

AUTOMATIC TRANSAXLE ASSY REPLACEMENT

400DM-01

1. REMOVE WIPER LINK ASSY
(See page 66-9)
2. REMOVE COWL TOP PANEL SUB-ASSY OUTER
(See page 26-7)
3. REMOVE HOOD SUB-ASSY

4. REMOVE ENGINE COVER SUB-ASSY NO.1

- (a) Remove the 2 nuts and engine cover.

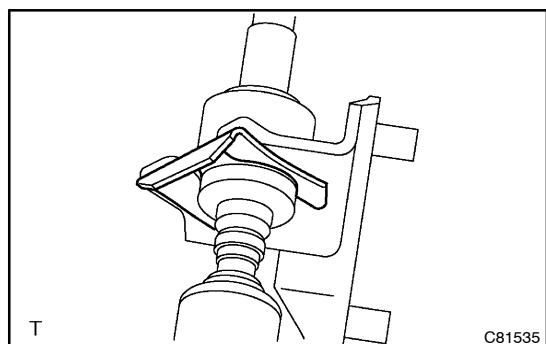
5. REMOVE BATTERY

6. REMOVE AIR CLEANER ASSY

7. REMOVE AIR CLEANER HOSE NO.1

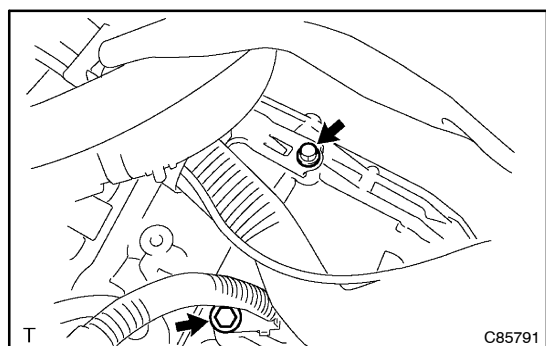
8. REMOVE STARTER ASSY

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



9. SEPARATE COLUMN SHIFT TRANSMISSION CONTROL CABLE ASSY

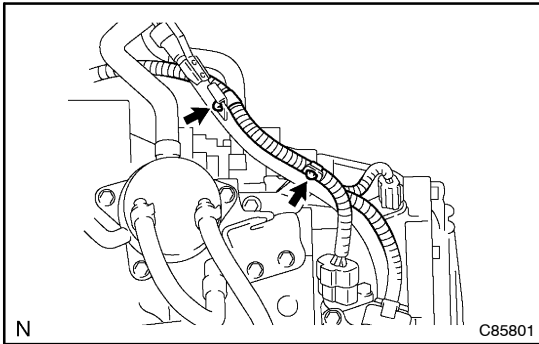
- (a) Remove the nut from the control shaft lever.
- (b) Separate the control cable from the control shaft lever.
- (c) Remove the clip and separate the control cable from the control cable bracket.



10. SEPARATE WIRE HARNESS

- (a) Remove the 2 bolts and 2 wire harnesses.

11. SEPARATE CONNECTOR



- (a) Separate the 2 wire harness clamps from the oil filler tube.
- (b) Separate the transmission wire connector.
- (c) Separate the park/neutral position switch connector.
- (d) Separate the 2 speed sensor connectors.

12. REMOVE FRONT WHEEL

13. REMOVE ENGINE UNDER COVER RH

14. REMOVE ENGINE UNDER COVER LH

15. DRAIN AUTOMATIC TRANSAXLE FLUID

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

Torque: 49 N·m (500 kgf·cm, 36 ft·lbf)

16. SEPARATE WATER BY-PASS HOSE NO.6

- (a) Loosen the clip and separate the water by-pass hose No. 6 from the transmission oil cooler.

17. SEPARATE WATER BY-PASS HOSE NO.5

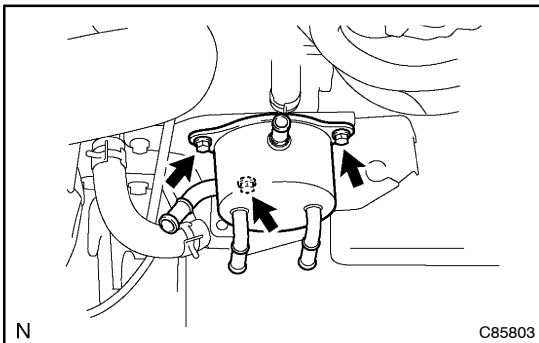
- (a) Loosen the clip and separate the water by-pass hose No. 5 from the transmission oil cooler.

18. REMOVE OIL COOLER INLET HOSE NO.1

- (a) Loosen the 2 clips and remove the oil cooler inlet hose No. 1 from the transmission oil cooler and automatic transaxle.

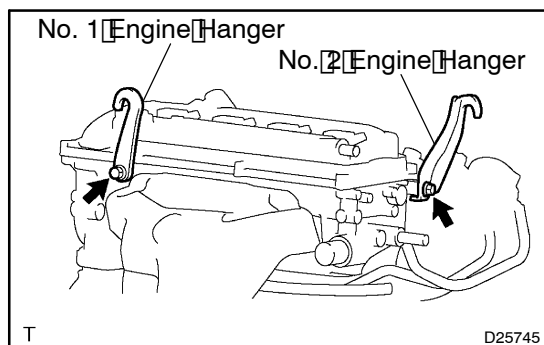
19. REMOVE OIL COOLER OUTLET HOSE NO.2

- (a) Loosen the 2 clips and remove the oil cooler outlet hose No. 2 from the transmission oil cooler and automatic transaxle.



20. REMOVE TRANSMISSION OIL COOLER

- (a) Remove the 3 bolts and transmission oil cooler from the transmission control cable support.



21. SUSPEND ENGINE ASSY

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

Parts No.:

No. 1 engine hanger: 12281-28010

No. 2 engine hanger: 12282-28010

Bolt: 91512-61020

Torque: 38 N·m (387 kgf·cm, 28 ft·lbf)

- (b) Attach the engine chain hoist to the engine hanger.

CAUTION:

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

22. REMOVE EXHAUST PIPE ASSY FRONT

(See page 15-1)

23. REMOVE FRONT DRIVE SHAFT ASSY RH

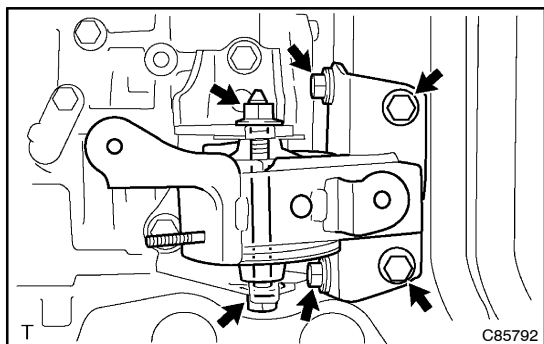
(See page 30-7)

24. REMOVE FRONT DRIVE SHAFT ASSY LH

(See page 30-7)

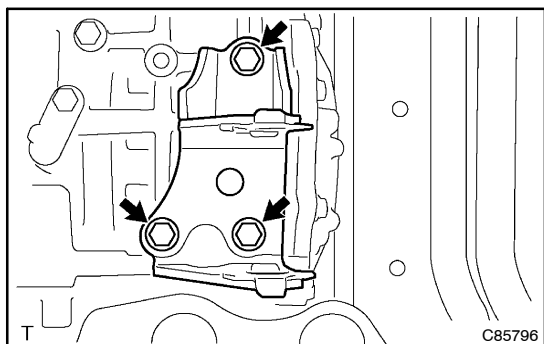
25. SUPPORT AUTOMATIC TRANSAXLE ASSY

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



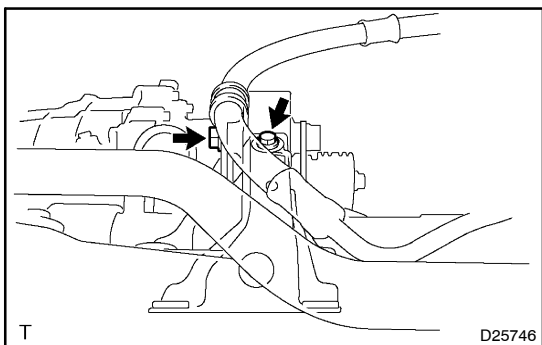
26. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

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



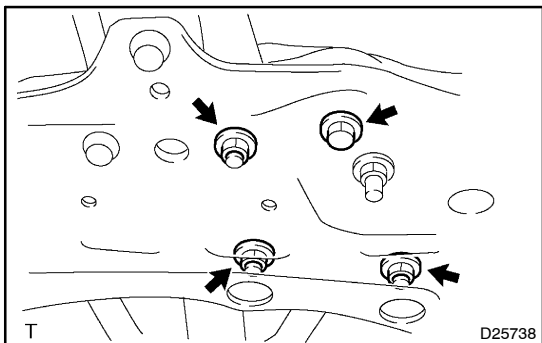
27. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

- (a) Remove the 3 bolts and engine mounting bracket LH from the automatic transaxle.

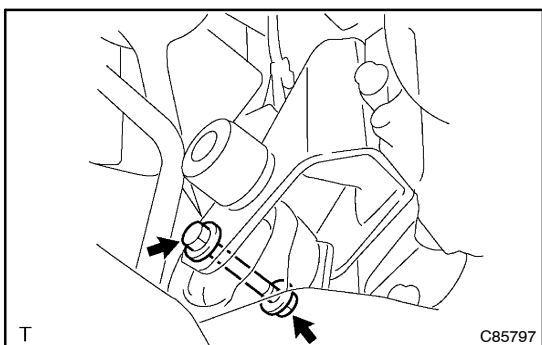


28. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

- (a) Remove the bolt and separate the hose clamp from the engine mounting insulator RR.
- (b) Remove the bolt from the engine mounting bracket RR.

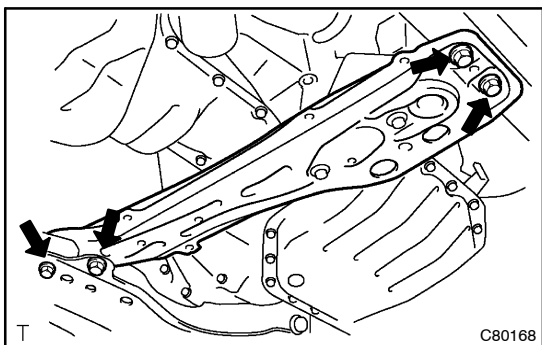


- (c) Remove the 3 nuts, bolt and engine mounting insulator RR from suspension member.



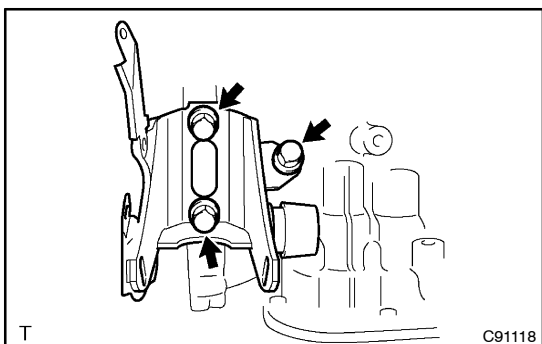
29. SEPARATE TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

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



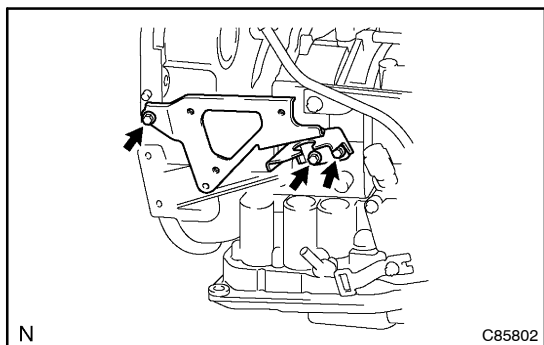
30. REMOVE ENGINE MOUNTING MEMBER SUB-ASSY CENTER

- (a) Remove the 4 bolts and center member with engine mounting insulator FR.



31. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

- (a) Remove the 3 bolts and engine mounting bracket FR from the automatic transaxle.

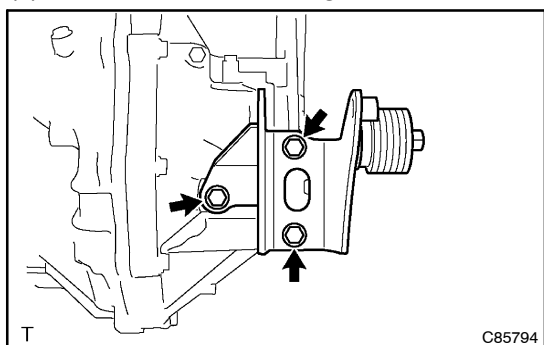


32. REMOVE TRANSMISSION CONTROL CABLE SUPPORT

- (a) Remove the 3 bolts and transmission control cable support from the automatic transaxle.

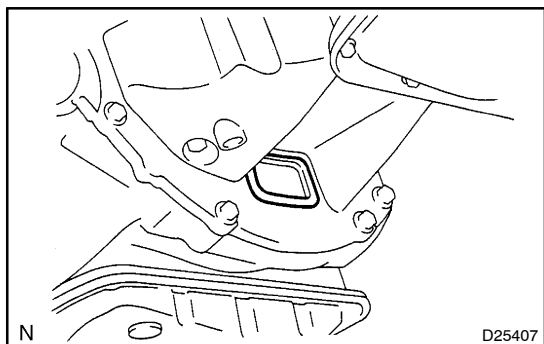
33. REMOVE TRANSMISSION OIL FILLER TUBE SUB-ASSY

- (a) Remove the ATF lever gauge.
- (b) Remove the bolt and oil filler tube.
- (c) Remove the O-ring from the oil filler tube.

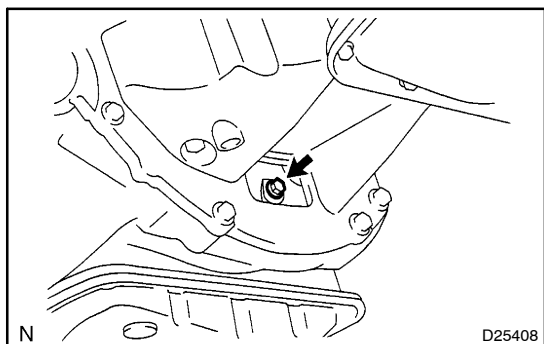


34. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

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

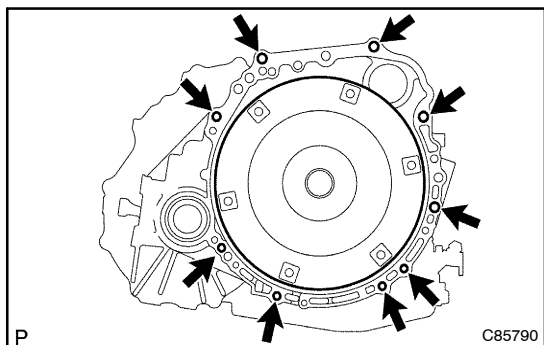


35. REMOVE FLYWHEEL HOUSING UNDER COVER



36. 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 9 bolts.

(c) Separate and remove the automatic transaxle.

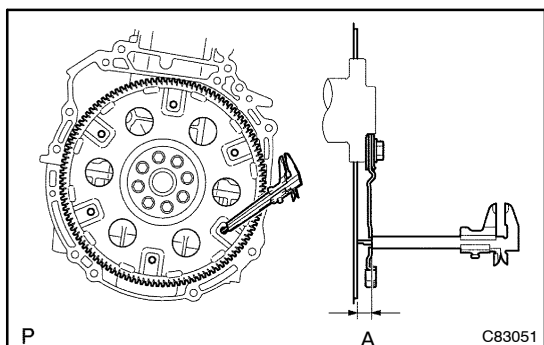
37. REMOVE TORQUE CONVERTER CLUTCH ASSY

38. INSPECT TORQUE CONVERTER CLUTCH ASSY

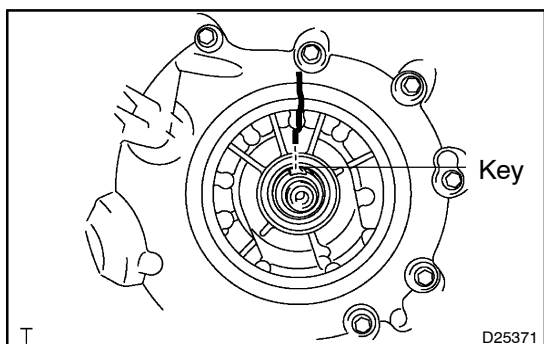
(See page 40-19)

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

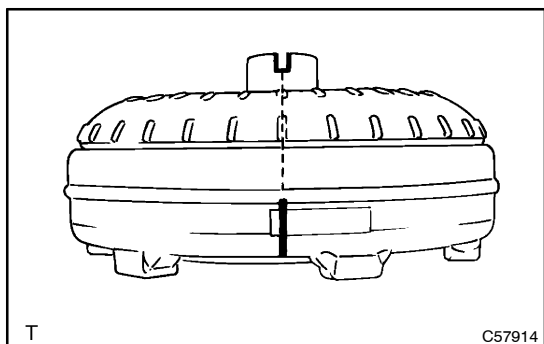
39. INSTALL TORQUE CONVERTER CLUTCH ASSY



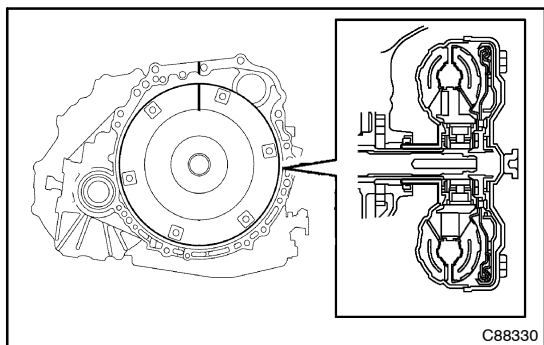
(a) Using vernier calipers, measure the dimension A between the transaxle and the end surface of the drive plate.



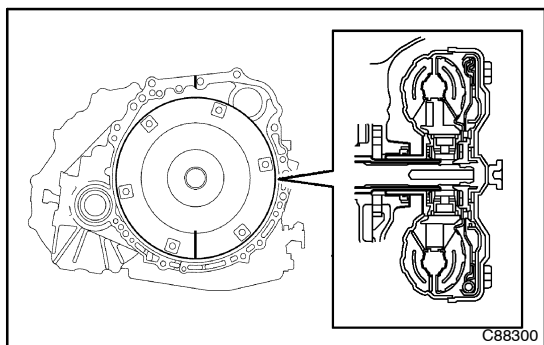
(b) Set the key of the front oil pump drive gear at the top and put a mark on the housing.



(c) Put a mark on the torque converter clutch so that its groove can be clearly indicated.



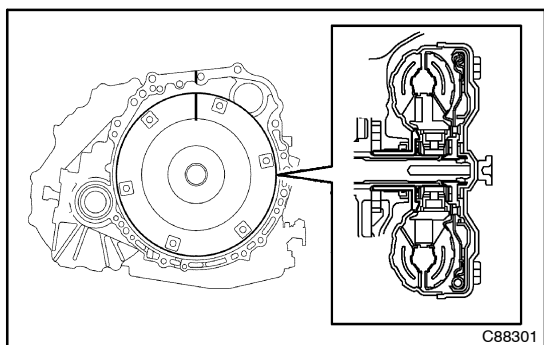
- (d) Match the 2 marks on the transaxle case and the torque converter clutch and fit the splined part of the input shaft to the spline part of the turbine runner.



- (e) Rotating the torque converter clutch, fit the spline part of the stator shaft with the spline part of the stator.

HINT:

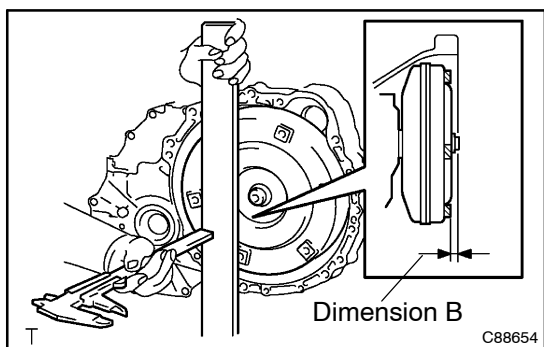
Rotate it about 180 degrees.



- (f) Rotating the torque converter clutch, match the 2 marks on the case and the torque converter clutch again and fit the key of the oil pump drive gear into the key way of the torque converter clutch.

NOTICE:

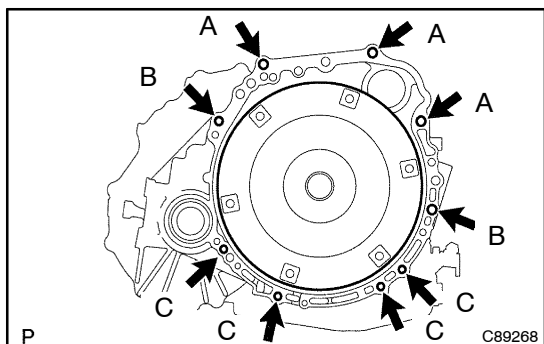
When rotating the torque converter clutch, do not push it by excessive force.



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

Standard: A + 1 mm or more

40. INSTALL AUTOMATIC TRANSAXLE ASSY



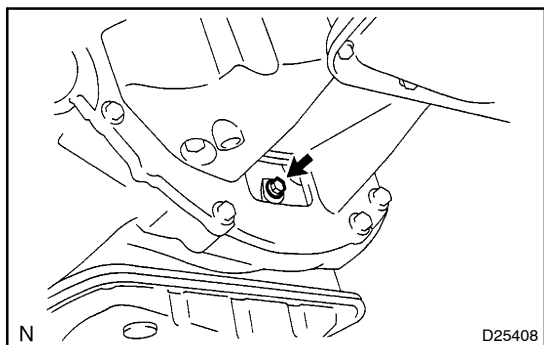
- (a) Install the automatic transaxle and 9 bolts to the engine.

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: 44 N·m (449 kgf·cm, 32 ft·lbf)

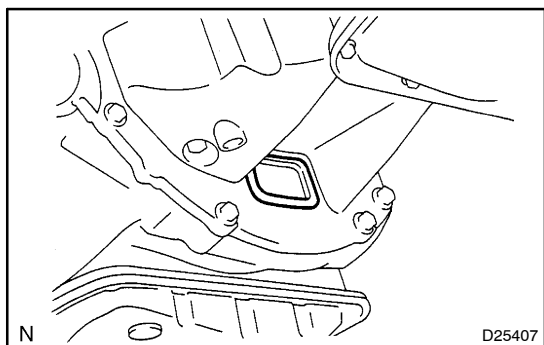


- (b) Install the 6 torque converter clutch mounting bolts.

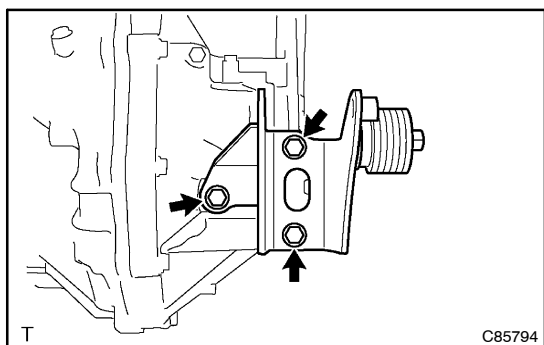
Torque: 41 N·m (420 kgf·cm, 30 ft·lbf)

HINT:

First install green colored bolt and then the 5 bolts.



41. INSTALL FLYWHEEL HOUSING UNDER COVER



42. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

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

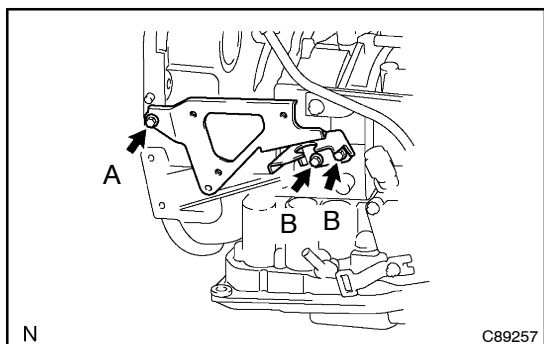
Torque: 64 N·m (652 kgf·cm, 47 ft·lbf)

43. INSTALL TRANSMISSION OIL FILLER TUBE SUB-ASSY

- (a) Coat a new O-ring with ATF, and install them to the oil filler tube.
 (b) Install the oil filler tube and bolt to the automatic transaxle.

Torque: 5.5 N·m (56 kgf·cm, 49 in·lbf)

- (c) Install the ATF lever gauge.



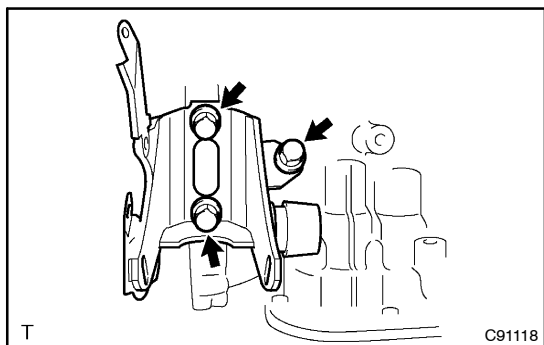
44. INSTALL TRANSMISSION CONTROL CABLE SUPPORT

- (a) Install the transmission control cable support and 3 bolts to the automatic transaxle.

Torque:

Bolt A: 18 N·m (184 kgf·cm, 13 ft·lbf)

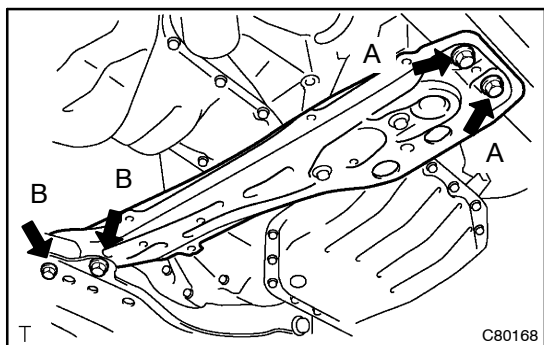
Bolt B: 12 N·m (122 kgf·cm, 8 ft·lbf)



45. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

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

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



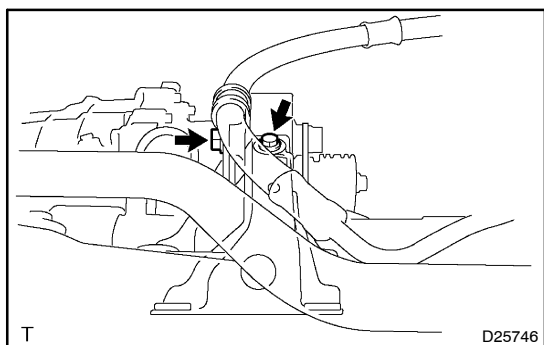
46. INSTALL ENGINE MOUNTING MEMBER SUB-ASSY CENTER

- (a) Install the center member and 4 bolts.

Torque:

Bolt A: 45 N·m (459 kgf·cm, 33 ft·lbf)

Bolt B: 80 N·m (816 kgf·cm, 59 ft·lbf)



47. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

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

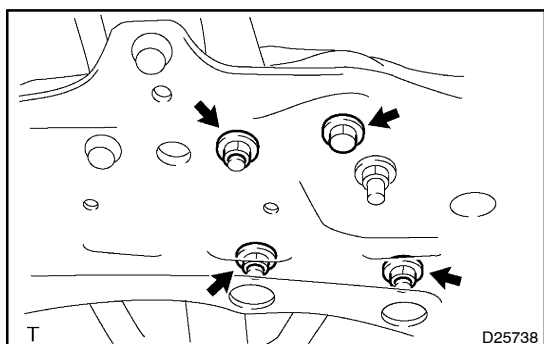
Torque: 87 N·m (887 kgf·cm, 64 ft·lbf)

- (b) Install the hose clamp and bolt to the engine mounting insulator RR.

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

- (c) Tighten the 3 nuts and bolt.

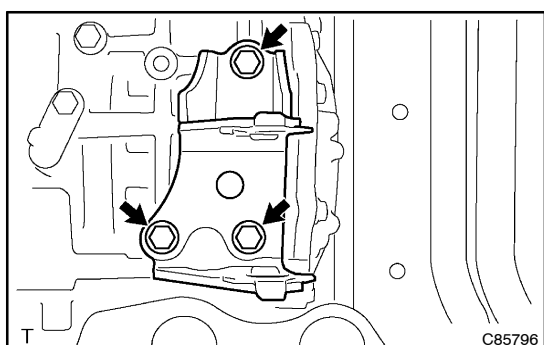
Torque: 80 N·m (816 kgf·cm, 59 ft·lbf)

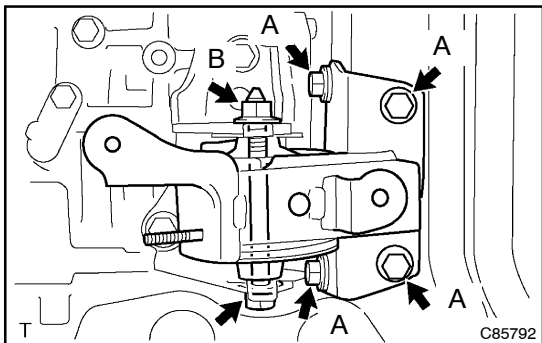


48. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

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

Torque: 64 N·m (653 kgf·cm, 47 ft·lbf)





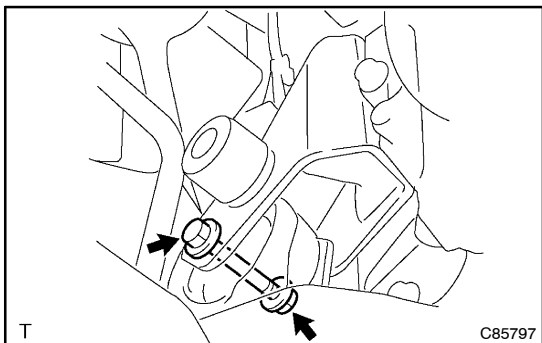
49. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

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

Torque:

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

Nut B: 56 N·m (571 kgf·cm, 41 ft·lbf)



50. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

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

Torque: 56 N·m (571 kgf·cm, 41 ft·lbf)

51. INSTALL FRONT DRIVE SHAFT ASSY LH

(See page 30-7)

52. INSTALL FRONT DRIVE SHAFT ASSY RH

(See page 30-7)

53. INSTALL EXHAUST PIPE ASSY FRONT

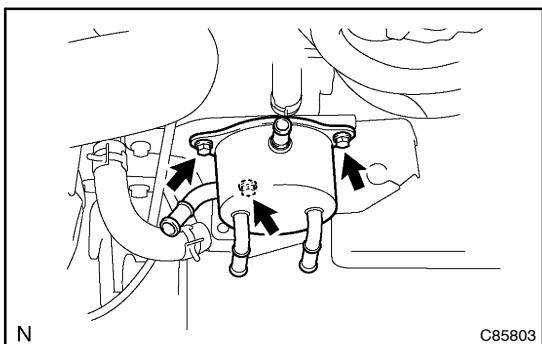
(See page 15-1)

54. INSTALL ENGINE UNDER COVER LH

55. INSTALL ENGINE UNDER COVER RH

56. INSTALL FRONT WHEEL

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



57. INSTALL TRANSMISSION OIL COOLER

- (a) Install the transmission oil cooler and 3 bolts to the automatic transaxle.

Torque: 18 N·m (184 kgf·cm, 13 ft·lbf)

58. INSTALL OIL COOLER OUTLET HOSE NO.2

- (a) Install the oil cooler outlet hose No. 2 with the 2 clips to the transmission oil cooler and automatic transaxle.

59. INSTALL OIL COOLER INLET HOSE NO.1

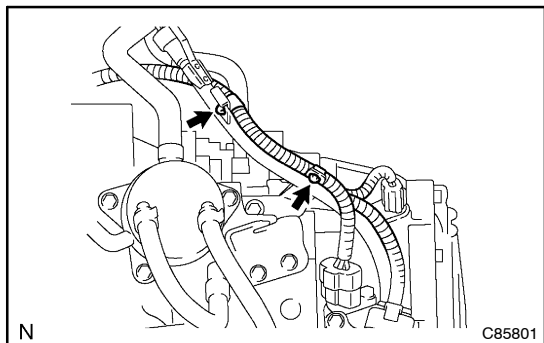
- (a) Install the oil cooler inlet hose No. 1 with the 2 clips to the transmission oil cooler and automatic trans-axle.

60. INSTALL WATER BY-PASS HOSE NO.5

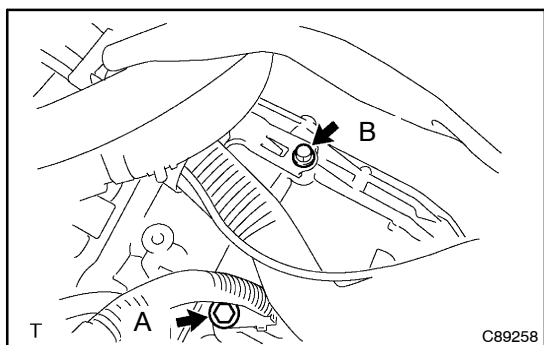
- (a) Install the water by-pass hose No. 5 with the clip to the transmission oil cooler.

61. INSTALL WATER BY-PASS HOSE NO.6

- (a) Install the water by-pass hose No. 6 with the clip to the transmission oil cooler.

**62. CONNECT CONNECTOR**

- (a) Connect the 2 wire harness clamps to the oil filler tube.
 (b) Connect the transmission wire connector.
 (c) Connect the park/neutral position switch connector.
 (d) Connect the 2 speed sensor connectors.

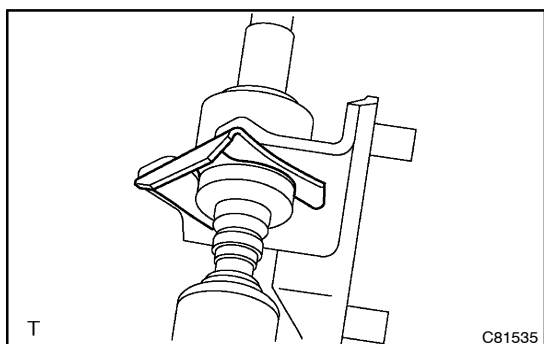
**63. INSTALL WIRE HARNESS**

- (a) Install the 2 wire harnesses with the 2 bolts.

Torque:

Bolt A: 26 N·m (265 kgf·cm, 19 ft·lbf)

Bolt B: 10 N·m (102 kgf·cm, 7 ft·lbf)

**64. INSTALL COLUMN SHIFT TRANSMISSION CONTROL CABLE ASSY**

- (a) Temporarily install the control cable to the control shaft lever with nuts.
 (b) Install the control cable and clip to the bracket.

65. INSTALL STARTER ASSY

- (a) Install the starter with the 2 bolts.
Torque: 37 N·m (377 kgf·cm, 27 ft·lbf)
 (b) Connect the connector.
 (c) Install the starter wire with the nut.
Torque: 9.8 N·m (100 kgf·cm, 87 in·lbf)

66. INSTALL AIR CLEANER ASSY

Torque: 5.0 N·m (50 kgf·cm, 44 in·lbf)

67. INSTALL ENGINE COVER SUB-ASSY NO.1

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

68. INSTALL COWL TOP PANEL SUB-ASSY OUTER

(See [page 26-7](#))

69. INSTALL WIPER LINK ASSY

(See [page 66-9](#))

70. INSTALL HOOD SUB-ASSY

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

71. INSPECT HOOD SUB-ASSY

(See [page 75-1](#))

72. ADJUST HOOD SUB-ASSY

(See [page 75-1](#))

73. ADD COOLANT**74. ADD AUTOMATIC TRANSAXLE FLUID****75. □ INSPECT AUTOMATIC TRANSAXLE FLUID (See [page 40-2](#))****76. □ ADJUST SHIFT LEVER POSITION (See [page 40-38](#))****77. □ INSPECT SHIFT LEVER POSITION (See [page 40-38](#))****78. □ INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See [page 26-4](#))****79. □ CHECK ABS SPEED SENSOR SIGNAL (See [page 05-295](#))**