD END SUB-ASSY RH

HINT:

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

### 45. CONNECT SPEED SENSOR FRONT LH

(See page 26-7)

### 46. CONNECT SPEED SENSOR FRONT RH

HINT:

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

### 47. INSTALL FRONT AXLE HUB LH NUT

(See page 30-7)

**48. INSTALL FRONT AXLE HUB RH NUT**

HINT:

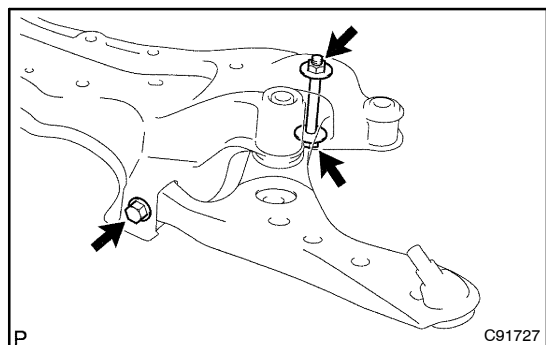
Install the RH side by the same procedures with the LH side.

**49. STABILIZE SUSPENSION**

- (a) Install the front wheel and jack down the vehicle.

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

- (b) Bounce the vehicle up and down several times to stabilize the suspension.

**50. FULLY TIGHTEN FRONT SUSPENSION ARM SUB-ASSY LOWER NO.1 LH**

- (a) Fully tighten the 2 bolts and nut.

**Torque: 137 N·m (1,397 kgf·cm, 101 ft·lbf)**

**51. INSTALL COWL TOP PANEL SUB-ASSY OUTER**

(See page 26-7)

**52. INSTALL WIPER LINK ASSY**

(See page 66-9)

**53. INSTALL COWL TOP VENTILATOR LOUVER SUB-ASSY**

(See page 66-9)

**54. INSTALL FR WIPER ARM RH**

(See page 66-9)

**55. INSTALL FR WIPER ARM LH (4 LINK TYPE FR WIPER)**

(See page 66-9)

**56. INSTALL COWL TOP VENTILATOR LOUVER CENTER NO.1 (4 LINK TYPE FR WIPER)**

(See page 66-9)

**57. INSTALL FR WIPER ARM LH (3 LINK TYPE FR WIPER)**

(See page 66-9)

**58. INSTALL FRONT WIPER ARM HEAD CAP****59. INSTALL HOOD SUB-ASSY****60. INSPECT HOOD SUB-ASSY**

(See page 75-1)

**61. ADJUST HOOD SUB-ASSY**

(See page 75-1)

**62. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page 28-1)****63. CHECK ABS SPEED SENSOR SIGNAL (See page 05-295)**