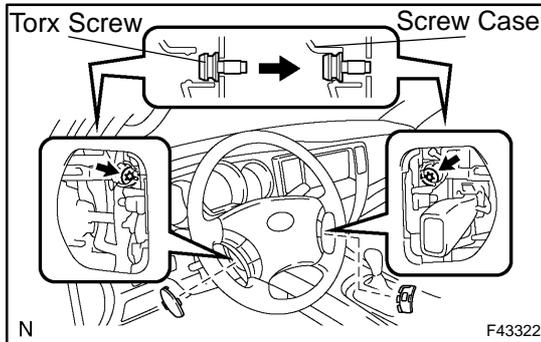


OVERHAUL

1. **PRECAUTION** (See page 60-1)
2. **DISCONNECT BATTERY NEGATIVE TERMINAL**
3. **PLACE FRONT WHEELS FACING STRAIGHT AHEAD**

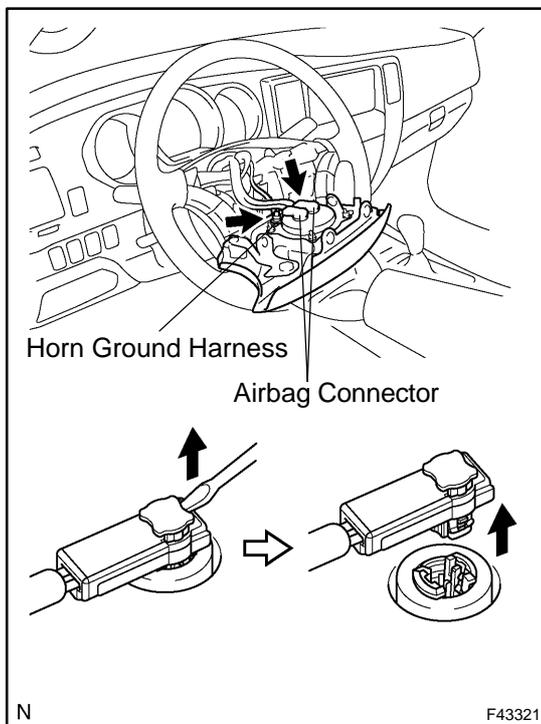


4. **REMOVE STEERING WHEEL COVER LOWER NO.3**
5. **REMOVE STEERING WHEEL COVER LOWER NO.2**
6. **REMOVE HORN BUTTON ASSY**

NOTICE:

If the airbag connector is disconnected with the ignition switch being at ON, DTCs will be recorded.

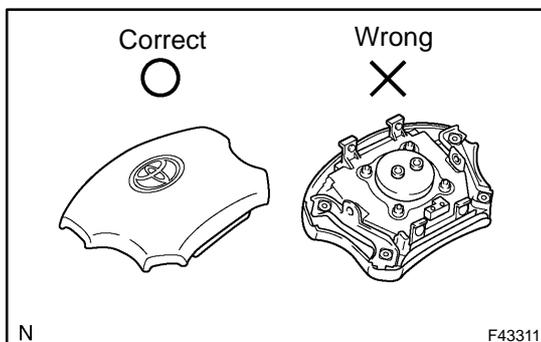
- (a) Using a torx socket wrench (Torx socket wrench (T= 30)), loosen the 2 torx screws until the groove along the screw circumference catches on the screw case.



NOTICE:

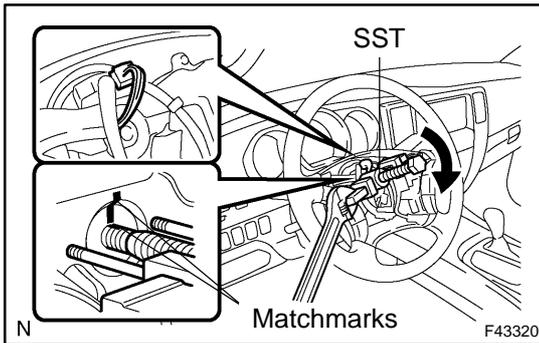
When removing the horn button assy, take care not to pull the airbag wire harness.

- (b) Pull out the horn button assy from the steering wheel assy.
- (c) Using a screwdriver, release the lock part of each of the airbag connectors and disconnect the 2 airbag connectors.
- (d) Disconnect the horn ground harness from the horn button assy.

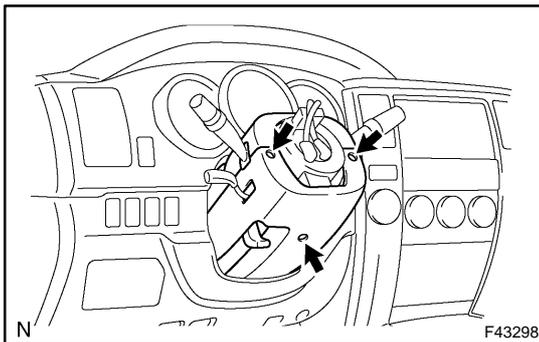


CAUTION:

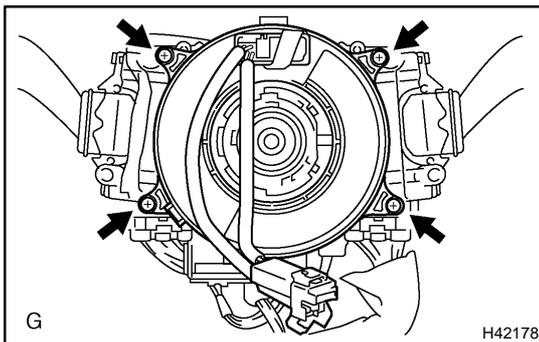
- When storing the horn button assy, keep the upper surface of the pad facing upward.
- Never disassemble the horn button assy.

**7. REMOVE STEERING WHEEL ASSY**

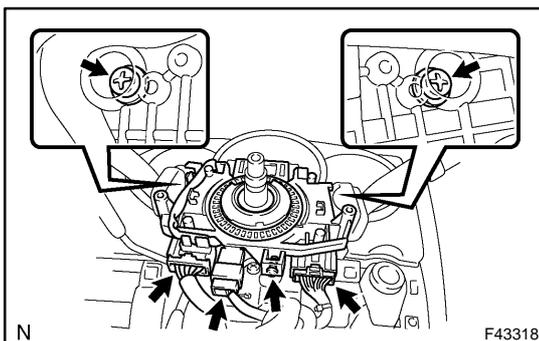
- (a) w/o Steering pad switch:
Disconnect the connector.
 - (b) Remove the steering wheel assy set nut.
 - (c) Mark matchmarks on the steering wheel assy and main shaft assy.
 - (d) Set the SST on the steering wheel assy.
 - (e) Holding the SST to the monkey spanner and turn the SST, then remove the steering wheel assy.
- SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05021)

8. REMOVE FRONT DOOR SCUFF PLATE LH**9. REMOVE FRONT FLOOR FOOTREST****10. REMOVE COWL SIDE TRIM BOARD LH****11. REMOVE INSTRUMENT PANEL FINISH PANEL SUB-ASSY LOWER (See page 71-12)****12. REMOVE INSTRUMENT PANEL LOWER LH****13. REMOVE STEERING COLUMN COVER LWR**

- (a) Remove the 3 screws and steering column cover lower.

14. REMOVE STEERING COLUMN COVER UPR**15. REMOVE SPIRAL CABLE SUB-ASSY**

- (a) Disconnect the 2 connectors.
- (b) Remove the 4 screws and spiral cable sub-assy.

**16. REMOVE TURN SIGNAL SWITCH ASSY**

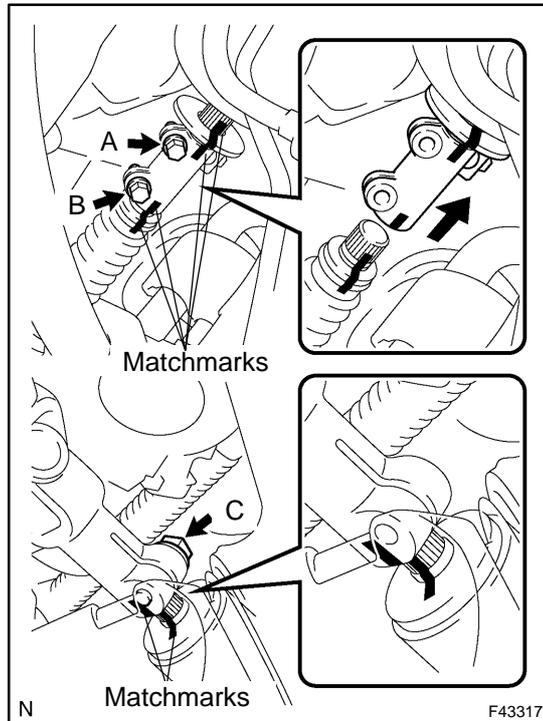
- (a) Disconnect the 3 connectors.
- (b) Remove the 3 screws and turn signal switch assy.

17. REMOVE ENGINE UNDER COVER SUB-ASSY NO.1

- (a) Remove the 4 bolts and engine under cover sub-assy No.1.

18. REMOVE ENGINE UNDER COVER ASSY REAR

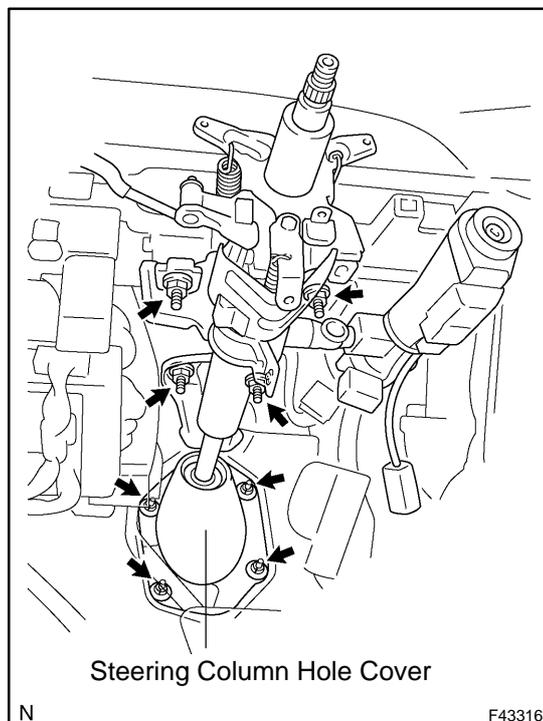
- (a) Remove the 4 bolts and engine under cover assy rear.

**19. REMOVE STEERING SLIDING YOKE**

- (a) Mark matchmarks on the steering sliding yoke, steering intermediate shaft sub-assy No.2 and steering intermediate shaft assy.
 (b) Remove the bolt A and bolt B from the steering sliding yoke.
 (c) Slide the steering sliding yoke up and separate it from the steering intermediate shaft sub-assy No.2.
 (d) Pull down the steering sliding yoke from the steering intermediate shaft assy to remove.

20. REMOVE STEERING INTERMEDIATE SHAFT SUB-ASSY NO.2

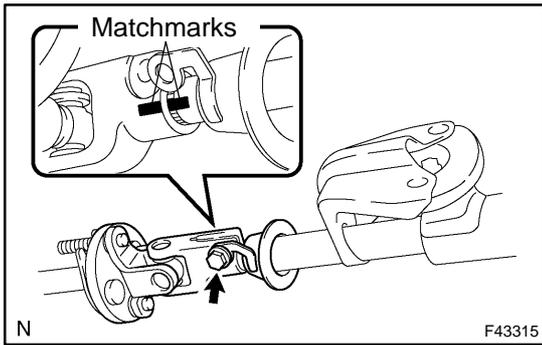
- (a) Mark matchmarks on the power steering gear assy and steering intermediate shaft sub-assy No.2.
 (b) Remove the bolt C and intermediate shaft sub-assy No.2 from the power steering gear assy.

**21. REMOVE STEERING COLUMN HOLE COVER**

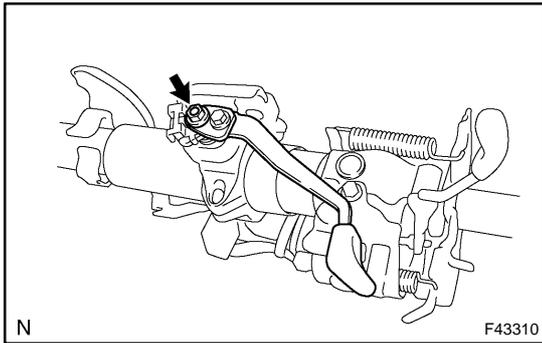
- (a) Remove the heater to register duct.
 (b) Remove the 4 clips and steering column hole cover.

22. REMOVE STEERING COLUMN ASSY

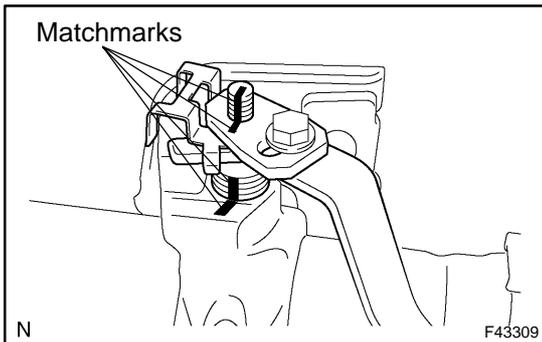
- (a) Disconnect the each of the connectors from the steering column assy.
 (b) Disconnect the wire harness from the steering column assy.
 (c) Remove the 4 steering column set nuts.
 (d) Pull out the steering column assy with the intermediate shaft assy.



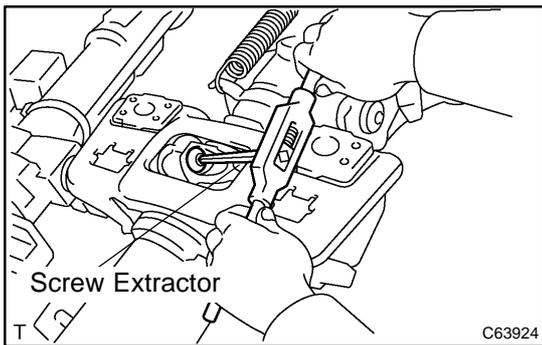
- 23. REMOVE STEERING INTERMEDIATE SHAFT ASSY**
- (a) Remove the bolt and separate the steering shaft thrust stopper from the steering intermediate shaft assy.
 - (b) Mark matchmarks on the steering column assy and steering intermediate shaft.
 - (c) Pull out the intermediate shaft assy and steering shaft thrust stopper from the steering column assy.



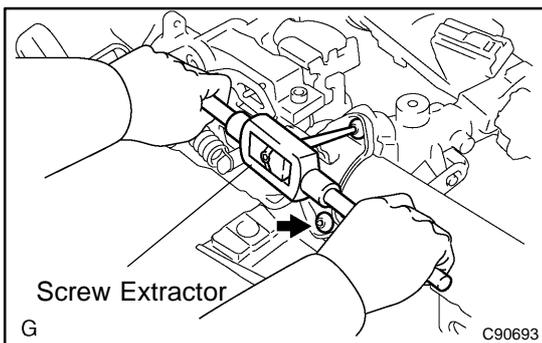
- 24. REMOVE STEERING COLUMN BRACKET ASSY UPPER (TILT & TELESCOPIC STEERING)**
- (a) Remove the inverse nut from the telescopic lever.



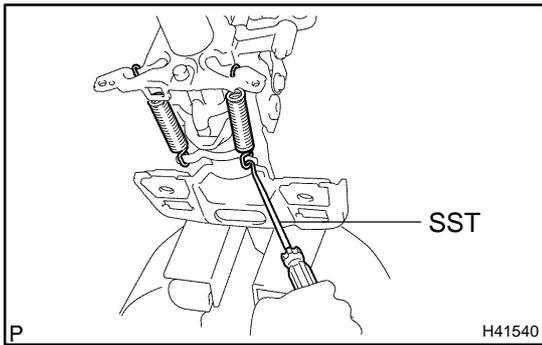
- (b) Mark the matchmarks on the steering telescopic lever and telescopic lever lock bolt, telescopic lever lock bolt and steering column upper clamp.
- (c) Remove the steering telescopic lever from the telescopic lever lock bolt.



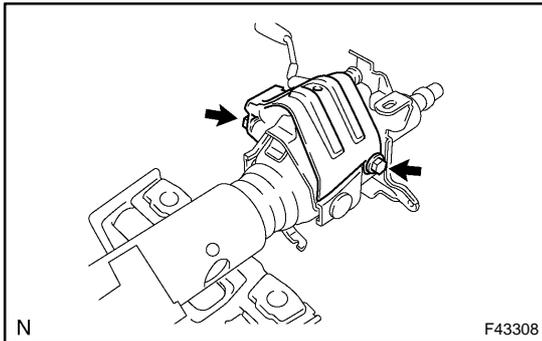
- (d) Using a 3 mm (0.12 in.) pin punch, mark the center of the 2 tapered-head bolts.
- (e) Using a 3 - 4 mm (0.12 - 0.16 in.) drill, drill in to the 2 bolts.
- (f) Using a screw extractor, remove the 2 tapered-head bolts, steering column bracket assy upper, steering column upper clamp and lock wedge.



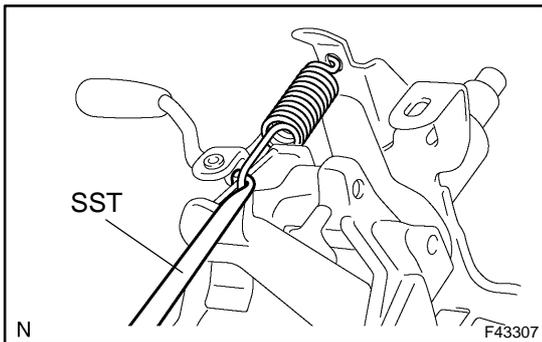
- 25. REMOVE STEERING COLUMN BRACKET ASSY UPPER (TILT STEERING)**
- (a) Using a 3 mm (0.12 in.) pin punch, mark the center of the 2 tapered-head bolts.
 - (b) Using a 3 - 4 mm (0.12 - 0.16 in.) drill, drill in to the 2 bolts.
 - (c) Using a screw extractor, remove the 2 tapered-head bolts, steering column bracket assy upper and steering column upper clamp.

**26. REMOVE STEERING MAIN SHAFT ASSY**

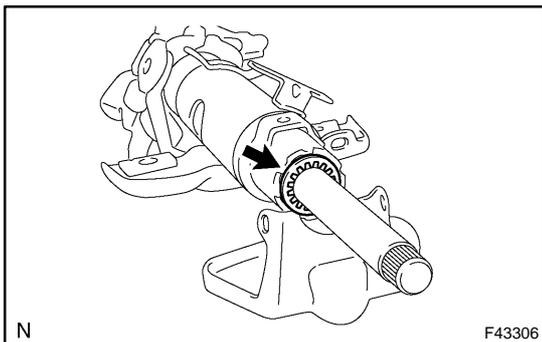
- (a) Using SST, remove the 2 tension springs.
SST 09921-00010



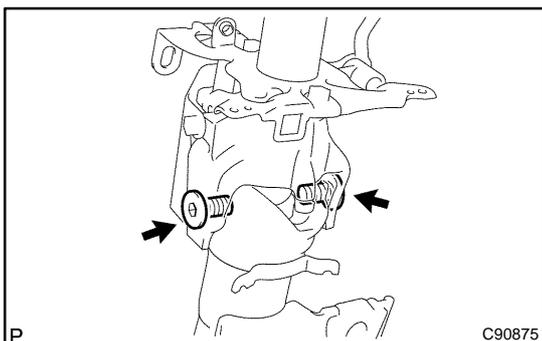
- (b) Remove the 2 bolts and steering column protector.



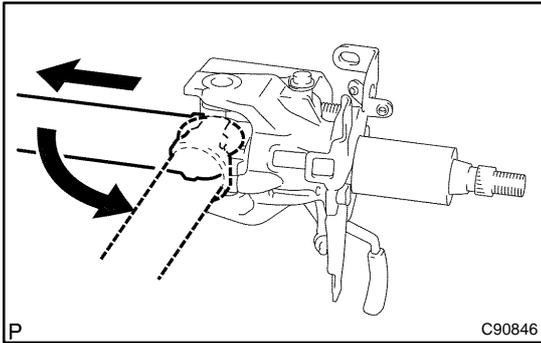
- (c) Using SST remove the tension spring.
SST 09921-00010
(d) Remove the 2 bolts and turn signal bracket.



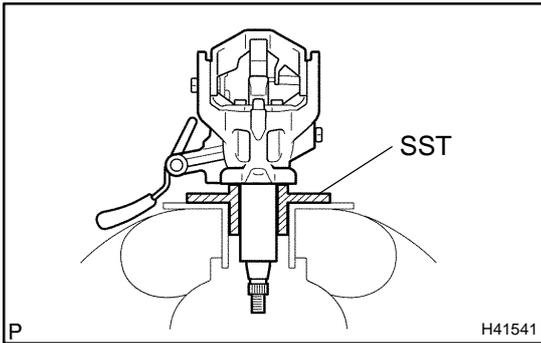
- (e) Tilt & telescopic steering:
Using a screwdriver, remove the steering column No.1 ring from the steering main shaft.



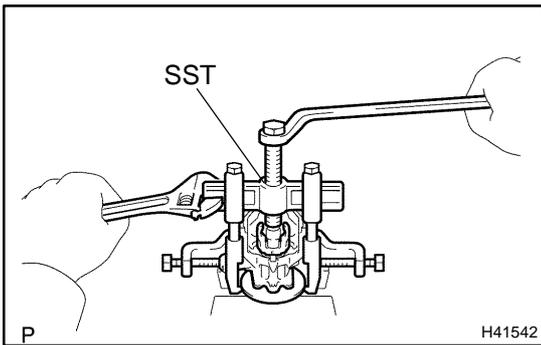
- (f) Using a hexagon wrench (6 mm), remove the 2 tilt steering bolts.
(g) Pull out the main shaft with the steering column tube sub-assy upper from the column tube.



- (h) Bend the joint of the main shaft at right angles, leaving the cross ball in the No.2 main shaft sub-assy, divide the main shaft into the No.1 main shaft with the steering column tube sub-assy upper and No.2 main shaft sub-assy.

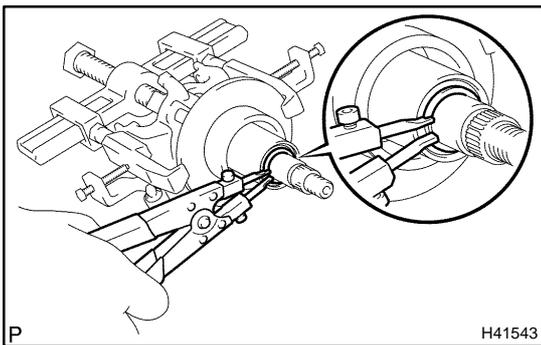


- (i) Secure the No.1 main shaft with the steering column tube sub-assy upper and SST in a vise.
SST 09316-6001 1 (09316-00051)

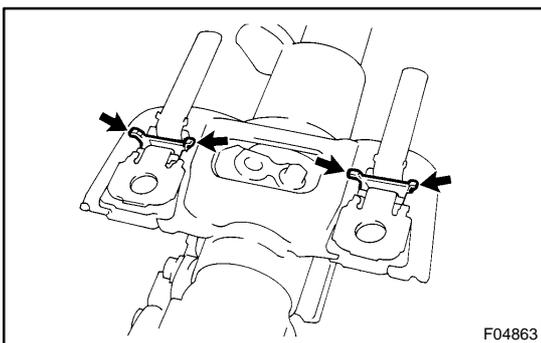


- (j) Using SST, compress the spring of the steering column tube sub-assy upper.
SST 09950-40011 (09951-04010, 09952-04010, 09953-04020, 09954-04010, 09955-04061, 09958-0401 1)

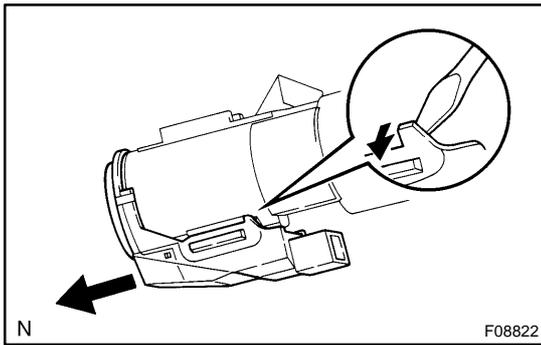
NOTICE:
Do not overtighten the SST.



- (k) Using snap ring expander, remove the snap ring and No.1 main shaft.
- (l) Remove the compression spring, bearing thrust collar and bearing from the No.1 main shaft.

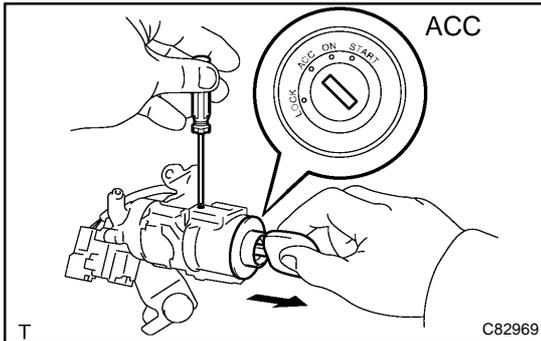


- 27. REMOVE STEERING ENERGY ABSORBING PIN SUB-ASSY**
- (a) Using pliers, remove the 2 energy absorbing pins.
- 28. REMOVE STEERING COLUMN ENERGY ABSORBING PLATE**
- 29. REMOVE STEERING ENERGY ABSORBING PLATE GUIDE**

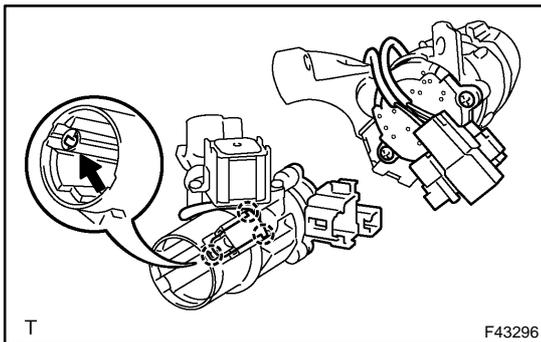
**30. REMOVE TRANSPONDER KEY AMPLIFIER****NOTICE:**

Take care not to use excessive force to prevent the case from being damaged.

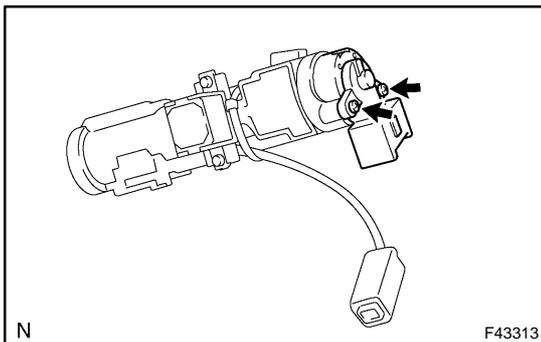
- (a) Expand the claw hung on the upper bracket by approx. 1.0 mm (0.039 in.) using a screwdriver.
- (b) Pull the transponder key amplifier toward the rear of the vehicle with the claw open.

**31. REMOVE IGNITION SWITCH LOCK CYLINDER & KEY SET**

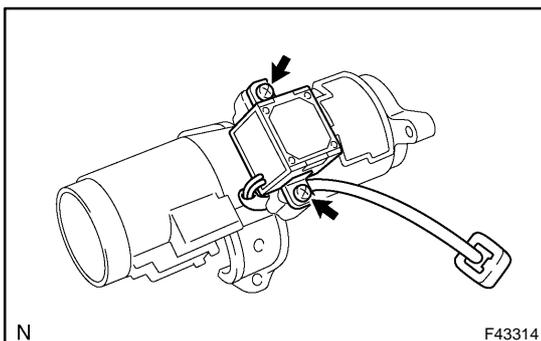
- (a) Place the ignition switch lock cylinder assy at the ACC position.
- (b) Push down the stop pin with a screwdriver and pull out the ignition switch lock cylinder assy.

**32. REMOVE UN-LOCK WARNING SWITCH ASSY**

- (a) Disconnect the un-lock warning switch assy connector from the ignition or start switch assy.
- (b) Remove the un-lock warning switch assy toward the rear of the vehicle by pushing up the center part.

**33. REMOVE IGNITION OR STARTER SWITCH ASSY**

- (a) Remove the 2 screws and ignition or starter switch assy from the steering column bracket assy upper.

**34. REMOVE KEY INTER LOCK SOLENOID**

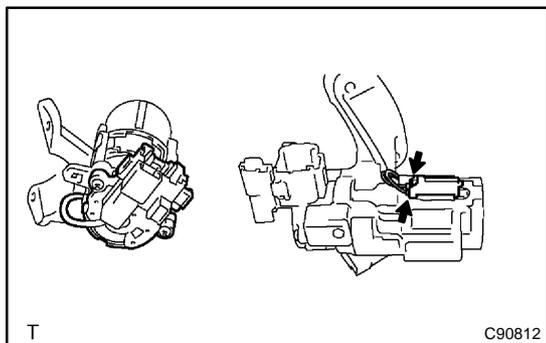
- (a) Remove the 2 screws and key inter lock solenoid from the steering column bracket assy upper.

35. INSTALL KEY INTER LOCK SOLENOID

- (a) Install the key inter lock solenoid to the steering column bracket assy upper with 2 screws.

36. INSTALL IGNITION OR STARTER SWITCH ASSY

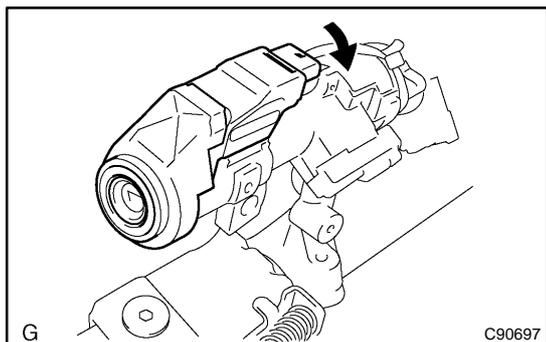
- (a) Install the ignition or starter switch assy to the steering column bracket assy upper with 2 screws.

**37. INSTALL UN-LOCK WARNING SWITCH ASSY**

- (a) Install the un-lock warning switch assy to the steering column bracket assy upper.
- (b) Connect the un-lock warning switch assy connector to the ignition or starter switch assy.

38. INSTALL IGNITION SWITCH LOCK CYLINDER & KEY SET

- (a) Make sure that the ignition switch lock cylinder assy is at the ACC position.
- (b) Install the ignition switch lock cylinder assy.

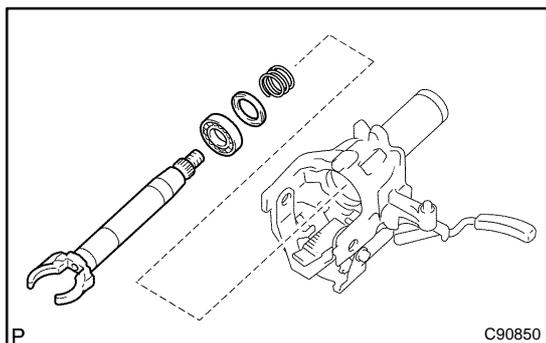
**39. INSTALL TRANSPONDER KEY AMPLIFIER****NOTICE:**

Take care not to push the amplifier up with excessive force to prevent it from being damaged.

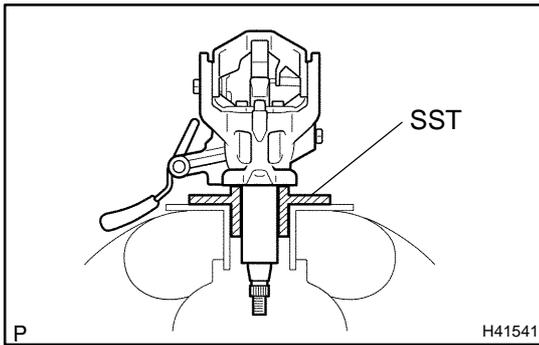
- (a) Align the transponder key amplifier with the installation position of the upper bracket with the amplifier inclined.
- (b) Push up the transponder key amplifier and connect it to the upper bracket.

40. INSPECT STEERING LOCK OPERATION

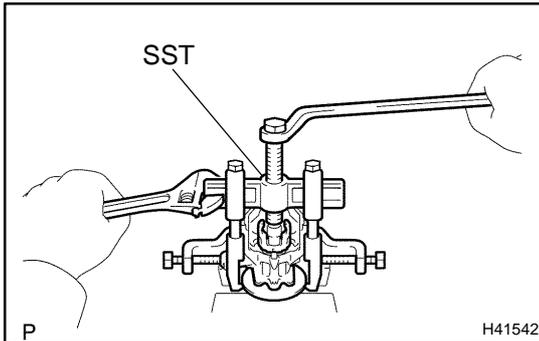
- (a) Check that the steering mechanism is activated when removing the key.
- (b) Check that the steering mechanism is deactivated when inserting the key and turning it to ACC position.

41. INSTALL STEERING ENERGY ABSORBING PLATE GUIDE**42. INSTALL STEERING COLUMN ENERGY ABSORBING PLATE****43. INSTALL STEERING ENERGY ABSORBING PIN SUB-ASSY****44. INSTALL STEERING MAIN SHAFT ASSY**

- (a) Install the compression spring, bearing thrust collar and bearing to the No.1 main shaft.
- (b) Temporarily install the steering column tube sub-assy upper to the No.1 main shaft.



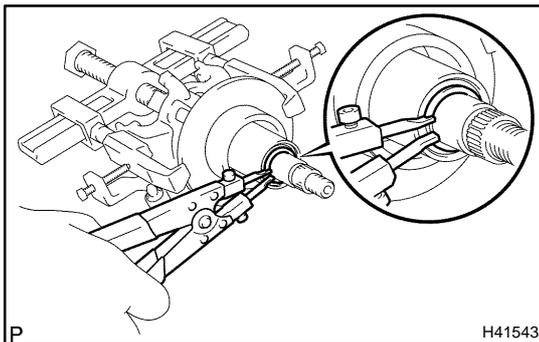
- (c) Secure the No.1 main shaft with the steering column tube sub-assy upper and SST in a vise.
SST 09316-6001 1 (09316-00051)



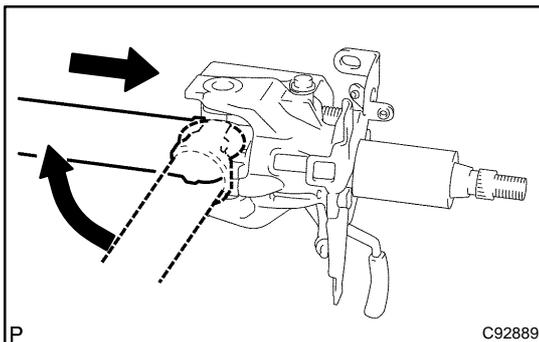
- (d) Using SST, compress the spring of the steering column tube sub-assy upper.
SST 09950-40011 (09951-04010, 09952-04010, 09953-04020, 09954-04010, 09955-04061, 09958-0401 1)

NOTICE:

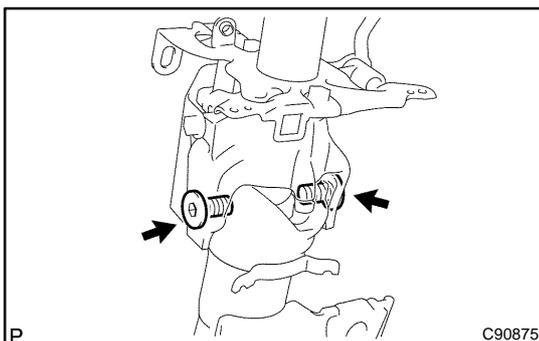
Do not overtighten the SST.



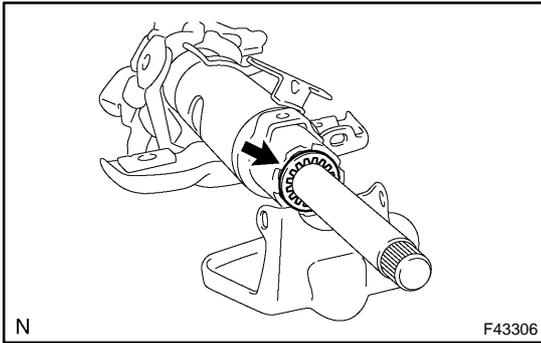
- (e) Using a snap ring expander, install a new snap ring to the main shaft.



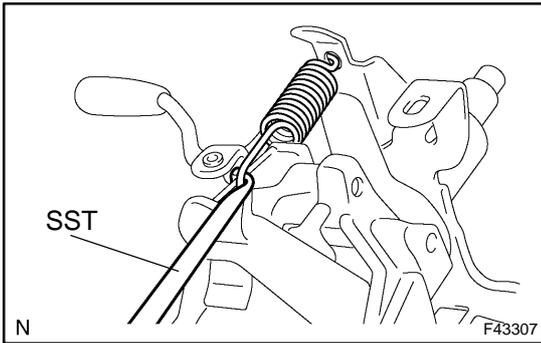
- (f) Assemble the No.1 main shaft with the steering column tube sub-assy upper and No.2 main shaft sub-assy.



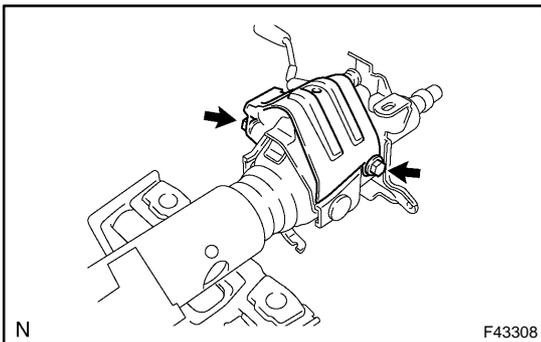
- (g) Using a hexagon wrench (6 mm), install the 2 tilt steering bolts.
Torque: 20 N·m (204 kgf·cm, 15 ft·lbf)
(h) Install the main shaft with the steering column tube sub-assy upper to the column tube.



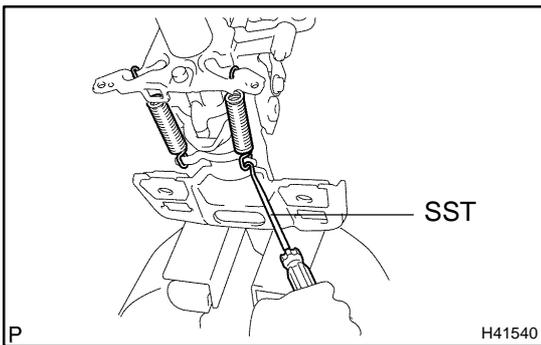
- (i) Tilt & telescopic steering:
Install the steering column No.1 ring to the steering main shaft.



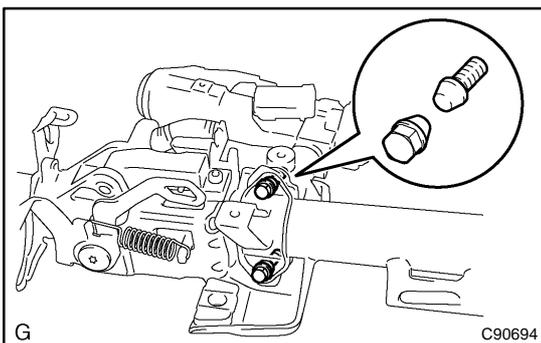
- (j) Using SST, install the tension spring.
SST 09921-00010
- (k) Install the turn signal bracket with the 2 bolts.
Torque: 5.7 N·m (58 kgf·cm, 50 in.-lbf)



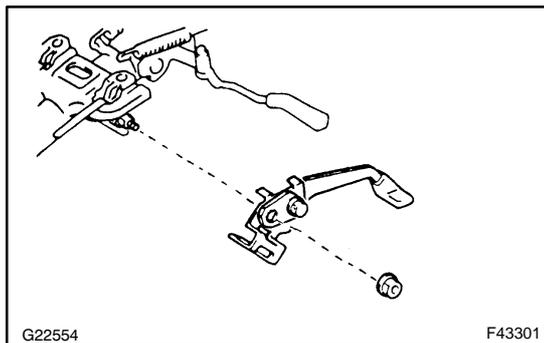
- (l) Install the steering column protector with the 2 bolts.
Torque: 6 N·m (60 kgf·cm, 52 in.-lbf)



- (m) Using SST, install the 2 tension springs.
SST 09921-00010



- 45. INSTALL STEERING COLUMN BRACKET ASSY UPPER (TILT & TELESCOPIC STEERING)**
- (a) Temporarily install the lock wedge, steering column bracket assy upper and steering column upper clamp with the 2 new tapered-head bolts.
- (b) Tighten the 2 tapered-head bolts until the bolt heads break off.



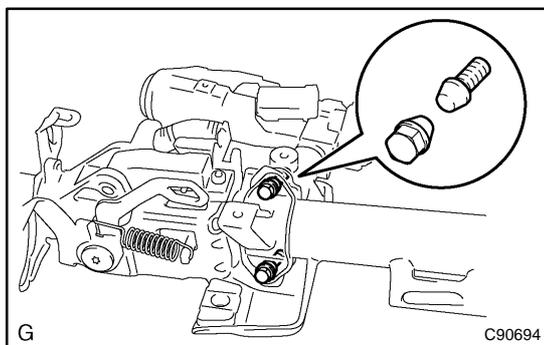
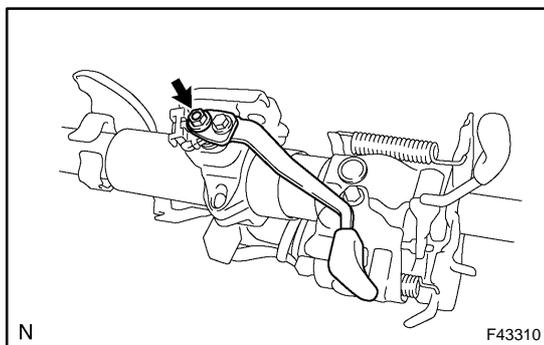
- (c) Make the telescopic mechanism most extended condition.
- (d) After tightening the telescopic lever bolt, perform the loosening procedure at least 5 times to stabilize.

Torque:**Tighten: 20 N·m (205 kgf·cm, 15 ft·lbf)****Loosen: 0 N·m (0 kgf·cm, 0 ft·lbf)**

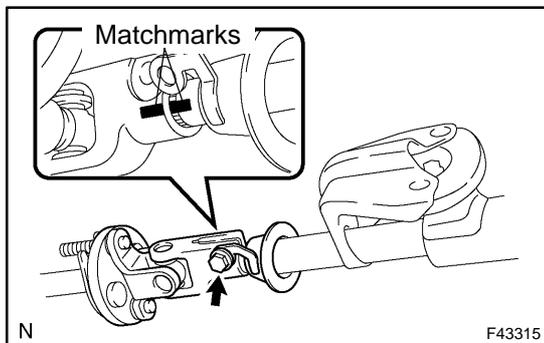
- (e) Fix the telescopic lever bolt.
- (f) Install the telescopic lever on the position where the telescopic locks.
- (g) Fix the telescopic lever to the steering column assy with a inverse nut.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

- (h) Install the inverse nut on the steering telescopic lever.

Torque: 23 N·m (240 kgf·cm, 17 ft·lbf)**46. INSTALL STEERING COLUMN BRACKET ASSY UPPER (TILT STEERING)**

- (a) Temporarily install the steering column bracket assy upper and steering column upper clamp with the 2 new tapered-head bolts.
- (b) Tighten the 2 tapered-head bolts until the bolt heads break off.

**47. INSTALL STEERING INTERMEDIATE SHAFT ASSY**

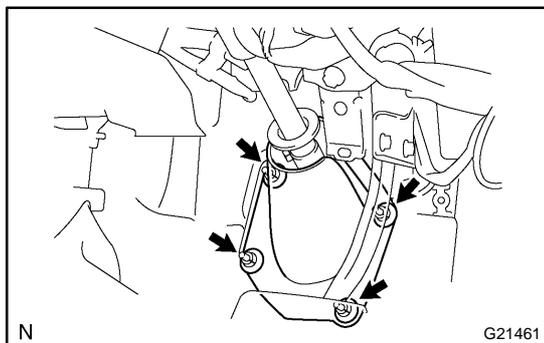
- (a) Align the matchmarks on the steering column assy and the steering intermediate shaft assy.
- (b) Install the steering intermediate shaft assy and thrust stopper to the steering column assy with the bolt.

Torque: 36 N·m (360 kgf·cm, 26 ft·lbf)**48. INSTALL STEERING COLUMN ASSY**

- (a) Install the steering column assy with the steering intermediate shaft assy with the 4 steering column set nuts.

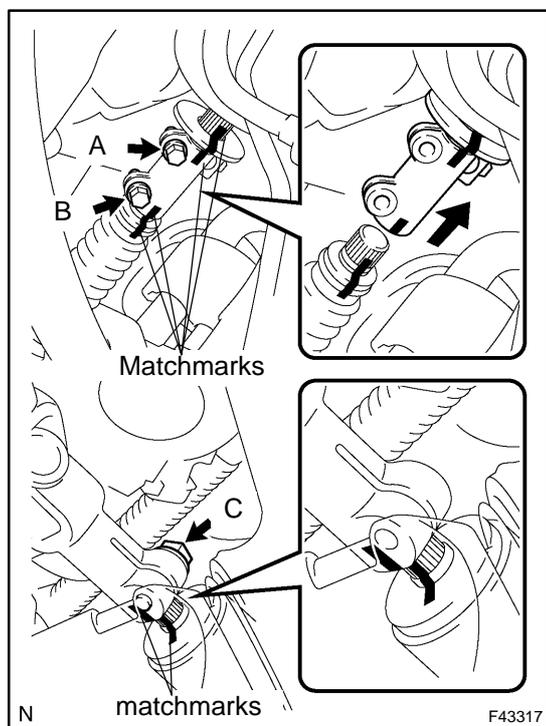
Torque: 26 N·m (270 kgf·cm, 20 ft·lbf)

- (b) Connect the wire harness to the steering column assy.
- (c) Connect each of the connectors to the steering column assy.



49. INSTALL STEERING COLUMN HOLE COVER

- (a) Install the steering column hole cover with the 4 clips.
- (b) Install the heater to register duct to the heater unit.



50. INSTALL STEERING INTERMEDIATE SHAFT SUB-ASSY NO.2

- (a) Align the matchmarks on the power steering gear and steering intermediate shaft sub-assy No.2.
- (b) Install the steering intermediate shaft sub-assy No.2 to the steering gear box with the bolt C.

Torque:

Bolt C: 36 N·m (360 kgf·cm, 26 ft·lbf)

51. INSTALL STEERING SLIDING YOKE

- (a) Align the matchmarks on the steering column and steering sliding yoke.
- (b) Install the steering sliding yoke to the steering column assy and slide it upward.
- (c) Align the matchmarks on the intermediate shaft sub-assy No.2 and steering sliding yoke.
- (d) Install the sliding yoke to the intermediate shaft sub-assy No.2 with the bolt A and bolt B.

Torque:

Bolt A, B: 36 N·m (360 kgf·cm, 26 ft·lbf)

52. INSTALL ENGINE UNDER COVER ASSY REAR

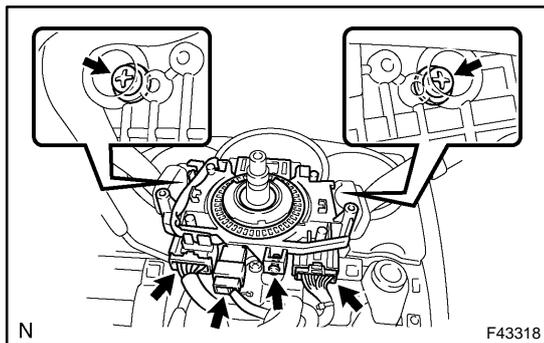
- (a) Install the engine under cover assy rear with the 4 bolts.

Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)

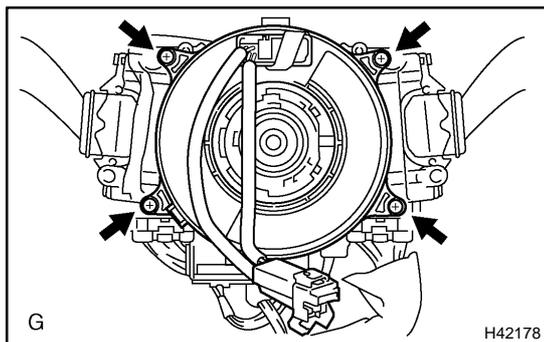
53. INSTALL ENGINE UNDER COVER SUB-ASSY NO.1

- (a) Install the engine under cover sub-assy No.1 with the 4 bolts.

Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)

**54. INSTALL TURN SIGNAL SWITCH ASSY**

- (a) Install the turn signal switch assy with the 3 screws.
- (b) Connect the 3 connectors to the turn signal switch assy.

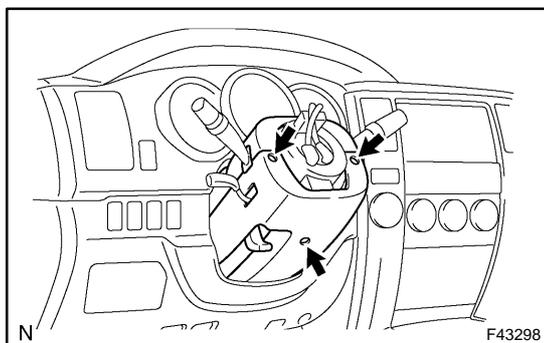
**55. INSTALL SPIRAL CABLE SUB-ASSY**

- (a) Check that the front wheels are facing straight ahead.
- (b) Turn the spiral cable counterclockwise by hand until it becomes harder to turn.
- (c) Then rotate the spiral cable clockwise about 2.5 turns to align the mark.

HINT:

The spiral cable will rotate about 2.5 turns to either left or right of the center.

- (d) Install the spiral cable with the 4 screws.
- (e) Connect the 2 connectors to the spiral cable sub-assy.

**56. INSTALL STEERING COLUMN COVER UPR**

- (a) Install the steering column cover upper to the steering column assy.

57. INSTALL STEERING COLUMN COVER LWR

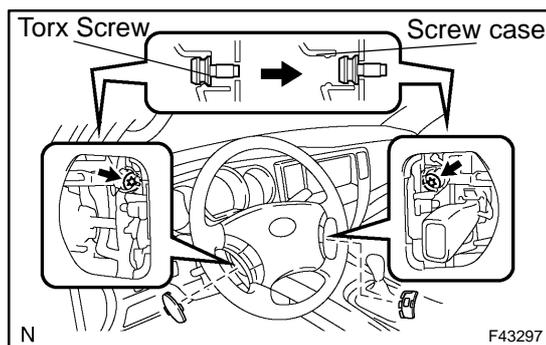
- (a) Install the steering column cover lower to the steering column assy.
- (b) Install the 3 screws to the steering column cover upper and lower.

58. INSTALL INSTRUMENT PANEL LOWER LH**59. INSTALL INSTRUMENT PANEL FINISH PANEL SUB-ASSY LOWER (See page 71-12)****60. INSTALL COWL SIDE TRIM BOARD LH****61. INSTALL FRONT FLOOR FOOTREST****62. INSTALL FRONT DOOR SCUFF PLATE LH****63. INSTALL STEERING WHEEL ASSY**

- (a) Align the matchmarks on the steering wheel and main shaft assy.
- (b) Install the steering set nut.
Torque: 50 N·m (510 kgf·cm, 37 ft·lbf)
- (c) w/o Steering pad switch:
Connect the connector.

64. INSTALL HORN BUTTON ASSY**NOTICE:**

- Never use airbag parts from another vehicle. When replacing parts, replace with new ones.
- 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.



- Connect the horn ground harness to the horn button assy.
- Connect the 2 airbag connectors.
- Install the horn button assy after confirming that the circumference groove of torx screw is caught on the screw case.
- Using a torx socket wrench (Torx socket wrench (T= 30)), torque the 2 screws.

Torque: 8.8 N·m (90 kgf·cm, 78 in.-lbf)

65. INSTALL STEERING WHEEL COVER LOWER NO.2**66. INSTALL STEERING WHEEL COVER LOWER NO.3****67. PLACE FRONT WHEELS FACING STRAIGHT AHEAD****68. INSTALL BATTERY NEGATIVE TERMINAL****69. INSPECT SRS WARNING LIGHT (See page 60-1)**