

# MANUAL TRANSEXLE ASSY (1AZ-FE)

4104B-01

## REPLACEMENT

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 FRONT WHEEL

9. REMOVE ENGINE UNDER COVER RH

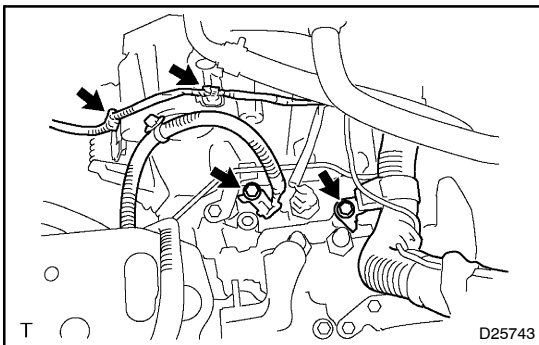
10. REMOVE ENGINE UNDER COVER LH

11. DRAIN TRANSAXLE OIL

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

12. REMOVE STARTER ASSY

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

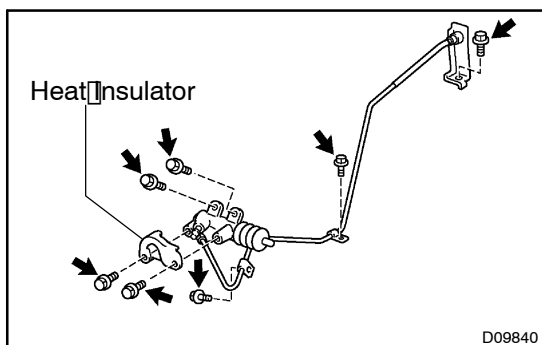


13. SEPARATE WIRE HARNESS

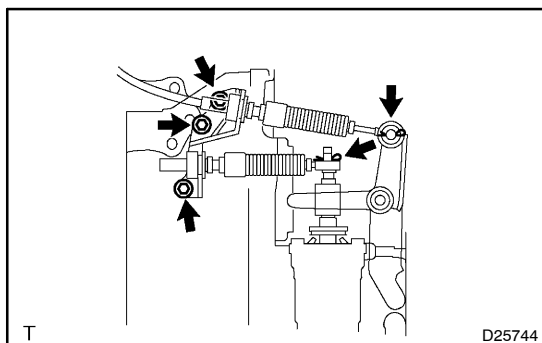
- (a) Separate the 2 wire harness clamps.
  - (b) Remove the 2 bolts, and separate the 2 wire harnesses.

14. SEPARATE CONNECTOR

- (a) Separate the back-up lamp switch connector.

**15. SEPARATE CLUTCH RELEASE CYLINDER ASSY**

- (a) Remove the 2 bolts and heat insulator.
- (b) Remove the 5 bolts and separate the release cylinder.

**16. SEPARATE FLOOR SHIFT TRANSMISSION CONTROL CABLE ASSY**

- (a) Remove the 2 clips, 2 washers and 3 bolts and separate the control cable assy with bracket.

**17. REMOVE MANUAL TRANSMISSION CASE PROTECTOR**

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

**18. REMOVE FRONT DRIVE SHAFT ASSY RH**

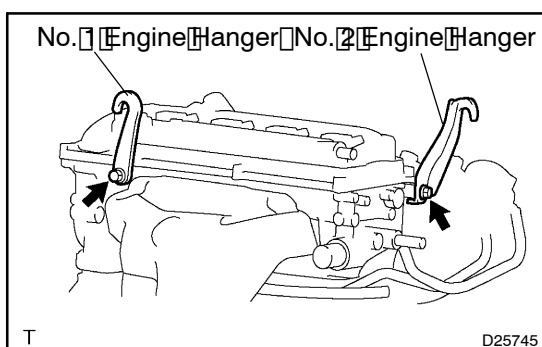
(See [page 30-7](#))

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

**19. REMOVE FRONT DRIVE SHAFT ASSY LH**

(See [page 30-7](#))

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

**20. 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:**

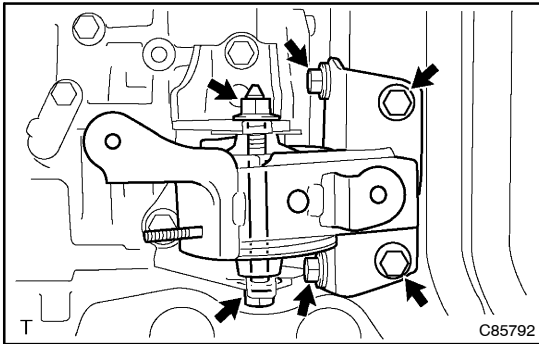
**Do not attempt to hang the engine by hooking the chain to any other part.**

**21. REMOVE EXHAUST PIPE ASSY FRONT**

(See [page 15-1](#))

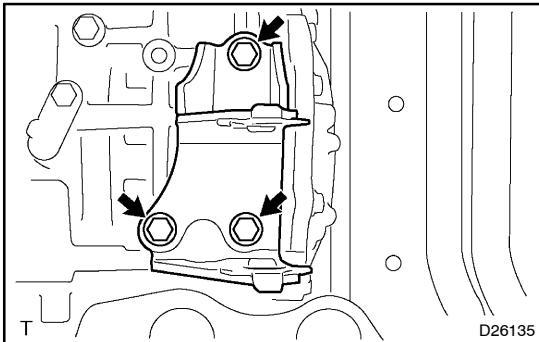
**22. SUPPORT MANUAL TRANSAXLE ASSY**

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



### 23. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

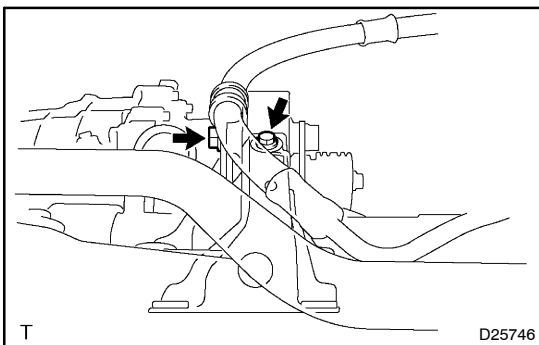
- (a) Remove the 5 bolts, nut and engine mounting insulator LH.



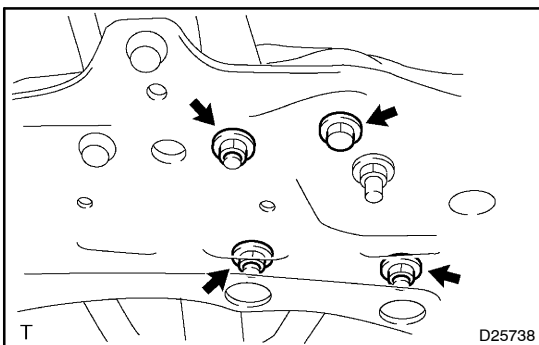
### 24. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

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

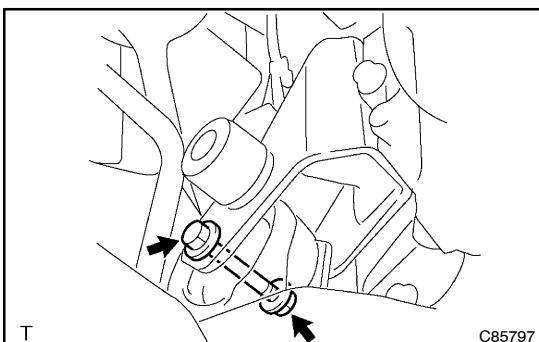
### 25. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR



- (a) Remove the 2 bolts.

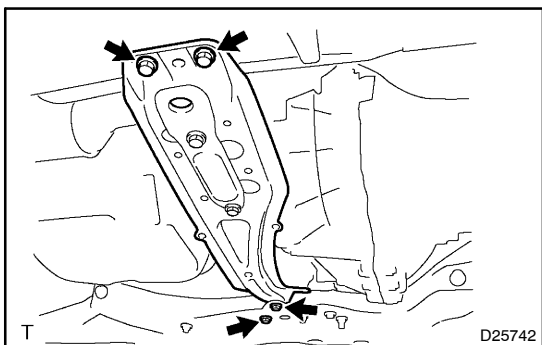


- (b) Remove the 3 nuts, bolt and engine mounting insulator RR from suspension member.



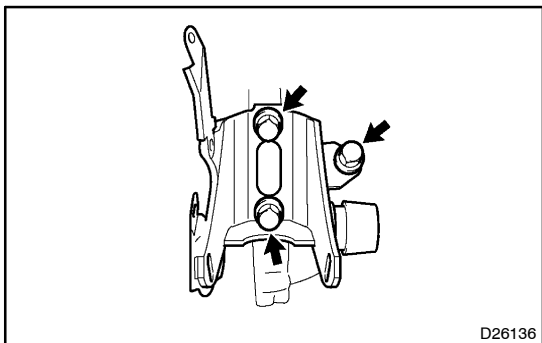
### 26. SEPARATE TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

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



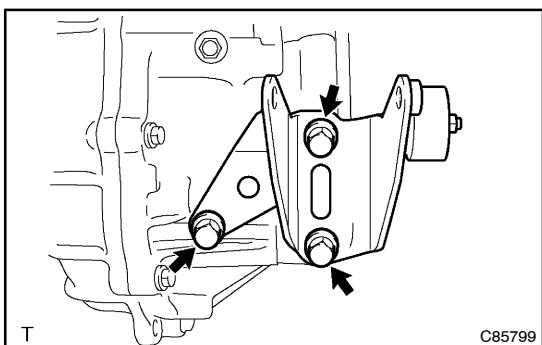
## 27. REMOVE ENGINE MOUNTING MEMBER SUB-ASSY CENTER

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



## 28. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

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

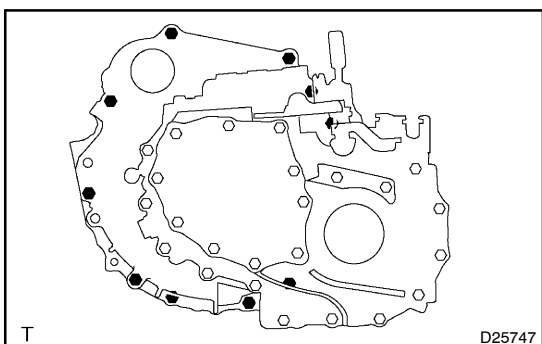


## 29. REMOVE TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

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

## 30. REMOVE MANUAL TRANSAXLE ASSY

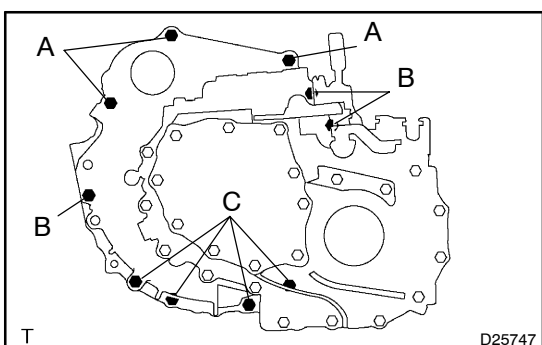
- (a) Separate the wire harness clamp.



- (b) Remove the 10 bolts.  
(c) Separate and remove the transaxle from the engine.

## 31. INSTALL MANUAL TRANSAXLE ASSY

- (a) Align the input shaft with the clutch disc and install the transaxle to the engine.



- (b) Install the 10 bolts.

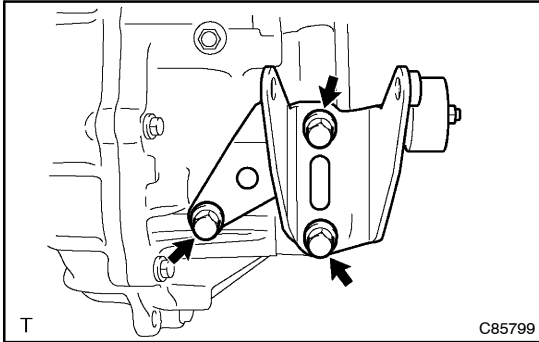
### Torque:

**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)**

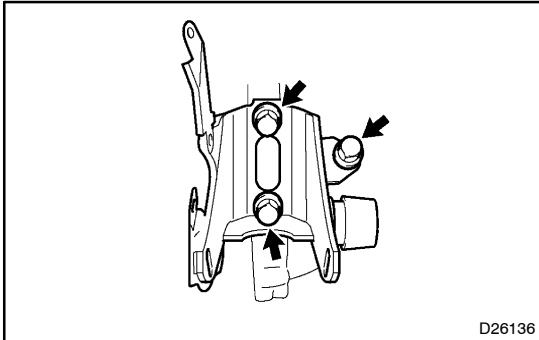
- (c) Connect the wire harness clamp.



### 32. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

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

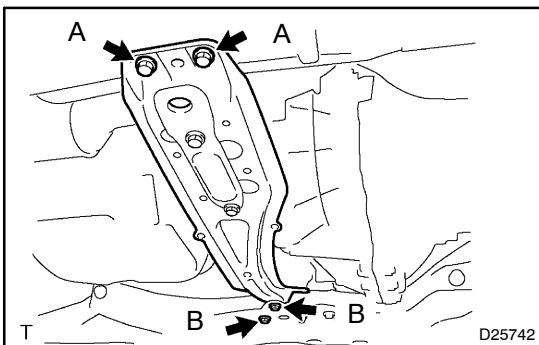
**Torque: 64 N·m (652 kgf·cm, 47 ft·lbf)**



### 33. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

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

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



### 34. INSTALL ENGINE MOUNTING MEMBER SUB-ASSY CENTER

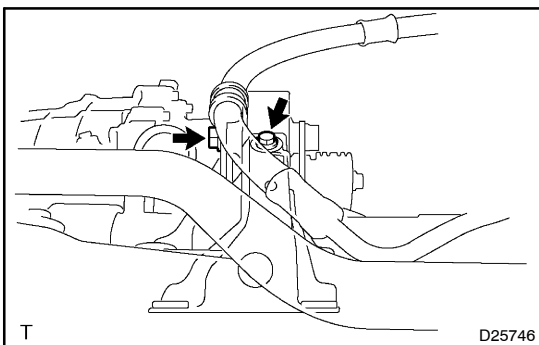
- (a) Install the center member with the 4 bolts.

**Torque:**

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

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

### 35. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

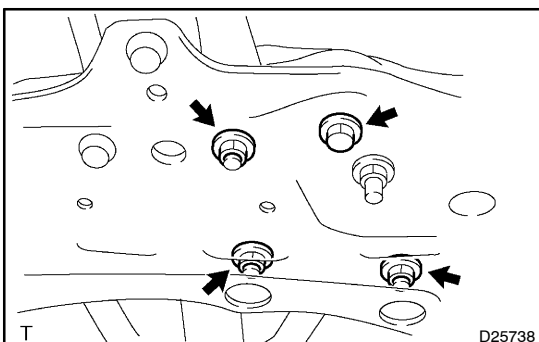


- (a) Install the engine mounting insulator RR to the engine mounting bracket RR with the bolt.

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

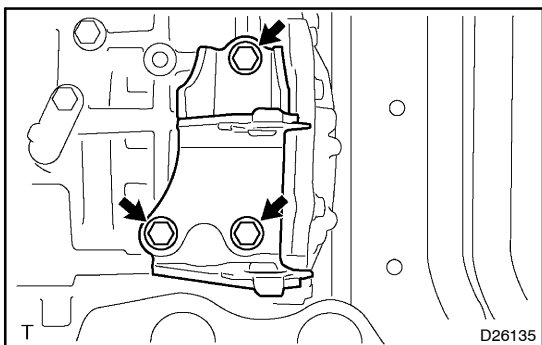
- (b) Install the hose clamp to the engine mounting insulator RR with the bolt.

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



- (c) Tighten the 3 nuts and bolt.

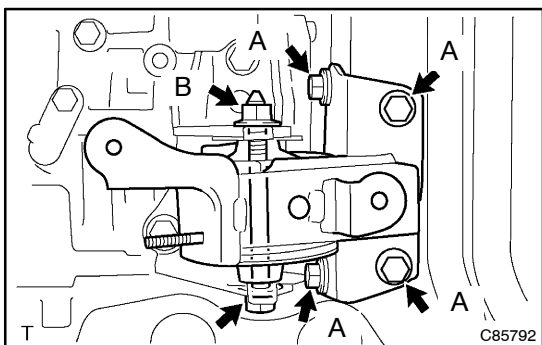
**Torque: 80 N·m (816 kgf·cm, 59 ft·lbf)**



### 36. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING BRACKET

- (a) Install the engine mounting bracket LH to the transaxle with the 3 bolt.

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



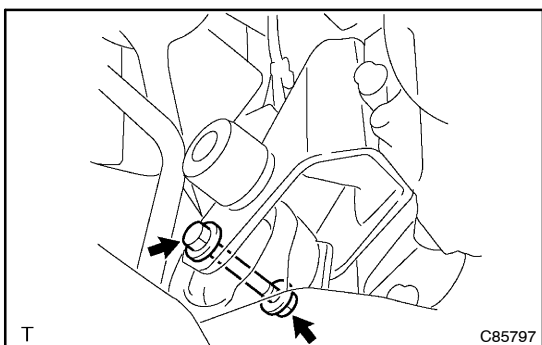
### 37. INSTALL TRANSVERSE ENGINE ENGINE MOUNTING INSULATOR

- (a) Install the engine mounting insulator LH with the 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)**



### 38. 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)**

### 39. INSTALL EXHAUST PIPE ASSY FRONT

(See page 15-1)

### 40. INSTALL FRONT DRIVE SHAFT ASSY LH

(See page 30-7)

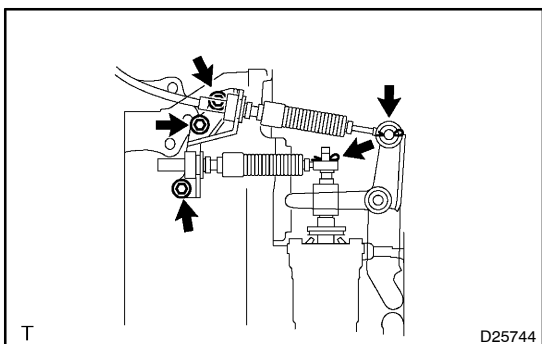
### 41. INSTALL FRONT DRIVE SHAFT ASSY RH

(See page 30-7)

### 42. INSTALL MANUAL TRANSMISSION CASE PROTECTOR

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

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

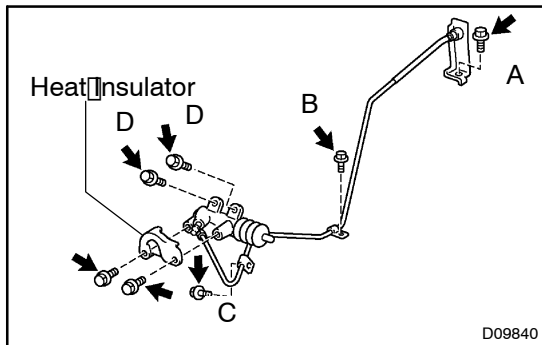


### 43. INSTALL FLOOR SHIFT TRANSMISSION CONTROL CABLE ASSY

- (a) Install the control cable assy with the 3 bolts.

**Torque: 17 N·m (173 kgf·cm, 13 ft·lbf)**

- (b) Connect the cable end, and install the 2 washers and 2 clips.

**44. INSTALL CLUTCH RELEASE CYLINDER ASSY**

- (a) Install the release cylinder with the 5 bolts.

**Torque:**

**Bolt A:** 12 N·m (120 kgf·cm, 9 ft·lbf)

**Bolt B:** 25 N·m (255 kgf·cm, 18 ft·lbf)

**Bolt C:** 5.0 N·m (51 kgf·cm, 44 in·lbf)

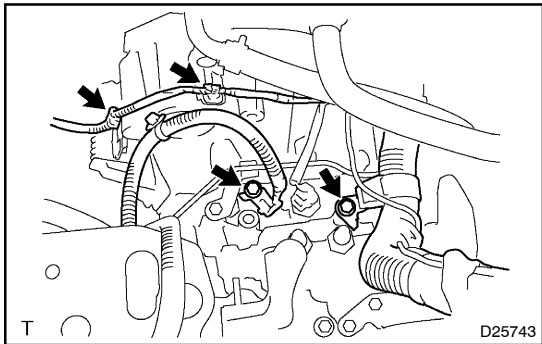
**Bolt D:** 11.8 N·m (120 kgf·cm, 9 ft·lbf)

- (b) Install the heat insulator with the 2 bolts.

**Torque:** 11.8 N·m (120 kgf·cm, 9 ft·lbf)

**45. CONNECT CONNECTOR**

- (a) Connect the back-up lamp switch connector.

**46. CONNECT WIRE HARNESS**

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

**Torque:** 10 N·m (102 kgf·cm, 7 ft·lbf)

- (b) Connect the 2 wire harness clamps.

**47. INSTALL STARTER ASSY**

- (a) Connect the starter connector.
- (b) Install the starter assy to the transaxle with the 2 bolts.

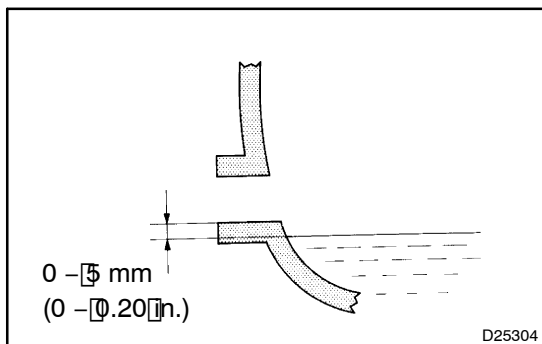
**Torque:** 37 N·m (378 kgf·cm, 27 ft·lbf)

- (c) Install the wire to starter assy with the nut.

**Torque:** 9.8 N·m (100 kgf·cm, 87 in·lbf)

**48. INSTALL AIR CLEANER ASSY**

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

**49. ADD TRANSAXLE OIL**

**Oil grade:** API GL-4 or GL-5

**Viscosity:** SAE 75 W-90

**Capacity:** 2.5 liters (2.6 US qts, 2.2 Imp. qts)

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

**50. INSPECT TRANSAXLE OIL (See page 41-2)****51. INSTALL FRONT WHEEL**

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

**52. INSTALL ENGINE COVER SUB-ASSY NO.1**

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

**53. INSTALL COWL TOP PANEL SUB-ASSY OUTER**

(See page 26-7)

**54. INSTALL WIPER LINK ASSY**

(See page 66-9)

**55. INSTALL HOOD SUB-ASSY**

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

**56. INSPECT HOOD SUB-ASSY**

(See page 75-1)

**57. ADJUST HOOD SUB-ASSY**

(See page 75-1)

**58. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT (See page 26-4)****59. CHECK ABS SPEED SENSOR SIGNAL (See page 05-295)**