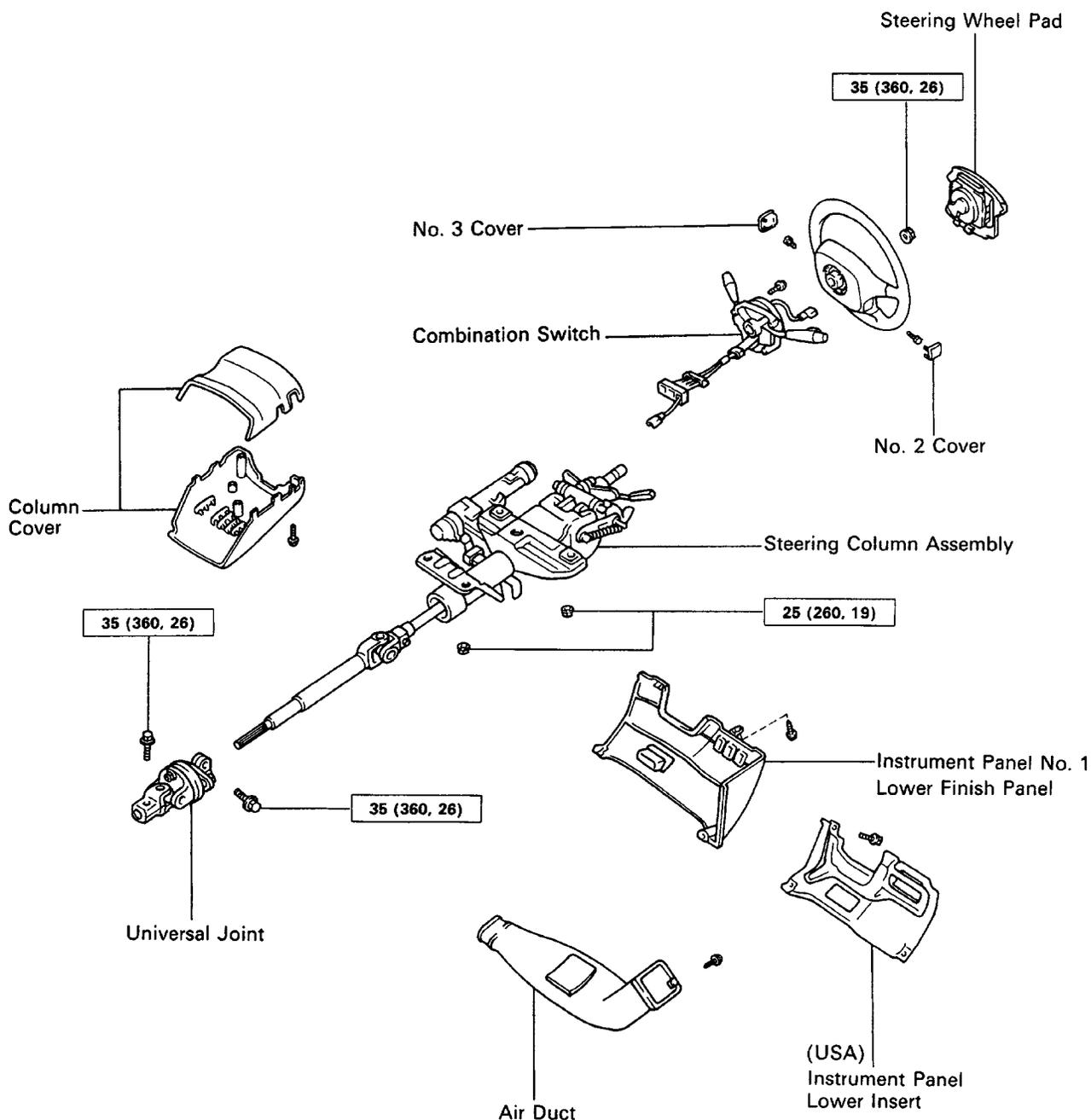


# ASSEMBLY REMOVAL AND INSTALLATION

SR06Y-01

Remove and install the parts as shown.

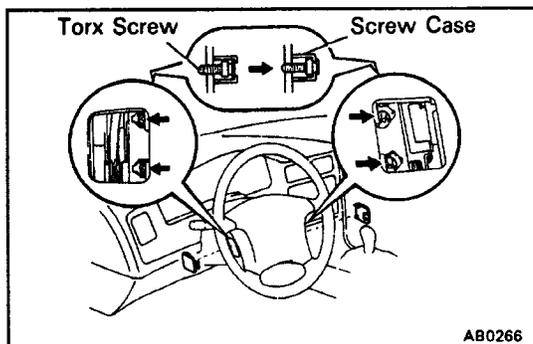


N·m (kgf·cm, ft·lbf) : Specified torque

## (MAIN POINTS OF REMOVAL AND INSTALLATION)

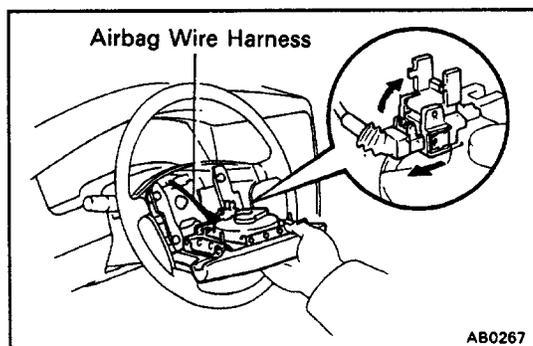
**CAUTION:** Work must be started after approx. 30 seconds or longer from the time the ignition switch is turned to the LOCK position and the negative (-) terminal cable is disconnected from the battery (See page AB-2).

**NOTICE:** If the wiring connector of the airbag system is disconnected with the ignition switch at ON or ACC, diagnostic codes will be recorded.



### 1. REMOVE STEERING WHEEL PAD

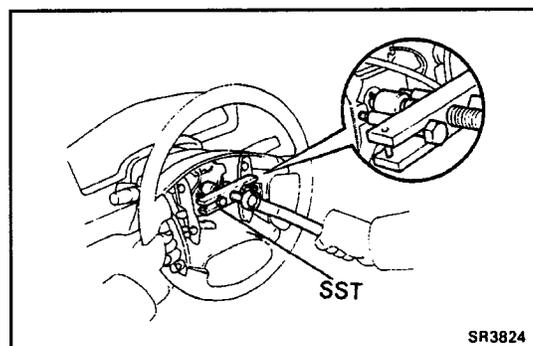
- Remove negative terminal (-) from the battery.
- Place the front wheels facing straight ahead.
- Using a torx wrench, loosen the four screws.  
Torx wrench: T30 (Part No. 09042-00010 or locally manufactured tool)
- Loosen the torx screws until the groove along the screw circumference catches on the screw case.



- Pull the wheel pad out from the steering wheel and disconnect the airbag connector.

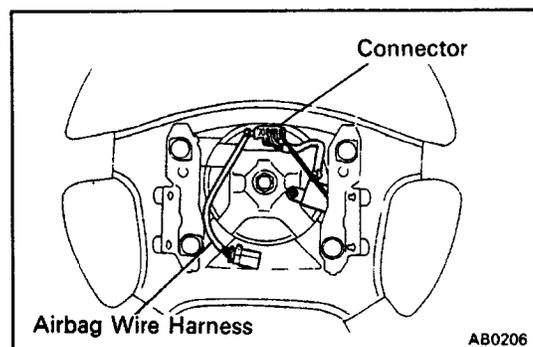
**NOTICE:** When removing the wheel pad, take care not to pull the airbag wire harness.

**CAUTION:** When storing the wheel pad, keep the upper surface of the pad facing upward.



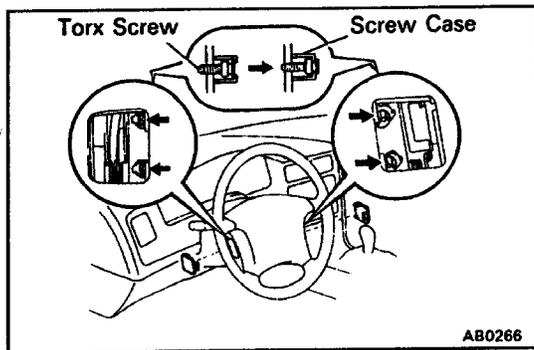
### 2. REMOVE STEERING WHEEL

- Disconnect the connector.
- Remove the set nut.
- Using SST, remove the steering wheel.  
SST 09213-31021



### 3. INSTALL STEERING WHEEL AND WHEEL PAD

- Check that the front wheels are facing straight ahead.
- Center the spiral cable.  
(See page AB-17)
- Install the steering wheel and torque the set nut.  
**Torque: 35 N-m (360 kgf-cm, 26 ft-lbf)**
- Connect the connector.



(e) Install the wheel pad after confirming that the circumference groove of the torx screws is caught on the screw case.

(f) Using a torx wrench, tighten the four screws.

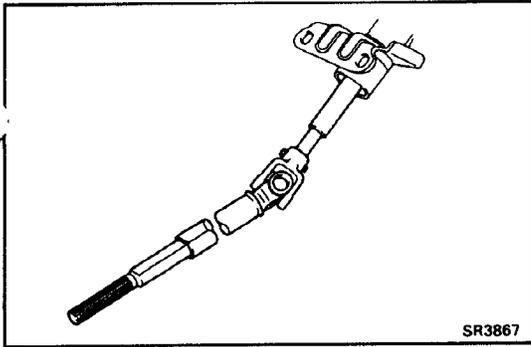
**Torque: 7.4 N-m (7.5 kgf-cm, 65 in.-lbf)**

**NOTICE:**

- Make sure the wheel pad is installed to the specified torque.
- If the wheel pad has been dropped, or there are cracks, dents or other defects in the case or connector, replace the wheel pad with a new one.
- When installing the wheel pad, take care that the wirings do not interfere with other parts and are not pinched between other parts.

**4. CHECK STEERING WHEEL CENTER POINT AFTER INSTALLING STEERING COLUMN**

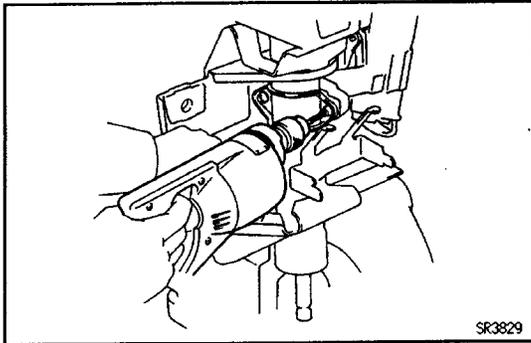




## STEERING COLUMN DISASSEMBLY

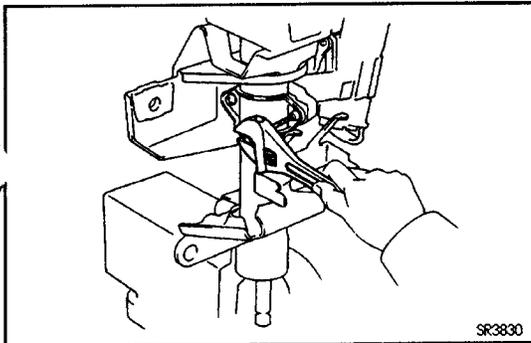
SR070-01

1. REMOVE IGNITION KEY CYLINDER ILLUMINATION
2. REMOVE INTERMEDIATE SHAFT
3. REMOVE WIRING HARNESS CLAMP
4. (USA)  
REMOVE PROTECTOR

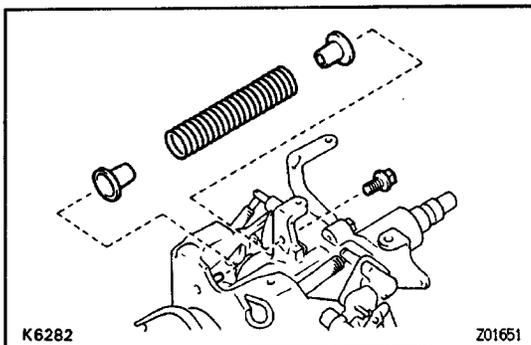


### 5. REMOVE UPPER BRACKET

- (a) Using a centering punch, mark the center of the tapered-head bolts.
- (b) Using a 3-4 mm (0.12-0.16 in.) drill, drill into the tapered-head bolts.

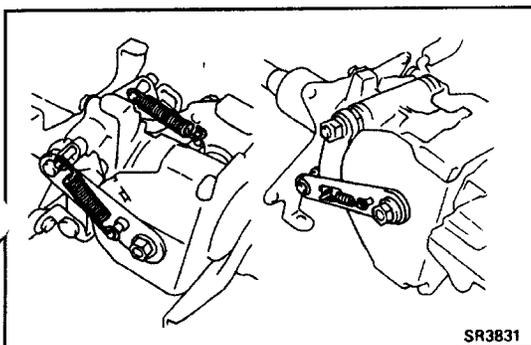


- (c) Using a screw extractor, remove the tapered-head bolts.
- (d) Remove the two bolts, and separate the upper bracket and the column tube.

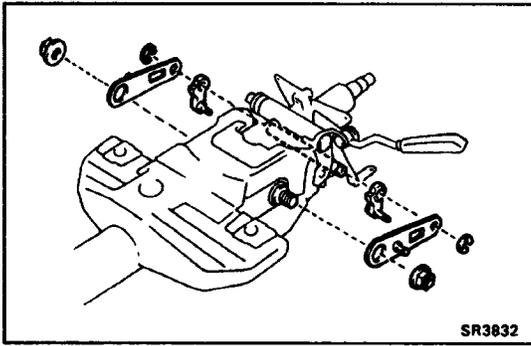


### 6. REMOVE COMPRESSION SPRING

- (a) Remove the bolt and spring.
- (b) Remove the two bushings from the spring.

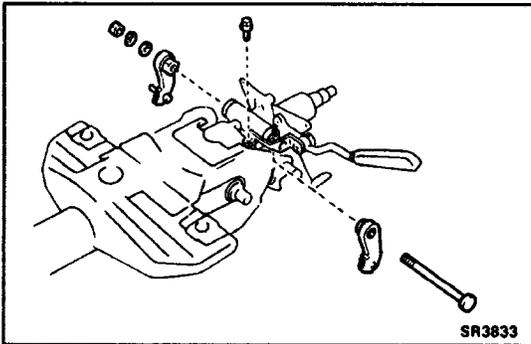


### 7. REMOVE THREE TENSION SPRINGS



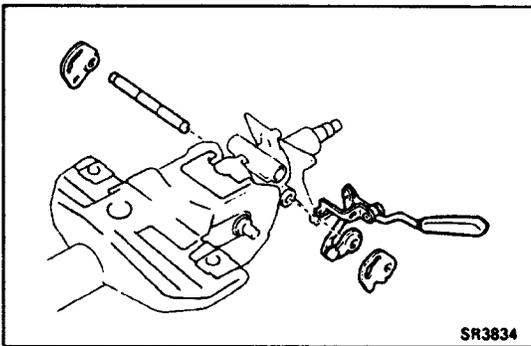
### 8. REMOVE TILT LEVER RETAINERS AND PAWL STOPPERS

- Remove the two E-rings from the tilt lever lock shaft.
- Remove the two nuts from the tilt steering bolts.
- Remove the two tilt lever retainers and two pawl stoppers.



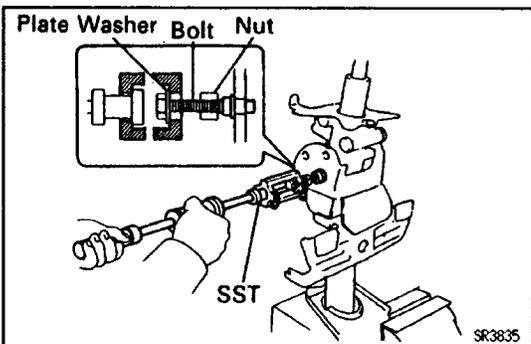
### 8. REMOVE TILT PAWLS

- Remove the nut and two washers.
- Pull out the bolt.
- Remove the tilt lever assembly installation bolt.
- Remove the two tilt pawls.



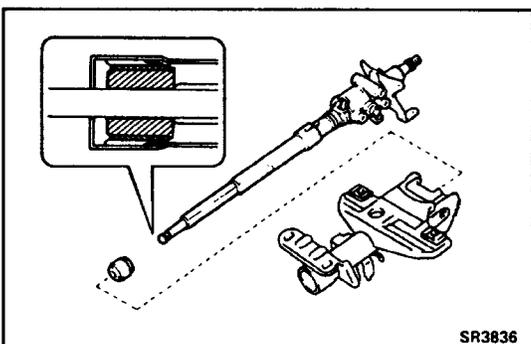
### 10. REMOVE TILT LEVER, TILT SUB LEVER, TILT LEVER ASSEMBLY AND TILT LEVER LOCK SHAFT

- Remove the tilt lever, tilt sub lever and tilt lever assembly from the tilt lever lock shaft.
- Pull out the tilt lever lock shaft.

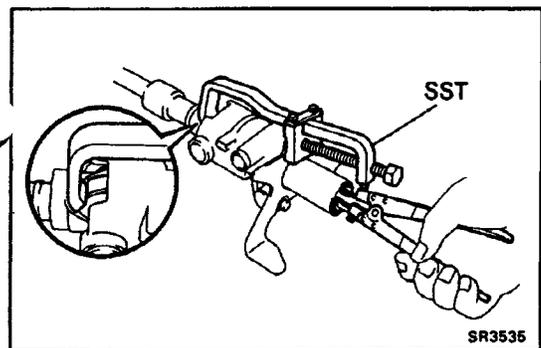


### 11. REMOVE UPPER COLUMN TUBE

- Set SST, the nut (10 mm diameter, 1.25 mm pitch), plate washer (36 mm outer diameter) and bolt (10 mm diameter, 1.25 mm pitch, 50 mm length) as shown. And then remove the two tilt steering bolts.  
SST 09910-00015(09911-0001 1,09912-00010)  
(Reference) Nut 90170-10004  
Plate washer 90201-10201  
Bolt 91111-51050

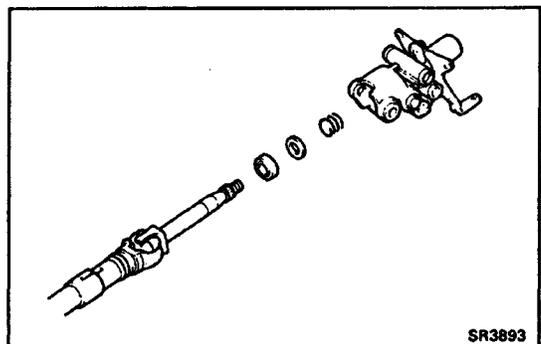


- Remove the upper column tube from the lower column tube.
- Remove the collar from the main shaft.

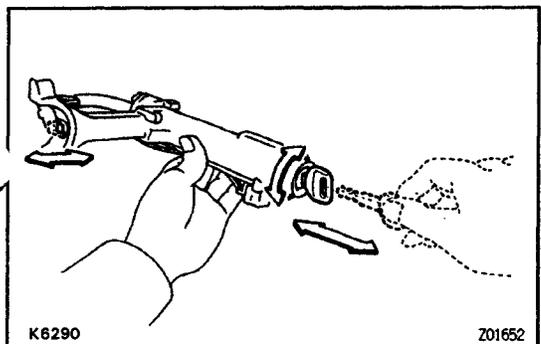


## 12. REMOVE MAIN SHAFT

- (a) Using SST to compress the main shaft spring, remove the snap ring with snap ring pliers.  
SST 09950-20017(09956-00010)



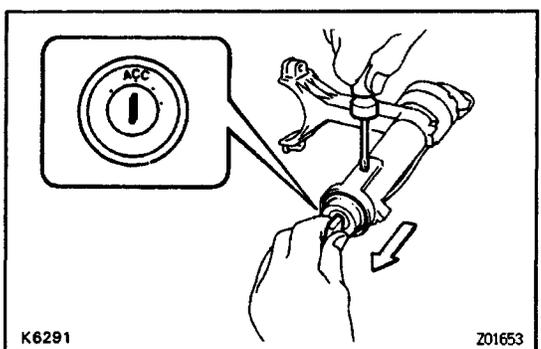
- (b) Remove the main shaft from the column tube.  
(c) Remove the spring, thrust collar and bearing.



## STEERING COLUMN INSPECTION AND REPLACEMENT <sup>SR071-01</sup>

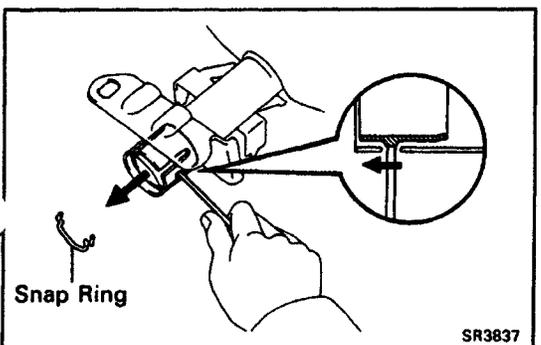
### 1. INSPECT KEY CYLINDER

Check that the steering lock mechanism operates properly.



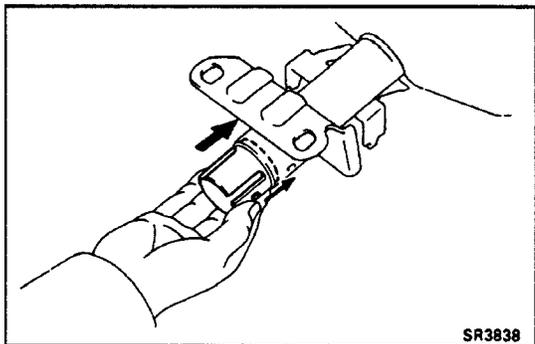
### 2. IF NECESSARY, REPLACE KEY CYLINDER

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

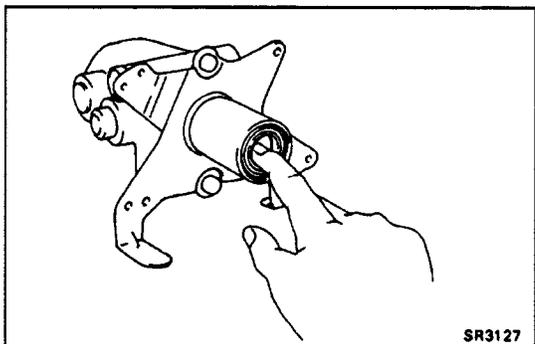


### 3. IF NECESSARY, REPLACE MAIN SHAFT BUSHING

- (a) Remove the snap ring.  
(b) Using a screwdriver, remove the bushing.



- (c) Align the holes of the tube and projections of a new bushing, and install the bushing in the column tube.
- (d) Install the snap ring.



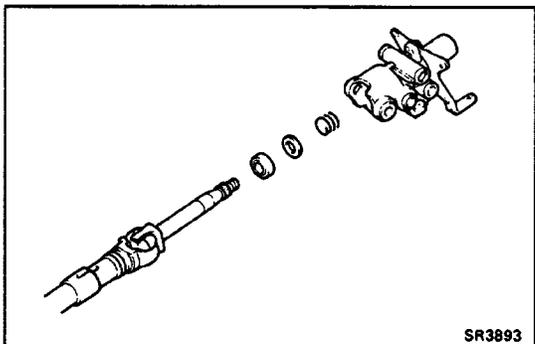
#### 4. INSPECT UPPER BEARING

Check the upper bearing rotation condition and check for abnormal noise.

#### 5. (A/T)

#### INSPECT KEY INTERLOCK SOLENOID

(See page AT-80)



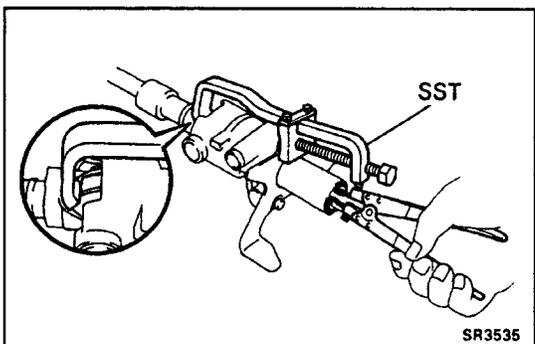
## STEERING COLUMN ASSEMBLY

SR073-01

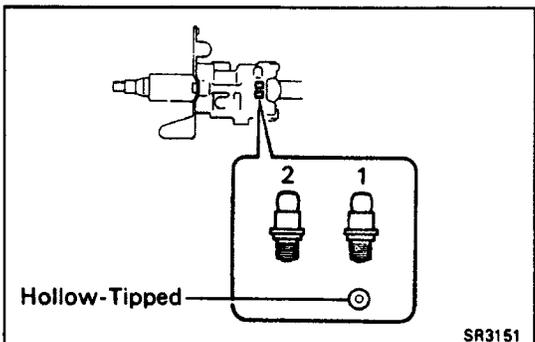
### 1. APPLY MOLYBDENUM DISULPHIDE LITHIUM BASE GREASE

### 2. INSTALL MAIN SHAFT

- (a) Install the bearing, thrust collar and spring to the main shaft.
- (b) Install the main shaft into the upper column tube.

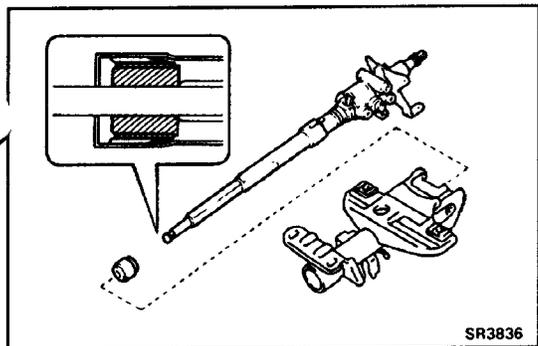


- (c) Using SST to compress the main shaft spring, install the snap ring with snap ring pliers.  
SST 09950-20017



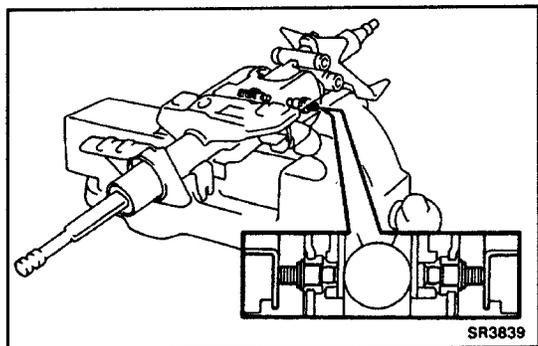
### 3. SELECT TILT STEERING BOLTS

Select the bolt with the plain thread end when the upper column tube mark is 2, and the bolt with the hollow-tipped thread end when the mark is 1.

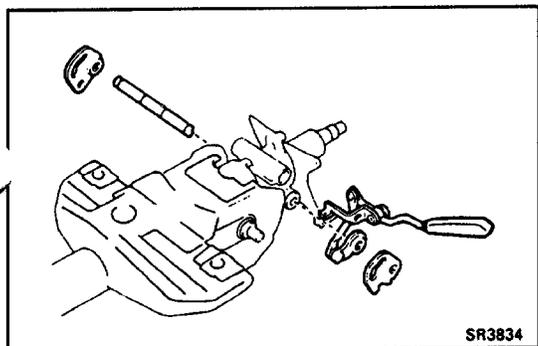


#### 4. INSTALL MAIN SHAFT WITH UPPER COLUMN TUBE

- (a) Install the collar to the main shaft.
- (b) Install the main shaft with the upper column tube into the lower column tube.

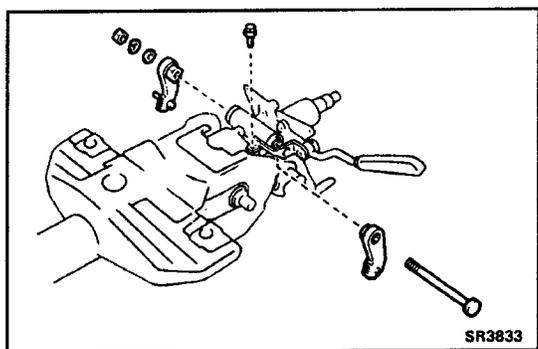


- (c) Using a vise, press in the two tilt steering bolts.
- HINT: Make sure the upper tube turns smoothly.



#### 5. INSTALL TILT LEVER LOCK SHAFT, TILT LEVER ASSEMBLY, TILT SUB LEVER AND TILT LEVER

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



#### 6. INSTALL TILT PAWLS

- (a) Install the two tilt pawls to the upper column tube.
- HINT: Install the pawl pin into the long hole of the tilt lever and tilt sub lever.
- (b) Install the bolt through the tilt pawls and tilt lever assembly.
  - (c) Temporarily install the two washers and nut.
  - (d) Install and torque the tilt lever assembly installation bolt.

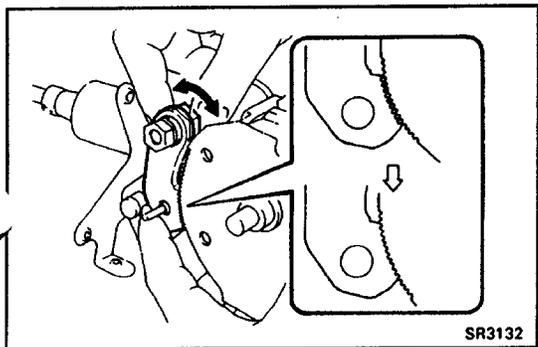
**Torque: 2.9 N-m (30 kgf-cm, 26 in.-lbf)**

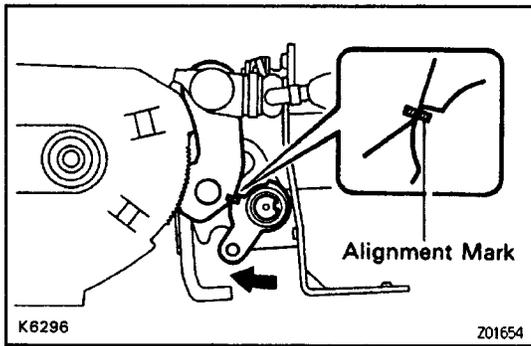
#### 7. ENGAGE AND ADJUST TILT PAWL

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

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

- (d) Check that the pawls rotate smoothly.

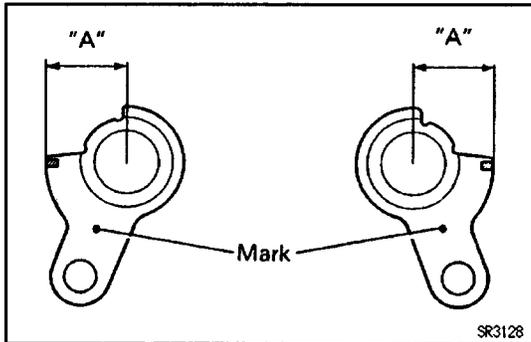




## 8. SELECT PAWL STOPPERS

- 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.

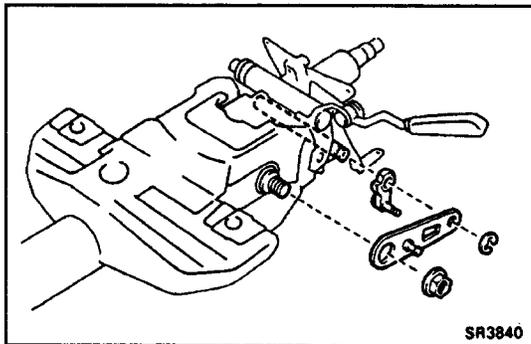
- After selecting the stoppers, check that on both sides the pawl and ratchet are fully engaged.



## 9. INSTALL PAWL STOPPERS AND TILT LEVER RETAINERS

- Install the tilt sub lever side pawl stopper and tilt lever retainer.
- Install the E-ring.
- Install and torque the nut.

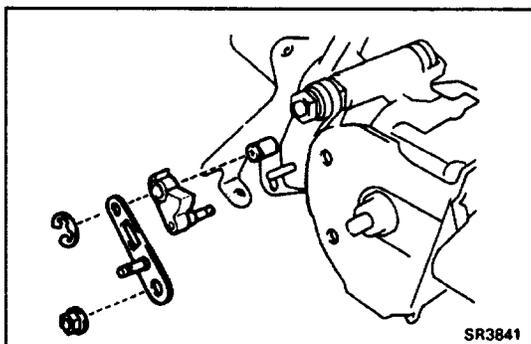
**Torque: 15 N-m (150 kgf-cm, 11 ft-lbf)**



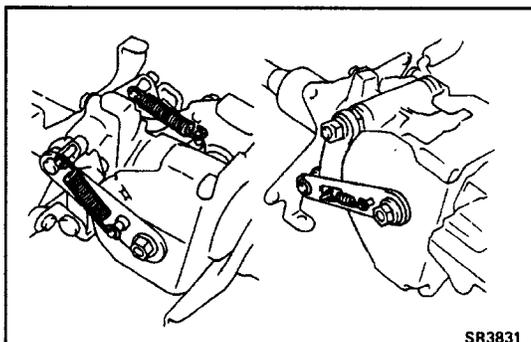
- Install the tilt lever side pawl stopper and tilt lever retainer.

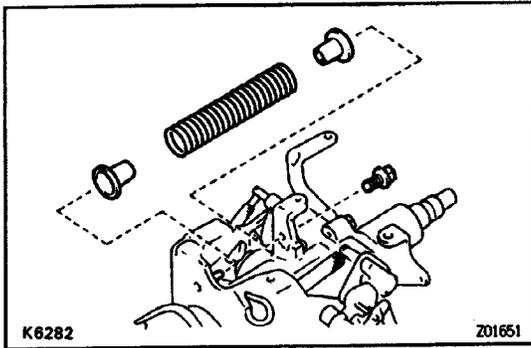
- Install the E-ring.
- Install and torque the nut.

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



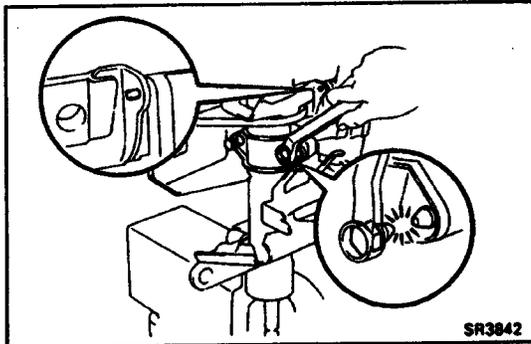
## 10. INSTALL THREE TENSION SPRINGS



**11. INSTALL COMPRESSION SPRING**

- (a) Install the two bushings to the spring.
- (b) Install the spring and bolt.
- (c) Torque the bolt.

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

**12. INSTALL UPPER BRACKET**

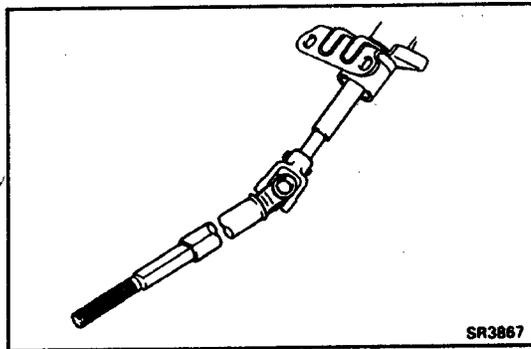
- (a) Install the upper bracket with new tapered – head bolts.

**HINT:** Install the upper bracket pin into the column tube hole.

- (b) Tighten the tapered-head bolts until the bolt heads brake off.

**13. (USA)****INSTALL PROTECTOR****14. INSTALL WIRING HARNESS CLAMP****15. INSTALL INTERMEDIATE SHAFT**

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

**16. INSTALL IGNITION KEY CYLINDER ILLUMINATION****17. CHECK OPERATION OF TILT STEERING**

- (a) Check that there is no axial play at the end of the main shaft.
- (b) With the main shaft in the neutral position, push 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 uppermost position.