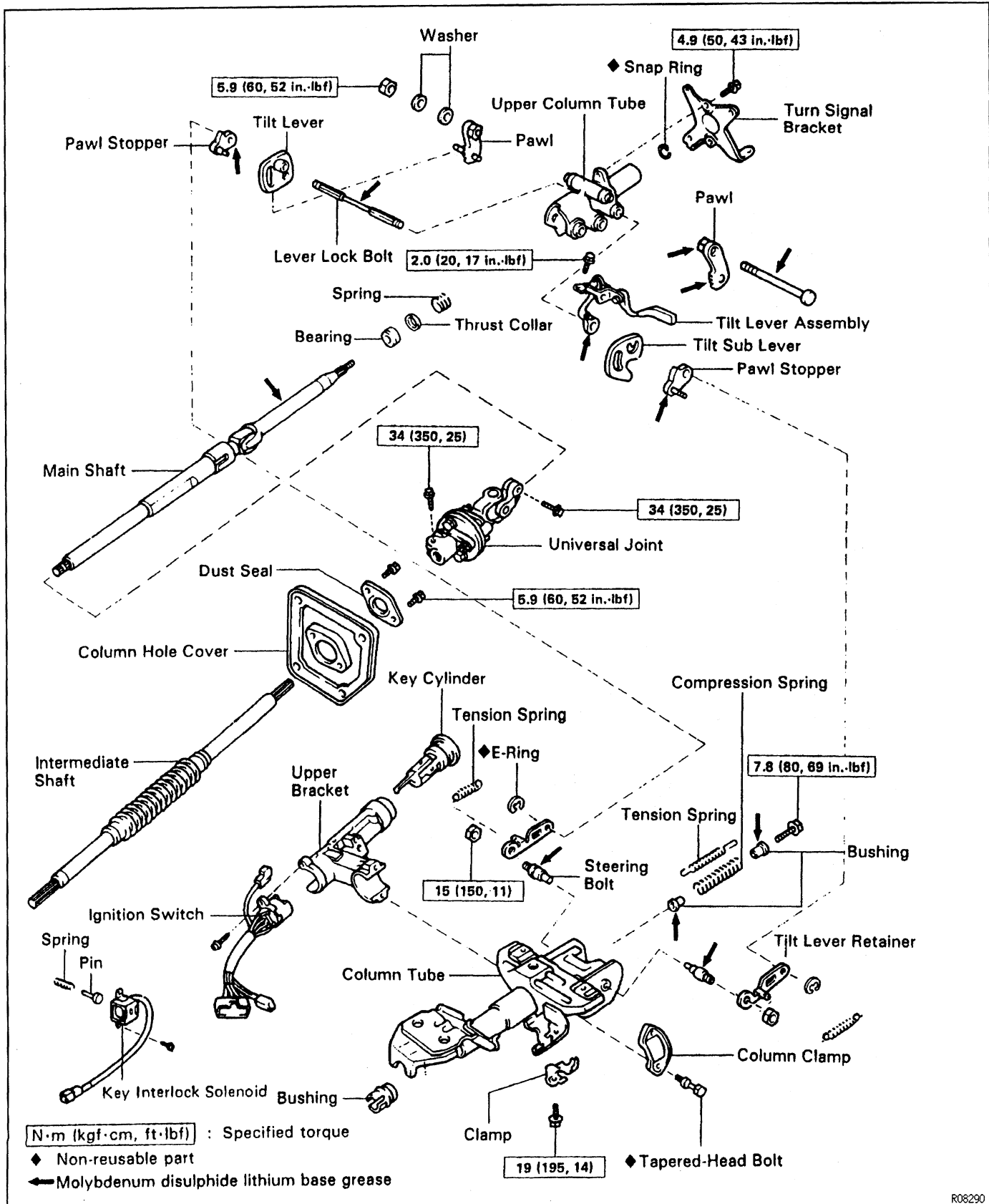
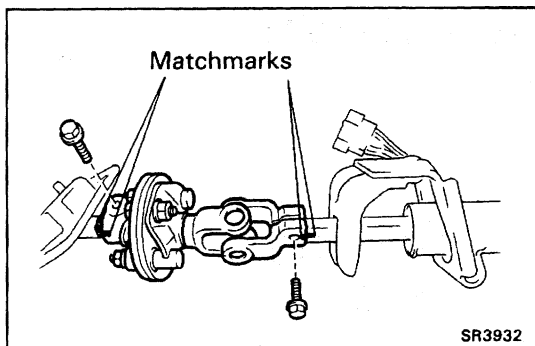


TILT STEERING COLUMN COMPONENTS

SR004-02





STEERING COLUMN DISASSEMBLY

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

(a) Place matchmarks on the flexible coupling and the shaft, then remove the bolt and the shaft.

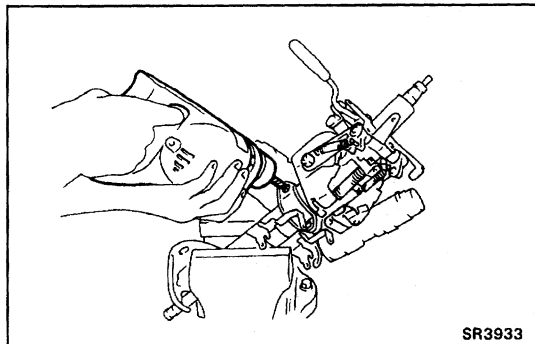
(b) Remove 2 bolts and the dust seal.

(c) Remove the column hole cover.

3. REMOVE UPPER BRACKET

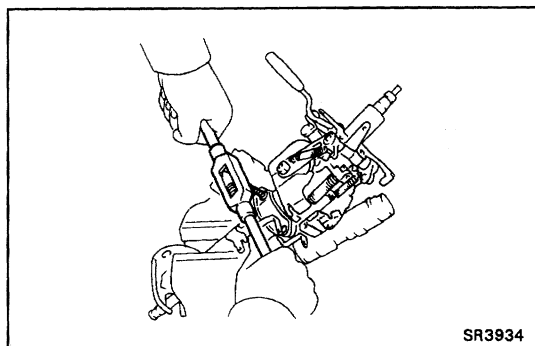
(a) Using a centering punch, mark the center of the 2 tapered-head bolts.

(b) Using a 3 - 4 mm (0.12 - 0.16 in.) drill, drill into the 2 tapered-head bolts.



(c) Using a screw extractor, remove the 2 tapered-head bolts.

(d) Remove the bracket and column clamp.



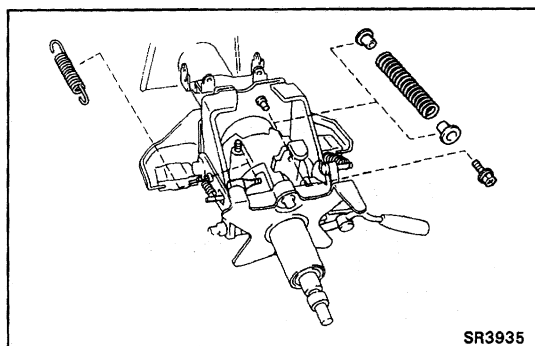
4. REMOVE COMPRESSION SPRING AND TENSION SPRING

(a) Remove the wiring harness clamp.

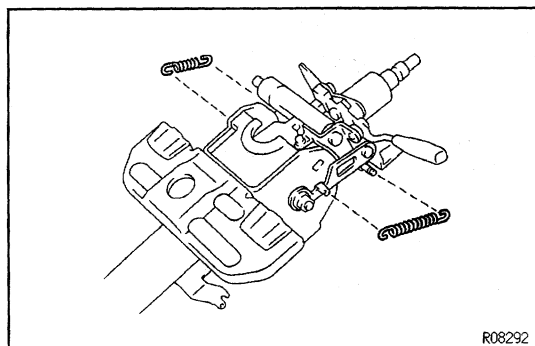
(b) Remove the bolt with the compression spring.

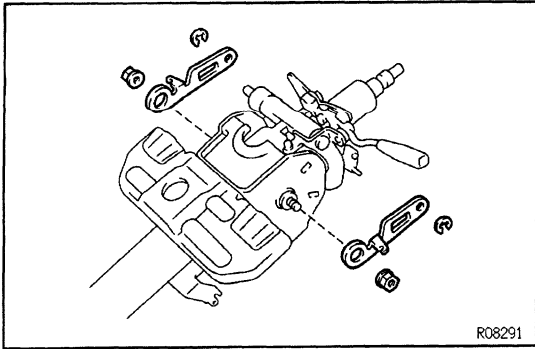
(c) Remove the bushings from the spring.

(d) Remove the tension spring.



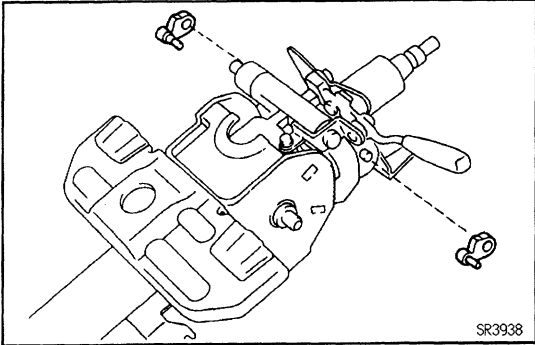
5. REMOVE 2 TENSION SPRINGS



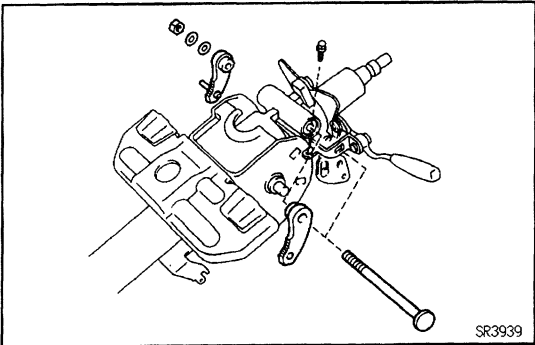


6. REMOVE 2 TILT LEVER RETAINERS

- Remove the E-ring from the retainer.
- Remove the retainer with the nut.

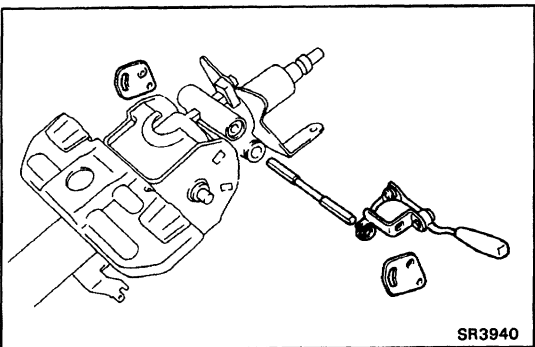


7. REMOVE 2 PAWL STOPPERS

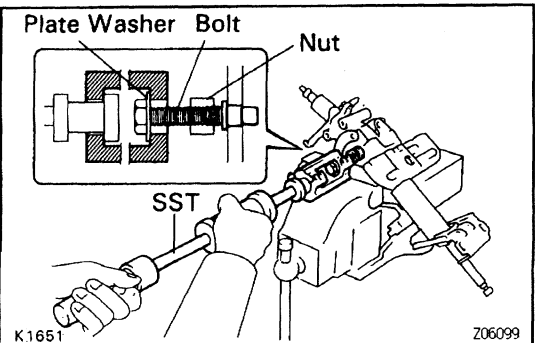


8. REMOVE 2 TILT PAWLS

- Remove the nut and bolt.
- Remove the bolt from the tilt lever assembly.
- Remove the pawl with the collar.



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 2 steering bolts.

SST 09910-00015 (09911 -0001 1, 09912-00010)

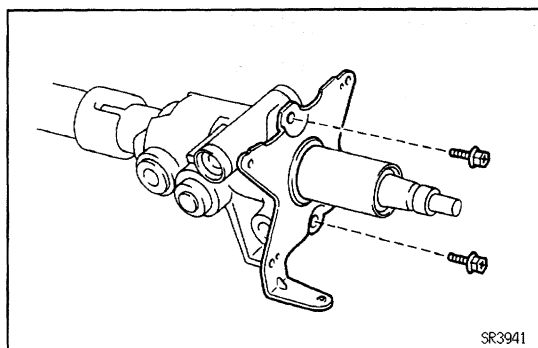
(Reference)

Nut 90170-10004

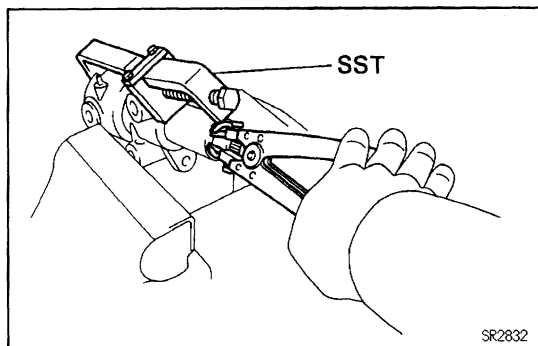
Plate washer 90201-10201

Bolt 91111-51050

- Remove the column tube from the upper column tube.



11. REMOVE TURN SIGNAL BRACKET



12. REMOVE MAIN SHAFT

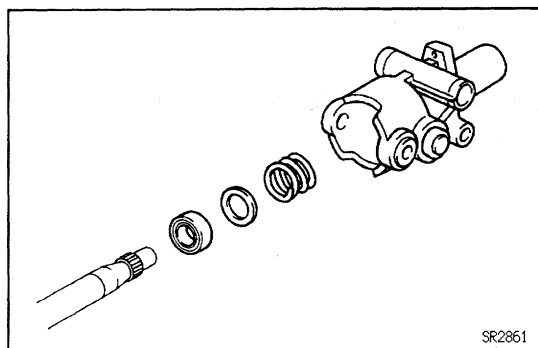
(a) Secure the upper column tube in a vise.

NOTICE: Do not tighten the vise too tight.

(b) Using SST, compress the spring.

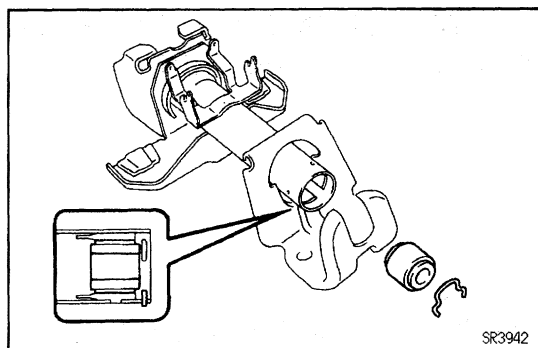
SST 09950-20017 (09956-00010)

(c) Using snap ring pliers, remove the snap ring.



(d) Remove the main shaft from the upper column tube.

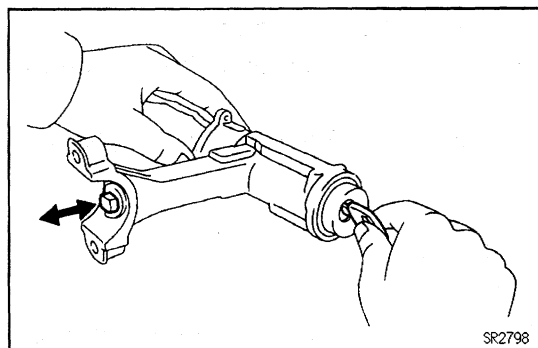
(e) Remove the spring, thrust collar and bearing.



13. REMOVE MAIN SHAFT COLLAR

(a) Remove the snap ring from the lower column tube.

(b) Remove the main shaft collar.

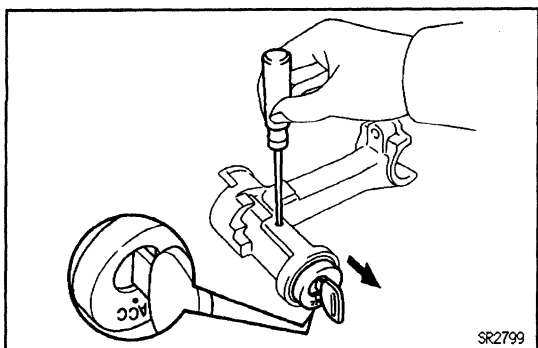


STEERING COLUMN INSPECTION AND REPLACEMENT

SR006-02

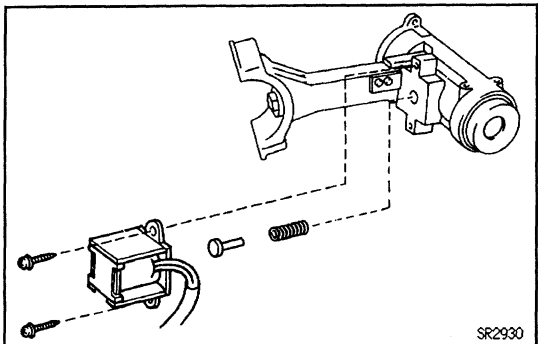
1. INSPECT KEY CYLINDER

Check that the steering lock mechanism operates properly.



2. IF NECESSARY, REPLACE KEY CYLINDER

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

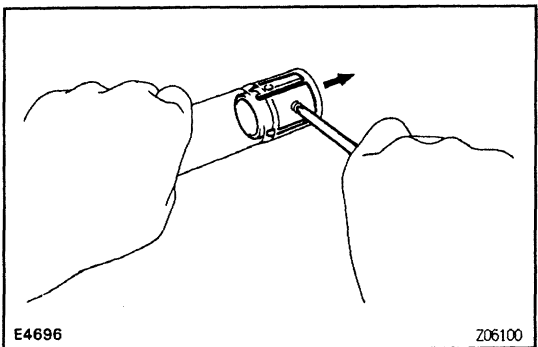


3. INSPECT KEY INTERLOCK SOLENOID

(See page [AT-79](#))

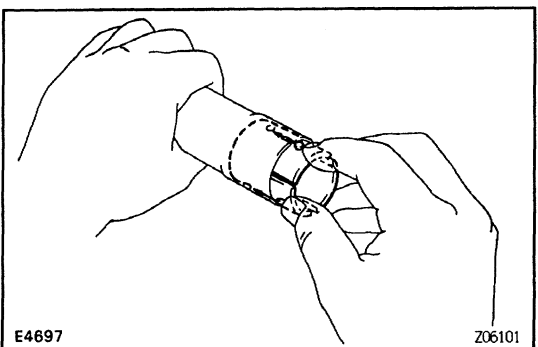
4. IF NECESSARY, REPLACE KEY INTERLOCK SOLENOID

- (a) Remove the 2 screws.
- (b) Remove the solenoid, spring and lock pin.
- (c) Install a new solenoid with the spring and lock pin, and install the 2 screws.



5. IF NECESSARY, REPLACE MAIN SHAFT BUSHING

- (a) Using a screwdriver, remove the bushing.

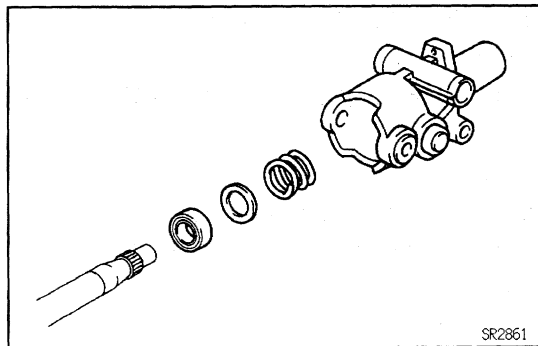


- (b) Align the holes of the tube and the projections of a new bushing, and install the bushing in the column tube.

TILT STEERING COLUMN ASSEMBLY ^{SR007-02}

1. APPLY MOLYBDENUM DISULPHIDE LITHIUM BASE GREASE ON FOLLOWING PARTS

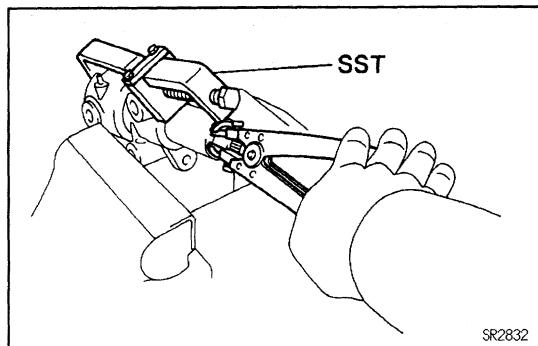
(See page [SR-7](#))



2. INSTALL MAIN SHAFT

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

NOTICE: Do not bend the universal joint of the main shaft more than 20° .



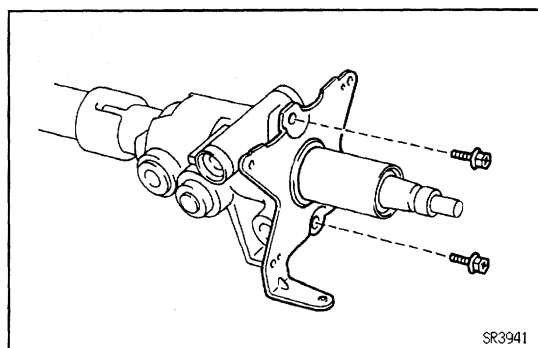
(b) Secure the upper column tube in a vise.

NOTICE: Do not tighten the vise too tight.

(c) Using SST, compress the spring.

SST 09950-20017 (09956-00010)

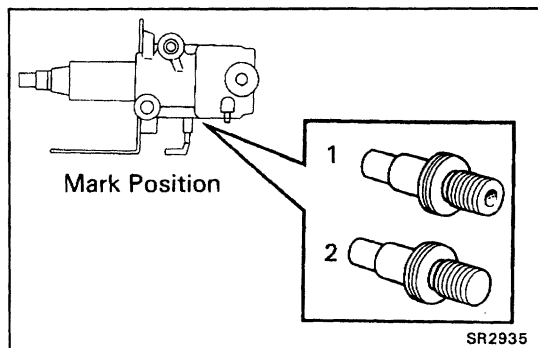
(d) Using snap ring pliers, install a new snap ring.



3. INSTALL TURN SIGNAL BRACKET

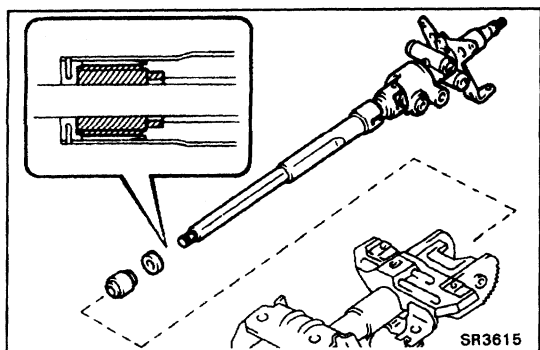
Install the 2 bolts.

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



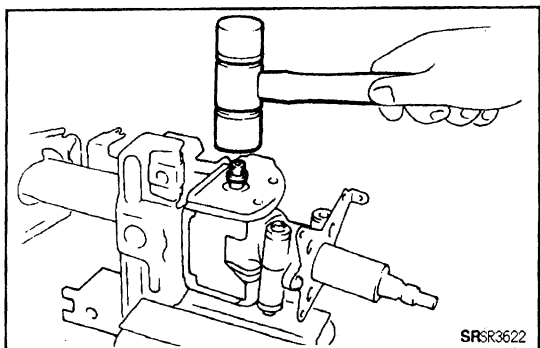
4. SELECT STEERING BOLT AND UPPER COLUMN TUBE

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.

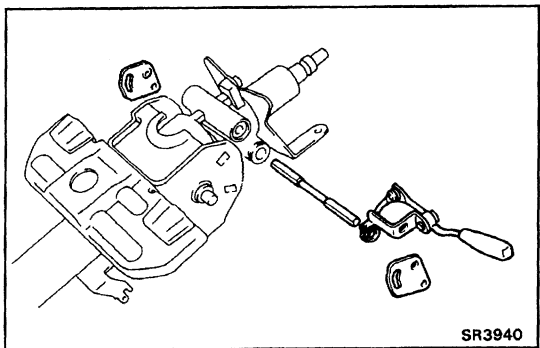


5. INSTALL MAIN SHAFT WITH COLUMN TUBE

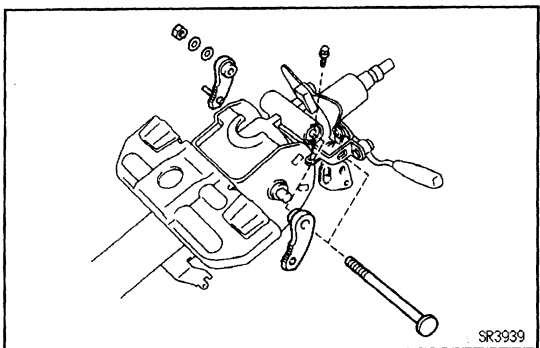
- (a) Install the stopper and main shaft collar to the main shaft, as shown.
- (b) Install the main shaft to the column tube.



- (c) Using a plastic hammer, drive in the 2 steering bolts.

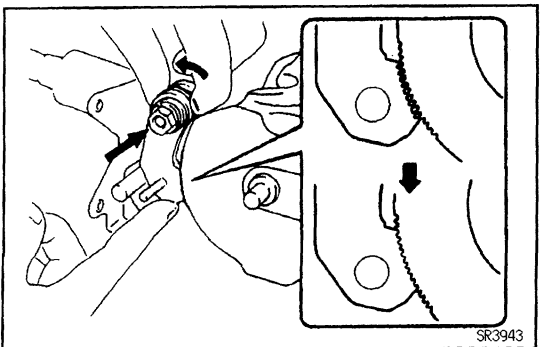


6. INSTALL TILT LEVER LOCK BOLT, TILT LEVER ASSEMBLY, TILT LEVER AND TILT SUB LEVER



7. INSTALL 2 TILT PAWLS

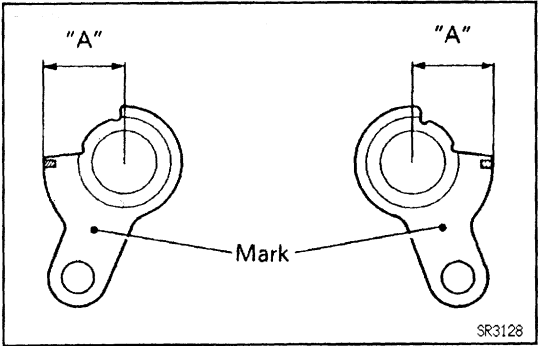
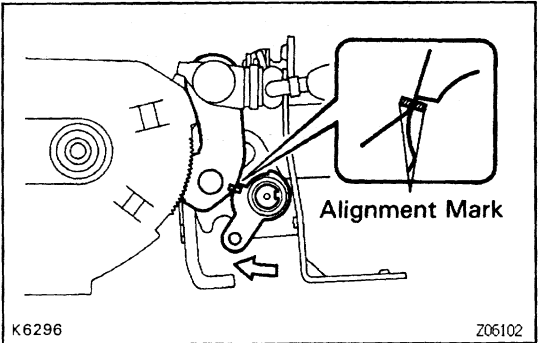
- (a) Temporarily install the tilt pawl.
 - (b) Install the bolt, 2 collars and nut.
- Torque: 2.0 N-m (20 kgf-cm, 17 in.-lbf)**



8. 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: 5.9 N-m (60 kgf-cm, 52 in.-lbf)

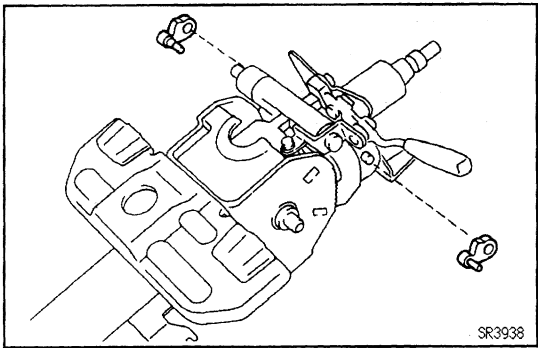


9. SELECT 2 PAWL STOPPERS

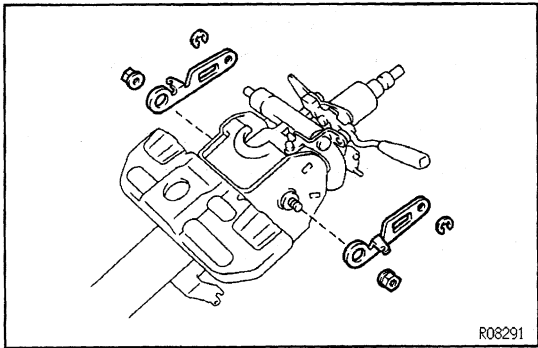
- (a) With the tilt pawl and ratchet engaged, install the 2 pawl stoppers.
- (b) Check that the alignment marks on the stopper and pawl align when the stopper is rotated to the pawl side.
- (c) If the alignment marks do not align, select pawl stoppers according to the following table.

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 – 0.4882)

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

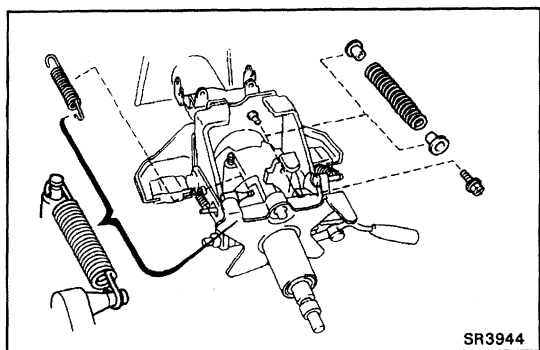


10. INSTALL 2 TILT PAWL STOPPERS



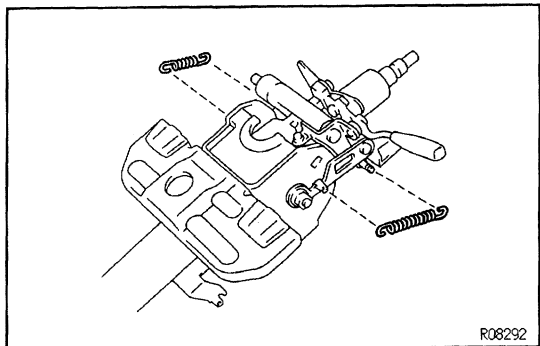
11. INSTALL 2 TILT LEVER RETAINERS

- (a) Install the retainer and torque the nut.
Torque: 15 N-m (150 kgf-cm, 11 ft-lbf)
- (b) Install a new E-ring.

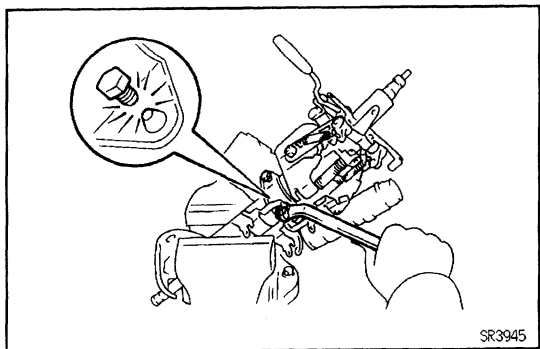


12. INSTALL COMPRESSION SPRING AND TENSION SPRING

- 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 wiring harness clamp.

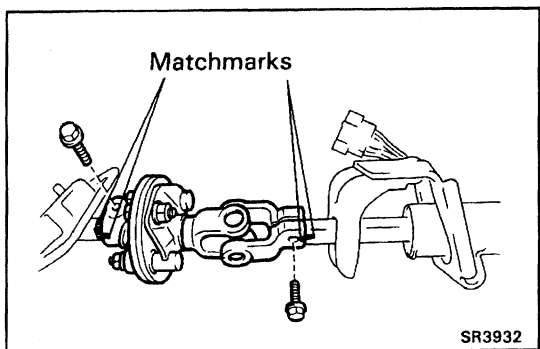


13. INSTALL 2 TENSION SPRINGS



14. INSTALL UPPER BRACKET

- Install the upper bracket with 2 new tapered-head bolts.
- Tighten the 2 tapered-head bolts until the bolt heads break off.



15. INSTALL COLUMN HOLE COVER

- Install the column hole cover.
- Install 2 bolts and the dust seal.
Torque: 5.9 N-m (60 kgf-cm, 52 in.-lbf)
- 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, and torque the bolt.

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

17. CHECK OPERATION OF TILT STEERING LEVER AND SUPPORT

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