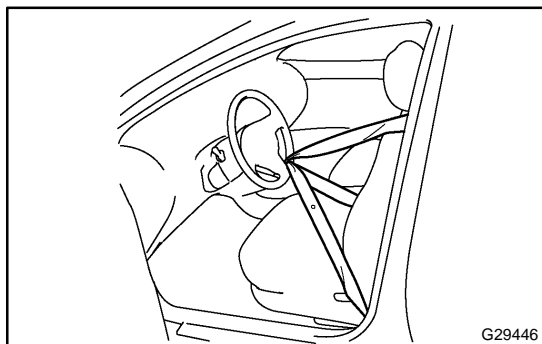


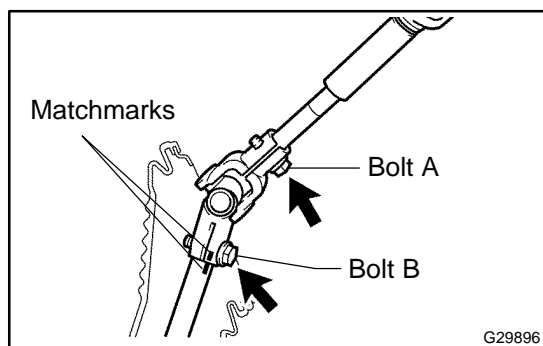
## OVERHAUL

1. PLACE FRONT WHEELS FACING STRAIGHT AHEAD
2. REMOVE COLUMN HOLE COVER SILENCER SHEET (SEE PAGE 50-8)

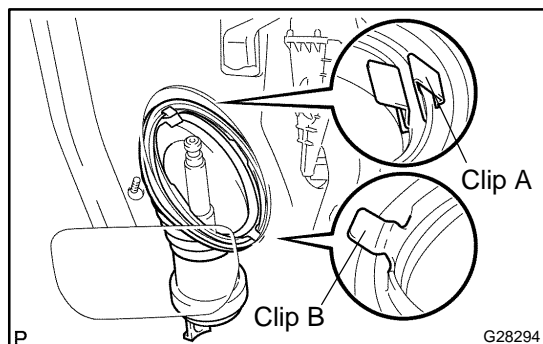


### 3. SEPARATE STEERING SLIDING YOKE SUB-ASSY

- (a) Fix the steering wheel assy with the seat belt in order to prevent rotation and damage to the spiral cable.



- (b) Put matchmarks on the sliding yoke sub-assy and the intermediate shaft.
- (c) Loosen bolt A and remove bolt B to separate the sliding yoke sub-assy.



### 4. SEPARATE STEERING COLUMN HOLE COVER SUB-ASSY NO.1

- (a) Remove clip A and separate the column hole cover No.1 from the body.

**NOTICE:**  
Do not damage clip B.

5. REMOVE FRONT WHEELS
6. SEPARATE TIE ROD END SUB-ASSY LH (SEE PAGE 30-7)
7. SEPARATE TIE ROD END SUB-ASSY RH

HINT:

Perform the same procedure as for the LH.

### 8. REMOVE FRONT STABILIZER LINK ASSY (SEE PAGE 26-25)

HINT:

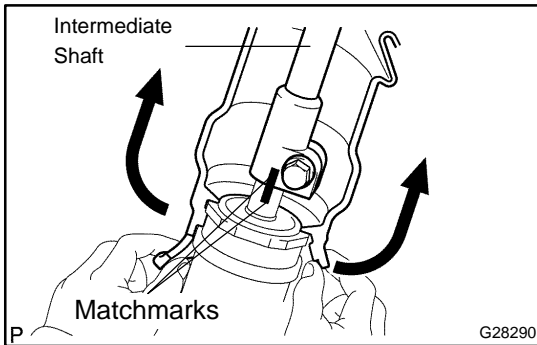
Remove both LH and RH.

### 9. REMOVE FRONT STABILIZER BRACKET NO.1 LH (SEE PAGE 26-25)

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

HINT:

Perform the same procedure as for the LH.



### 11. REMOVE STEERING INTERMEDIATE SHAFT

- (a) Move the column hole cover No.1 to the upper side of the vehicle and put matchmarks on the intermediate shaft and the steering gear assy.

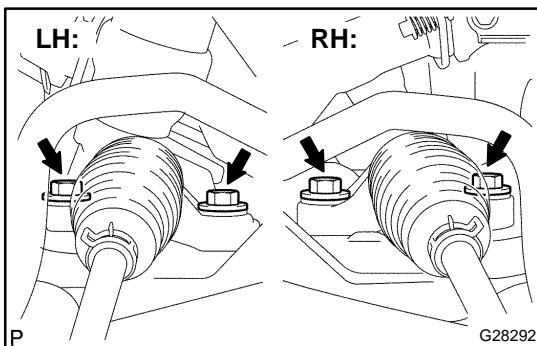
**NOTICE:**

**Do not damage the hole cover No.1 when moving it.**

- (b) Remove the bolt and remove the intermediate shaft from the inside of the vehicle.
- (c) Remove the column hole cover No.1 from the steering gear assy.

**NOTICE:**

**Do not damage the hole cover No.1 clip.**

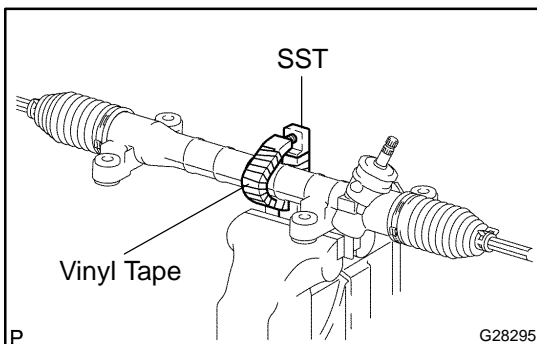


### 12. REMOVE STEERING GEAR ASSY

- (a) Remove the 4 bolts and remove the steering gear assy from the left side of the vehicle.

**HINT:**

Be careful not to hit the stabilizer bar when removing the steering gear assy.

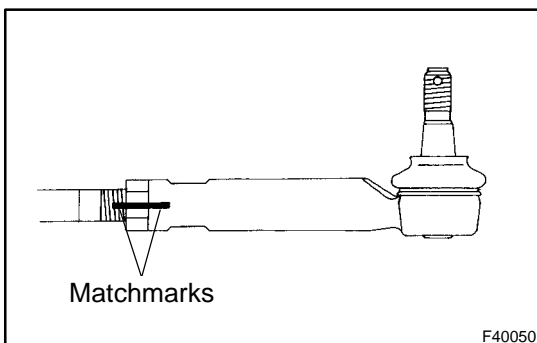


### 13. FIX STEERING GEAR ASSY

- (a) Using SST wrapped with protection tape, secure the steering gear assy in a vise.  
SST 09612-00012

**HINT:**

Remove and reinstall the SST as needed.



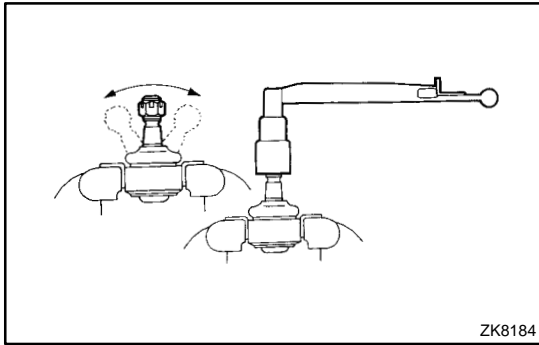
### 14. REMOVE TIE ROD END SUB-ASSY LH

- (a) Put matchmarks on the tie rod end sub-assy LH and the rack end.
- (b) Remove the tie rod end sub-assy LH and the lock nut.

### 15. REMOVE TIE ROD END SUB-ASSY RH

**HINT:**

Perform the same procedure as for the LH.

**16. INSPECT TIE ROD END SUB-ASSY LH**

- (a) Secure the tie rod end sub-assy LH ball joint in a vise through aluminum plates.

**NOTICE:**

**Do not overtighten the vise.**

- (b) Install the castle nut to the stud bolt.  
 (c) Flip the ball joint back and forth 5 times or more.  
 (d) Set a torque wrench to the nut, turn the ball joint continuously at a rate of 3 to 5 seconds per turn, and check the turning torque on the 5th turn.

**Turning torque:**

**2.0 N·m (20.4 kgf·cm, 18 in. lbf) or less**

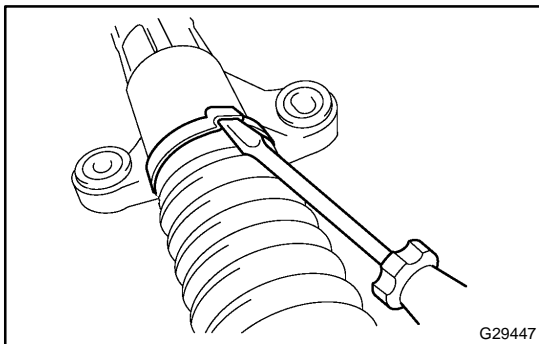
If turning torque is out of specifications, replace the tie rod end sub-assy LH with a new one.

**17. INSPECT TIE ROD END SUB-ASSY RH****HINT:**

Perform the same procedure as for the LH.

**18. REMOVE STEERING RACK BOOT CLIP**

- (a) Using pliers, remove the 2 rack boot clips (RH and LH).

**19. REMOVE STEERING RACK BOOT NO.2 CLAMP**

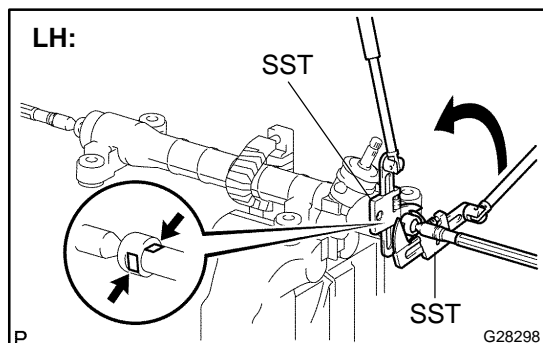
- (a) Using a screwdriver, unhook and remove the rack boot clamp No.2.

**NOTICE:**

**Do not damage the rack boot No.2.**

**20. REMOVE STEERING RACK BOOT NO.1 CLAMP****HINT:**

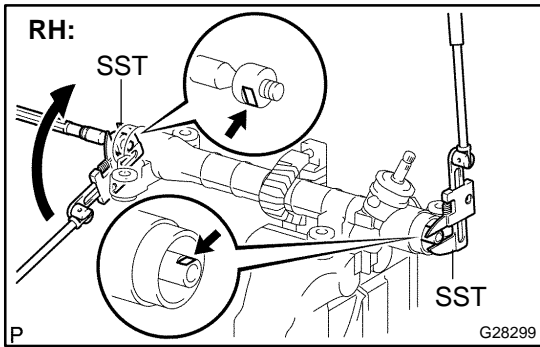
Perform the same procedure as for the rack boot clamp No.2.

**21. REMOVE STEERING RACK BOOT NO.2****22. REMOVE STEERING RACK BOOT NO.1****23. REMOVE STEERING RACK END SUB-ASSY**

- (a) Using 2 SST, remove the rack end sub-assy (LH side).  
 SST 09922-10010

**NOTICE:**

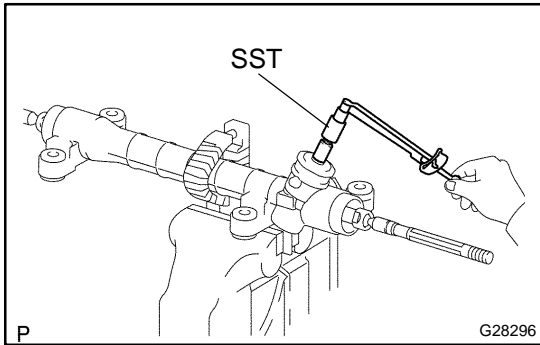
- Use the SST in the correct direction as shown in the illustration.
- Securely hold the steering rack.



- (b) Using 2 SST, hold the steering rack LH side and remove the rack end sub-assy (RH side).  
SST 09922-10010

**NOTICE:**

- Use the SST in the correct direction as shown in the illustration.
- Securely hold the steering rack.



**24. INSPECT TOTAL PRELOAD**

- (a) Using SST, inspect total preload.  
SST 09616-00011

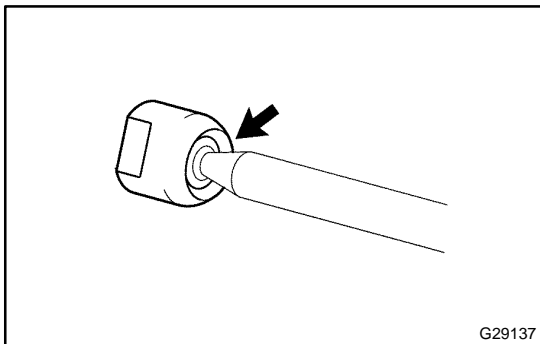
**Preload (turning):**

0.6 to 1.2 N·m (6.1 to 12.2 kgf·cm, 5 to 11 in.·lbf)

**NOTICE:**

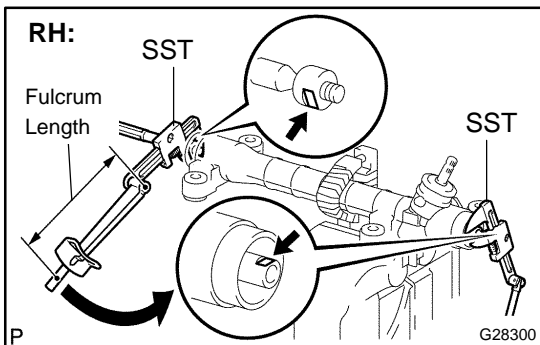
**Inspect around the steering rack center position.**

If total preload is out of specifications, replace the steering gear assy with a new one.



**25. INSTALL STEERING RACK END SUB-ASSY**

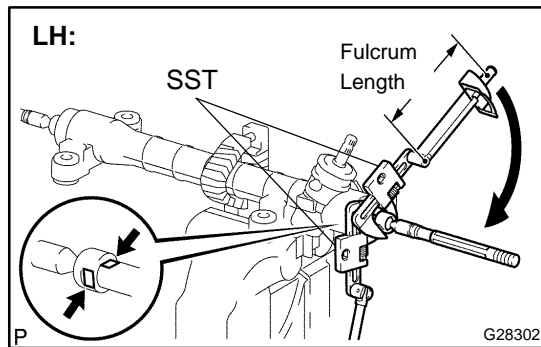
- (a) Fill up the ball joints of the RH and LH rack ends with molybdenum disulfide lithium base grease.



- (b) Using 2 SST, hold the steering rack LH side and install the rack end sub-assy (RH side).  
SST 09922-10010  
**Torque: 60 N·m (612 kgf·cm, 44 ft·lbf)**

**NOTICE:**

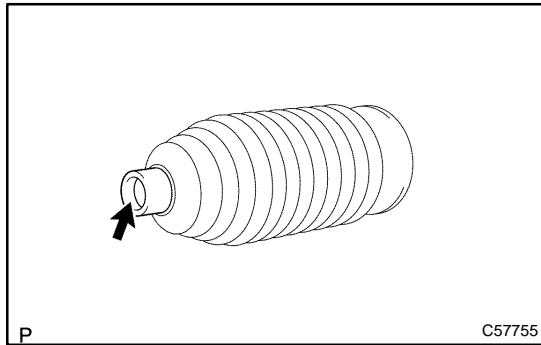
- Use a torque wrench with a fulcrum length of 345 mm (13.58 in.).
- Use the SST in the correct direction as shown in the illustration.
- Securely hold the steering rack.



- (c) Using 2 SST, install the rack end sub-assy (LH side).  
SST 09922-10010  
Torque: 60 N·m (612 kgf·cm, 44 ft·lbf)

**NOTICE:**

- Use a torque wrench with a fulcrum length of 345 mm (13.58 in.).
- Use the SST in the correct direction as shown in the illustration.
- Securely hold the steering rack.

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

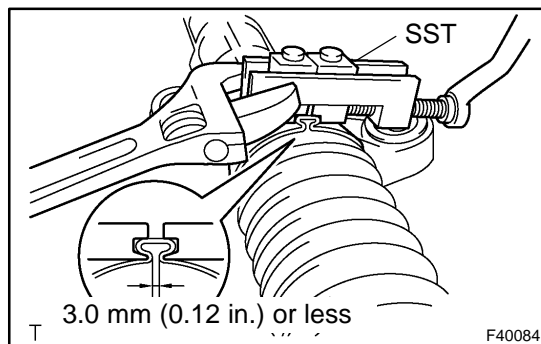
- (a) Apply silicon grease to the inside of the small opening of the rack boot No.2.  
(b) Install the rack boot No.2 in the groove on the rack housing.

**NOTICE:**

**Make sure that the rack boot No.2 is not twisted.**

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

Perform the same procedure as for the rack boot No.2.

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

- (a) Install a new rack boot clamp No.2 to the rack boot No.2.

**NOTICE:**

**Do not damage the rack boot No.2.**

- (b) While pushing SST to the rack housing, pinch the rack boot clamp No.2 so that clearance is within specifications.  
SST 09521-24010

**Clearance: 3.0 mm (0.12 in.) or less**

**NOTICE:**

**Make sure that the rack boot No.2 is not twisted.**

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

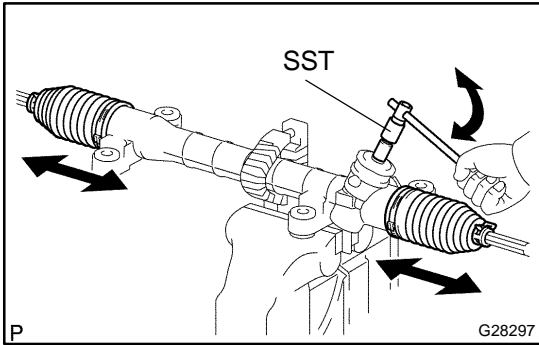
SST 09521-24010

**HINT:**

Perform the same procedure as for the rack boot clamp No.2.

**30. INSTALL STEERING RACK BOOT CLIP**

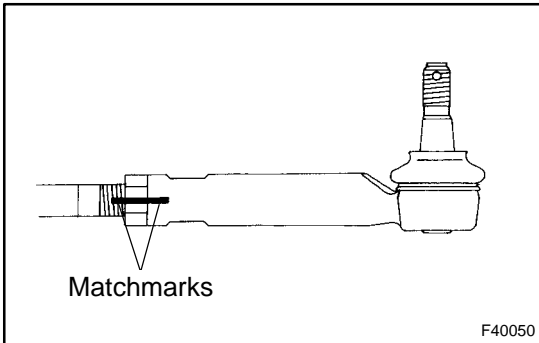
- (a) Using pliers, install the 2 rack boot clips to the RH and LH rack boots.



**31. INSPECT STEERING GEAR ASSY**

- (a) Using SST, turn the pinion shaft and check that the RH and LH rack boots expand and contract smoothly.  
SST 09616-00011

If the rack boot does not expand and contract smoothly, reinstall it with a new rack boot clamp.



**32. INSTALL TIE ROD END SUB-ASSY LH**

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

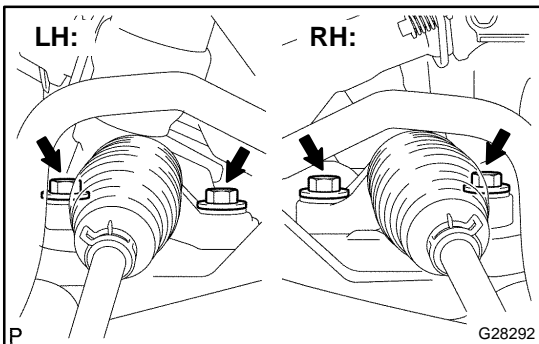
HINT:

Fully tighten the lock nut after adjusting toe-in.

**33. INSTALL TIE ROD END SUB-ASSY RH**

HINT:

Perform the same procedure as for the LH.



**34. INSTALL STEERING GEAR ASSY**

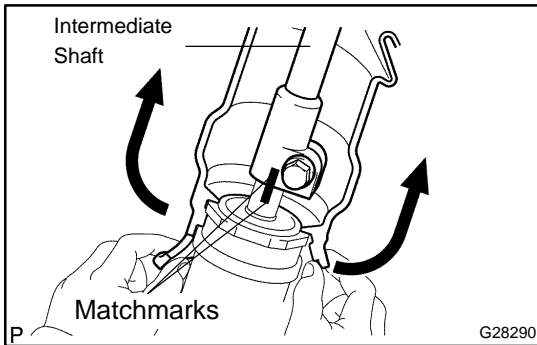
- (a) Install the steering gear assy from the left side of the vehicle.

HINT:

Be careful not to hit the stabilizer bar when installing the steering gear assy.

- (b) Install the column hole cover No.1 to the steering gear assy.
- (c) Install the steering gear assy to the crossmember with the 4 bolts.

**Torque: 58 N·m (591 kgf·cm, 43 ft·lbf)**

**35. INSTALL STEERING INTERMEDIATE SHAFT**

- (a) Move the column hole cover No.1 to the upper side of the vehicle, align the matchmarks, and install the intermediate shaft from the inside of the vehicle.

**NOTICE:**

**Do not damage the hole cover No.1 when moving it.**

- (b) Install the bolt.

**Torque: 35 N·m (360 kgf·cm, 26 ft·lbf)**

- (c) Fit the recessed part on the column hole cover No.1 to the steering gear assy.

**NOTICE:**

**Make sure that the hole cover No.1 is securely installed.**

**36. INSTALL FRONT STABILIZER BRACKET NO.1 LH (SEE PAGE 26-25)****37. INSTALL FRONT STABILIZER BRACKET NO.1 RH****HINT:**

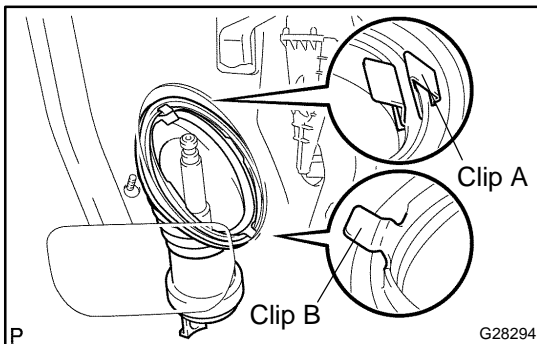
Perform the same procedure as for the LH.

**38. INSTALL FRONT STABILIZER LINK ASSY (SEE PAGE 26-25)****39. INSTALL TIE ROD END SUB-ASSY LH (SEE PAGE 30-7)****40. INSTALL TIE ROD END SUB-ASSY RH****HINT:**

Perform the same procedure as for the LH.

**41. INSTALL FRONT WHEELS**

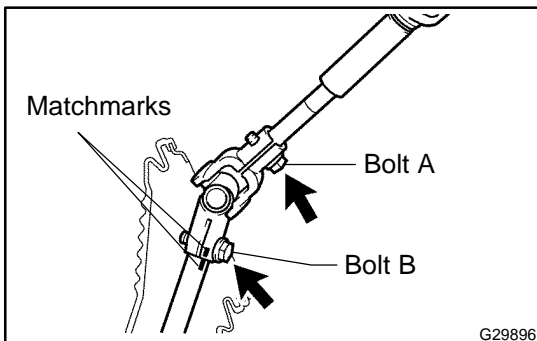
**Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)**

**42. INSTALL STEERING COLUMN HOLE COVER SUB-ASSY NO.1**

- (a) Install clip B to the vehicle body and install the column hole cover No.1 to the vehicle body with clip A.

**NOTICE:**

**Make sure that the hole cover No.1 lip fits on the dash panel correctly.**

**43. INSTALL STEERING SLIDING YOKE SUB-ASSY**

- (a) Align the matchmarks and install the sliding yoke sub-assy to the intermediate shaft with bolt B.

**Torque: 35 N·m (360 kgf·cm, 26 ft·lbf)**

- (b) Tighten bolt A.

**Torque: 35 N·m (360 kgf·cm, 26 ft·lbf)**

**44. INSTALL COLUMN HOLE COVER SILENCER SHEET (SEE PAGE 50-8)****45. PLACE FRONT WHEELS FACING STRAIGHT AHEAD****46. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (SEE PAGE 26-6)****47. PERFORM STEERING ANGLE SENSOR ZERO POINT CALIBRATION (SEE PAGE 05-1211)**