

AUTOMATIC TRANSAXLE ASSY (ATM)

400LF-01

PRECAUTION

1. The automatic transaxle is composed of highly precision-finished parts, necessitating careful inspection before reassembly because even a small nick could cause fluid leakage or affect the performance. The instructions here are organized so that you work on only one component group at a time. This will help avoid confusion from similar-looking parts of different sub-assemblies being on your workbench at the same time. The component groups are inspected and repaired from the converter housing side. As much as possible, complete the inspection, repair and reassembly before proceeding to the next component group. If a defect is found in a certain component group during reassembly, inspect and repair this group immediately. If a component group cannot be assembled because parts are being ordered, be sure to keep all parts of the group in a separate container while proceeding with disassembly, inspection, repair and reassembly of other component groups.

Recommended ATF: T-IV

2. All disassembled parts should be washed clean and any fluid passages and holes should be blown through with compressed air.
3. Dry all parts with compressed air-never use shop rags.
4. When using compressed air, always aim away from yourself to prevent accidentally spraying ATF or kerosene on your face.
5. The recommended automatic transaxle fluid or kerosene should be used for cleaning.
6. After cleaning, the parts should be arranged in the correct order for efficient inspection, repairs, and reassembly.
7. When disassembling a valve body, be sure to match each valve together with the corresponding spring.
8. New discs for the brakes and clutches that are to be used for replacement must be soaked in ATF for at least 15 minutes before reassembly.
9. All oil seal rings, clutch discs, clutch plates, rotating parts, and sliding surfaces should be coated with ATF prior to reassembly.
10. All gaskets and rubber O-rings should be replaced.
11. Do not apply adhesive cements to gaskets and similar parts.
12. Make sure that the ends of a snap ring are not aligned with one of the cutouts and are installed in the groove correctly.
13. If a worn bushing is to be replaced, the sub-assembly containing the bushing must also be replaced.
14. Check thrust bearings and races for wear or damage. Replace if necessary.
15. Use petroleum jelly to keep parts in place.
16. When working with FIPG material, you must observe the following.
Using a razor blade and a gasket scraper, remove all the old packing (FIPG) material from the gasket surface.
Thoroughly clean all components to remove all the loose material.
Clean both sealing surfaces with a non-residue solvent.
Parts must be reassembled within 10 minutes of application. Otherwise, the packing (FIPG) material must be removed and reapplied.

AUTOMATIC TRANSAXLE FLUID (ATM)

ON-VEHICLE INSPECTION

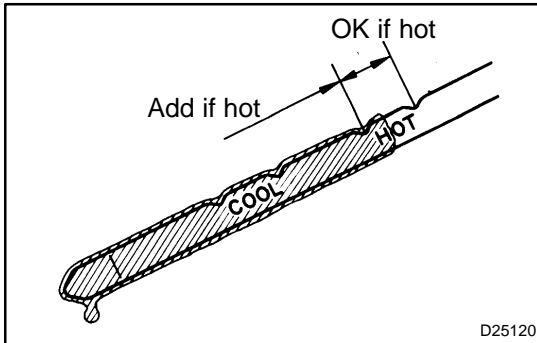
400LG-01

1. CHECK THE FLUID LEVEL

HINT:

Drive the vehicle so that the engine and transaxle are at normal operating temperature.

Fluid temperature: 70 – 80 °C (158 – 176 °F)



- (a) Park the vehicle on a level surface and set the parking brake.
- (b) With the engine idling and the brake pedal depressed, shift the shift lever into all ranges from P to L position and return to P position.
- (c) Pull out the dipstick and wipe it clean.
- (d) Push it back fully into the pipe.
- (e) Pull it out and check that the fluid level is in the HOT position.

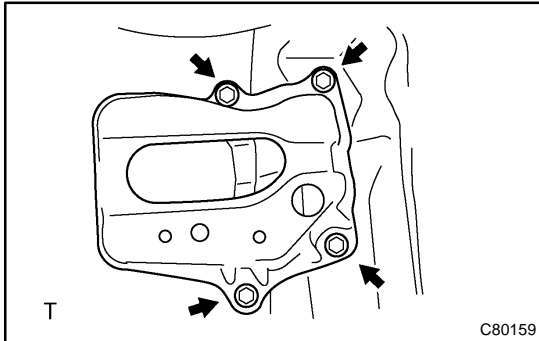
If there are leaks, it is necessary to repair or replace O-rings, FIPGs, oil seals, plugs or other parts.

PARK/NEUTRAL POSITION SWITCH ASSY (ATM)

REPLACEMENT

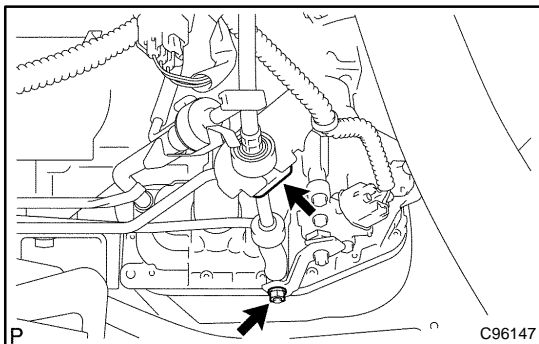
400LH-01

1. REMOVE BATTERY



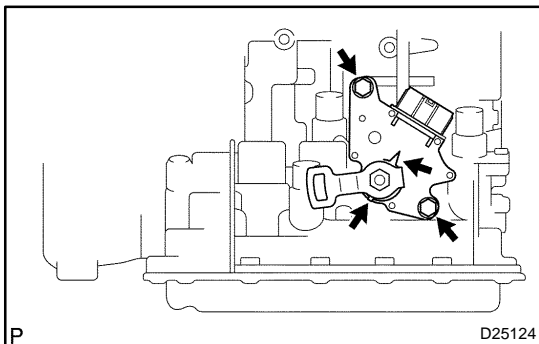
2. REMOVE BATTERY CARRIER

- (a) Remove the 4 bolts and battery carrier.



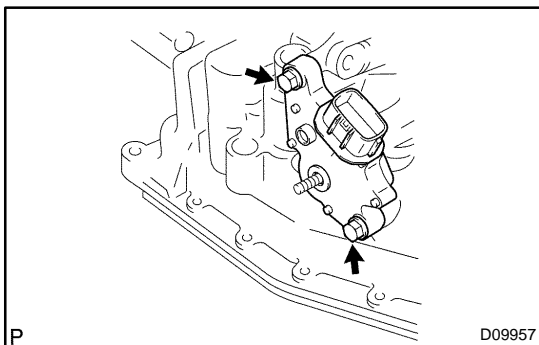
3. DISCONNECT FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT

- (a) Remove the nut from the control shaft lever.
 (b) Disconnect the control cable from the control shaft lever.
 (c) Remove the clip and disconnect the control cable from the control cable bracket.



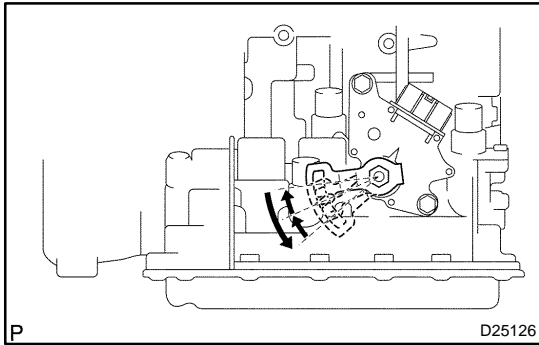
4. REMOVE PARK/NEUTRAL POSITION SWITCH ASSY

- (a) Disconnect the park/neutral position switch connector.
 (b) Remove the nut, washer and control shaft lever.
 (c) Pry out the lock plate and remove the manual valve shaft nut.
 (d) Remove the 2 bolts and pull out the park/neutral position switch.

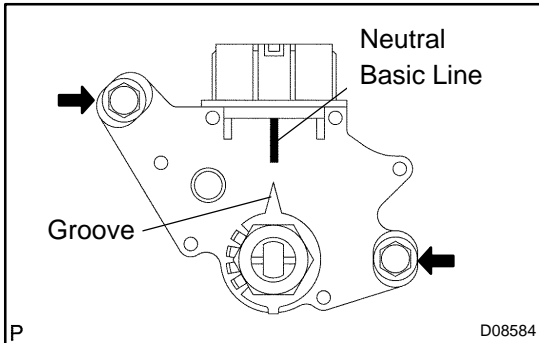


5. INSTALL PARK/NEUTRAL POSITION SWITCH ASSY

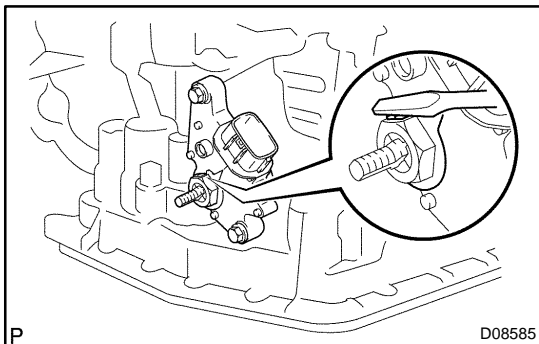
- (a) Install the park/neutral position switch to the manual valve shaft.
 (b) Temporarily install the 2 bolts.
 (c) Place a new lock plate and tighten the nut.
Torque: 5.5 N·m (56 kgf·cm, 49 in.-lbf)
 (d) Temporarily install the control shaft lever.



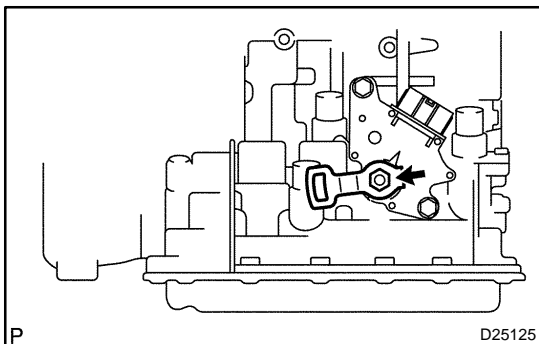
- (e) Turn the lever counterclockwise until it stops, then turn it clockwise 2 notches.
 (f) Remove the control shaft lever.



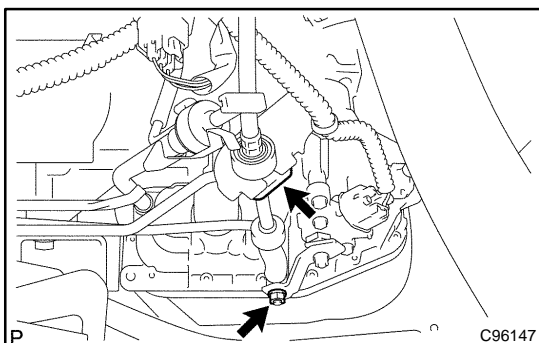
- (g) Align the groove with neutral basic line.
 (h) Hold the switch in position and tighten the 2 bolts.
Torque: 5.5 N·m (56 kgf·cm, 49 in.-lbf)



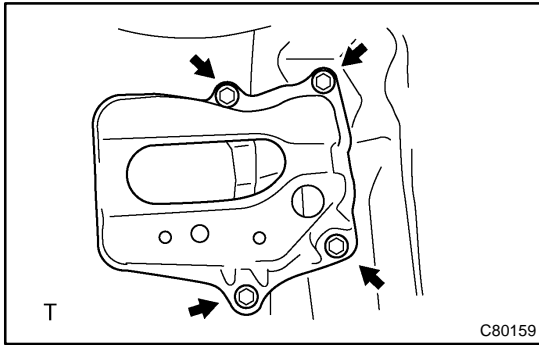
- (i) Using a screwdriver, stake the nut with the lock plate.



- (j) Install the control shaft lever, washer and nut.
Torque: 12.5 N·m (127 kgf·cm, 9 ft·lbf)
 (k) Connect the park/neutral position switch connector.



- 6. INSTALL FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT**
 (a) Temporarily install the control cable to the control shaft lever with nut.
 (b) Install the control cable and clip to the bracket.

**7. INSTALL BATTERY CARRIER**

(a) Install the battery carrier and 4 bolts.

Torque: 13 N·m (132 kgf·cm, 10 ft·lbf)

8. ADJUST SHIFT LEVER POSITION (See page 40-44)

9. INSPECT SHIFT LEVER POSITION (See page 40-44)

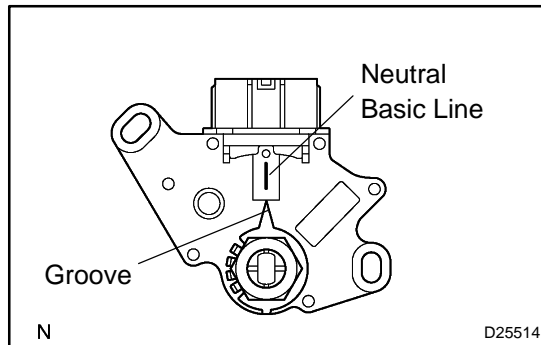
10. INSPECT PARK/NEUTRAL POSITION SWITCH ASSY (See page 40-6)

ADJUSTMENT

1. INSPECT PARK/NEUTRAL POSITION SWITCH ASSY

- (a) Apply the parking brake and turn the ignition switch ON.
- (b) Depress the brake pedal and check that the engine starts only when the shift lever is set in N or P position and it does not start in the other position.
- (c) Check that the back-up light comes on and the reverse warning buzzer sounds only when the shift lever is set in R position and these do not function in the other positions.

If a failure is found, check the park/ neutral position switch for continuity.

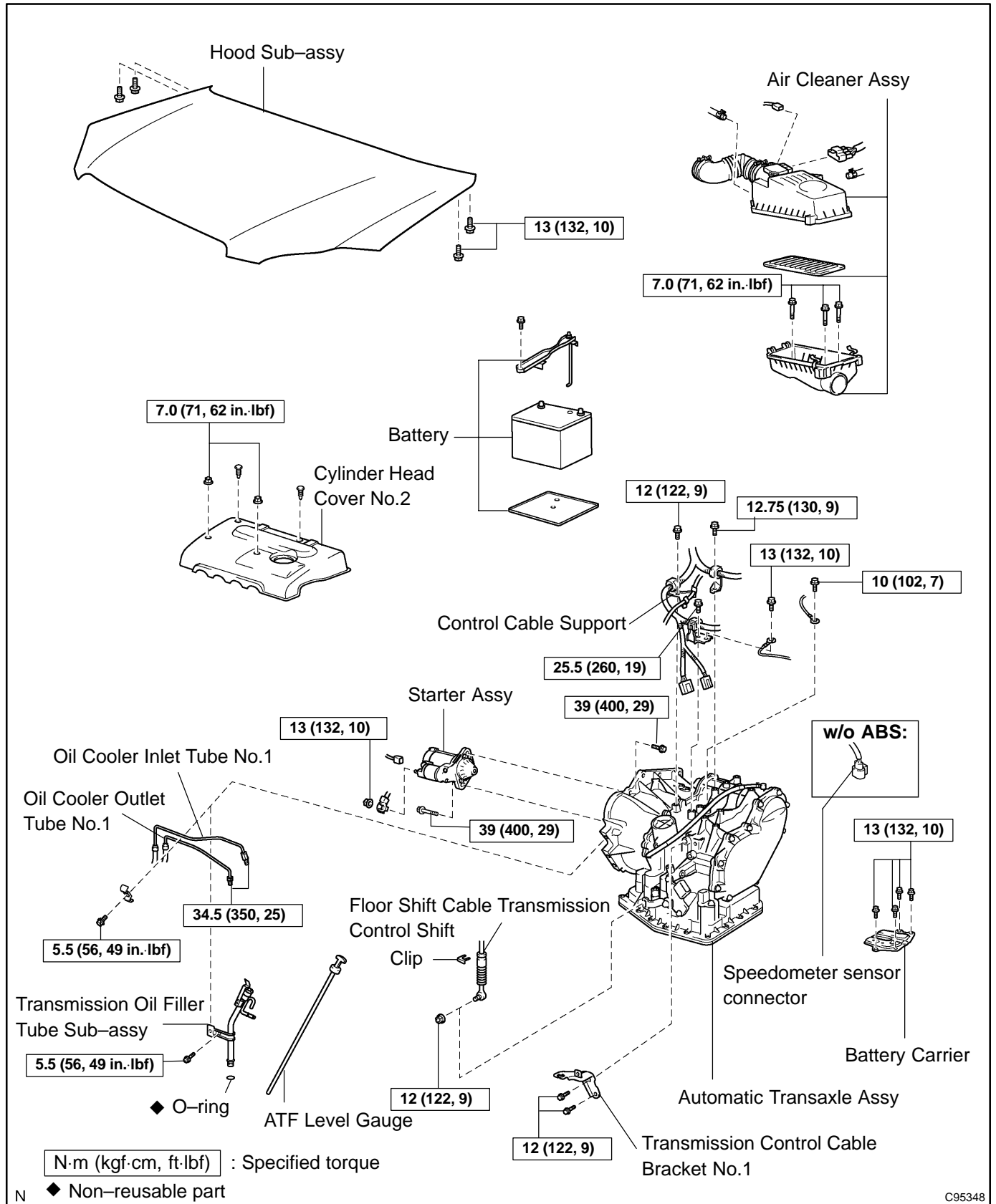


2. ADJUST PARK/NEUTRAL POSITION SWITCH ASSY

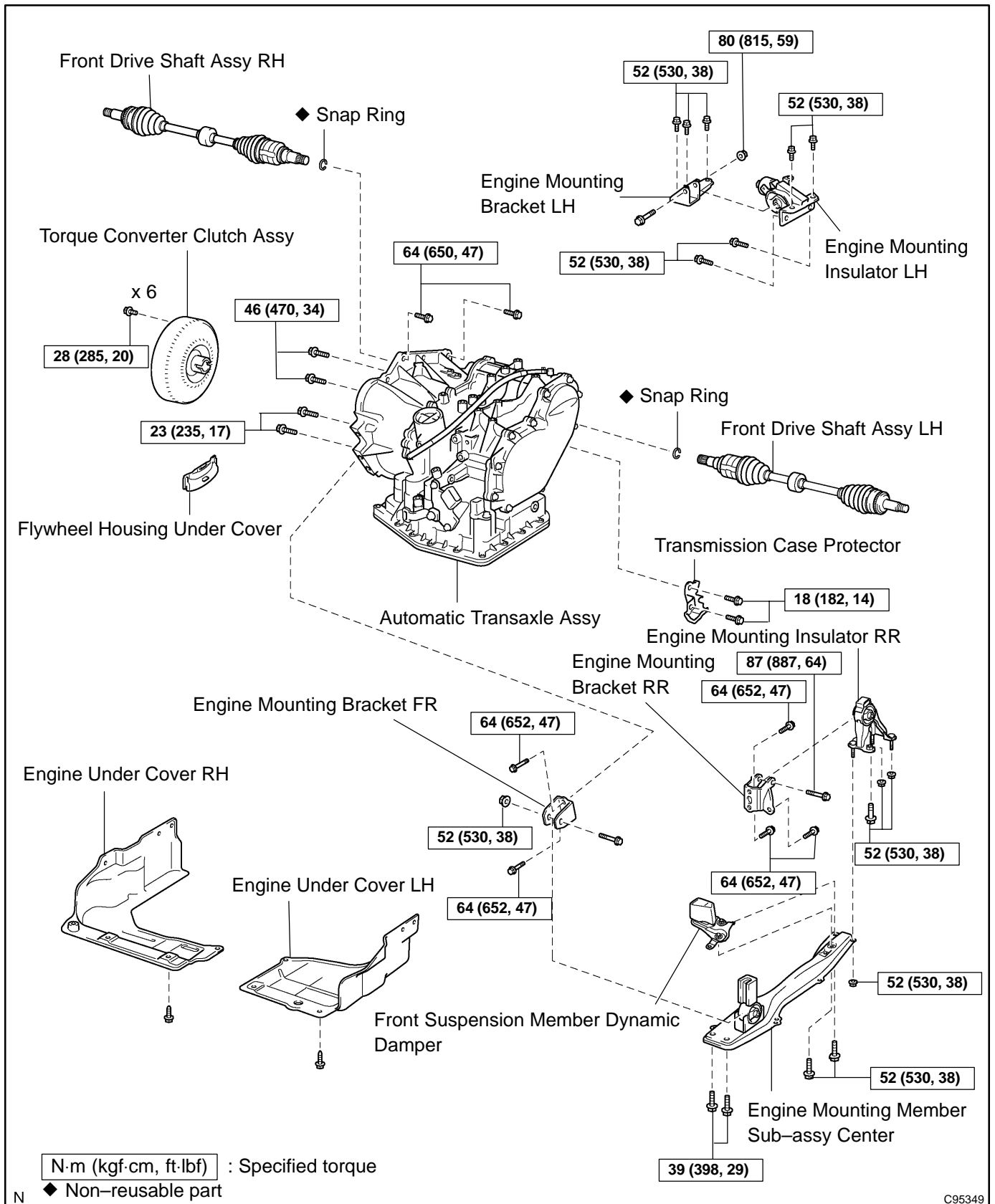
- (a) Loosen the 2 bolts of park/ neutral position switch and set the shift lever to the N position.
- (b) Align the groove and neutral basic line.
- (c) Hold the switch in position and tighten the 2 bolts.
Torque: 5.5 N·m (56 kgf·cm, 49 in.-lbf)
- (d) After adjustment, perform the inspection described in step 1.

AUTOMATIC TRANSAXLE ASSY (ATM) COMPONENTS

400LJ-01

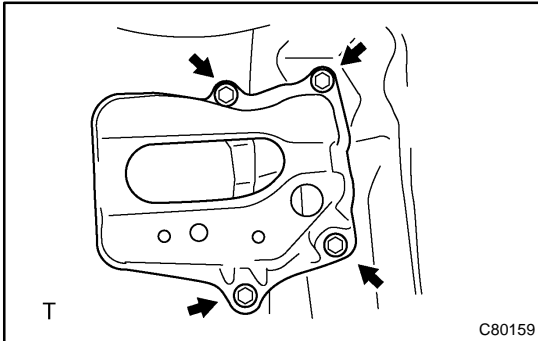


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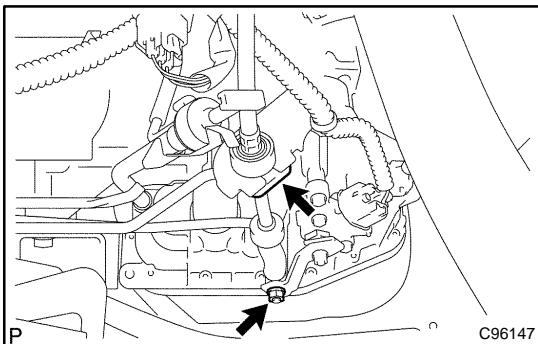
REPLACEMENT

1. REMOVE HOOD SUB-ASSY
2. REMOVE CYLINDER HEAD COVER NO.2
3. REMOVE BATTERY

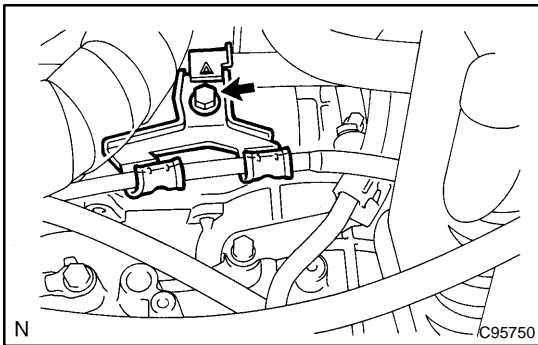


4. REMOVE BATTERY CARRIER
 - (a) Remove the 4 bolts and battery carrier.

5. REMOVE AIR CLEANER ASSEMBLY WITH HOSE

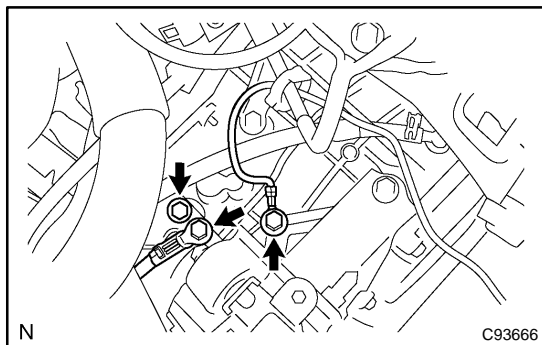


6. REMOVE FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT
 - (a) Remove the nut from the control shaft lever.
 - (b) Disconnect the control cable from the control shaft lever.
 - (c) Remove the clip and disconnect the control cable from the control cable bracket.

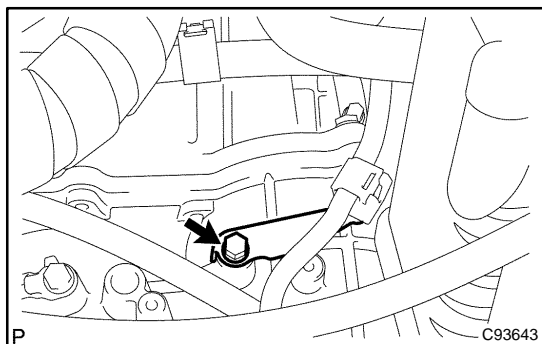


7. REMOVE TRANSMISSION CONTROL CABLE SUPPORT
 - (a) Disconnect the wire harness clamp and control cable from the control cable support.
 - (b) Remove the bolt and control cable support.

8. REMOVE TRANSMISSION CONTROL CABLE BRACKET NO.1
 - (a) Remove the 2 bolts and control cable bracket.

**9. DISCONNECT WIRE HARNESS**

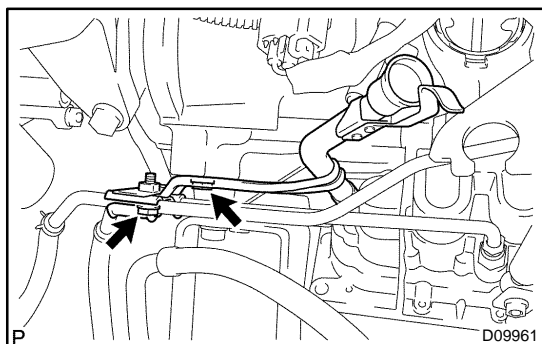
- (a) Remove the 2 bolts and disconnect the 2 wire harnesses.
- (b) Remove the bolt and disconnect the wire harness clamp bracket.



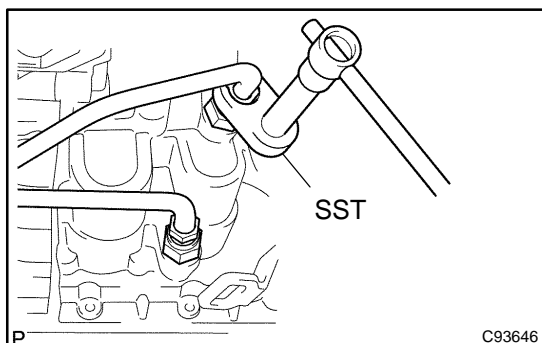
- (c) Remove the bolt and disconnect the wire harness clamp bracket.

10. DISCONNECT CONNECTOR

- (a) Disconnect the transmission wire connector.
- (b) Disconnect the park/neutral position switch connector.
- (c) w/o ABS:
Disconnect the speedometer sensor connector.

**11. REMOVE TRANSMISSION OIL FILLER TUBE SUB-ASSY**

- (a) Remove the ATF lever gauge.
- (b) Remove the 2 bolts, oil cooler tube clamp and oil filler tube.
- (c) Remove the O-ring from the oil filler tube.

**12. DISCONNECT OIL COOLER INLET TUBE NO.1**

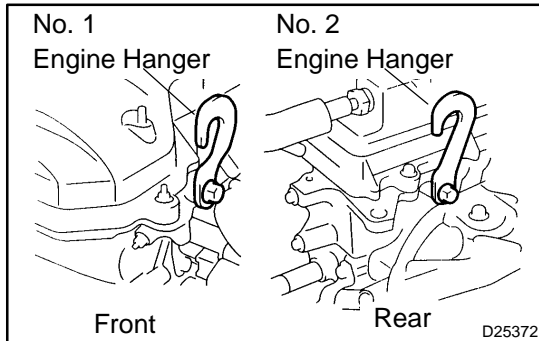
- (a) Using SST, disconnect the oil cooler inlet tube No. 1.
SST 09023-12700

13. DISCONNECT OIL COOLER OUTLET TUBE NO.1

- (a) Using SST, disconnect the oil cooler outlet tube No. 1.
SST 09023-12700

14. DISCONNECT OXYGEN SENSOR CONNECTOR

- (a) Remove the foot rest.
- (b) Pull up the floor carpet.
- (c) Disconnect the oxygen sensor connector.

**15. SUSPEND ENGINE ASSY**

- (a) Disconnect the 2 PCV hoses.
- (b) Install the No.1 and No.2 engine hangers in the correct direction.

Parts No.:**No.1 engine hanger: 12281-22021****No.2 engine hanger: 12281-15040****Bolt: 91512-B1016****Torque: 38 N·m (387 kgf·cm, 28 ft·lbf)**

- (c) Attach the engine chain hoist to the engine hangers.

CAUTION:

Do not attempt to hang the engine by hooking the chain to any other parts.

16. REMOVE FRONT WHEELS**17. REMOVE ENGINE UNDER COVER RH****18. REMOVE ENGINE UNDER COVER LH****19. DRAIN AUTOMATIC TRANSAXLE FLUID**

- (a) Remove the drain plug and gasket, and drain ATF.
- (b) Install a new gasket and drain plug.

Torque: 17.5 N·m (178 kgf·cm, 13 ft·lbf)**20. REMOVE EXHAUST PIPE ASSY FRONT (See page 15-2)****21. REMOVE FRONT DRIVE SHAFT ASSY RH (See page 30-6)**

SST 09520-01010, 09520-24010 (09520-32040)

22. REMOVE FRONT DRIVE SHAFT ASSY LH (See page 30-6)

SST 09520-01010, 09520-24010 (09520-32040)

23. REMOVE AUTOMATIC TRANSMISSION CASE PROTECTOR

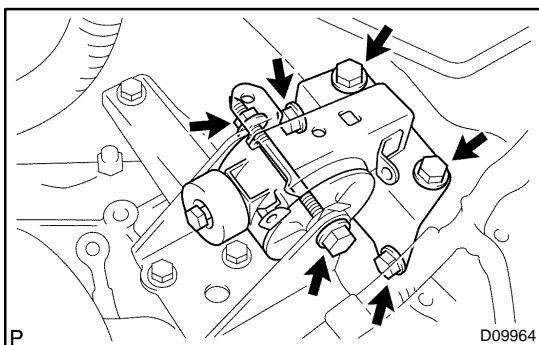
- (a) Remove the 2 bolts and case protector.

24. REMOVE STARTER ASSY

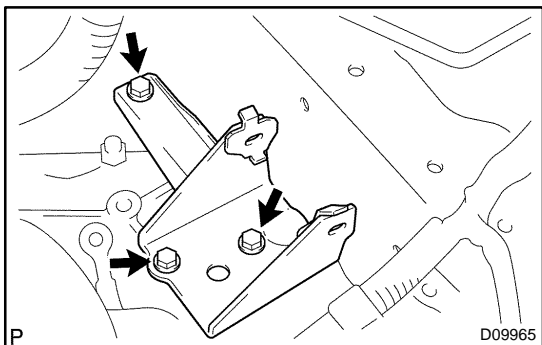
- (a) Remove the nut and disconnect the starter wire.
- (b) Disconnect the connector.
- (c) Remove the 2 bolts and starter.

25. SUPPORT AUTOMATIC TRANSAXLE ASSY

- (a) Support the automatic transaxle with a transmission jack.

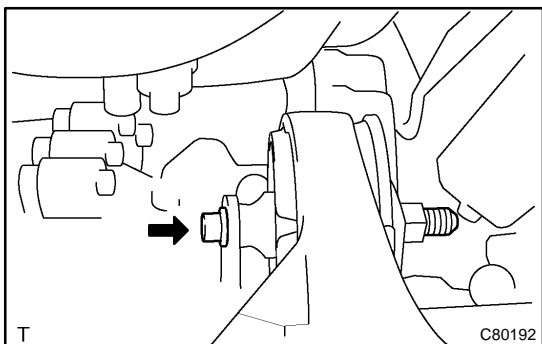
**26. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR**

- (a) Remove the 5 bolts, nut and engine mounting insulator LH.



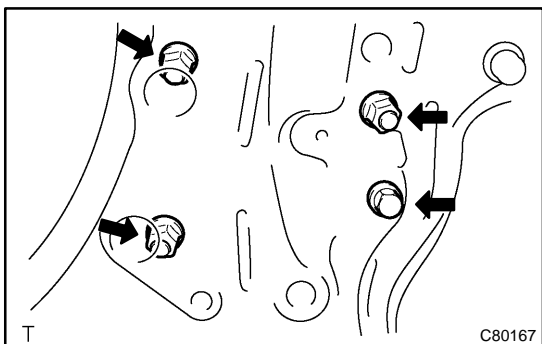
27. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

(a) Remove the 3 bolts and engine mounting bracket LH.

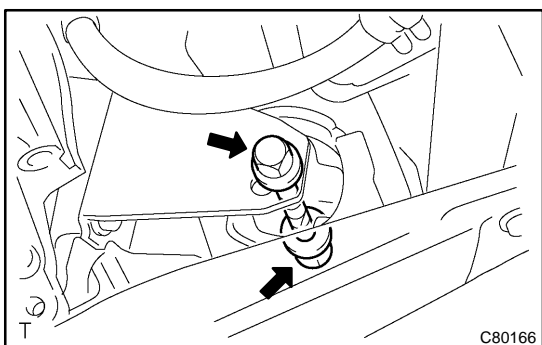


28. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

(a) Remove the bolt from the engine mounting bracket RR.

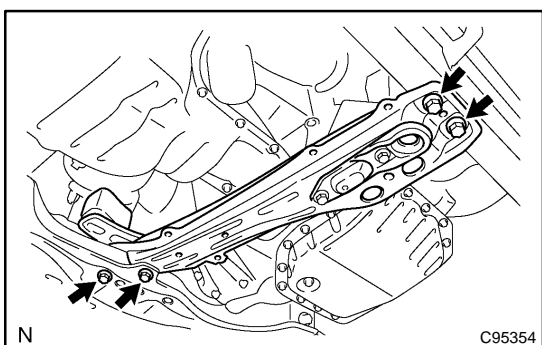


(b) Remove the 3 nuts, bolt and engine mounting insulator RR from the suspension member.



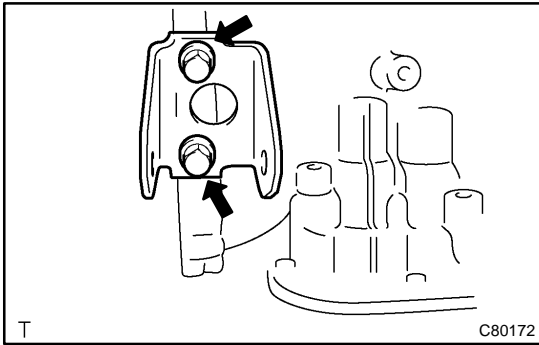
29. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

(a) Remove the bolt and nut from the engine mounting bracket FR.



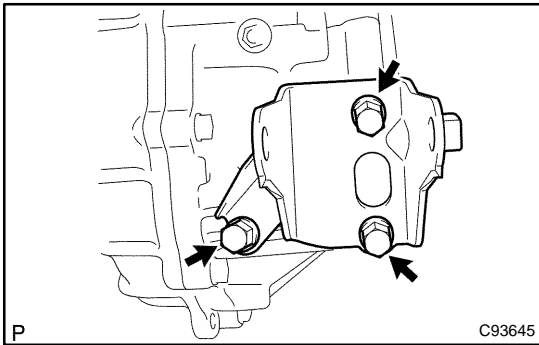
30. REMOVE ENGINE MOUNTING MEMBER SUB-ASSY CENTER

(a) Remove the 4 bolts, dynamic damper and member sub-assy center with engine mounting insulator FR.



31. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

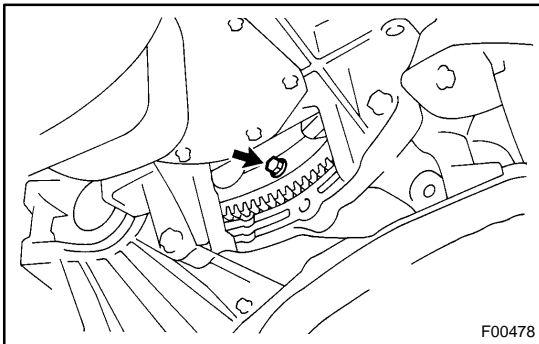
- (a) Remove the 2 bolts and engine mounting bracket FR.



32. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

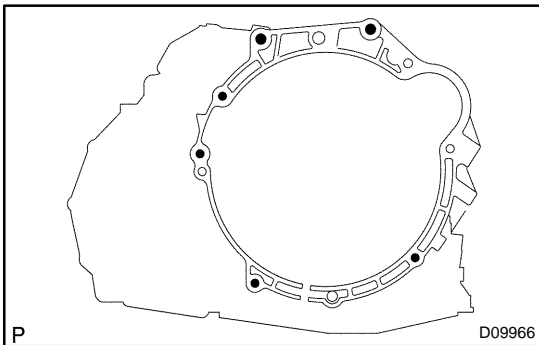
- (a) Remove the 3 bolts and engine mounting bracket RR.

33. REMOVE FLYWHEEL HOUSING UNDER COVER



34. REMOVE AUTOMATIC TRANSAXLE ASSY

- (a) Turn the crankshaft to gain access and remove the 6 bolts while holding the crankshaft pulley bolt with a wrench.



- (b) Remove the 6 bolts.
- (c) Separate and remove the automatic transaxle.

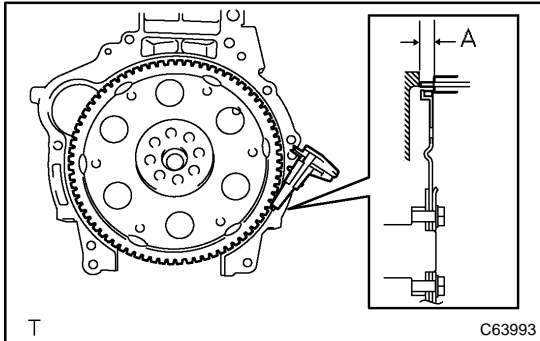
35. REMOVE TORQUE CONVERTER CLUTCH ASSY

36. INSPECT TORQUE CONVERTER CLUTCH ASSY (See page 40-20)

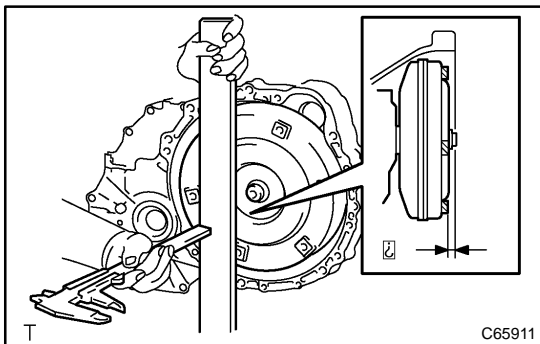
SST 09350-32014 (09351-32010, 09351-32020)

37. INSTALL TORQUE CONVERTER CLUTCH ASSY

- (a) Install the torque converter clutch to the automatic trans-axle.



- (b) Using vernier calipers, measure the dimension "A" between the transaxle fitting part and the converter fitting part of the drive plate.

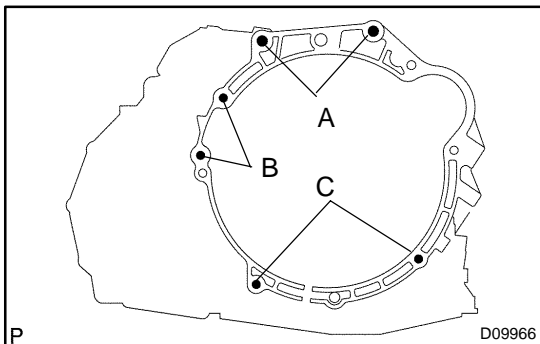


- (c) Using vernier calipers and a straight edge, measure the dimension "B" shown in the illustration and check that "B" is greater than "A" measured in (b).

Standard: A + 1 mm or more

NOTICE:

Do not add the thickness of straight edge.

**38. INSTALL AUTOMATIC TRANSAXLE ASSY**

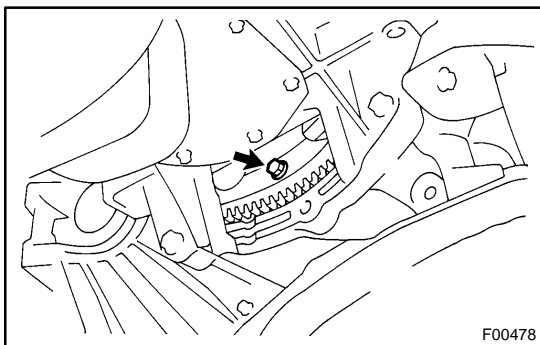
- (a) Install the automatic transaxle and 6 bolts to the engine.

Torque:

Bolt A: 64 N·m (650 kgf·cm, 47 ft·lbf)

Bolt B: 46 N·m (470 kgf·cm, 34 ft·lbf)

Bolt C: 23 N·m (235 kgf·cm, 17 ft·lbf)



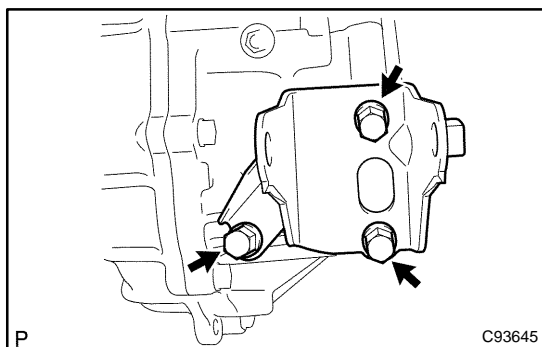
- (b) Install the 6 torque converter mounting bolts.

Torque: 28 N·m (285 kgf·cm, 20 ft·lbf)

HINT:

First install yellowish green colored bolt and then the 5 bolts.

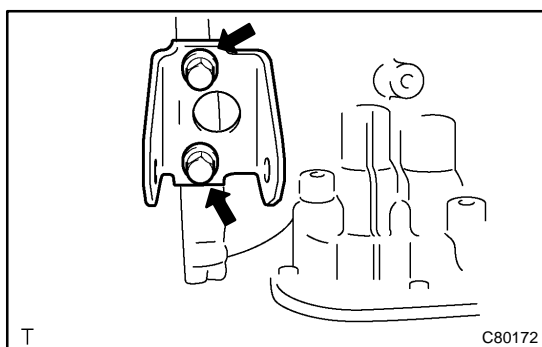
39. INSTALL FLYWHEEL HOUSING UNDER COVER



40. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

- (a) Install the engine mounting bracket RR and 3 bolts to the automatic transaxle.

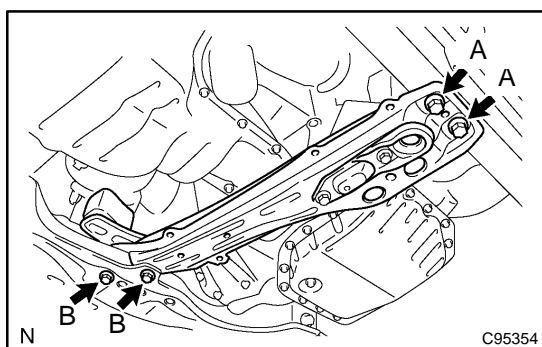
Torque: 64 N·m (652 kgf·cm, 47 ft·lbf)



41. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

- (a) Install the engine mounting bracket FR and 2 bolts to the automatic transaxle.

Torque: 64 N·m (652 kgf·cm, 47 ft·lbf)



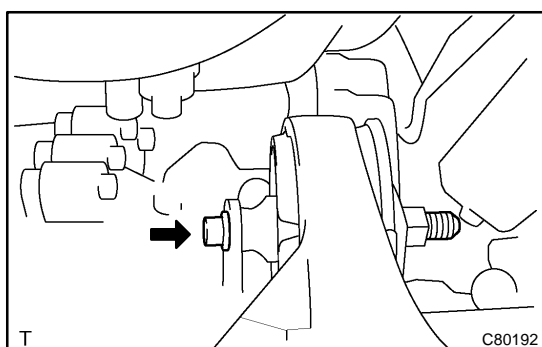
42. INSTALL ENGINE MOUNTING MEMBER SUB-ASSY CENTER

- (a) Install the dynamic damper, member sub-assy center with engine mounting insulator FR and 4 bolts.

Torque:

Bolt A: 39 N·m (398 kgf·cm, 29 ft·lbf)

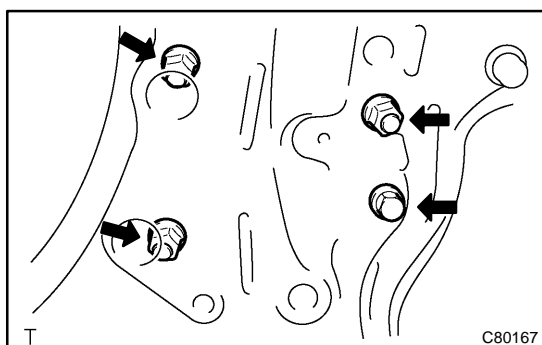
Bolt B: 52 N·m (530 kgf·cm, 38 ft·lbf)



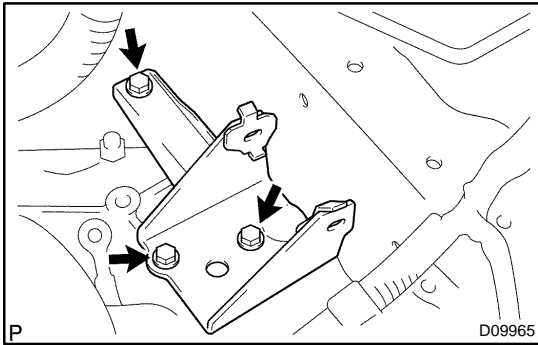
43. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

- (a) Install the engine mounting insulator RR and bolt to the engine mounting bracket RR.

Torque: 87 N·m (887 kgf·cm, 64 ft·lbf)



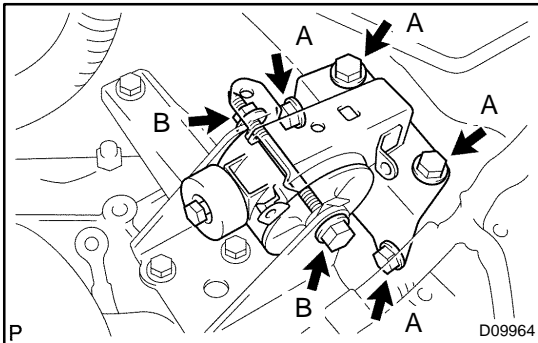
- (b) Tighten the 3 nuts and bolt.
Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)



44. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

- (a) Install the engine mounting bracket LH and 3 bolts to the automatic transaxle.

Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)



45. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

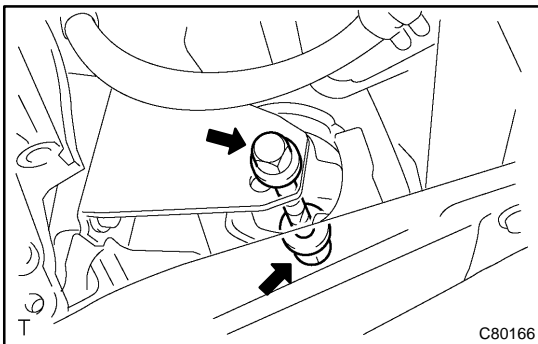
- (a) Install the engine mounting insulator LH, 5 bolts and nut.

Torque:

Bolt A: 52 N·m (530 kgf·cm, 38 ft·lbf)

Bolt B: 80 N·m (815 kgf·cm, 59 ft·lbf)

Nut B: 80 N·m (815 kgf·cm, 59 ft·lbf)



46. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

- (a) Install the bolt and nut to the engine mounting bracket FR.

Torque: 52 N·m (530 kgf·cm, 38 ft·lbf)

47. INSTALL STARTER ASSY

- (a) Install the starter and 2 bolts.

Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

- (b) Connect the connector.

- (c) Install the starter wire and nut.

Torque: 13 N·m (132 kgf·cm, 10 ft·lbf)

48. INSTALL AUTOMATIC TRANSMISSION CASE PROTECTOR

- (a) Install the case protector with the 2 bolts.

Torque: 18 N·m (182 kgf·cm, 14 ft·lbf)

49. INSTALL FRONT DRIVE SHAFT ASSY LH (See page 30-6)

50. INSTALL FRONT DRIVE SHAFT ASSY RH (See page 30-6)

51. INSTALL EXHAUST PIPE ASSY FRONT (See page 15-2)

52. INSTALL ENGINE UNDER COVER LH

53. INSTALL ENGINE UNDER COVER RH

54. INSTALL FRONT WHEELS

Torque: 103 N·m (1,050 kgf·cm, 76 ft·lbf)

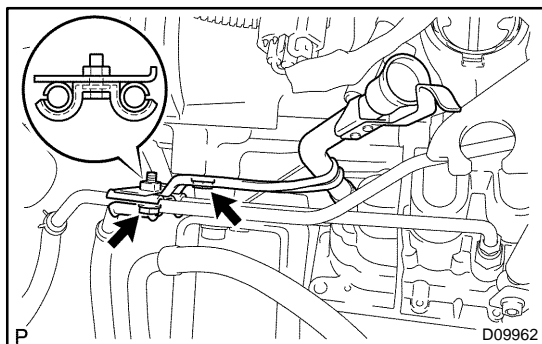
55. INSTALL OXYGEN SENSOR CONNECTOR

- (a) Connect the oxygen sensor connector.

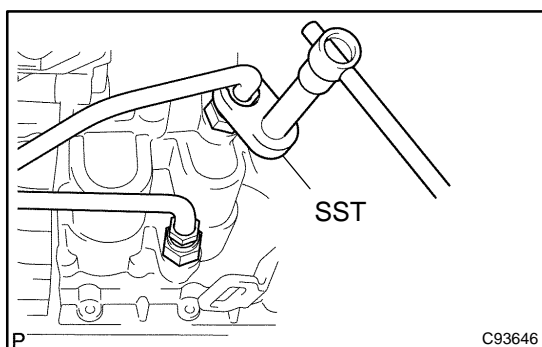
- (b) Install the floor carpet and foot rest.

56. INSTALL TRANSMISSION OIL FILLER TUBE SUB-ASSY

- (a) Temporarily install the oil cooler outlet tube No. 1.
- (b) Temporarily install the oil cooler inlet tube No. 1.
- (c) Coat a new O-ring with ATF, and install them to the oil filler tube.
- (d) Install the oil filler tube to the automatic transaxle.



- (e) Install the oil cooler tube clamp and 2 bolts.
Torque: 5.5 N·m (56 kgf·cm, 49 in·lbf)
- (f) Install the ATF lever gauge.

**57. INSTALL OIL COOLER INLET TUBE NO.1**

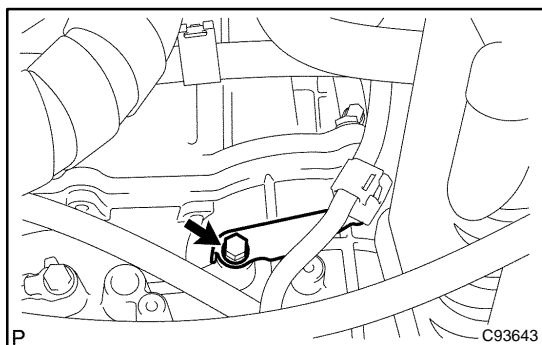
- (a) Using SST, tighten the oil cooler inlet tube No. 1.
SST 09023-12700
Torque: 34.5 N·m (350 kgf·cm, 25 ft·lbf)

58. INSTALL OIL COOLER OUTLET TUBE NO.1

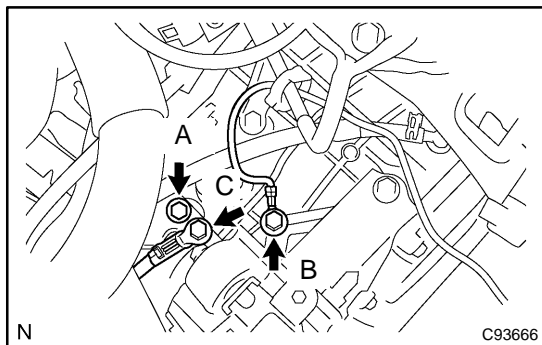
- (a) Using SST, tighten the oil cooler outlet tube No. 1.
SST 09023-12700
Torque: 34.5 N·m (350 kgf·cm, 25 ft·lbf)

59. CONNECT CONNECTOR

- (a) Connect the transmission wire connector.
- (b) Connect the park/neutral position switch connector.
- (c) w/o ABS:
Connect the speedometer sensor connector.

**60. INSTALL WIRE HARNESS**

- (a) Install the wire harness clamp bracket and bolt.
Torque: 12.75 N·m (130 kgf·cm, 9 ft·lbf)



- (b) Install the wire harness clamp bracket and 2 wire harnesses with the 3 bolts.

Torque:

Bolt A: 25.5 N·m (260 kgf·cm, 19 ft·lbf)

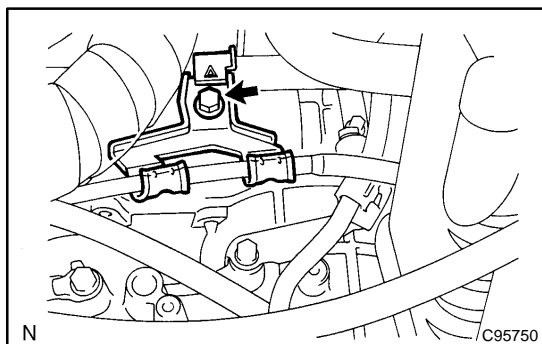
Bolt B: 10 N·m (102 kgf·cm, 7 ft·lbf)

Bolt C: 13 N·m (132 kgf·cm, 10 ft·lbf)

61. INSTALL TRANSMISSION CONTROL CABLE BRACKET NO.1

- (a) Install the control cable bracket and 2 bolts.

Torque: 12 N·m (122 kgf·cm, 9 ft·lbf)

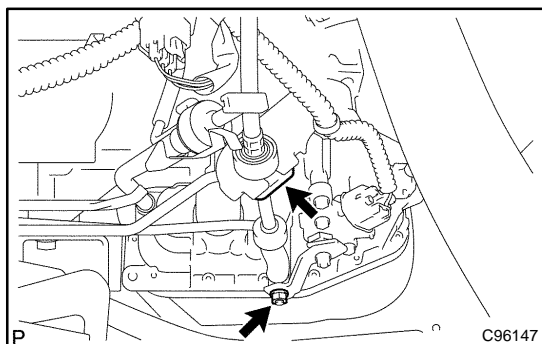


62. INSTALL TRANSMISSION CONTROL CABLE SUPPORT

- (a) Install the control cable support and bolt.

Torque: 12 N·m (122 kgf·cm, 9 ft·lbf)

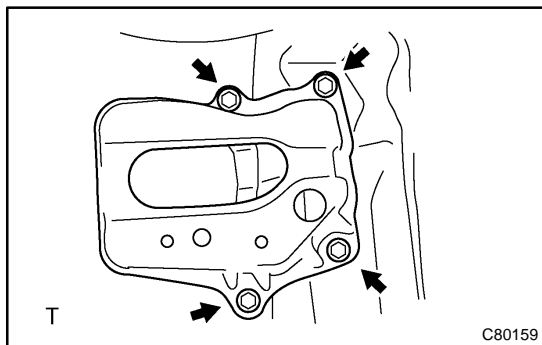
- (b) Connect the control cable and wire harness to the control cable support.



63. INSTALL FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT

- (a) Temporarily install the control cable to the control shaft lever with the nut.

- (b) Install the control cable and clip to the bracket.



64. INSTALL BATTERY CARRIER

- (a) Install the battery carrier and 4 bolts.

Torque: 13 N·m (132 kgf·cm, 10 ft·lbf)

65. INSTALL AIR CLEANER ASSEMBLY WITH HOSE

Torque: 7.0 N·m (71 kgf·cm, 62 in·lbf)

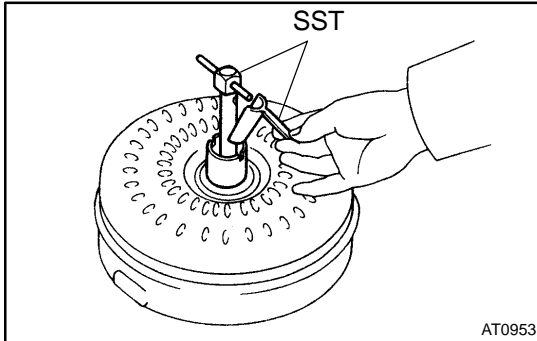
66. INSTALL CYLINDER HEAD COVER NO.2

Torque: 7.0 N·m (71 kgf·cm, 62 in·lbf)

67. **INSTALL HOOD SUB-ASSY**
Torque: 13 N·m (130 kgf·cm, 10 ft·lbf)
68. **INSPECT HOOD SUB-ASSY (See page 75-1)**
69. **ADJUST HOOD SUB-ASSY (See page 75-1)**
70. **ADD AUTOMATIC TRANSAXLE FLUID**
71. **INSPECT AUTOMATIC TRANSAXLE FLUID (See page 40-2)**
72. **ADJUST SHIFT LEVER POSITION (See page 40-44)**
73. **INSPECT SHIFT LEVER POSITION (See page 40-44)**
74. **INSPECT FRONT WHEEL ALIGNMENT (See page 26-5)**
75. **CHECK ABS SPEED SENSOR SIGNAL (W/ ABS) (See page 05-297)**

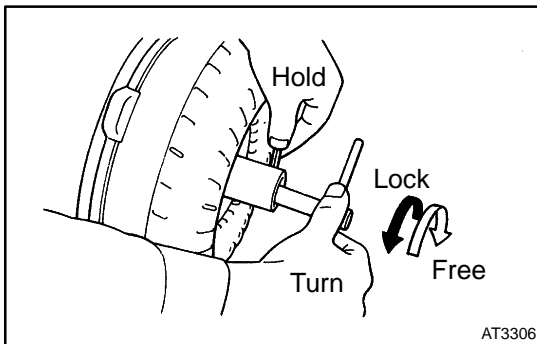
TORQUE CONVERTER CLUTCH AND DRIVE PLATE (ATM) INSPECTION

400LL-01



1. INSPECT TORQUE CONVERTER CLUTCH ASSY

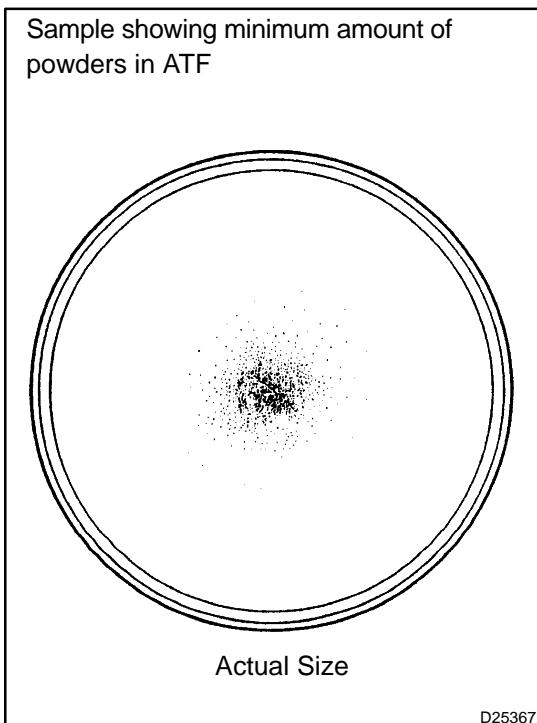
- (a) Inspect the one-way clutch.
- (1) Set SST into the inner race of the one-way clutch.
SST 09350-32014 (09351-32010)
 - (2) Set SST so that it fits in the notch of the converter hub and outer race of the one-way clutch.
SST 09350-32014 (09351-32020)



- (3) With the torque converter clutch setting up on its side, check that the one-way clutch locks when it is turned counterclockwise, and rotates smoothly clockwise.

If necessary, clean the torque converter clutch and retest the one-way clutch.

Replace the torque converter clutch if the one-way clutch still fails the test.



- (b) Determine the condition of the torque converter clutch assy.

- (1) If the inspection result of the torque converter clutch assy meets the following item, replace the torque converter clutch.

Malfunction item:

Any metallic sound is heard from the torque converter clutch during stall test or when the shift lever is in neutral position.

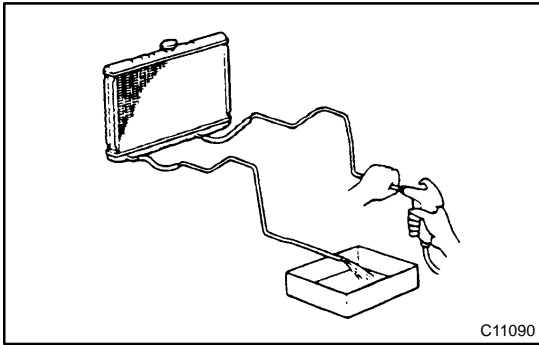
One-way clutch is free or locked in both directions.

Fine powders exceeding the sample limit is identified in ATF. (See the sample.)

HINT:

The sample shows the auto fluid of approx. 0.25 liters (0.26 US qts, 0.22 Imp. qts) that is taken out from the removed torque converter clutch

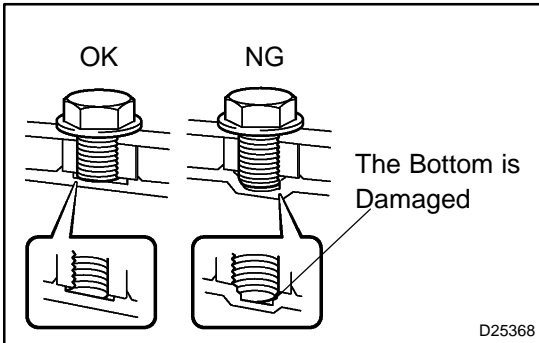
- (c) Replace the ATF in the torque converter clutch.
- (1) If the ATF is discolored and/or has a foul odor, completely stir the ATF in the torque converter clutch and drain it with the face for installation facing up.



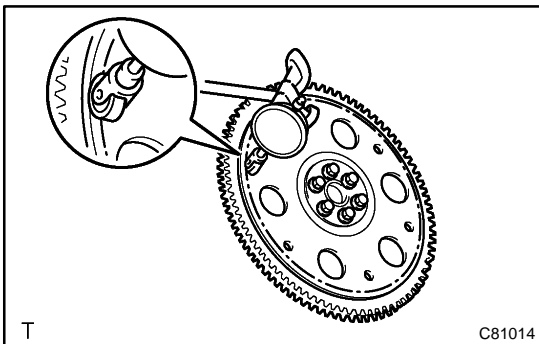
- (d) Clean and check the oil cooler and oil pipe line.
 (1) If the torque converter clutch is inspected or the ATF is exchanged, clean the oil cooler and oil pipe line.

HINT:

- Spray compressed air of 196 kPa (2 kgf/cm², 28 psi) from the inlet hose.
 - If plenty of fine powders are identified in the ATF, add new ATF using a bucket pump and clean it again.
- (2) If the ATF is cloudy, inspect the oil cooler.



- (e) Prevent deformation of the torque converter clutch and damage to the oil pump gear.
 (1) When any marks due to interference are found on the end of the bolt for the torque converter clutch and on the bottom of the bolt hole, replace the bolt and the torque converter clutch.
 (2) All of the bolts should have the same length.
 (3) No missing spring washer.



2. INSPECT DRIVE PLATE & RING GEAR SUB-ASSY

- (a) Set up a dial indicator and measure the drive plate runout.
 (b) Check the damage of the ring gear.

Maximum runout: 0.20 mm (0.0079 in.)

If the runout is not within the specification or ring gear is damaged, replace the drive plate.

SPEEDOMETER SENSOR (ATM)

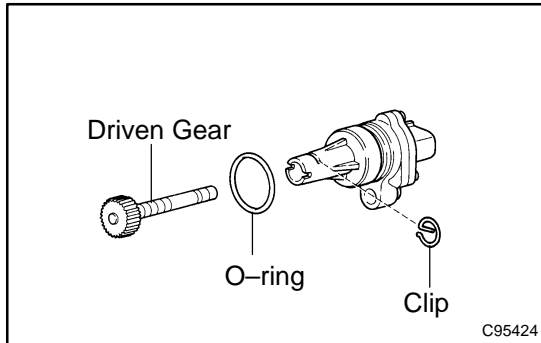
400LM-01

REPLACEMENT

1. REMOVE AIR CLEANER CASE
2. REMOVE AIR CLEANER HOSE NO.1

3. REMOVE SPEEDOMETER SENSOR

- (a) Disconnect the connector.
- (b) Remove the bolt and speedometer sensor assembly.



- (c) Remove the clip and driven gear from the speedometer sensor.

4. INSTALL SPEEDOMETER SENSOR

- (a) Coat a O-ring with ATF and install it to the speedometer sensor.
- (b) Install the driven gear to the speedometer sensor with the clip.
- (c) Install the speedometer sensor assembly with the bolt.
Torque: 11.3 N·m (115 kgf·cm, 9 ft·lbf)
- (d) Connect the connector.

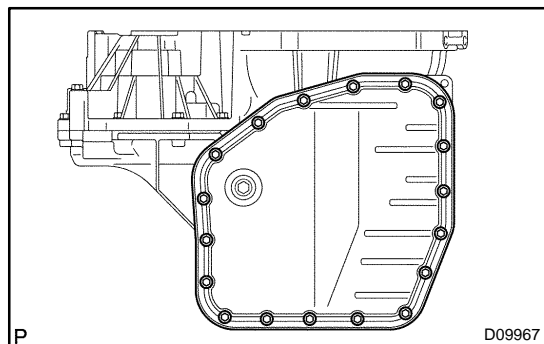
5. INSTALL AIR CLEANER HOSE NO.1
6. INSTALL AIR CLEANER CASE
Torque: 7.0 N·m (71 kgf·cm, 62 in·lbf)

TRANSMISSION VALVE BODY ASSY (ATM)

400LN-01

REPLACEMENT

1. REMOVE ENGINE UNDER COVER LH
 2. DRAIN AUTOMATIC TRANSAXLE FLUID
 - (a) Remove the drain plug, gasket and drain ATF.
 - (b) Install a new gasket and drain plug.
- Torque: 17.5 N·m (178 kgf·cm, 13 ft·lbf)**



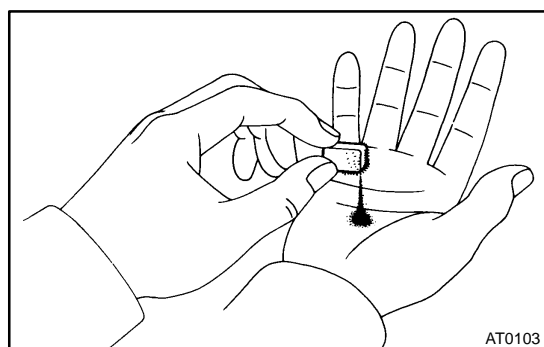
3. REMOVE AUTOMATIC TRANSAXLE OIL PAN SUB-ASSY

- (a) Remove the 18 bolts, oil pan and gasket.

NOTICE:

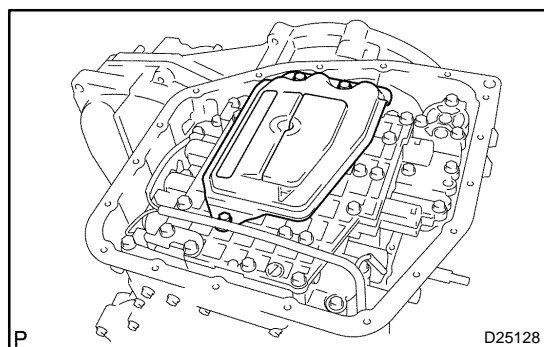
Some fluid will remain in the oil pan. Remove all pan bolts, and carefully remove the oil pan assembly. Discard the gasket.

- (b) Remove the 2 magnets from oil pan.



- (c) Examine particles in pan.

- (1) Remove the magnets and use them to collect any steel chips. Look carefully at the chips and particles in the pan and the magnet to anticipate what type of wear you will find in the transaxle.
Steel (magnetic): bearing, gear and plate wear
Brass (non-magnetic): bearing wear

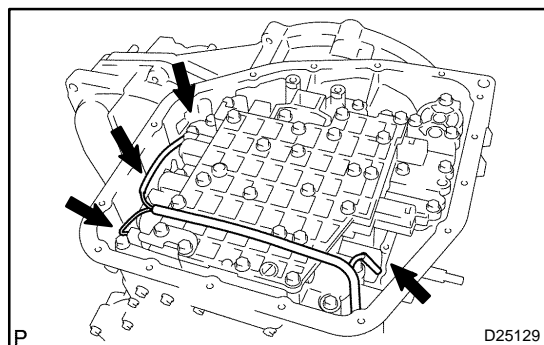


4. REMOVE VALVE BODY OIL STRAINER ASSY

- (a) Remove the 3 bolts and oil strainer.

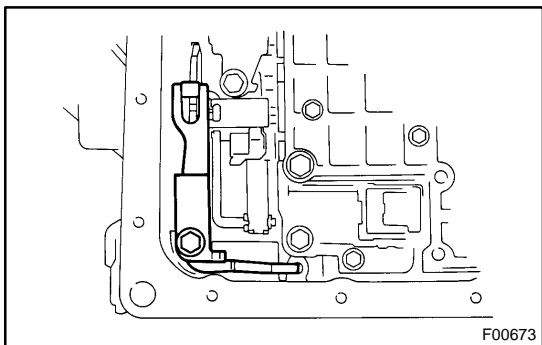
NOTICE:

Be careful as some fluid will come out with the oil strainer.

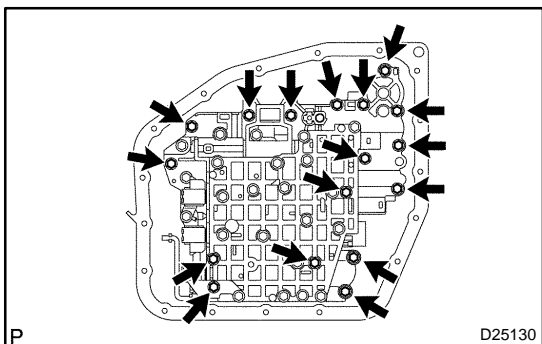


5. REMOVE TRANSMISSION VALVE BODY ASSY

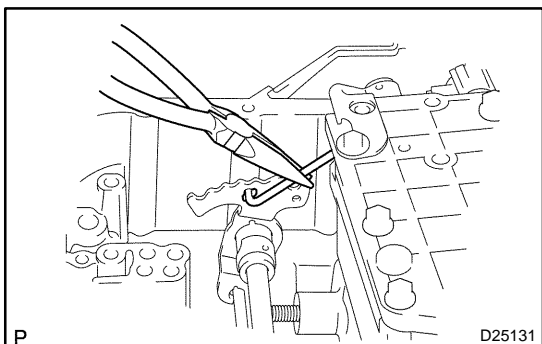
- (a) Disconnect the 4 solenoid connectors.



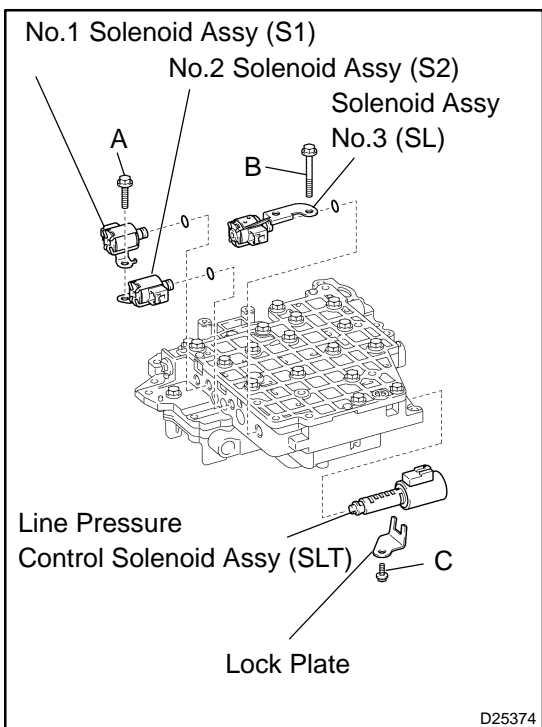
(b) Remove the bolt and manual detent spring.



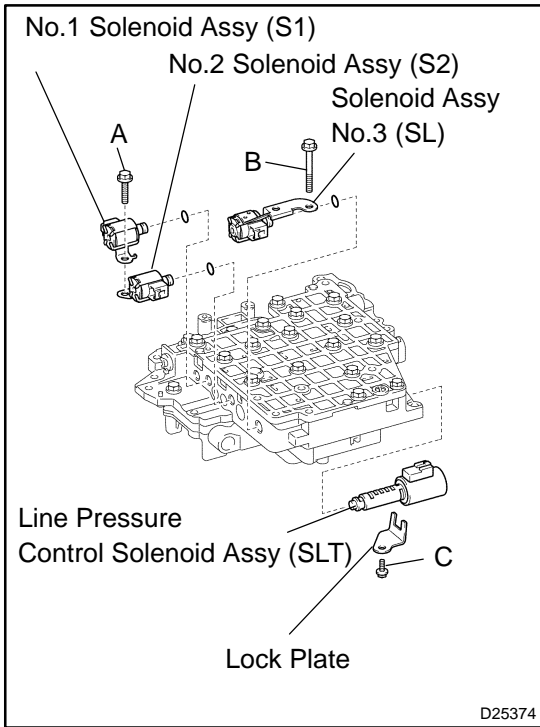
(c) Remove the 17 bolts.



(d) While disconnecting the manual valve connecting rod from the manual valve lever, remove the valve body with the manual valve together.



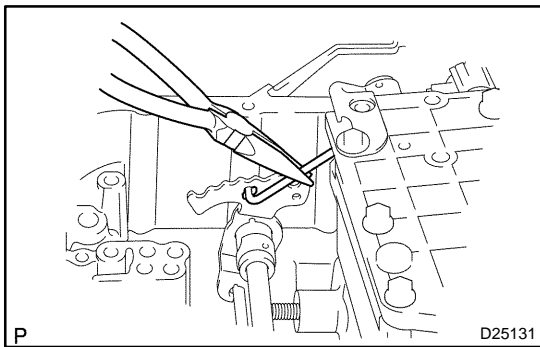
(e) Remove the 2 bolts and 3 solenoid valves.
 (f) Remove the 3 O-rings from each of the solenoid valves.
 (g) Remove the bolt, lock plate and line pressure control valve.



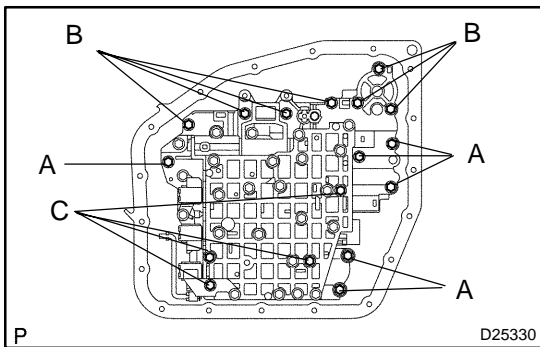
- 6. INSTALL TRANSMISSION VALVE BODY ASSY**
- (a) Coat 3 new O-rings with ATF and install them to each solenoid valves.
 - (b) Install the No.1 and No.2 solenoid valves with the bolt.
 - (c) Install the No.3 solenoid valve with the bolt.
 - (d) Install the line pressure control solenoid valve and lock plate with the bolt.

Torque:

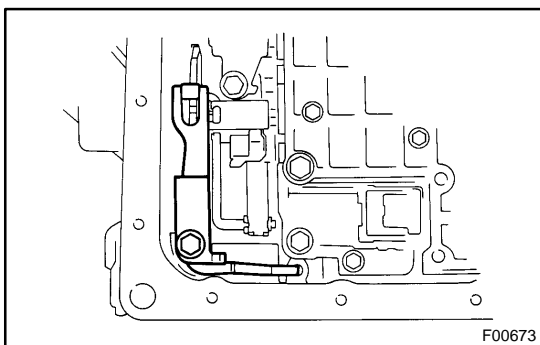
- Bolt A: 11 N·m (110 kgf-cm, 8 ft-lbf)**
 - Bolt B: 11 N·m (110 kgf-cm, 8 ft-lbf)**
 - Bolt C: 6.5 N·m (66 kgf-cm, 58 in.-lbf)**
- Bolt length:**
- Bolt A: 25 mm (0.984 in.)**
 - Bolt B: 60 mm (2.362 in.)**
 - Bolt C: 12 mm (0.472 in.)**



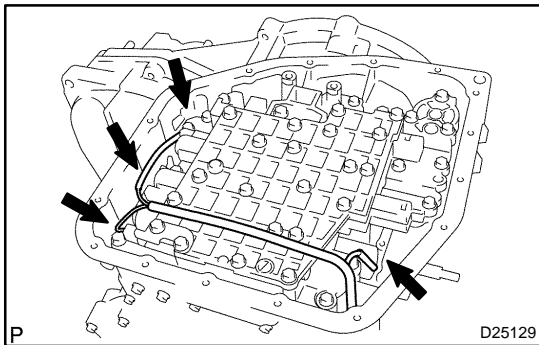
- (e) While connecting the manual valve connecting rod to the manual valve lever, install the valve body with the manual valve together.



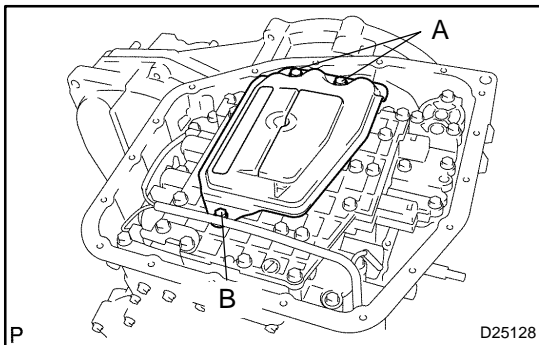
- (f) Install the 17 bolts.
- Bolt length:**
- Bolt A: 20 mm (0.79 in.)**
 - Bolt B: 28 mm (1.10 in.)**
 - Bolt C: 50 mm (1.97 in.)**
- Torque: 10 N·m (100 kgf-cm, 7 ft-lbf)**



- (g) Install the manual detent spring and bolt.
- Torque: 10 N·m (100 kgf-cm, 7 ft-lbf)**



- (h) Connect the 4 solenoid connectors.



7. INSTALL VALVE BODY OIL STRAINER ASSY

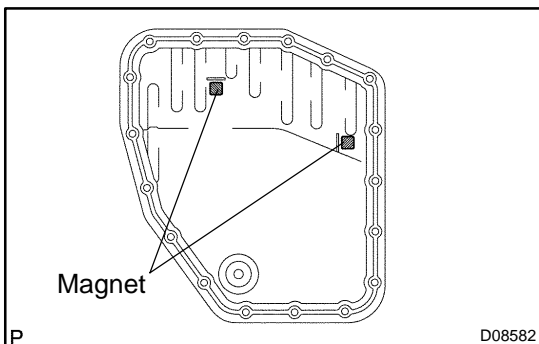
- (a) Install the oil strainer with the 3 bolts.

Bolt length:

A bolt: 12 mm (0.47 in.)

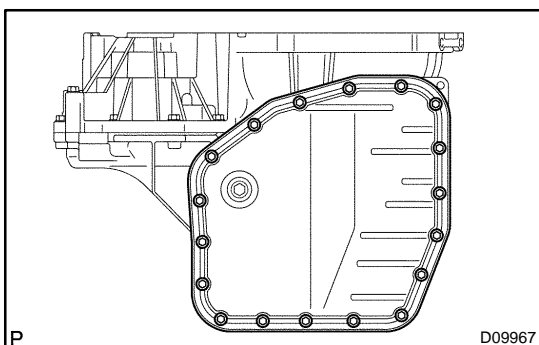
B bolt: 20 mm (0.79 in.)

Torque: 10 N·m (100 kgf·cm, 7 ft·lbf)



8. INSTALL AUTOMATIC TRANSAXLE OIL PAN SUB-ASSY

- (a) Install the 2 magnets to the oil pan.



- (b) Install a new gasket to the oil pan and install them to the transaxle.

- (c) Install the 18 bolts.

Torque: 5.3 N·m (55 kgf·cm, 48 in·lbf)

9. INSTALL ENGINE UNDER COVER LH

10. ADD AUTOMATIC TRANSAXLE FLUID

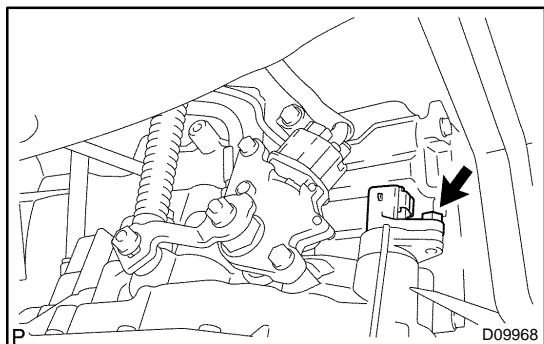
11. INSPECT AUTOMATIC TRANSAXLE FLUID (See page 40-2)

TRANSMISSION WIRE (ATM)

REPLACEMENT

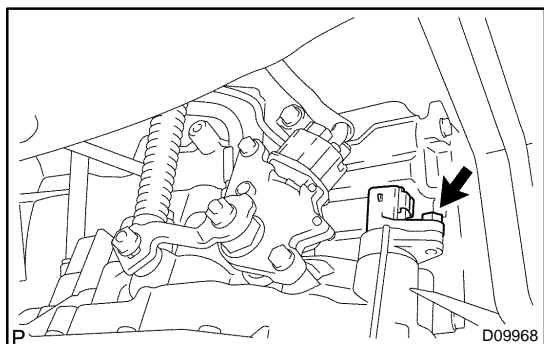
400LO-01

1. REMOVE TRANSMISSION VALVE BODY ASSY (See page 40-23)



2. REMOVE TRANSMISSION WIRE

- (a) Disconnect the transmission wire connector.
- (b) Removal the bolt and transmission wire.



3. INSTALL TRANSMISSION WIRE

- (a) Coat a O-ring with ATF.
- (b) Install the transmission wire and bolt.
Torque: 5.4 N·m (55 kgf·cm, 48 in·lbf)
- (c) Connect the transmission wire connector.

4. INSTALL TRANSMISSION VALVE BODY ASSY (See page 40-23)

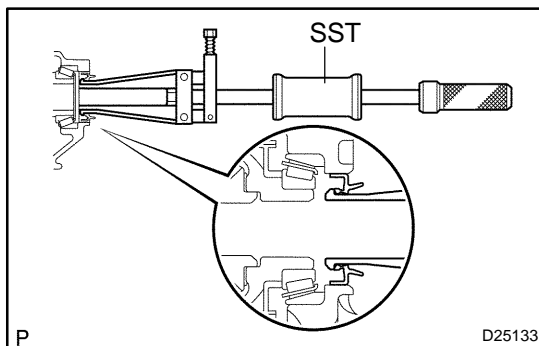
FRONT DIFFERENTIAL OIL SEAL (ATM)

400LP-02

REPLACEMENT

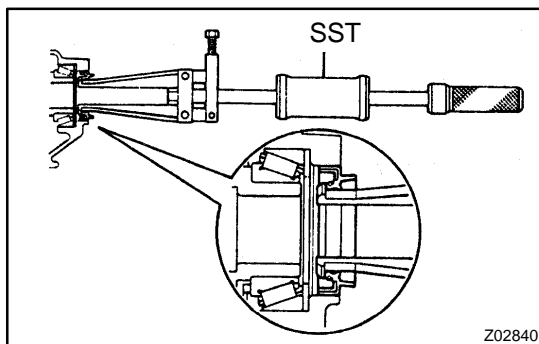
1. REMOVE FRONT WHEELS
2. REMOVE ENGINE UNDER COVER RH
3. REMOVE ENGINE UNDER COVER LH
4. DRAIN AUTOMATIC TRANSAXLE FLUID
 - (a) Remove the drain plug, gasket and drain ATF.
 - (b) Install a new gasket and drain plug.

Torque: 17.5 N·m (178 kgf·cm, 13 ft·lbf)
5. REMOVE FRONT DRIVE SHAFT ASSY RH (See page 30-6)
6. REMOVE FRONT DRIVE SHAFT ASSY LH (See page 30-6)



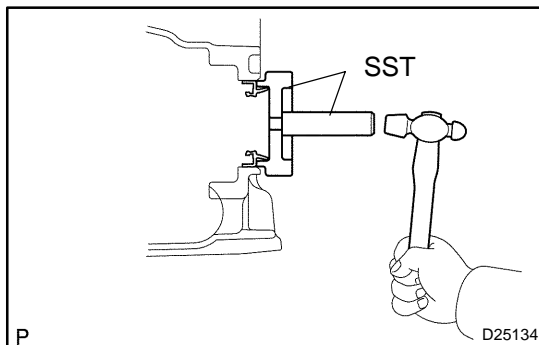
7. REMOVE TRANSAXLE HOUSING OIL SEAL(RH)

- (a) Using SST, pull out the oil seal.
SST 09308-00010



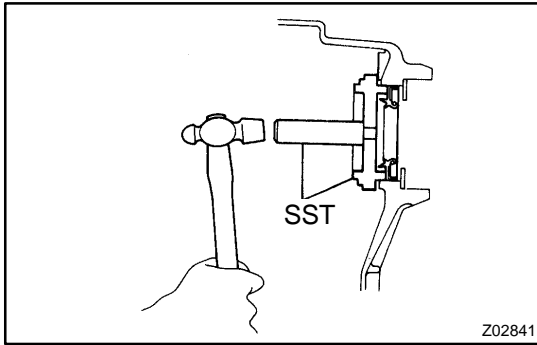
8. REMOVE TRANSAXLE CASE OIL SEAL(LH)

- (a) Using SST, pull out the oil seal.
SST 09308-00010



9. INSTALL TRANSAXLE HOUSING OIL SEAL(RH)

- (a) Using SST and a hammer, drive in a new oil seal.
SST 09350-32014 (09351-32130, 09351-32150)
Oil seal drive in depth:
2.0 ± 0.5 mm (0.079 ± 0.020 in.)
- (b) Coat the lip of the oil seal with MP grease.

**10. INSTALL TRANSAXLE CASE OIL SEAL(LH)**

- (a) Using SST and a hammer, drive in a new oil seal.
SST 09350-32014 (09351-32111, 09351-32130)

Oil seal drive in depth:

5.3 ± 0.5 mm (0.209 ± 0.020 in.)

- (b) Coat the lip of the oil seal with MP grease.

11. **INSTALL FRONT DRIVE SHAFT ASSY LH (See page 30-6)**
12. **INSTALL FRONT DRIVE SHAFT ASSY RH (See page 30-6)**
13. **INSTALL ENGINE UNDER COVER LH**
14. **INSTALL ENGINE UNDER COVER RH**
15. **INSTALL FRONT WHEELS**
Torque: 103 N·m (1050 kgf·cm, 76 ft·lbf)
16. **ADD AUTOMATIC TRANSAXLE FLUID**
17. **INSPECT AUTOMATIC TRANSAXLE FLUID (See page 40-2)**
18. **INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page 26-5)**
19. **CHECK ABS SPEED SENSOR SIGNAL (W/ ABS) (See page 05-297)**

SHIFT LOCK SYSTEM (ATM)

400LV-01

ON-VEHICLE INSPECTION

1. CHECK SHIFT LOCK OPERATION

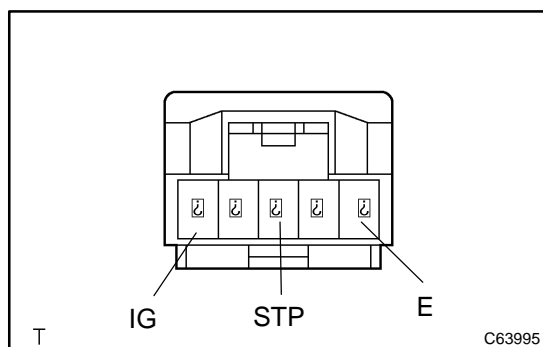
- Shift the shift lever to P position.
- Turn the ignition switch to LOCK.
- Check that the shift lever cannot be shifted to any other positions other than P.
- Turn the ignition switch to ON, depress the brake pedal and check that the shift lever can be shifted to any other positions.

2. CHECK SHIFT LOCK RELEASE BUTTON OPERATION

- Using a screwdriver, remove the shift lock release button cover.
- When operating the shift lever with the shift lock release button pressed and the ignition key in ACC or ON, check that the lever can be shifted to any other positions.

3. CHECK KEY INTERLOCK OPERATION

- Turn the ignition switch to ON.
- Depress the brake pedal and shift the shift lever to any other positions other than P.
- Check that the ignition key cannot be turned to LOCK.
- Shift the shift lever to P position, turn the ignition key to LOCK and check that the ignition key can be removed.



4. INSPECT SHIFT LOCK CONTROL ECU

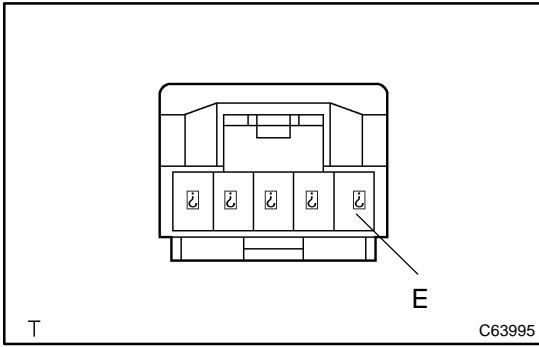
- Using a voltmeter, measure the voltage at each terminal.

HINT:

Do not disconnect the shift lock control ECU connector.

Terminal	Measuring Condition	Voltage (V)
5 (IG) - 1 (E)	Ignition switch ON	10 - 14
5 (IG) - 1 (E)	Ignition switch OFF	0
3 (STP) - 1 (E)	Depress brake pedal	10 - 14
3 (STP) - 1 (E)	Release brake pedal	0

AUTOMATIC TRANSMISSION / TRANS - SHIFT LOCK SYSTEM (ATM)

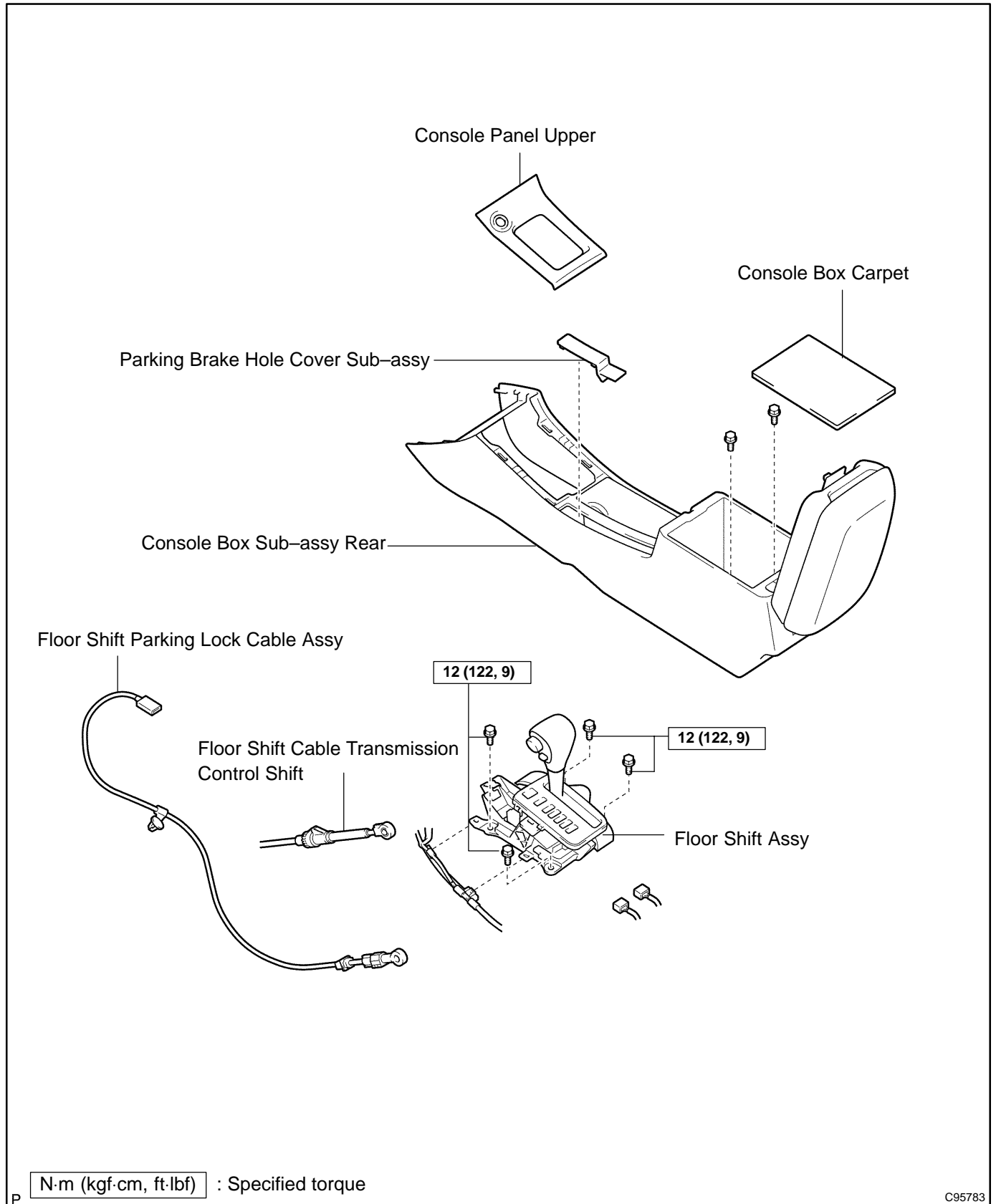


(b) Using an ohmmeter, measure the resistance at terminal E (1) and body ground.

Terminal	Measuring Condition	Specified Value
1 (E) – Body ground	Always	Continuity

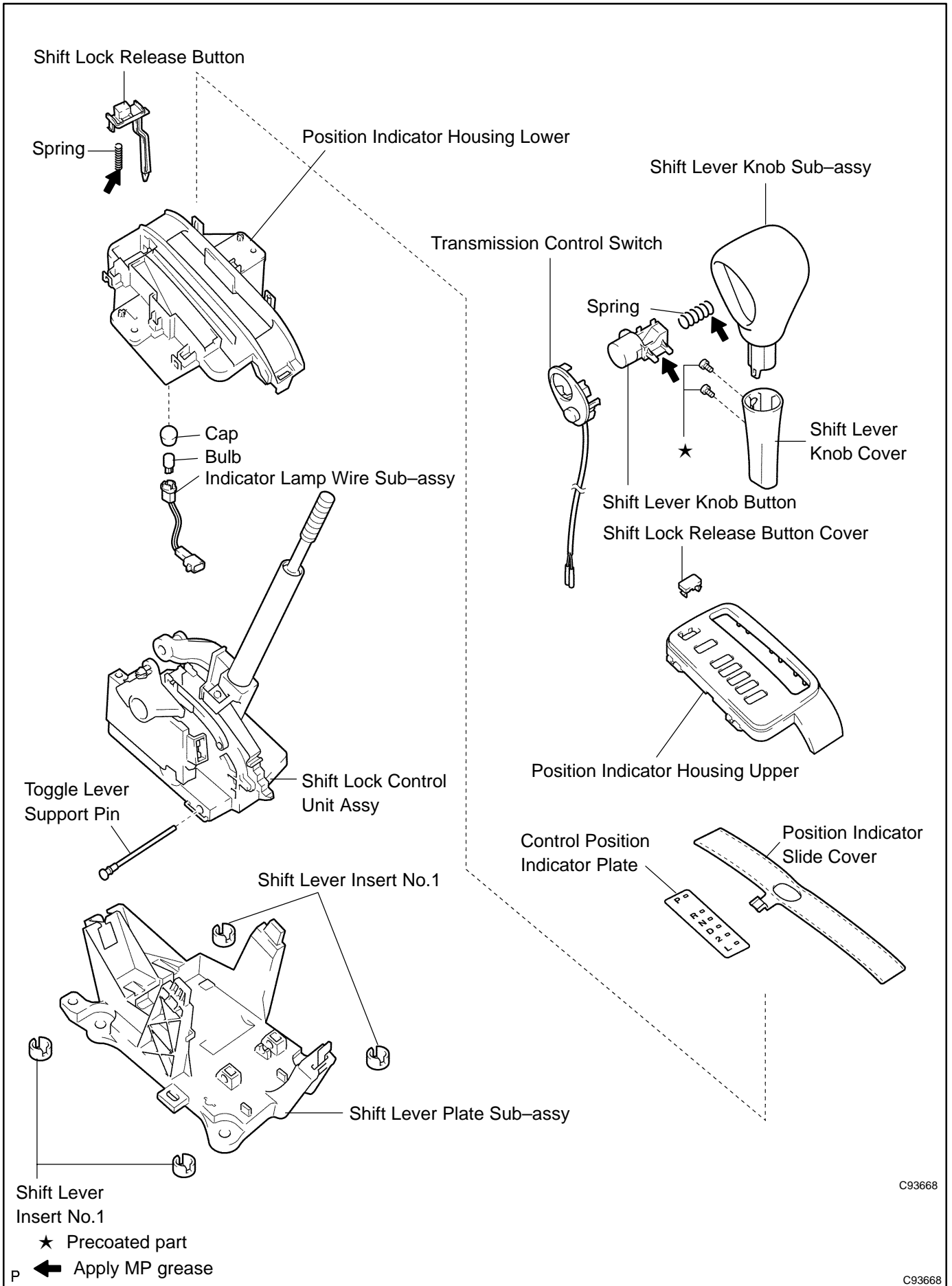
FLOOR SHIFT ASSY (ATM) COMPONENTS

400LQ-01



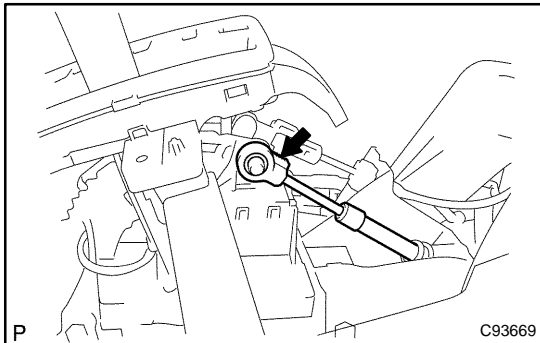
P

C95783



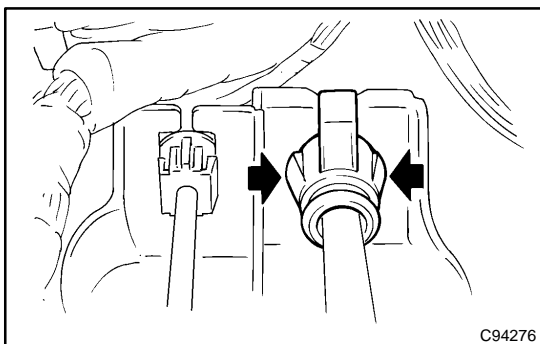
OVERHAUL

1. REMOVE CONSOLE PANEL UPPER (See page 71-10)
2. REMOVE CONSOLE BOX CARPET (See page 71-10)
3. REMOVE PARKING BRAKE HOLE COVER SUB-ASSY (See page 71-10)
4. REMOVE CONSOLE BOX SUB-ASSY REAR (See page 71-10)

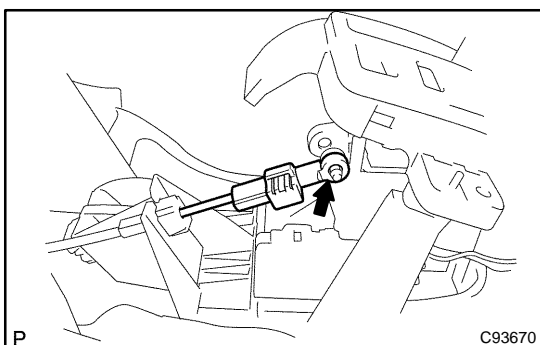


5. DISCONNECT FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT

- (a) Remove the cable end from the rod of the floor shift assembly.

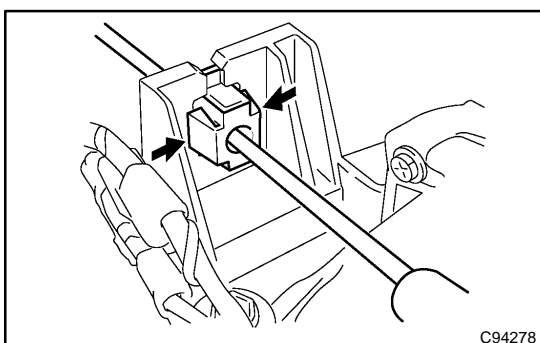


- (b) Using a screw driver, disconnect the control cable from the shift lever plate.



6. DISCONNECT FLOOR SHIFT PARKING LOCK CABLE ASSY

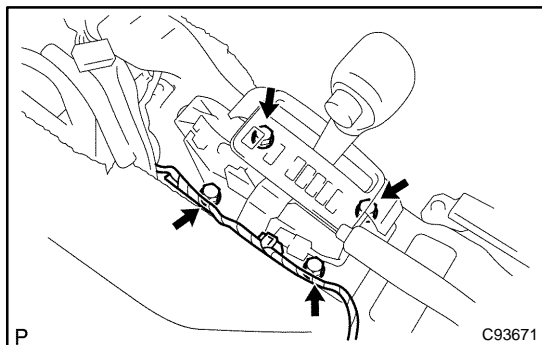
- (a) Remove the cable end from the lever pin of the floor shift assembly.



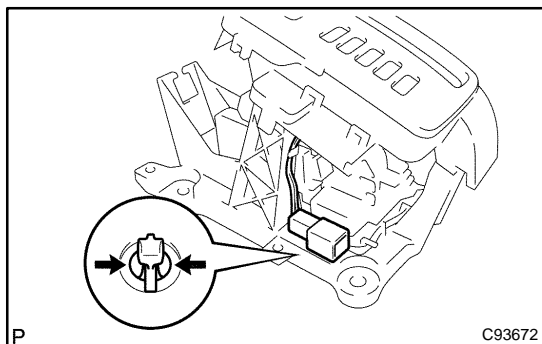
- (b) Using a screw driver, disconnect the parking lock cable from the floor shift assembly.

7. REMOVE FLOOR SHIFT ASSY

- (a) Disconnect the 2 connector.

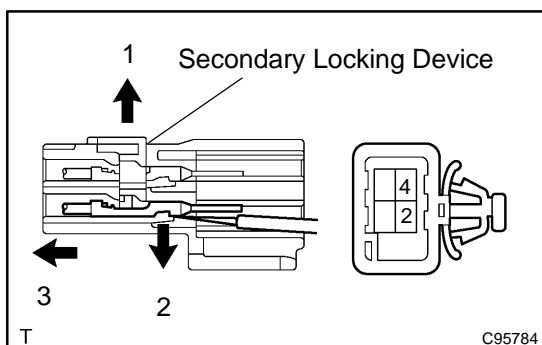


- (b) Disconnect the 2 wire harness clamps from the shift lever assy.
- (c) Remove the 4 bolts and floor shift assy.

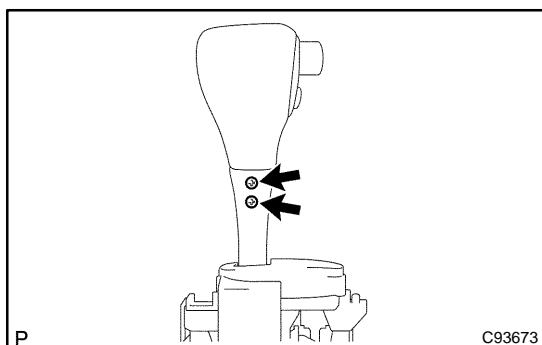


8. REMOVE FLOOR SHIFT SHIFT LEVER KNOB SUB-ASSY

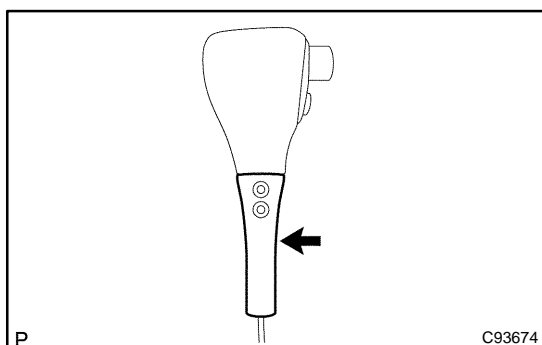
- (a) Releasing the lock by pressing the slick, disconnect the indicator lamp wire connector from the shift lever plate.



- (b) Disengage the secondary locking device.
- (c) Using a small screwdriver, disengage the locking lug of the terminals 2 and 4, and pull the terminals out from the rear.
- (d) Disconnect the wire harness from the clamps.

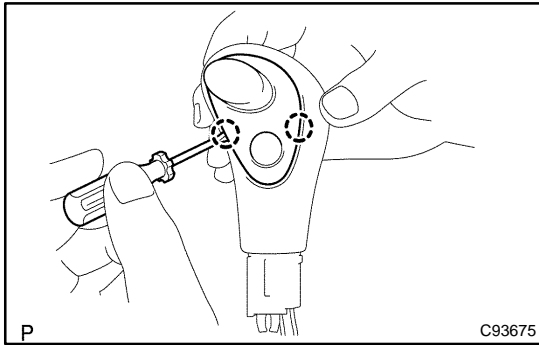


- (e) Remove the 2 screws and shift lever knob sub-assembly.
- NOTICE:**
Pay attention not to apply unnatural load to transmission control switch wire harness.

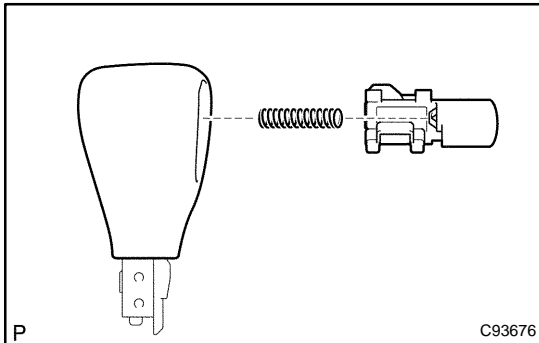


9. REMOVE FLOOR SHIFT SHIFT LEVER KNOB COVER

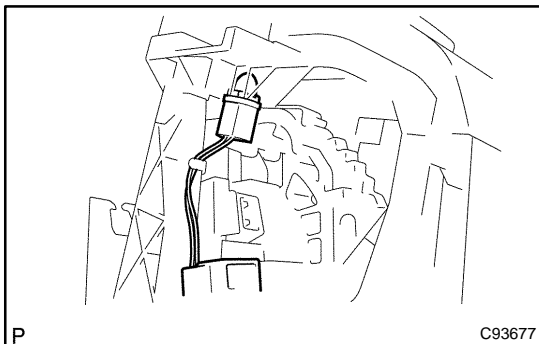
- (a) Remove the shift lever knob cover.

**10. REMOVE TRANSMISSION CONTROL SWITCH**

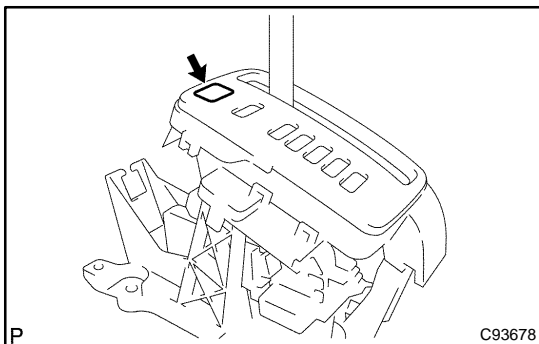
- (a) Using a small screw driver, remove the transmission control switch.

**11. REMOVE SHIFT LEVER KNOB BUTTON**

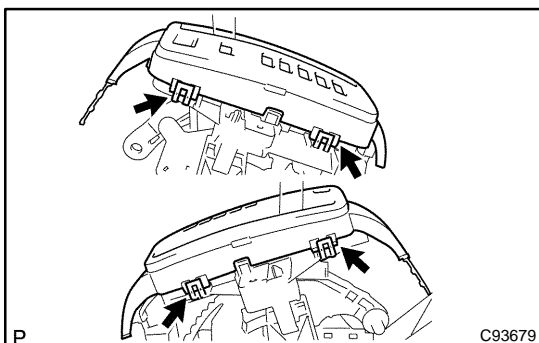
- (a) Remove the shift lever knob button and spring.

**12. REMOVE INDICATOR LAMP WIRE SUB-ASSY**

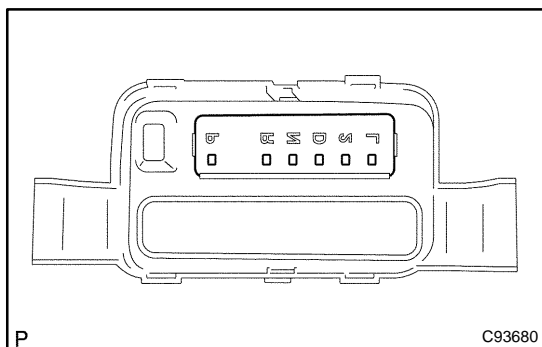
- (a) Remove the indicator lamp wire sub-assy.
 (b) Remove the cap and bulb from the indicator lamp wire sub-assy.

**13. REMOVE SHIFT LOCK RELEASE BUTTON COVER**

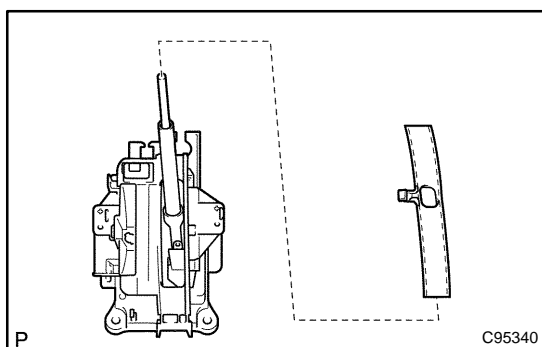
- (a) Using a screwdriver, remove the shift lock release button cover.

**14. REMOVE POSITION INDICATOR HOUSING UPPER**

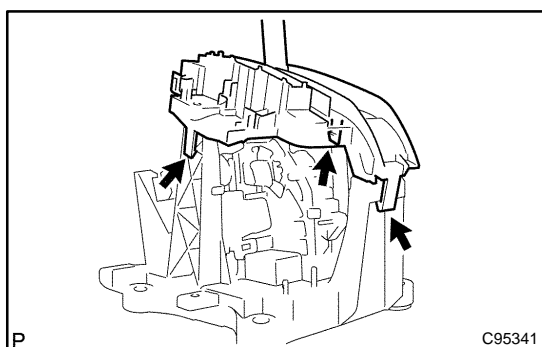
- (a) Using a screwdriver, release the 4 claws and remove the position indicator housing upper.

**15. REMOVE CONTROL POSITION INDICATOR PLATE**

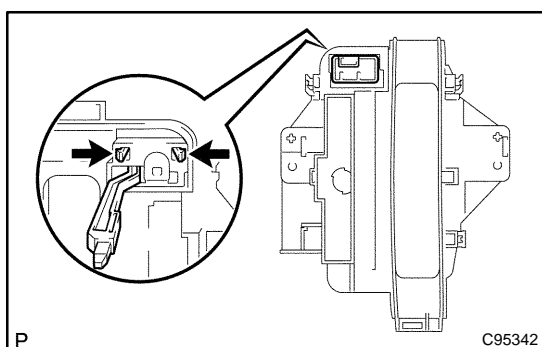
- (a) Remove the position indicator plate from the position indicator housing upper.

**16. REMOVE POSITION INDICATOR SLIDE COVER**

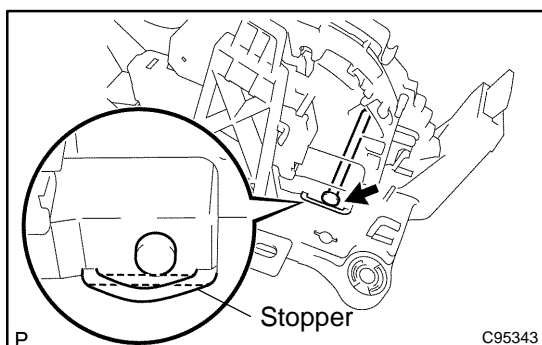
- (a) Remove the position indicator slide cover.

**17. REMOVE POSITION INDICATOR HOUSING LOWER**

- (a) Using a screwdriver, release the 3 claws and remove the position indicator housing lower.

**18. REMOVE SHIFT LOCK RELEASE BUTTON**

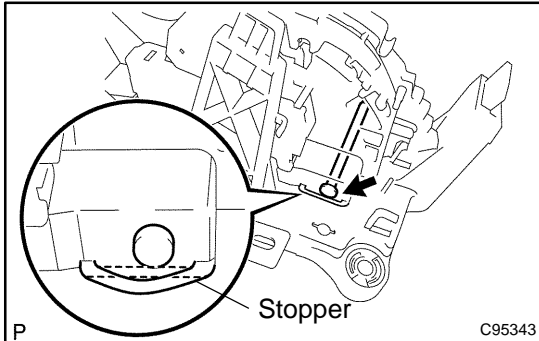
- (a) Remove the shift lock release button and spring.

**19. REMOVE SHIFT LOCK CONTROL UNIT ASSY**

- (a) Using a screwdriver, remove the toggle lever support pin and shift lock control unit assy.

NOTICE:

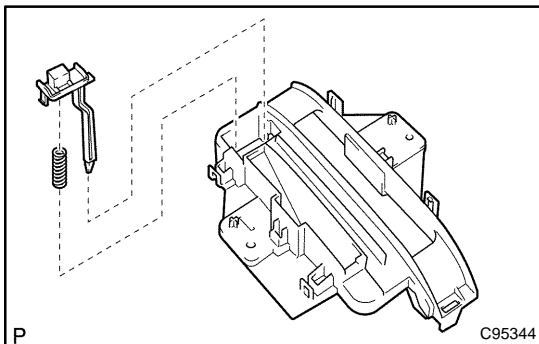
Work so as not to damage the stopper position.

20. REMOVE SHIFT LEVER INSERT NO.1**21. INSTALL SHIFT LEVER INSERT NO.1****22. INSTALL SHIFT LOCK CONTROL UNIT ASSY**

- (a) Install the shift lock control unit assy and toggle lever support pin.

NOTICE:

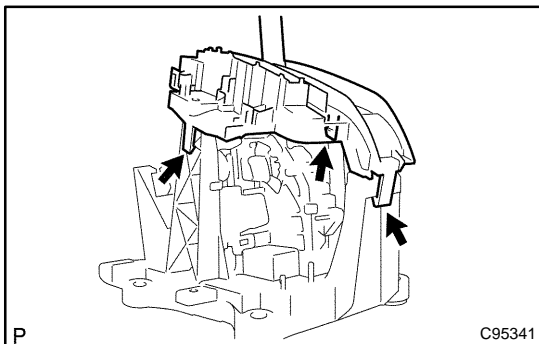
Work so as not to damage the stopper position.

**23. INSTALL SHIFT LOCK RELEASE BUTTON**

- (a) Apply MP grease on the shift lock release spring and shift lock release button.
 (b) Install the shift lock release button and shift lock release spring to the position indicator housing lower.

HINT:

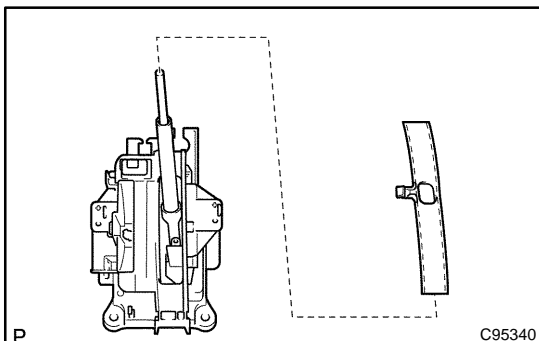
Fit the claws securely.

**24. INSTALL POSITION INDICATOR HOUSING LOWER**

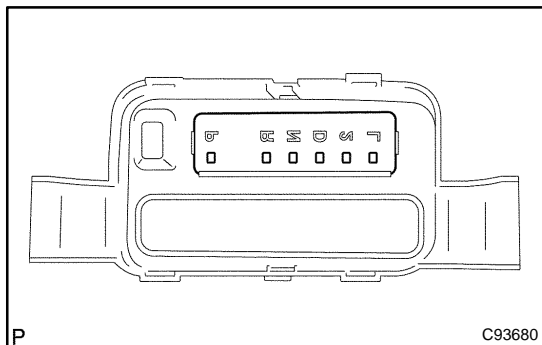
- (a) Install the position indicator housing lower.

HINT:

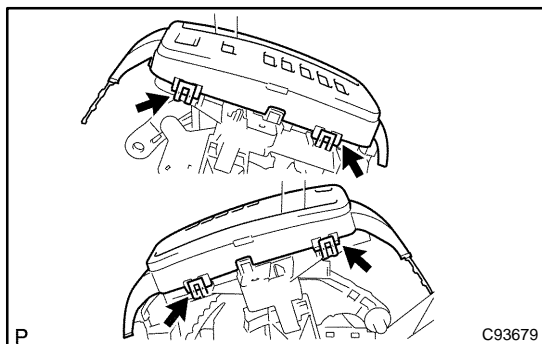
Fit the claws securely.

**25. INSTALL POSITION INDICATOR SLIDE COVER**

- (a) Install the position indicator slide cover.

**26. INSTALL CONTROL POSITION INDICATOR PLATE**

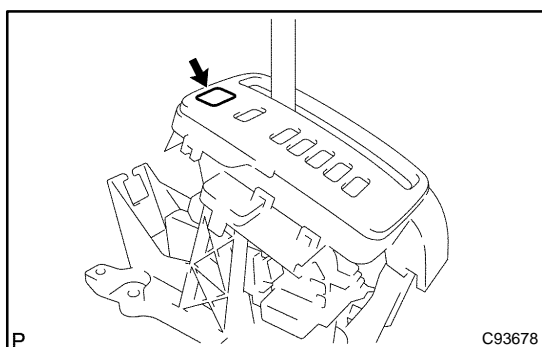
- (a) Install the position indicator plate to the position indicator housing upper.

**27. INSTALL POSITION INDICATOR HOUSING UPPER**

- (a) Install the position indicator housing upper.

HINT:

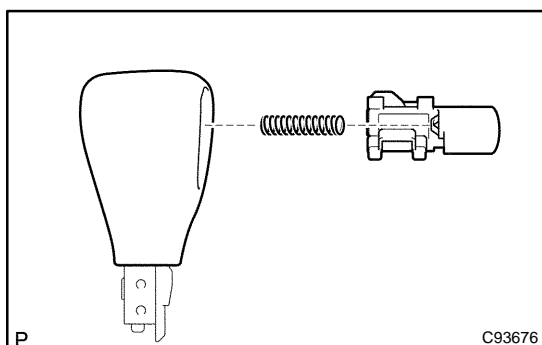
Fit the claws securely.

**28. INSTALL SHIFT LOCK RELEASE BUTTON COVER**

- (a) Install the shift lock release button cover to the position indicator housing upper.

**29. INSTALL INDICATOR LAMP WIRE SUB-ASSY**

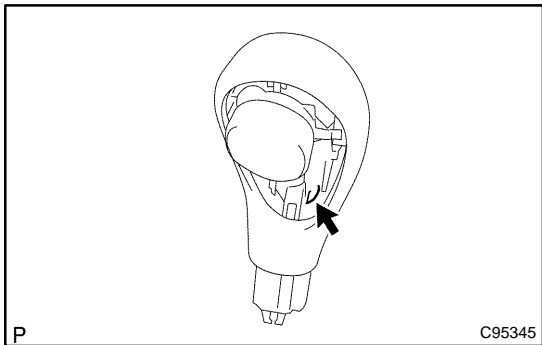
- (a) Install the bulb and cap to the indicator lamp wire sub-assy.
 (b) Install the indicator lamp wire sub-assy.

**30. INSTALL SHIFT LEVER KNOB BUTTON**

- (a) Apply MP grease to the spring and shift lever knob button.
 (b) Install the spring and shift lever knob button.

HINT:

Fit the claws securely.

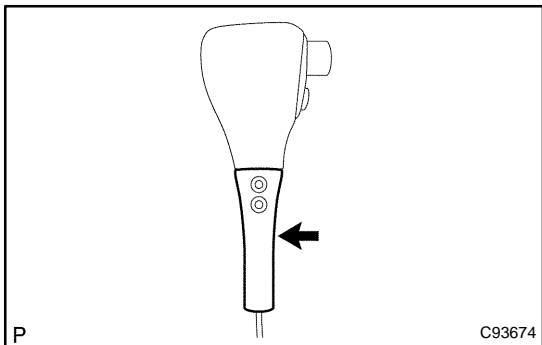


31. INSTALL TRANSMISSION CONTROL SWITCH

- (a) Insert the wire harness into the shift lever knob from the part shown by the arrow, and install the transmission control switch to the shift lever knob.

HINT:

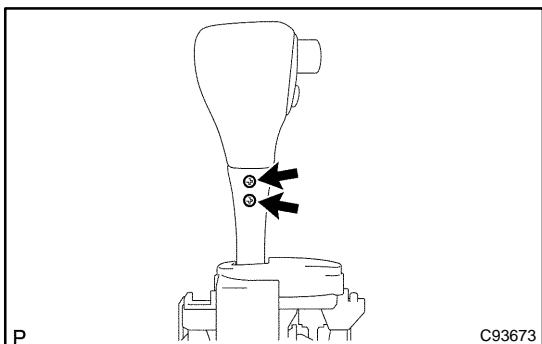
Fit the claws securely.



32. INSTALL FLOOR SHIFT SHIFT LEVER KNOB COVER

- (a) Install the shift lever knob cover.

33. INSTALL FLOOR SHIFT SHIFT LEVER KNOB SUB-ASSY



- (a) Install the shift lever knob sub-assembly with the 2 screws.

HINT:

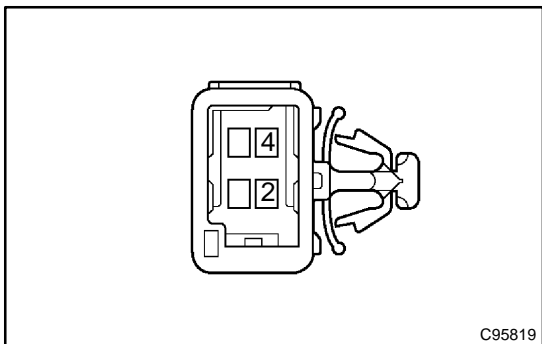
Coat the threads of screws with sealant.

Sealant:

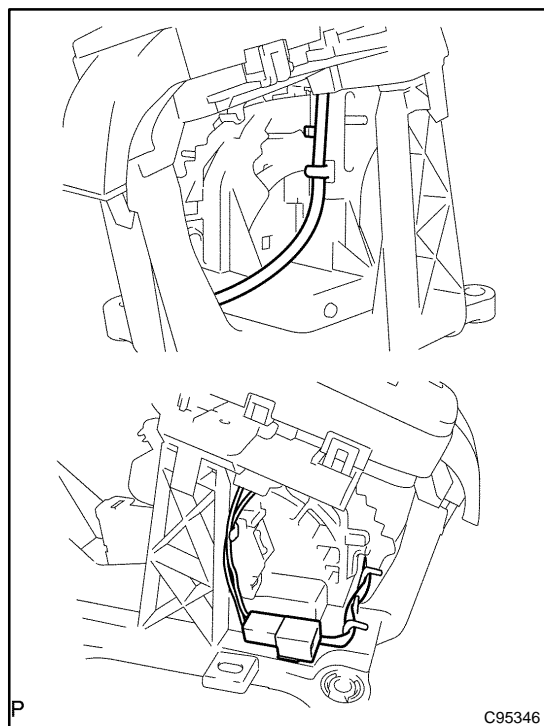
Part No. 08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent

NOTICE:

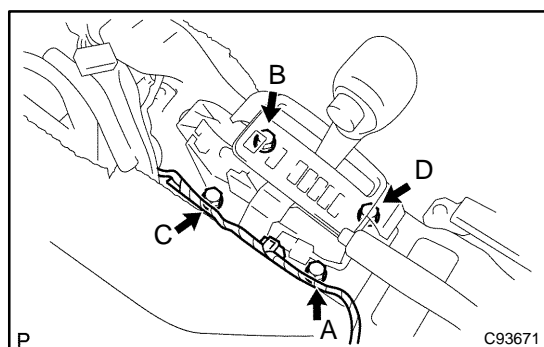
Make sure not to catch wire harness.



- (b) Install the 2 terminals into the indicator lamp wire connector.



- (c) Install the wire harness and connector as shown in the illustration.



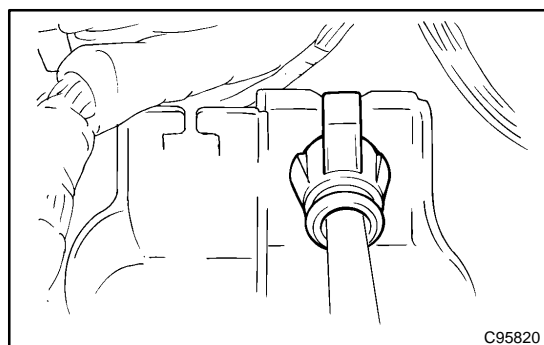
34. INSTALL FLOOR SHIFT ASSY

- (a) Install the floor shift assy with the 4 bolts.
Torque: 12 N·m (122 kgf·cm, 9 ft·lbf)

HINT:

Tighten them in the order, A, B, C and D.

- (b) Connect the 2 wire harness clamps to the shift lever plate.
 (c) Connect the 2 connector.

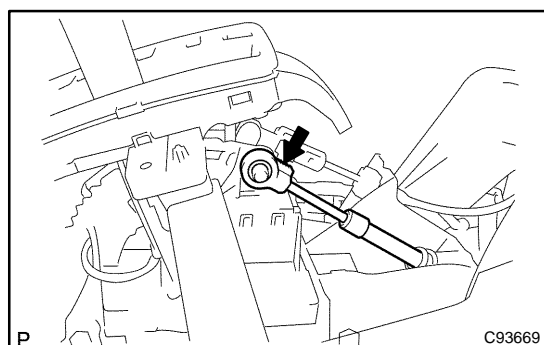


35. CONNECT FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT

- (a) Install the control cable to the shift lever plate.

HINT:

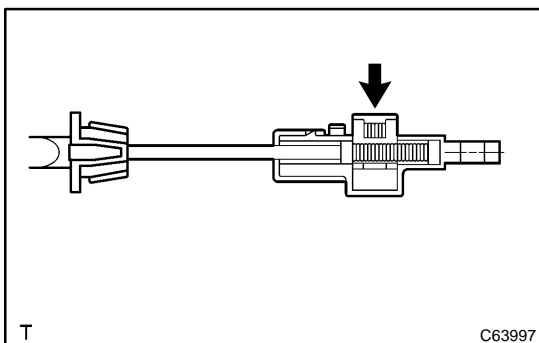
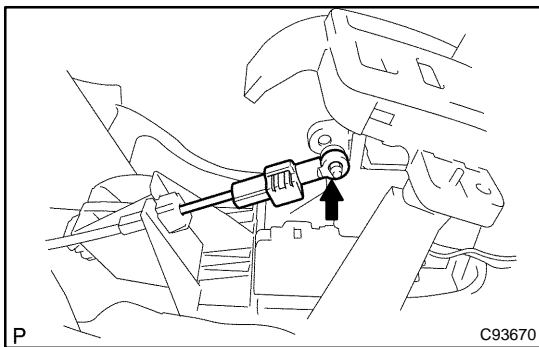
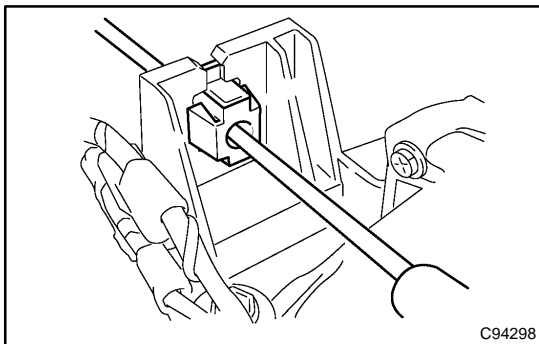
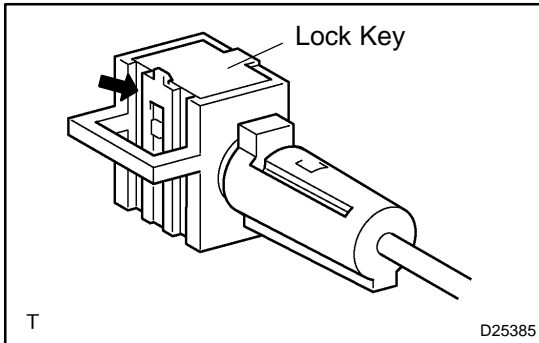
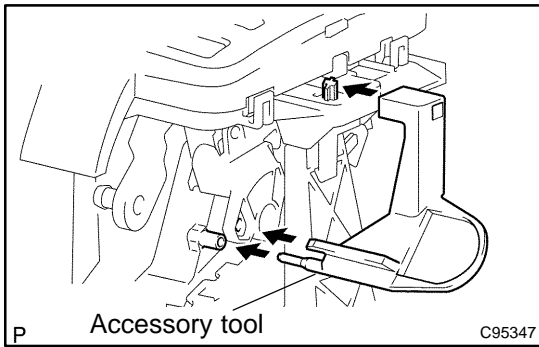
Fit the claws securely.



- (b) Install the cable end to the rod of the floor shift assy.

HINT:

Install it with the uneven surface facing upward.



36. CONNECT FLOOR SHIFT PARKING LOCK CABLE ASSY

- (a) Set the accessory tool.
- (1) Shift the shift lever to N position and turn the ignition switch to ACC or ON.
 - (2) Set the accessory tool to the shift lock control unit assy as shown in the illustration.

Accessory tool parts No.: 33693-02010

HINT:

Only in the case of reusing the shift lock control unit assy.

- (b) Using a screwdriver, unlock the claw of the lock key of automatic adjustment parts.

- (c) Insert the slide cap into the through hole and install.

HINT:

Fit the claws securely.

- (d) Insert the lever pin into the hole in the cable end.

HINT:

Fit the claws securely.

- (e) Lock the lock key.

HINT:

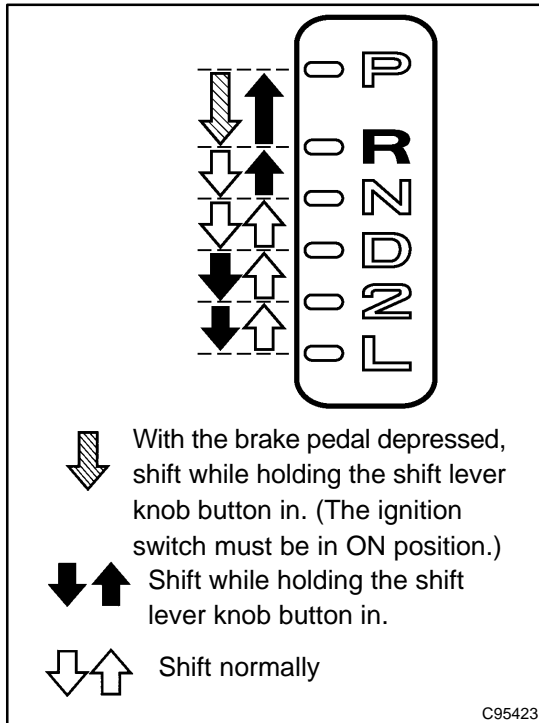
At this time, the shift lever should be in N position and the ignition key should be set to ACC or ON.

- (f) Remove the accessory tool.

Accessory tool parts No.: 33693-02010

37. CHECK KEY INTERLOCK OPERATION (See page 40-30)
38. CHECK SHIFT LOCK OPERATION (See page 40-30)
39. CHECK SHIFT LOCK RELEASE BUTTON OPERATION (See page 40-30)

ADJUSTMENT



1. INSPECT SHIFT LEVER POSITION

- (a) When shifting the shift lever to each position, make sure that it moves smoothly, and the position indicator displays correctly.

Positions which can be shifted without pressing the shift lever knob button

R → N → D, L → 2 → D → N

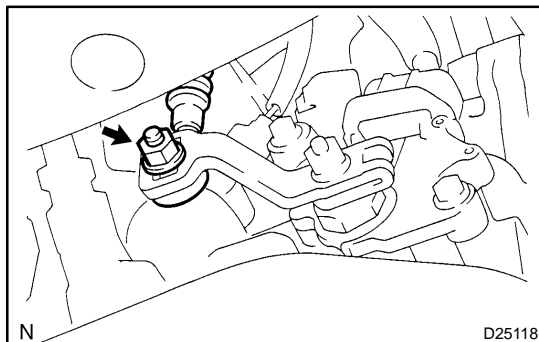
Positions which can be operated only while pressing the shift lever knob button

D → 2 → L, N → R → P

Positions which can be operated only while pressing the shift lever knob button, ignition switch ON and brake pedal depressed

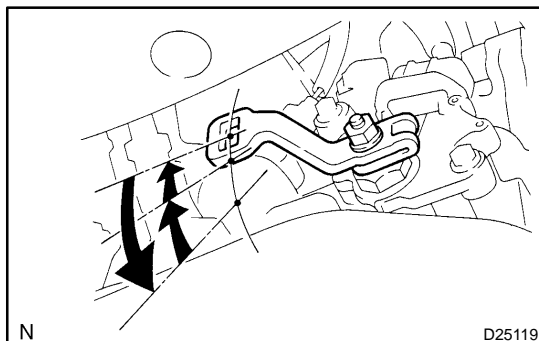
P → R

- (b) Start the engine and make sure that the vehicle moves forward when shifting the lever from N to D position, and moves rearward when shifting to R position.



2. ADJUST SHIFT LEVER POSITION

- (a) Loosen the nut on the control shaft lever.



- (b) Push the control shaft fully downward.
 (c) Return the control shaft lever 2 notches to N position.
 (d) Set the shift lever to N position.
 (e) While holding the shift lever lightly toward the R position side, tighten the shift lever nut.

Torque: 12 N·m (122 kgf-cm, 9 ft-lbf)

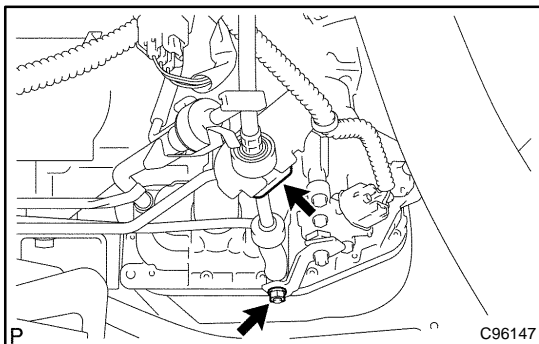
- (f) Start the engine and make sure that the vehicle moves forward when shifting the lever from N to D position and moves rearward when shifting it to R position.

FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT (ATM)

400LT-01

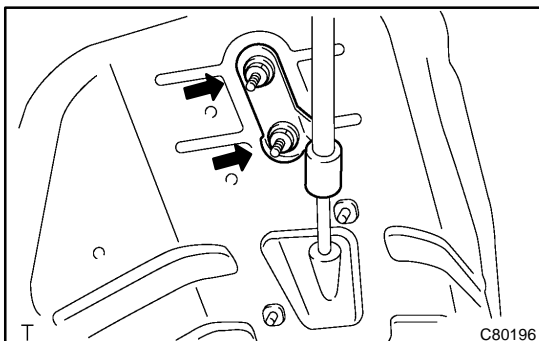
REPLACEMENT

1. **PRECAUTION** (See page 60-1)
2. **DISCONNECT BATTERY NEGATIVE TERMINAL**
3. **REMOVE PARKING BRAKE HOLE COVER SUB-ASSY** (See page 71-10)
4. **REMOVE CONSOLE PANEL UPPER** (See page 71-10)
5. **REMOVE CONSOLE BOX CARPET** (See page 71-10)
6. **REMOVE CONSOLE BOX SUB-ASSY REAR** (See page 71-10)
7. **REMOVE AIR BAG SENSOR ASSY CENTER** (See page 60-38)
8. **DISCONNECT OXYGEN SENSOR CONNECTOR**
 - (a) Remove the foot rest.
 - (b) Pull up the floor carpet.
 - (c) Disconnect the oxygen sensor connector.
9. **REMOVE FLOOR PANEL BRACE FRONT**
 - (a) Remove the 2 nuts and floor panel brace.
10. **REMOVE EXHAUST PIPE ASSY FRONT** (See page 15-2)
11. **REMOVE FRONT FLOOR HEAT INSULATOR NO.1**
 - (a) Remove the 3 nuts and heat insulator.
12. **REMOVE AIR CLEANER CASE**
13. **REMOVE AIR CLEANER HOSE NO.1**

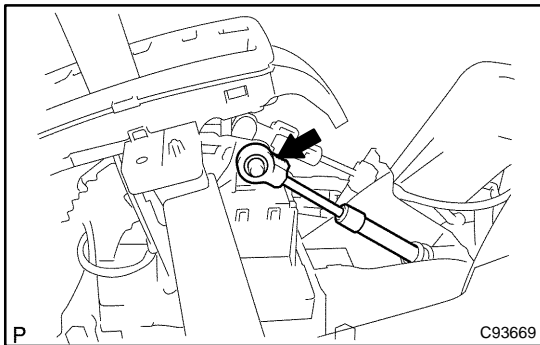


14. REMOVE FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT

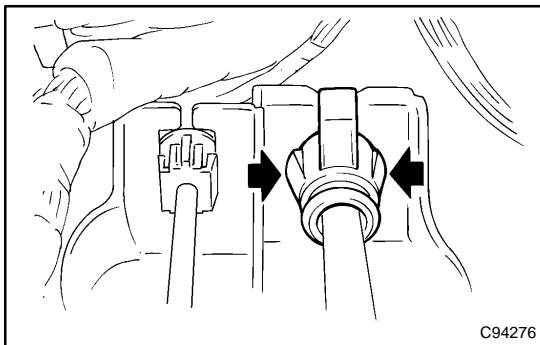
- (a) Remove the nut from control shaft lever.
- (b) Disconnect the control cable from the control shaft lever.
- (c) Remove the clip and disconnect the control cable from the control cable bracket.
- (d) Disconnect the control cable from the control cable support.



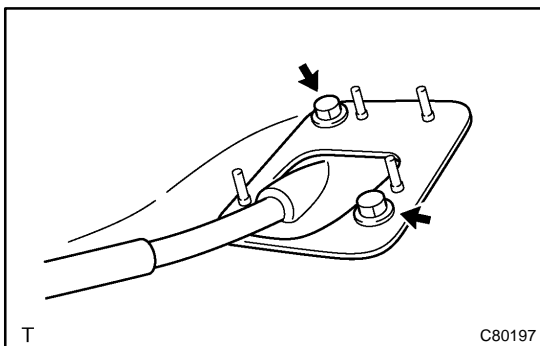
- (e) Remove the 2 nuts.



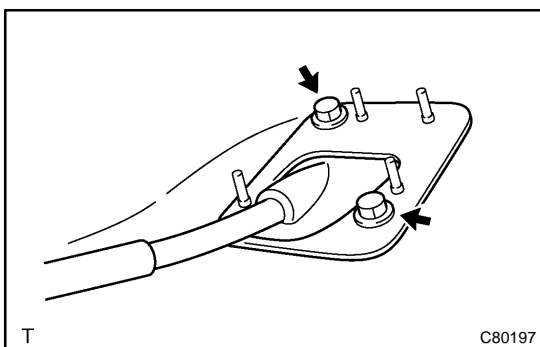
- (f) Remove the cable end from the rod of the floor shift assembly.



- (g) Using a screw driver, disconnect the control cable from the shift lever plate.

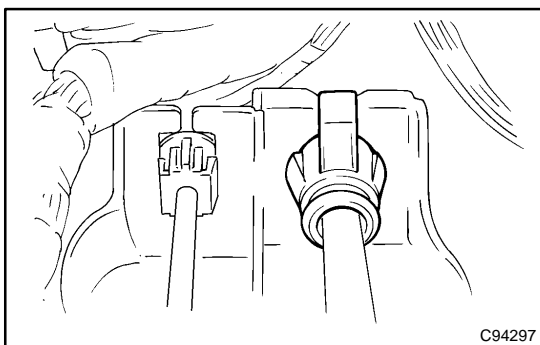


- (h) Remove the 2 bolts.
 (i) Pull out the control cable assy from the body.
 (j) Remove the retainer from the shift cable.

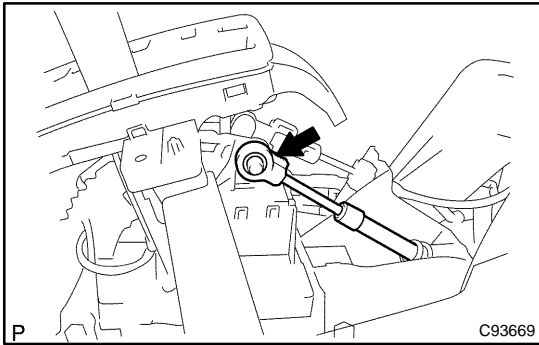


15. INSTALL FLOOR SHIFT CABLE TRANSMISSION CONTROL SHIFT

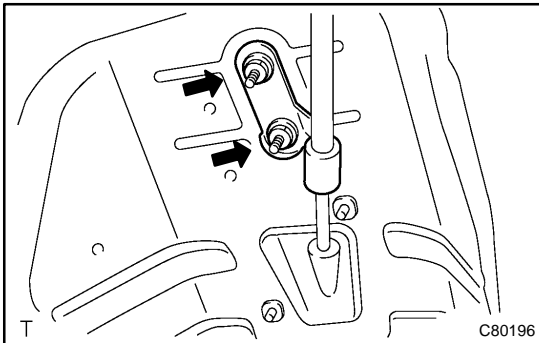
- (a) Install the retainer to the shift cable.
 (b) Pull in the control cable assy to the body.
 (c) Install the 2 bolts.
Torque: 5.0 N·m (50 kgf·cm, 43 in.-lbf)



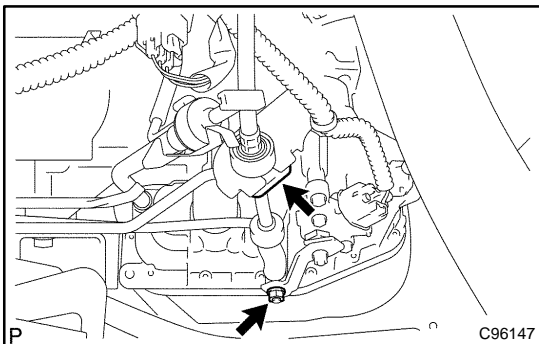
- (d) Install the control cable to the shift lever plate.



- (e) Install the cable end to the rod of the floor shift assy.
HINT:
Install it with the uneven surface facing upward.



- (f) Install the control cable and 2 nuts.
Torque: 12 N·m (122 kgf·cm, 9 ft·lbf)
(g) Connect the control cable to the control cable support.



- (h) Temporarily install the control cable to the control shaft lever with the nut.
(i) Install the control cable and clip to the bracket.

16. INSTALL AIR CLEANER CASE

17. INSTALL FRONT FLOOR HEAT INSULATOR NO.1

- (a) Install the heat insulator with the 3 nuts.
Torque: 5.5 N·m (56 kgf·cm, 49 in.·lbf)

18. INSTALL EXHAUST PIPE ASSY FRONT (See page 15-2)

19. INSTALL FLOOR PANEL BRACE FRONT

- (a) Install the floor panel brace with the 2 nuts.
Torque: 29.6 N·m (302 kgf·cm, 22 ft·lbf)

20. INSTALL OXYGEN SENSOR CONNECTOR

- (a) Connect the oxygen sensor connector.
(b) Install the floor carpet and foot rest.

21. INSTALL AIR BAG SENSOR ASSY CENTER (See page 60-38)

22. ADJUST SHIFT LEVER POSITION (See page 40-44)

23. INSPECT SHIFT LEVER POSITION (See page 40-44)

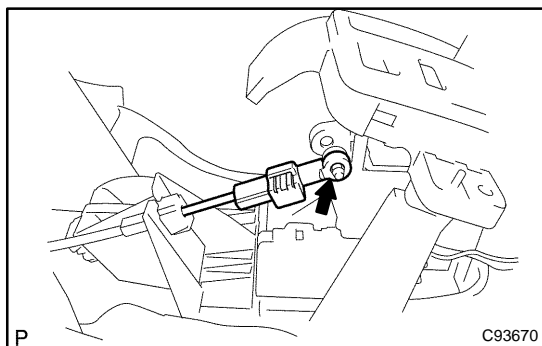
24. INSPECT SRS WARNING LIGHT (See page 60-8)

FLOOR SHIFT PARKING LOCK CABLE ASSY (ATM)

REPLACEMENT

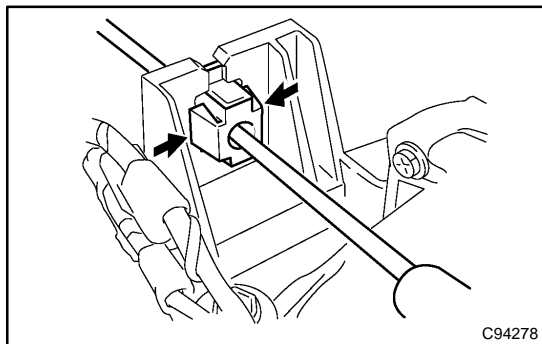
400LU-02

1. **PRECAUTION** (See page 60-1)
2. **DISCONNECT BATTERY NEGATIVE TERMINAL**
3. **PLACE FRONT WHEELS FACING STRAIGHT AHEAD**
4. **REMOVE HORN BUTTON ASSY** (See page 60-13)
5. **REMOVE STEERING WHEEL ASSY**
SST 09950-50013 (09951-05010, 09952-05010, 09953-05020, 09954-05021)
6. **REMOVE STEERING COLUMN COVER** (See page 50-8)
7. **REMOVE CONSOLE PANEL UPPER** (See page 71-10)
8. **REMOVE PARKING BRAKE HOLE COVER SUB-ASSY** (See page 71-10)
9. **REMOVE CONSOLE BOX CARPET** (See page 71-10)
10. **REMOVE CONSOLE BOX SUB-ASSY REAR** (See page 71-10)

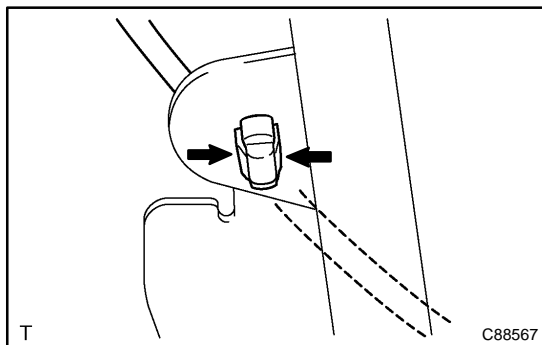


11. REMOVE FLOOR SHIFT PARKING LOCK CABLE ASSY

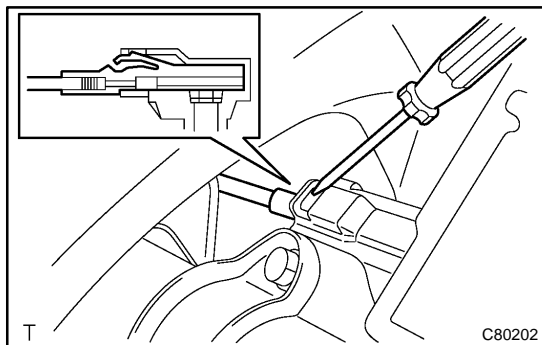
- (a) Remove the cable end from the lever pin of the floor shift assembly.



- (b) Using a screwdriver, disconnect the parking lock cable from the floor shift assembly.



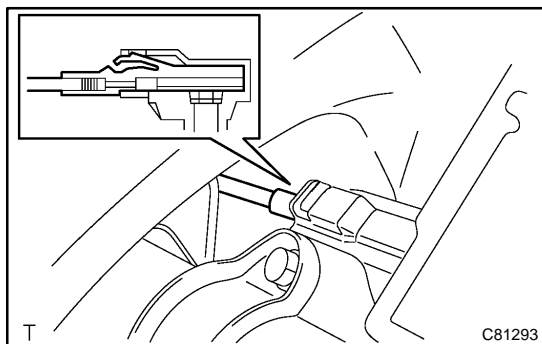
- (c) Disconnect the cable clamp.
- (d) Turn the ignition switch ACC or ON.



- (e) Using a screwdriver, remove the cable from the upper bracket.

HINT:

Before disconnecting the cable, keep in mind each of the physical relationship between the connector and wire harness or other cables.

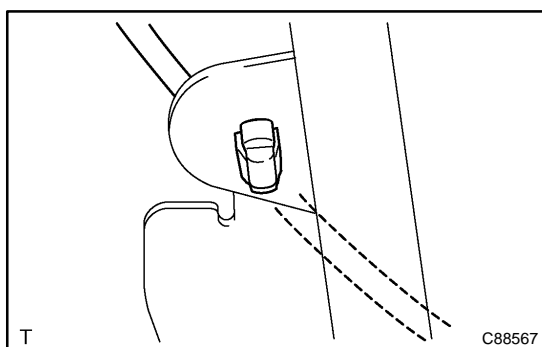


12. INSTALL FLOOR SHIFT PARKING LOCK CABLE ASSY

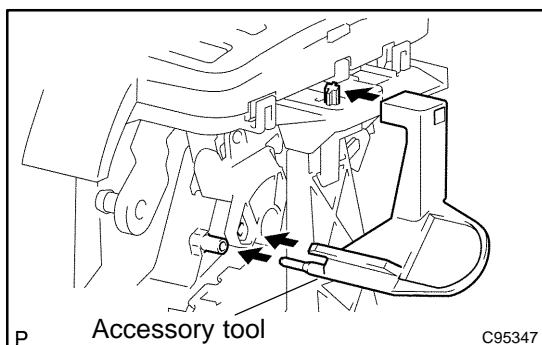
- (a) Turn the ignition switch ACC or ON.
 (b) Install the cable to the upper bracket.

HINT:

Connect the removed cable so that it will be the same physical relationship you kept in mind before its disconnection.

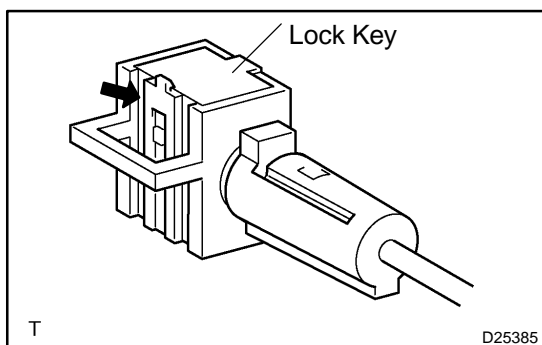


- (c) Connect the cable clamp.

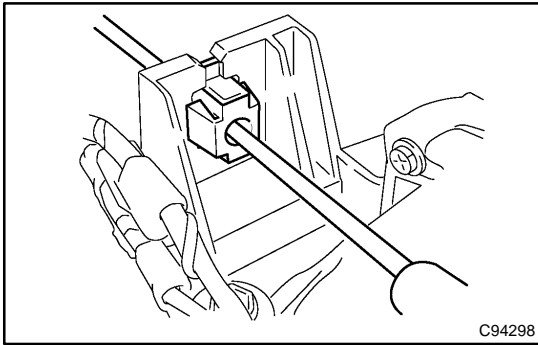


- (d) Set the accessory tool.
 (1) Shift the shift lever to N position and turn the ignition switch to ACC or ON.
 (2) Set the accessory tool to the shift lock control unit asy as shown in the illustration.

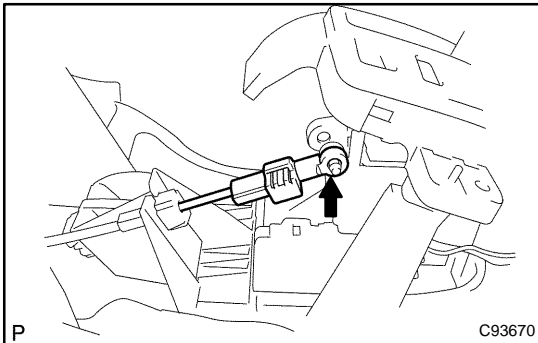
Accessory tool parts No.: 33693-02010



- (e) Using a screwdriver, unlock the claw of the lock key of automatic adjustment part.



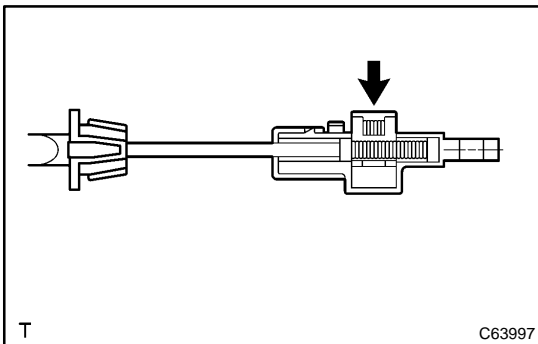
(f) Insert the slide cap into the through hole and install.



(g) Insert the lever pin into the hole in the cable end.

HINT:

Fit the claws securely.



(h) Lock the lock key.

HINT:

At this time, the shift lever should be in N position and the ignition key should be set to ACC or ON.

(i) Remove the accessory tool.

Accessory tool parts No.: 33693-02010

13. **INSTALL STEERING WHEEL ASSY**
14. **INSPECT STEERING WHEEL CENTER POINT**
15. **INSTALL HORN BUTTON ASSY (See page 60-13)**
16. **INSPECT SRS WARNING LIGHT (See page 60-8)**
17. **CHECK KEY INTERLOCK OPERATION (See page 40-30)**