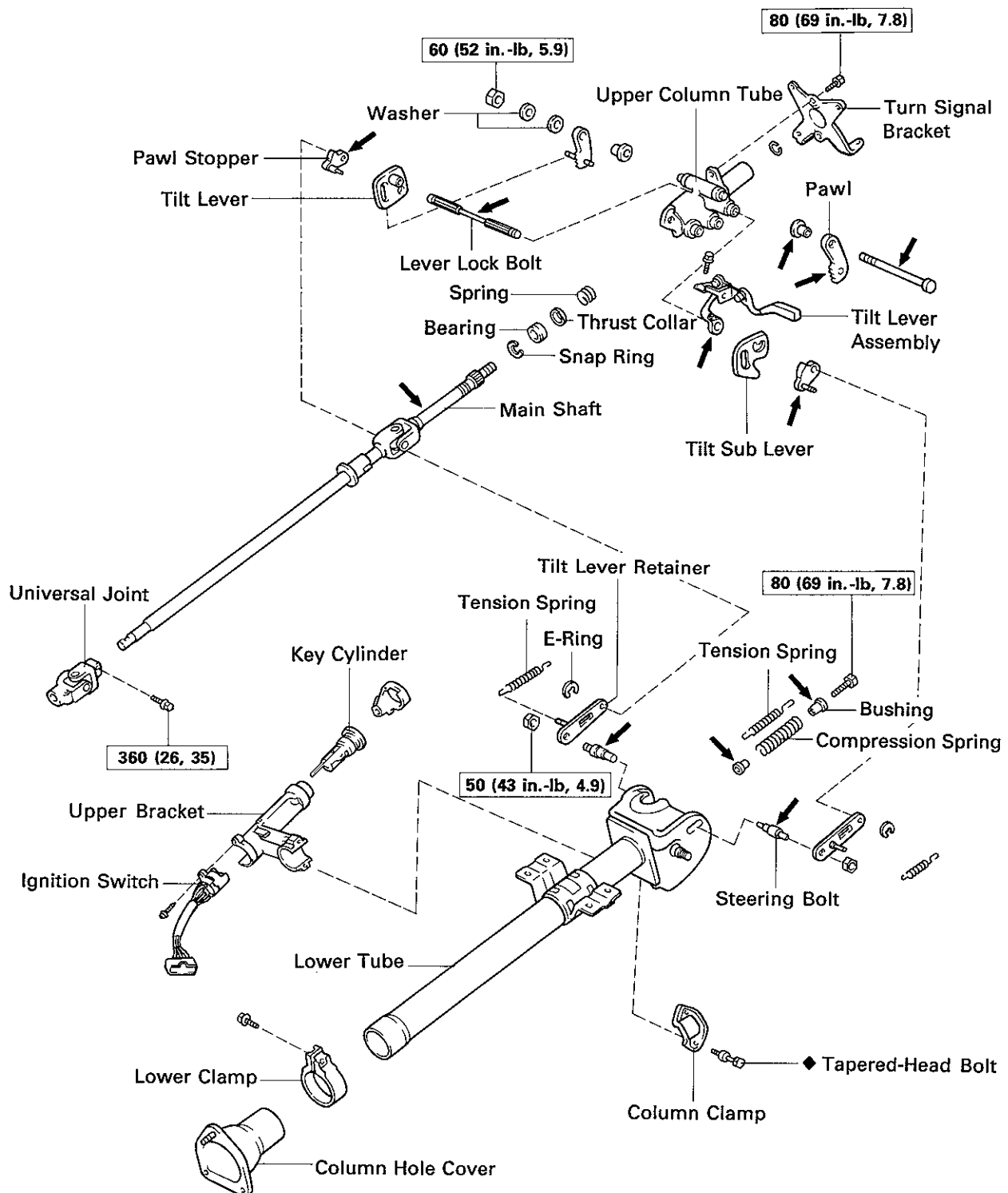


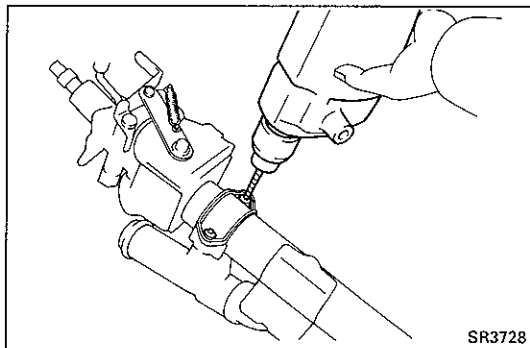
Tilt Steering Column COMPONENTS



kg-cm (ft-lb, N-m) : Specified torque

◆ Non-reusable part

← Molybdenum disulphide lithium base grease

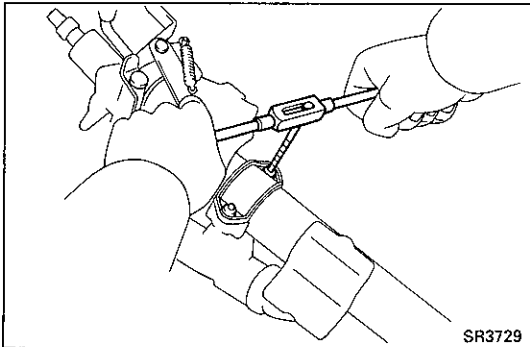


DISASSEMBLY OF STEERING COLUMN

(See page SR-9)

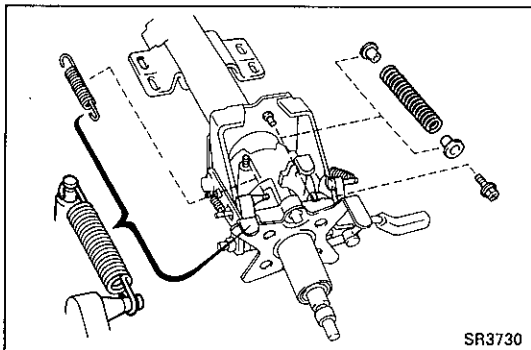
1. REMOVE UPPER BRACKET

- (a) Using a centering punch, mark the center of the tapered-head bolt.
- (b) Using a 3 – 4 mm (0.12 – 0.16 in.) drill, drill into the tapered-head bolt.
- (c) Using a screw extractor, remove the tapered-head bolt.
- (d) Remove the two bolts, and separate the upper bracket and the column tube.

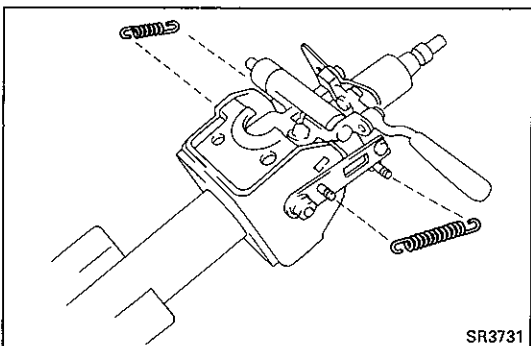


2. REMOVE COMPRESSION SPRING AND TENSION SPRING

- (a) Remove the bolt with the compression spring.
- (b) Remove the bushings from the spring.
- (c) Remove the tension spring.

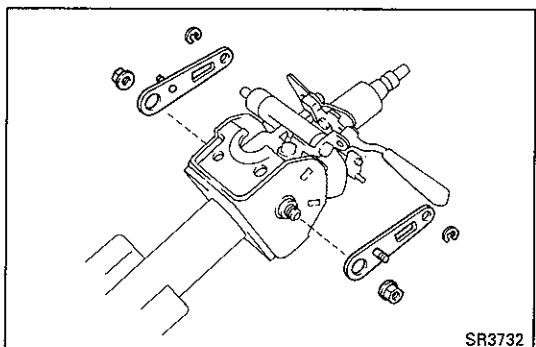


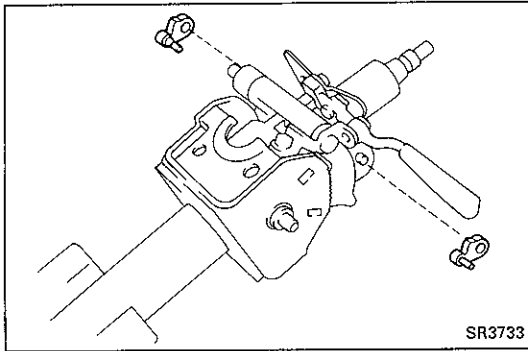
3. REMOVE TWO TENSION SPRINGS



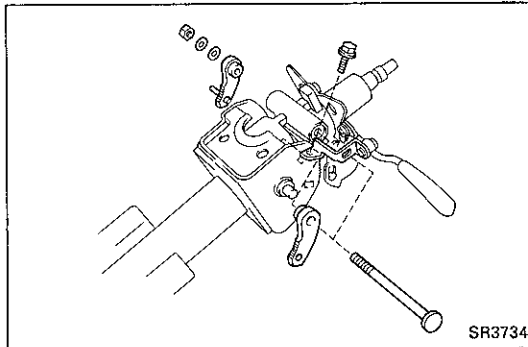
4. REMOVE TWO TILT LEVER RETAINERS

- (a) Remove the E-rings from the retainers.
- (b) Remove the retainers with the nuts.



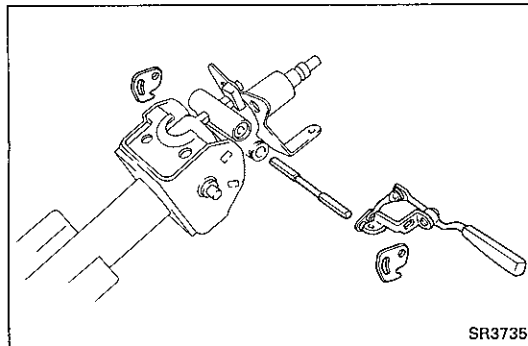


5. REMOVE TWO PAWL STOPPERS

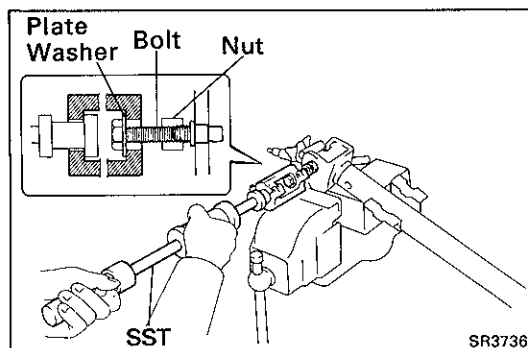


6. REMOVE TWO TILT PAWLS

- (a) Remove the nut and bolt.
- (b) Remove one screw from the tilt lever assembly.
- (c) Remove the two pawls with the collars.



7. REMOVE TILT LEVER ASSEMBLY, TILT SUB LEVERS AND LEVER LOCK BOLT



8. REMOVE UPPER COLUMN TUBE

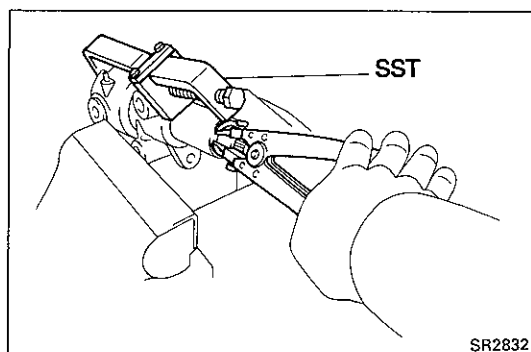
- (a) Set SST, the nut (10 mm nominal diameter, 1.25 mm pitch), plate washer (36 mm outer diameter) and bolt (10 mm nominal diameter, 1.25 mm pitch, 50 mm length) as shown. And then remove the two bolts.

SST 09910-00015 (09911-00011, 09912-00010)

(Reference)	Nut	90170-10004
	Plate washer	90201-10201
	Bolt	91111-51050

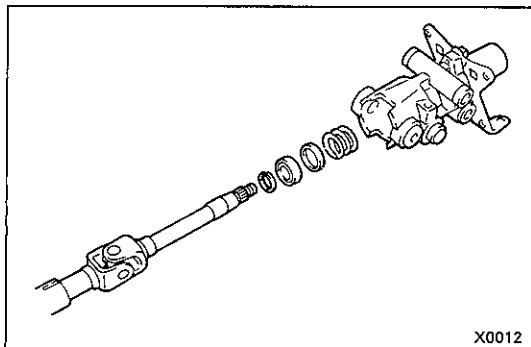
- (b) Remove the upper column tube from the lower column tube.
- (c) Remove the stopper.

9. REMOVE TURN SIGNAL BRACKET

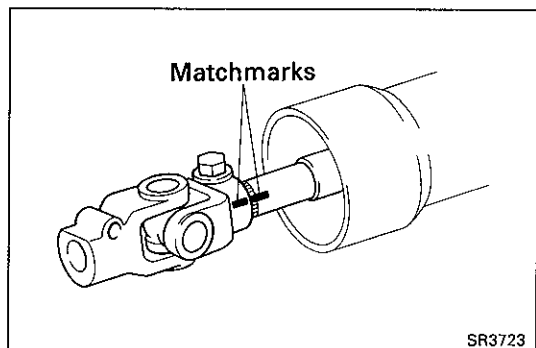
**10. REMOVE UPPER TUBE**

- (a) Using SST to hold the main shaft, remove the snap ring with snap ring pliers.

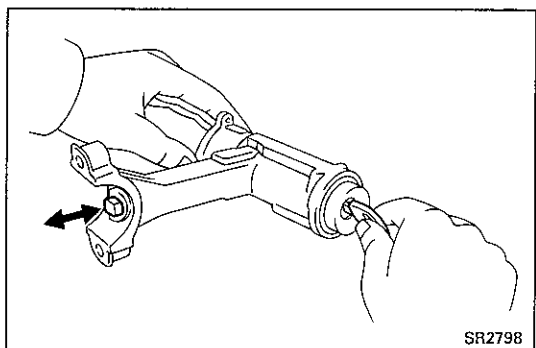
SST 09950-20017



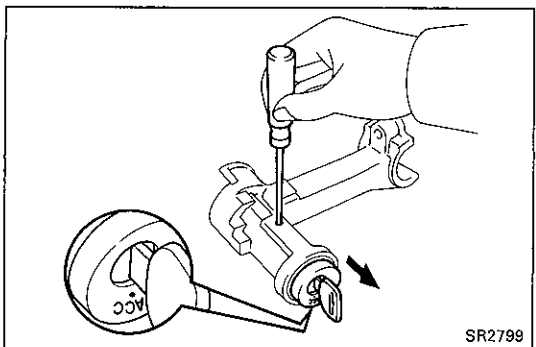
- (b) Remove the upper tube from the main shaft.
(c) Remove the spring, thrust collar and bearing.

**11. REMOVE MAIN SHAFT**

- (a) Remove the bolt, cover clamp and column hole cover.
(b) Place matchmarks on the main shaft and the sliding yoke.
(c) Remove the bolt and the sliding yoke.
(d) Pull out the main shaft from the lower tube.

**INSPECTION AND REPLACEMENT OF STEERING COLUMN**

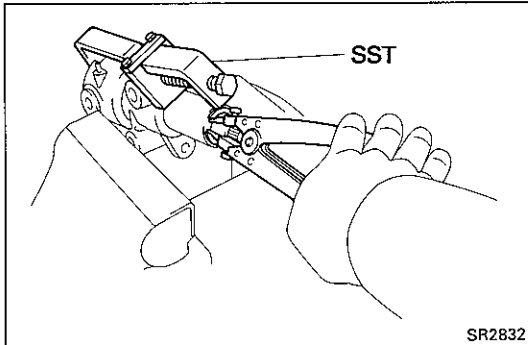
1. **INSPECT KEY CYLINDER**
(See page SR-6)
2. **IF NECESSARY, REPLACE KEY CYLINDER**
(See page SR-6)
3. **INSPECT UPPER BEARING**
(See page SR-7)



ASSEMBLY OF TILT STEERING COLUMN

(See page SR-9)

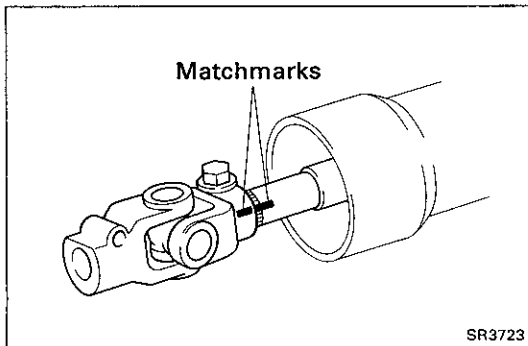
1. **COAT MOLYBDENUM DISULPHIDE LITHIUM BASE GREASE** (See page SR-9)



2. **INSTALL UPPER TUBE**

- (a) Install the main shaft with the bearing, collar and spring.
- (b) Using SST to hold the main shaft, install the snap ring with snap ring pliers.

SST 09950-20017



3. **INSTALL MAIN SHAFT**

- (a) Insert the main shaft into the lower tube.
- (b) Align matchmarks on the main shaft and the sliding yoke.

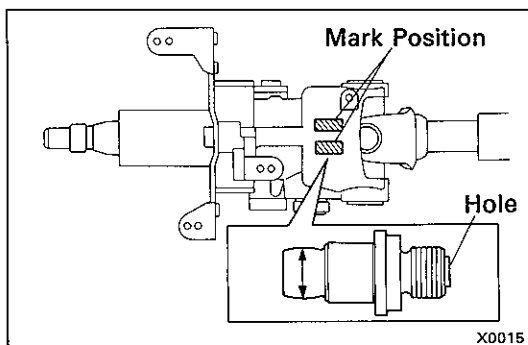
- (c) Install the bolt and the sliding yoke.

Torque: 360 kg-cm (26 ft-lb, 35 N·m)

- (d) Install the column hole cover and cover clamp with the bolt.

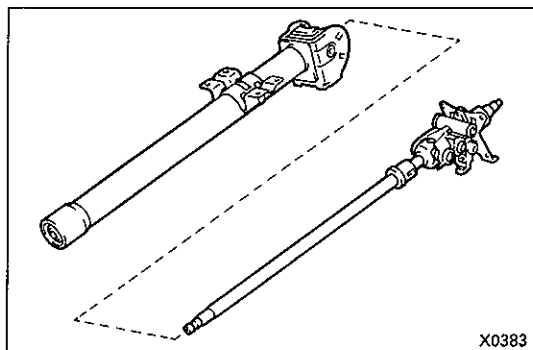
4. **INSTALL TURN SIGNAL BRACKET**

Install two bolts.



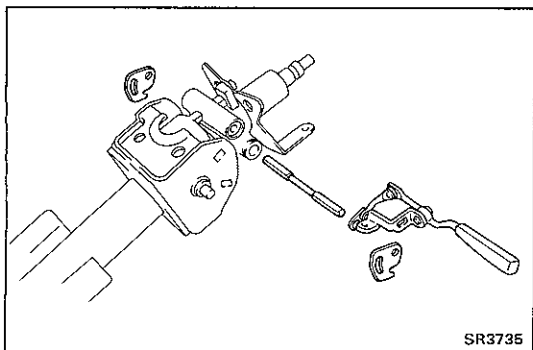
5. **SELECT STEERING BOLT AND UPPER COLUMN TUBE**

Select the bolt with center hole when the upper column tube mark is 1, and select the bolt without hole when the mark is 2.



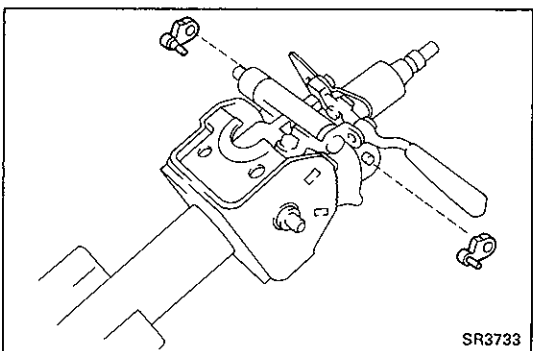
6. INSTALL MAIN SHAFT WITH UPPER COLUMN TUBE

- (a) Install the main shaft to the lower column tube.
- (b) Using a plastic hammer, drive in the steering bolts.



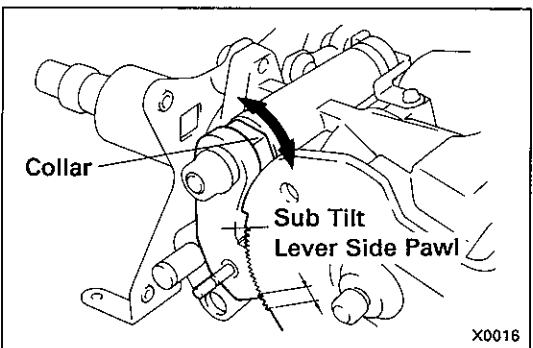
7. INSTALL TILT LEVER LOCK BOLT, TILT LEVER ASSEMBLY, TILT LEVER AND TILT SUB LEVER

- (a) Install the tilt lever lock bolt to the upper column tube.
- (b) Install the tilt lever assembly.
- (c) Install the tilt lever and tilt sub lever.



8. INSTALL TWO TILT PAWLS

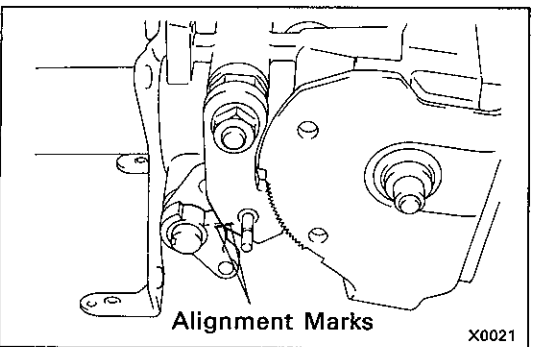
Temporarily install the tilt pawls.



9. ENGAGE AND ADJUST TILT PAWL

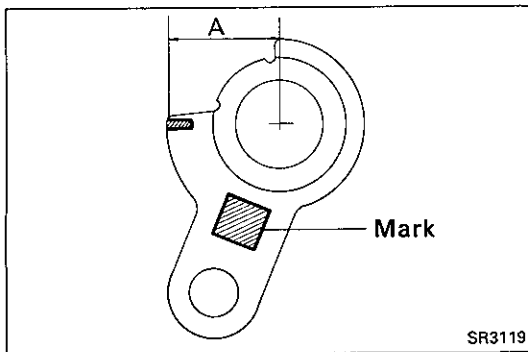
- (a) Engage the tilt sub lever side pawl to the center of the ratchet.
- (b) While turning the tilt lever side collar, engage the tilt lever side pawl to the ratchet completely.
- (c) Tighten the nut.

Torque: 60 kg-cm (52 in.-lb, 5.9 N·m)



10. SELECT STEERING PAWL STOPPERS FOR BOTH SIDES

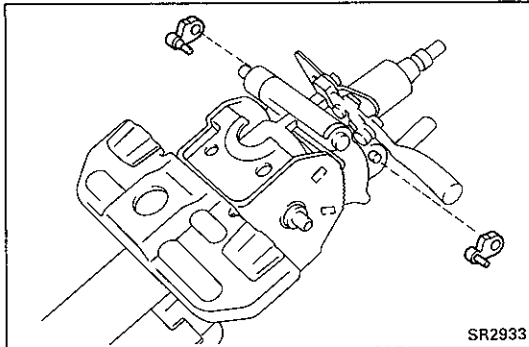
- (a) With the steering lock pawl and the ratchet engaged, select and install two tilt steering pawl stoppers.
- (b) Check that the alignment marks on the stopper and pawl align when the stopper is rotated to the pawl side.
- (c) If the alignment marks do not align, select tilt steering pawl stoppers according to the following table.



Tilt lever side	Tilt sub lever side	Dimension "A" mm(in.)
1	A	12.65 – 12.75 (0.4980 – 0.5020)
2	B	12.55 – 12.65 (0.4941 – 0.4980)
3	C	12.45 – 12.55 (0.4902 – 0.4941)
4	D	12.35 – 12.45 (0.4862 – 0.4902)
5	E	12.25 – 12.35 (0.4823 – 0.4862)

- (d) After selecting the stoppers, check that on both sides the pawl and ratchet are fully engaged.

11. INSTALL TWO TILT PAWL STOPPERS

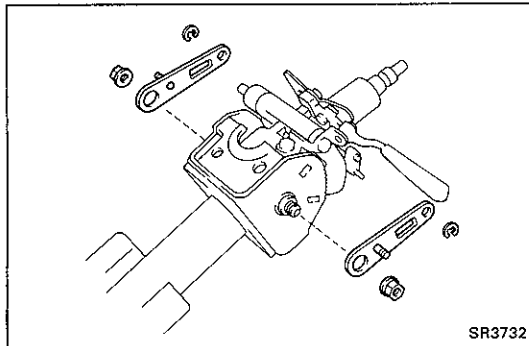


12. INSTALL TWO TILT LEVER RETAINERS

- (a) Install the two tilt lever retainers and torque the nut.

Torque: 50 kg-cm (43 in.-lb, 4.9 N-m)

- (b) Install E-rings.

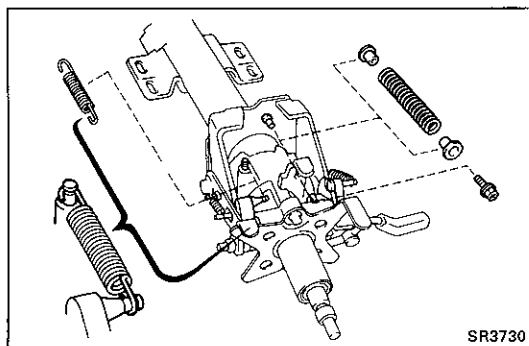


13. INSTALL COMPRESSION SPRING AND TENSION SPRING

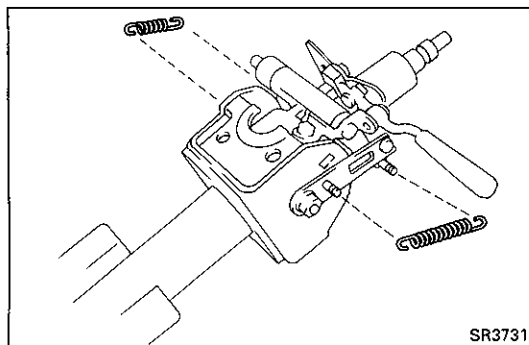
- (a) Install the bushings to the compression spring.
 (b) Install the spring and bolt.

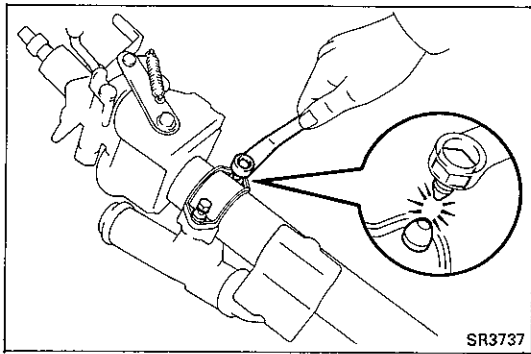
Torque: 80 kg-cm (69 in.-lb, 7.8 N-m)

- (c) Install the tension spring.



14. INSTALL TWO TENSION SPRINGS



**15. INSTALL UPPER COLUMN BRACKET**

- (a) Install the upper column bracket with the two tapered-head bolts.
- (b) Tighten the tapered-head bolt until the bolt head breaks off.

16. CHECK OPERATION OF TILT STEERING LEVER AND SUPPORT

- (a) Check that there is no axial play at the end of the main shaft.
- (b) With the main shaft in the neutral position, pull the tilt lever and check that the main shaft rises to the uppermost position.
- (c) Lower the main shaft, and check that it locks in the lowermost position.