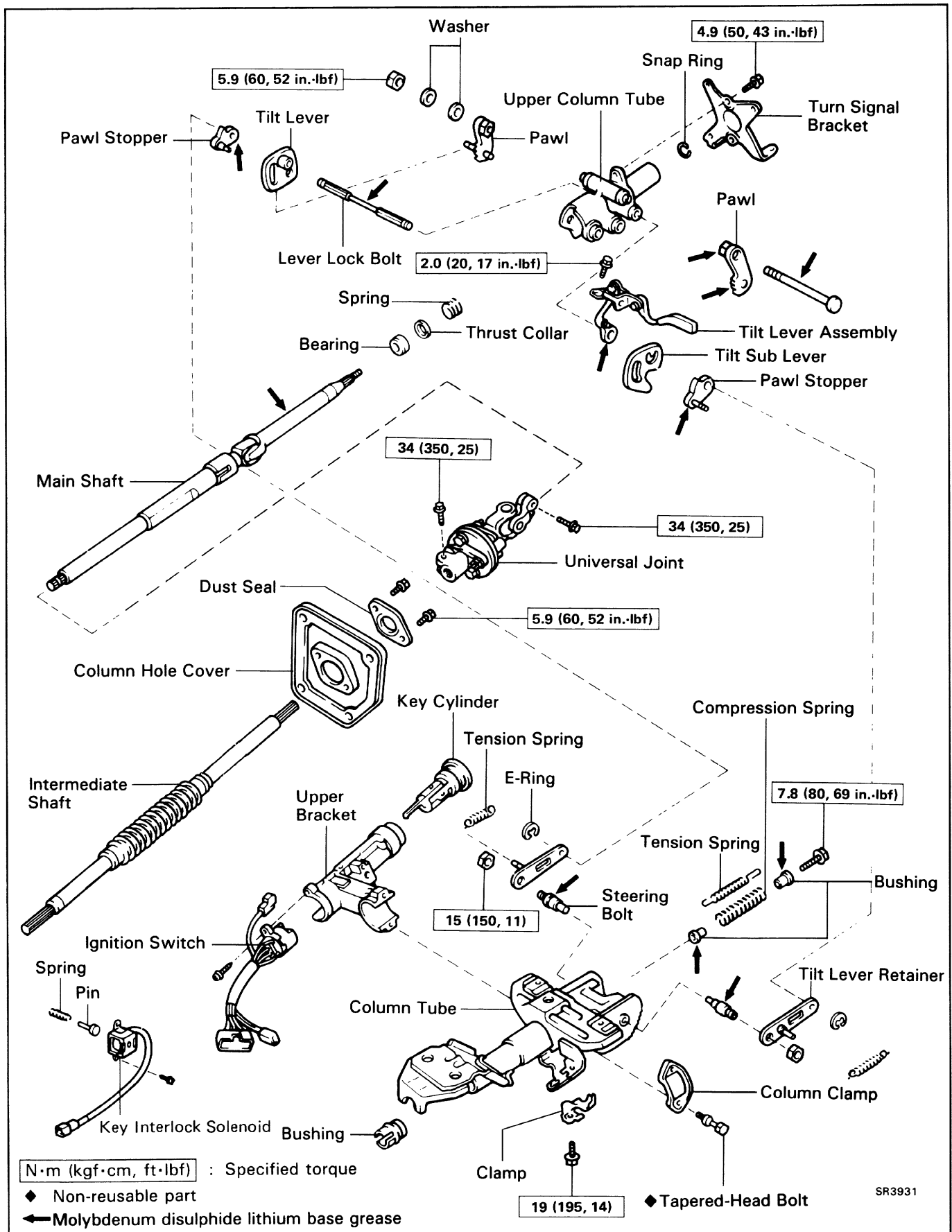


Tilt Steering Column COMPONENTS

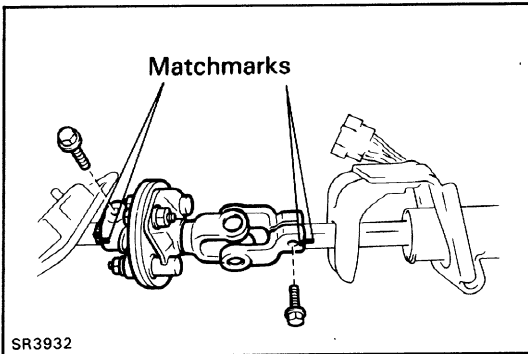


DISASSEMBLY OF STEERING COLUMN

(See page [SR-6](#))

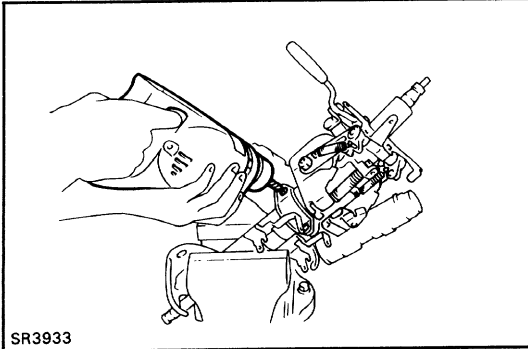
1. DISCONNECT UNIVERSAL JOINT

Place matchmarks on the universal joint and the shaft, then remove the bolt and the universal joint.



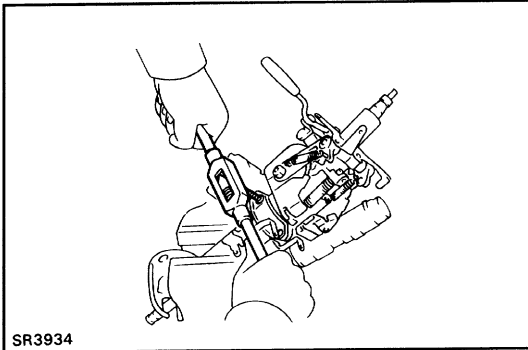
2. REMOVE COLUMN HOLE COVER

- Place matchmarks on the flexible coupling and the shaft, then remove the bolt and the shaft.
- Remove two bolts and the dust seal.
- Remove the column hole cover.



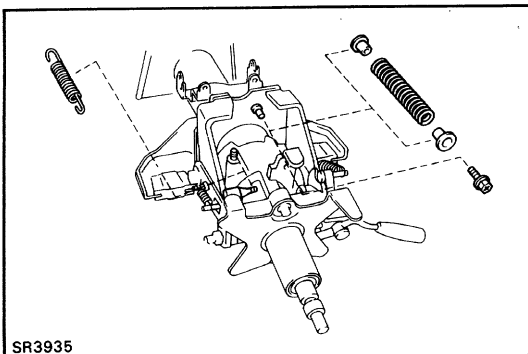
3. REMOVE UPPER BRACKET

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

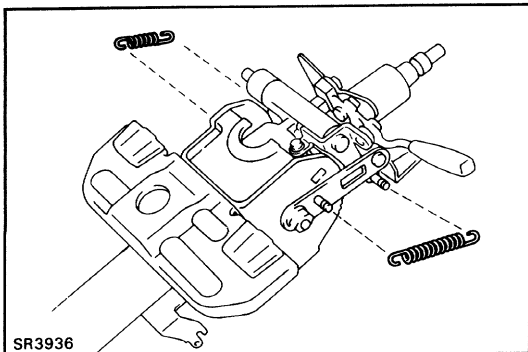


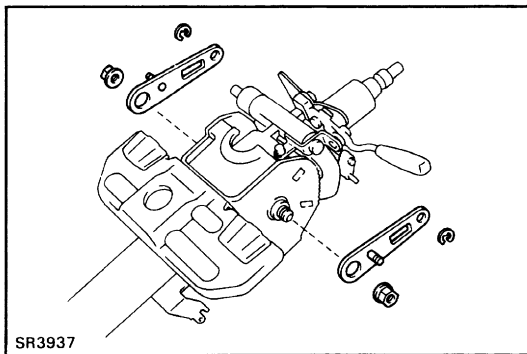
4. REMOVE COMPRESSION SPRING AND TENSION SPRING

- Remove the wire harness clamp.
- Remove the bolt with the compression spring.
- Remove the bushings from the spring.
- Remove the tension spring.



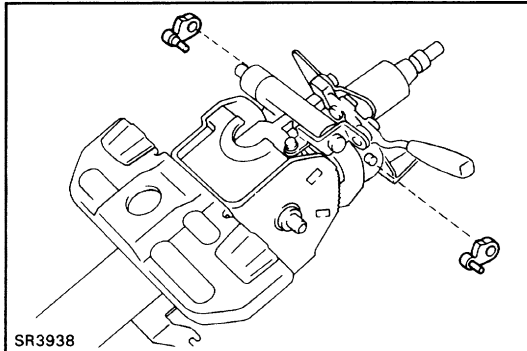
5. REMOVE TWO TENSION SPRINGS



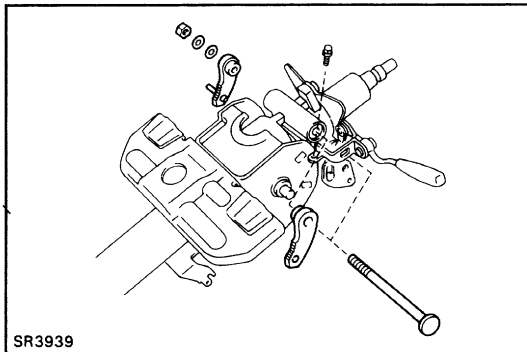


6. REMOVE TWO TILT LEVER RETAINERS

- Remove the E-rings from the retainers.
- Remove the retainers with the nuts.

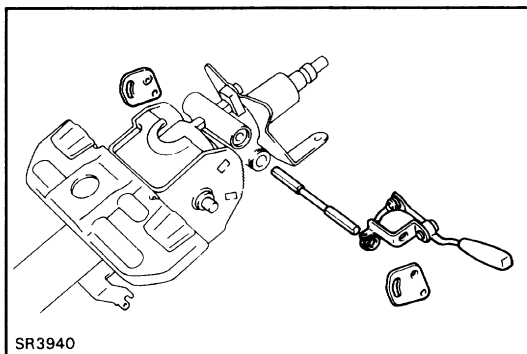


7. REMOVE TWO PAWL STOPPERS



8. REMOVE TWO TILT PAWLS

- Remove the nut and bolt.
- Remove the bolt from the tilt lever assembly.
- Remove the two pawls with the collars.



9. REMOVE TILT LEVER ASSEMBLY, TILT LEVER, TILT SUB LEVER AND LEVER LOCK BOLT

10. REMOVE COLUMN TUBE

- 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)

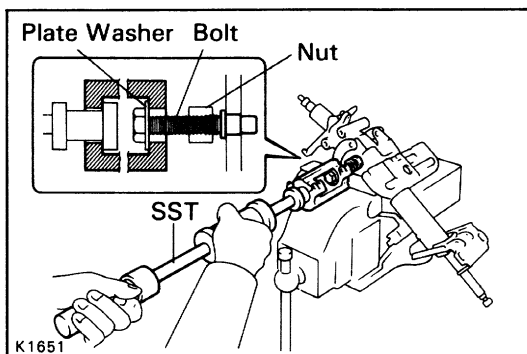
(Reference) Nut 90170-10004

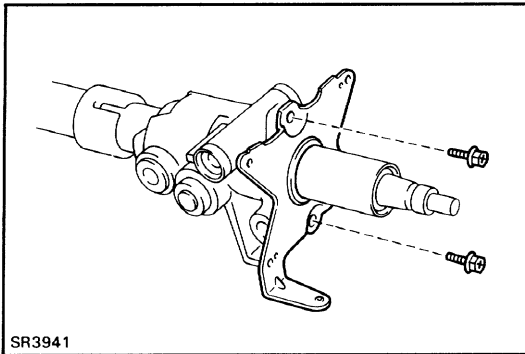
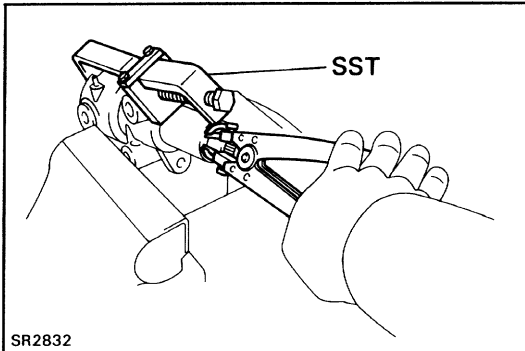
Plate washer 90201-10201

Bolt 91111-51050

- Remove the column tube from the upper column tube.

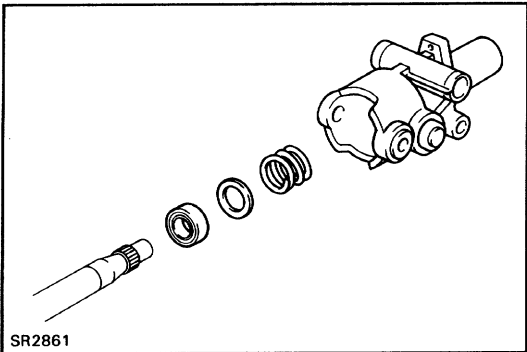
- Remove the stopper.



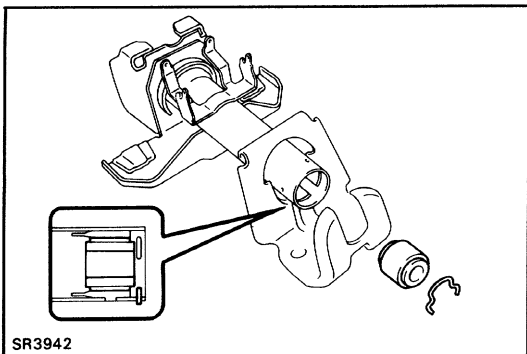
**11. REMOVE TURN SIGNAL BRACKET****12. REMOVE MAIN SHAFT**

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

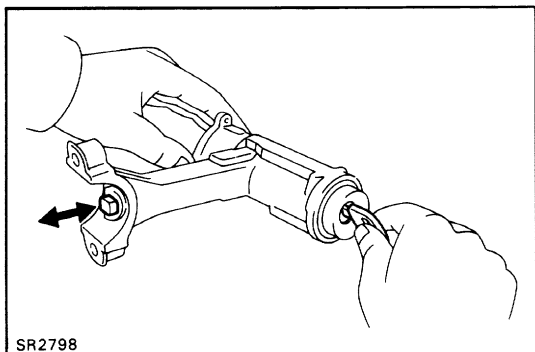
SST 09950-20017



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

**13. REMOVE MAIN SHAFT COLLAR**

- (a) Remove the snap ring from the lower column tube.
(b) Remove the main shaft collar.

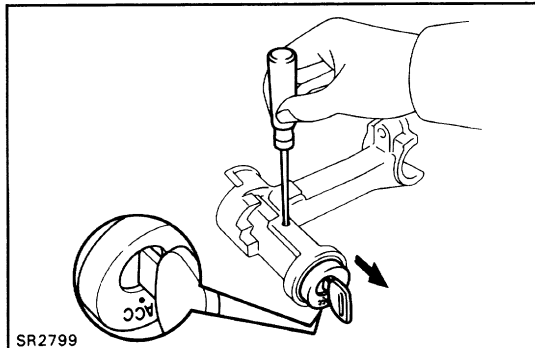


SR2798

INSPECTION AND REPLACEMENT OF STEERING COLUMN

1. INSPECT KEY CYLINDER

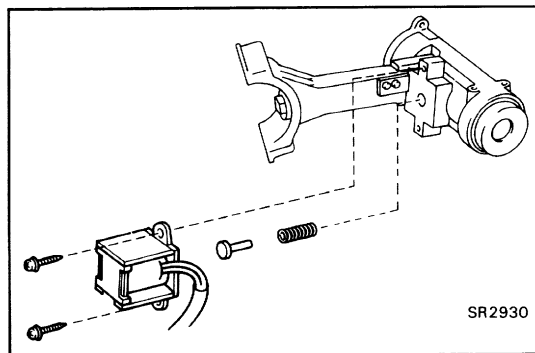
Check that the steering lock mechanism operates properly.



SR2799

2. IF NECESSARY, REPLACE KEY CYLINDER

- Place the ignition key at the ACC position.
- Push down the stop key with a thin rod, and pull out the key cylinder.
- Make sure that the ignition key is at the ACC position.
- Install a new key cylinder.



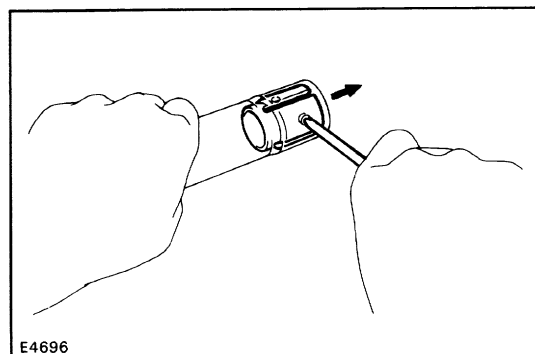
SR2930

3. INSPECT KEY INTERLOCK SOLENOID

(See page AT-157)

4. IF NECESSARY, REPLACE KEY INTERLOCK SOLENOID

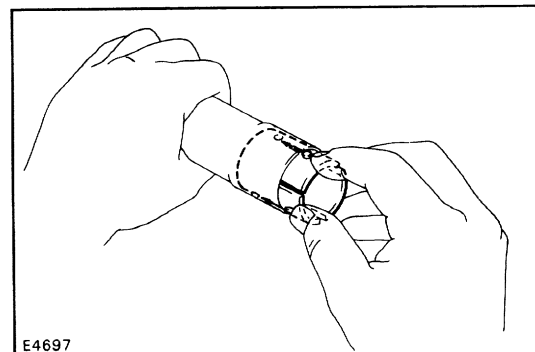
- Remove the two screws.
- Remove the solenoid, spring and lock pin.
- Install the solenoid with the spring and lock pin, and install the two screws.



E4696

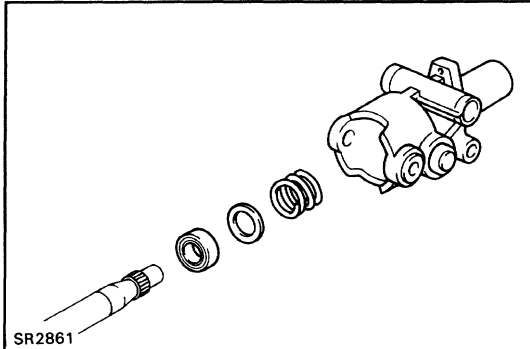
5. IF NECESSARY, REPLACE MAIN SHAFT BUSHING

- Using a screwdriver, remove the bushing.

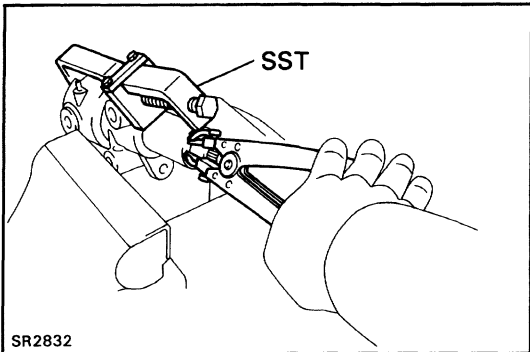


E4697

- Align the holes of the tube and the projections of a new bushing, and install the bushing in the column tube.

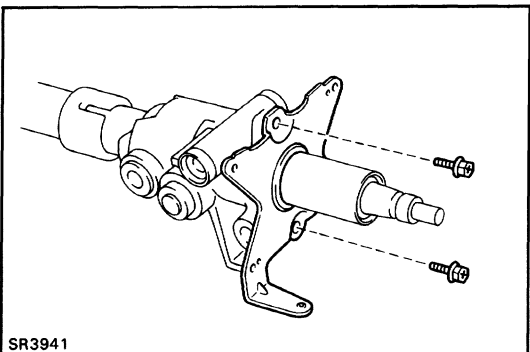
ASSEMBLY OF TILT STEERING COLUMN(See page [SR-6](#))**1. COAT MOLYBDENUM DISULPHID LITHIUM BASE GREASE ON FOLLOWING PARTS (SEE PAGE [SR-6](#))****2. INSTALL MAIN SHAFT**

(a) Install the main shaft with the bearing, collar and spring.



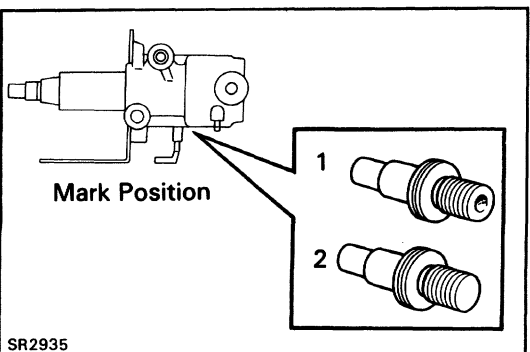
(b) Using SST to hold the main shaft, install the snap ring with a snap ring pliers.

SST 09950-20017

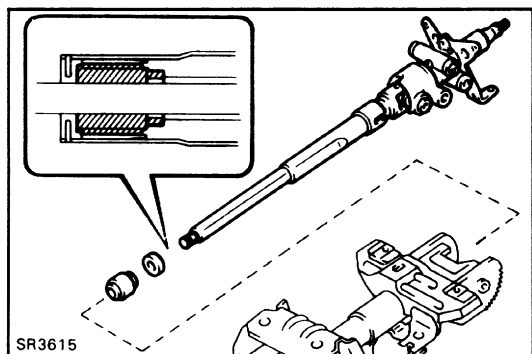
**3. INSTALL TURN SIGNAL BRACKET**

Install the two bolts.

Torque: 4.9 N-m (50 kgf-cm, 43 in.-lbf)

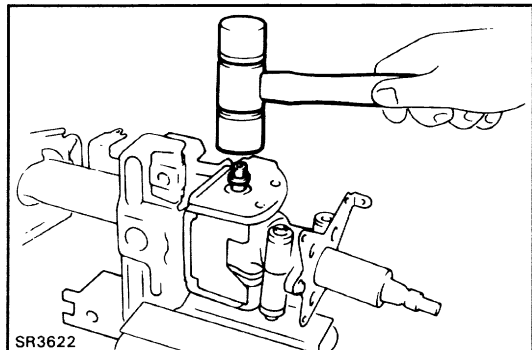
**4. SELECT STEERING BOLT AND UPPER COLUMN TUBE**

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.

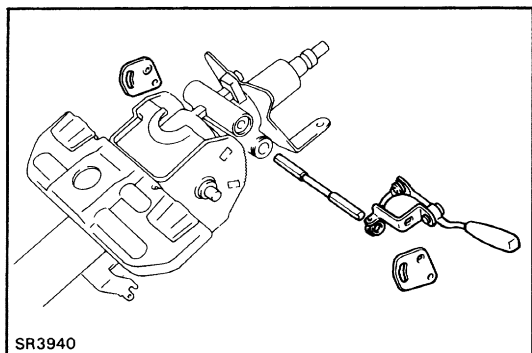


5. INSTALL MAIN SHAFT WITH COLUMN TUBE

- Install the stopper and main shaft collar to the main shaft as shown.
- Install the main shaft to the column tube.

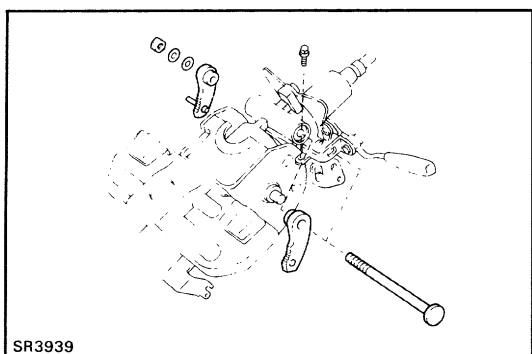


- Using a plastic hammer, drive in the steering bolts.



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

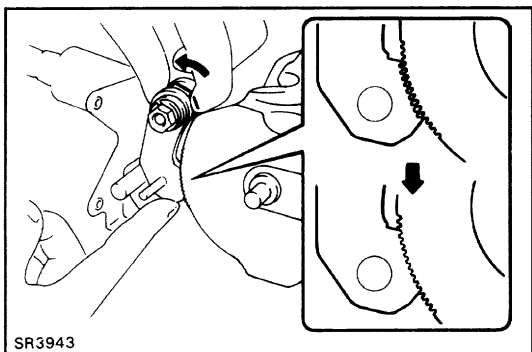
- Install the tilt lever lock bolt to the upper column tube.
- Install the tilt lever assembly.
- Install the tilt lever and the tilt sub lever.



7. INSTALL TWO TILT PAWLS

- Temporarily install the tilt pawls.
- Install the bolt.

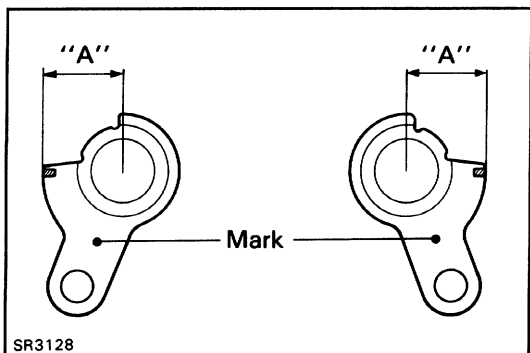
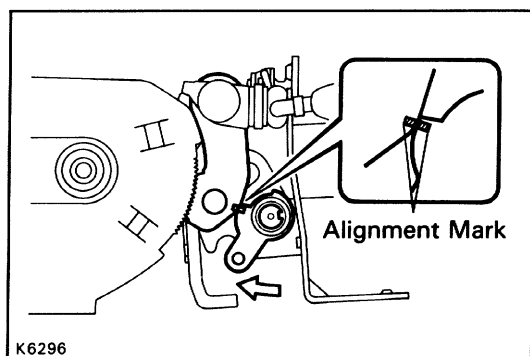
Torque: 2.0 N-m (20 kgf-cm, 17 in.-lbf)



8. ENGAGE AND ADJUST TILT PAWL

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

Torque: 5.9 N-m (60 kgf-cm, 52 in.-lbf)

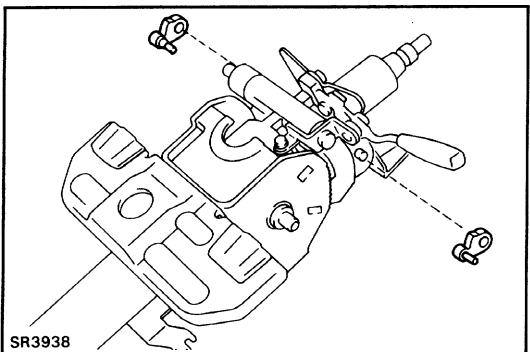


9. SELECT PAWL STOPPERS

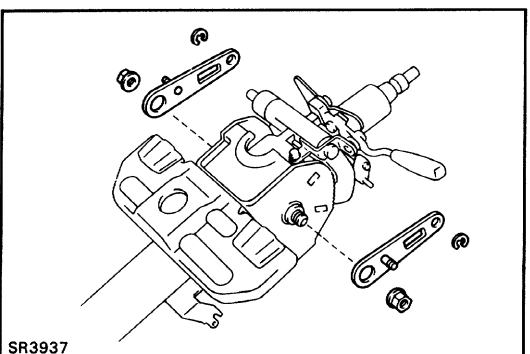
- With the tilt pawl and ratchet engaged, install two pawl stoppers.
- Check that the alignment marks on the stopper and pawl align when the stopper is rotated to the pawl side.
- If the alignment marks do not align, select pawl stoppers according to the following table.

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)

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



10. INSTALL TWO TILT PAWL STOPPERS

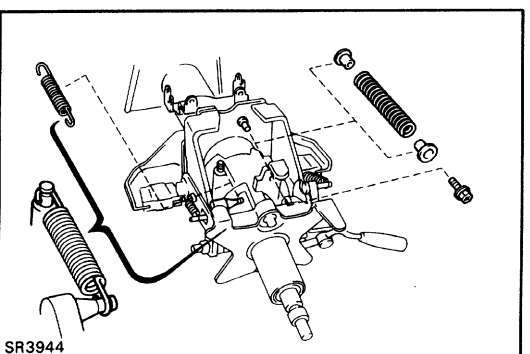


11. INSTALL TWO TILT LEVER RETAINERS

- Install the two tilt lever retainers and torque the nuts.

Torque: 15 N-m (150 kgf-cm, 11 ft-lbf)

- Install the E-rings.

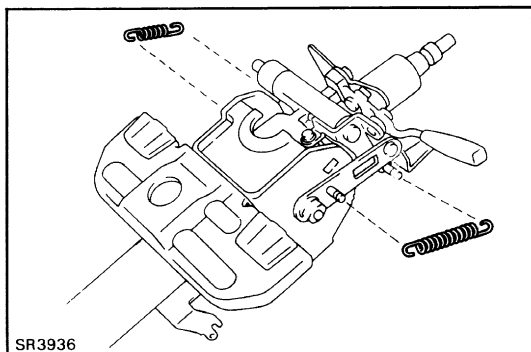


12. INSTALL COMPRESSION SPRING AND TENSION SPRING

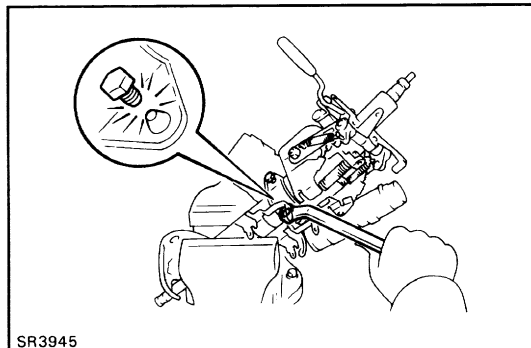
- Install the bushings to the compression spring.
- Install the spring and bolt.

Torque: 7.8 N-m (80 kgf-cm, 69 in.-lbf)

- Install the tension spring.
- Install the wire harness clamp.

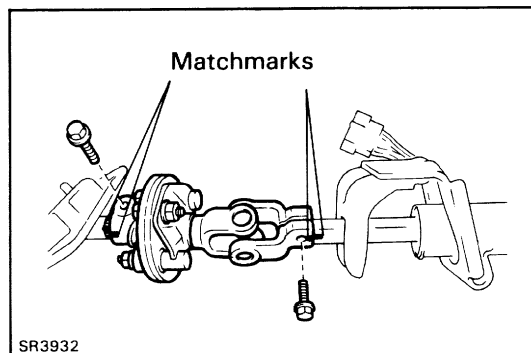


13. INSTALL TWO TENSION SPRINGS



14. INSTALL UPPER BRACKET

- (a) Install the upper bracket with two new tapered-head bolts.
- (b) Tighten the tapered-head bolts until the bolt heads break off.



15. INSTALL COLUMN HOLE COVER

- (a) Install the column hole cover.
- (b) Install two bolts and the dust seal.
Torque: 5.9 N-m (60 kgf-cm, 52 in.-lbf)
- (c) Align the matchmarks on the shaft and flexible coupling, then torque the bolt.
Torque: 34 N-m (350 kgf-cm, 25 ft-lbf)

16. CONNECT UNIVERSAL JOINT

Align the matchmarks on the universal joint and the shaft, then torque the bolt.

Torque: 34 N-m (350 kgf-cm, 25 ft-lbf)

17. 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, raise 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.