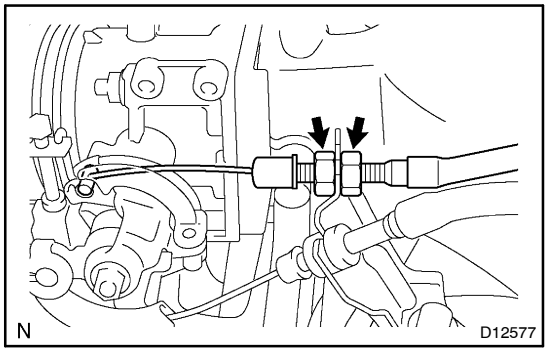
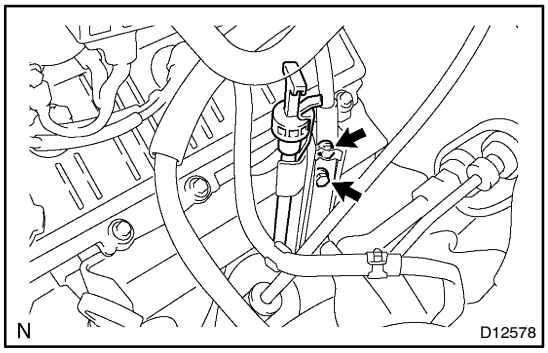
AT11G–01

REMOVAL



1. DISCONNECT THROTTLE CABLE FROM THROTTLE BODY

2. REMOVE ATF LEVEL GAUGE



3. REMOVE OIL FILLER PIPE

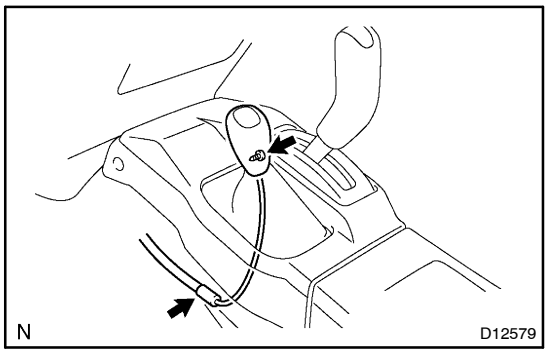
Disconnect the throttle cable and wire harness from the bracket and remove the 3 bolts and oil filler pipe with the O–ring.

Torque: 12 N·m (120 kgf·cm, 9 ft·lbf)

HINT:

At the time of installation, please refer to the following item.

Replace the used O–ring with a new one.



4. REMOVE TRANSMISSION SHIFT LEVER ASSEMBLY AND TRANSFER SHIFT LEVER

(a) Remove the transmission shift lever knob.

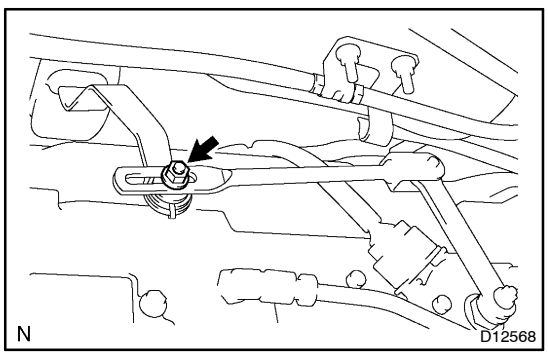
(b) w/o One Touch 2–4 Selector System:
Remove the transfer shift lever knob.

(c) w/ One Touch 2–4 Selector System:
Remove the screw and disconnect the transfer shift lever knob.

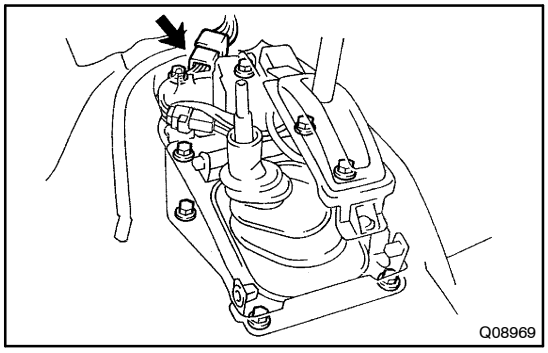
(d) w/ One Touch 2–4 Selector System:
Disconnect the connector and remove the transfer shift lever knob.

(e) Remove the 2 bolts, 2 screws and rear console box.

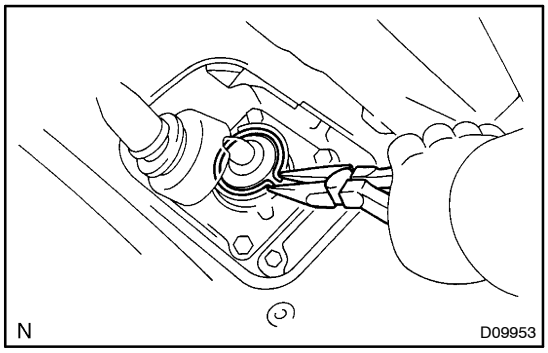
(f) Remove the 2 screws and front console box.



(g) Remove the nut and disconnect the shift control rod.
Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)



(h) Disconnect the connector and remove the 8 bolts and transmission shift lever assembly.
Torque: 5.9 N·m (60 kgf·cm, 52 in.·lbf)



(i) Using snap ring pliers, remove the snap ring and pull out the shift lever.

HINT:
- w/o One touch 2–4 Selector system:
  Shift the transfer shift lever to the ”H4” position.
- w/ One touch 2–4 selector system:
  Shift the transfer shift lever to the ”H” position and turn the 2–4 selector switch OFF.
- At the time of installation, apply MP grease to the tip of the shift lever.

5. REMOVE ENGINE UNDER COVER

Remove 4 bolts and engine under cover.
Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)

6. REMOVE TRANSFER PROTECTOR

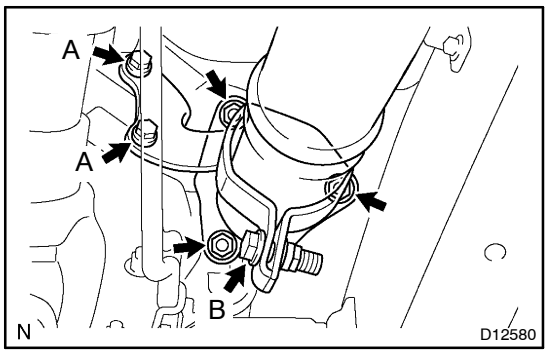
Remove 2 bolts and transfer protector.
Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)

7. REMOVE AUTOMATIC TRANSMISSION PROTECTOR

Remove 3 bolts and automatic transmission protector.
Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)

8. DISCONNECT STABILIZER BAR BRAKETS

Remove the 4 bolts and disconnect the right and left stabilizer bar bracket.
Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)



9. REMOVE FRONT EXHAUST PIPE

(a) Disconnect the 2 rings.
(b) Remove the 2 bolts, 2 nuts and gasket.
Torque: 48 N·m (490 kgf·cm, 35 ft·lbf)

HINT:
At the time of installation, please refer to the following item.
Replace the used gasket with new one.

(c) Disconnect the oxygen sensor connector.
(d) Remove the 3 bolts and bracket.

Torque:
BOLT A: 71 N·m (720 kgf·cm, 54 ft·lbf)
BOLT B: 19 N·m (200 kgf·cm, 14 ft·lbf)

(e) Remove the 3 nuts, front exhaust pipe and gasket.
Torque: 62 N·m (630 kgf·cm, 46 ft·lbf)

HINT:
At the time of installation, please refer to the following item.
Replace the used gasket with new one.

10. REMOVE PROPELLER SHAFT NO.2 DUST COVER

Remove the 2 bolts, 2 nuts and No.2 dust cover.
Torque:
Bolt: 17·N·m (175 kgf·cm, 13 ft·lbf)
Nut: 13·N·m (135 kgf·cm, 10 ft·lbf)

11. REMOVE PROPELLER SHAFT DUST COVER

Remove the bolt, 2 transfer mounting bolts and dust cover.
Torque:
Bolt: 23 N·m (230 kgf·cm, 17 ft·lbf)
Transfer mounting bolt: 38 N·m (390 kgf·cm, 28 ft·lbf)

12. REMOVE FRONT AND REAR PROPELLER SHAFT (See Pub. No. RM585E, page PR–9)

13. DISCONNECT NO. 2 VEHICLE SPEED SENSOR CONNECTOR FROM TRANSMISSION

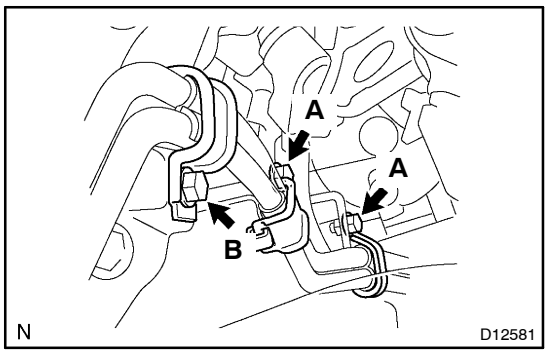
14. DISCONNECT SOLENOID CONNECTOR FROM TRANSMISSION

15. DISCONNECT ATF TEMPERATURE SENSOR CONNECTOR FROM TRANSMISSION

16. DISCONNECT NEUTRAL START SWITCH CONNECTOR FROM TRANSMISSION

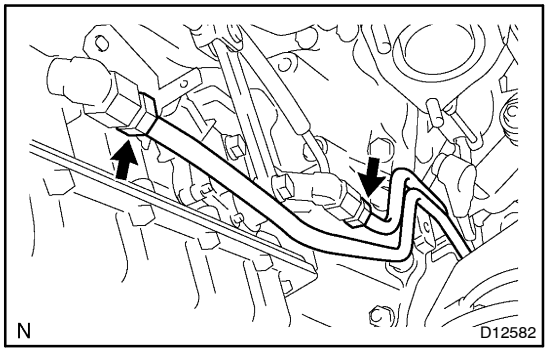
17. DISCONNECT TRANSFER INDICATOR SWITCH, VEHICLE SPEED SENSOR AND BACK–UP LIGHT SWITCH CONNECTORS

18. DISCONNECT WIRE HARNESS FROM TRANSMISSION AND TRANSFER

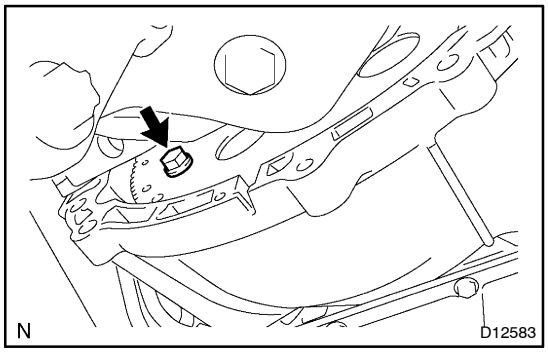


19. DISCONNECT OIL COOLER PIPE

(a) Remove the 3 bolts and oil cooler pipe clamps.
Torque:
Bolt A (10mm head bolt): 5.0 N·m (51 kgf·cm, 44 in.·lbf)
Bolt B (12mm head bolt): 12 N·m (120 kgf·cm, 9 ft·lbf)



(b) Disconnect the 2 oil cooler pipes.
Torque: 34 N·m (350 kgf·cm, 25 ft·lbf)

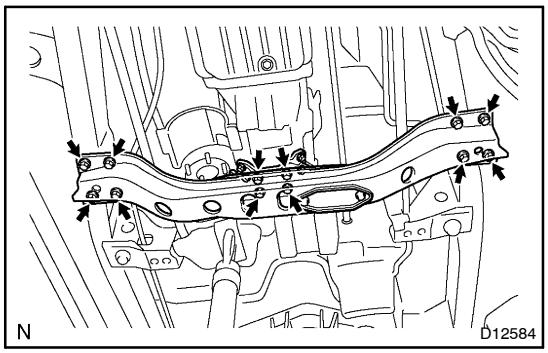


20. REMOVE REAR END PLATE AND TORQUE CONVERTER CLUTCH MOUNTING BOLT

(a) Remove the 3 bolts and rear end plate.
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

(b) Turn the crankshaft to gain access and remove the 6 bolts with holding the crankshaft pulley set bolt by a wrench.
Torque: 41 N·m (420 kgf·cm, 30 ft·lbf)

HINT:
At the time of installation, please refer to the following item.
First install green colored bolt and 5 other bolts.

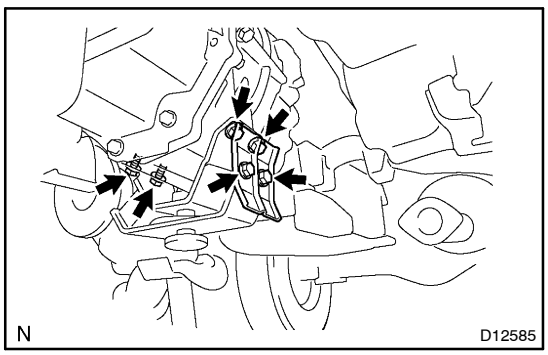


21. REMOVE NO. 3 CROSSMEMBER

(a) Support the transmission rear side with a support stand.

(b) Remove the 4 set bolts of the engine rear mounting.
Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

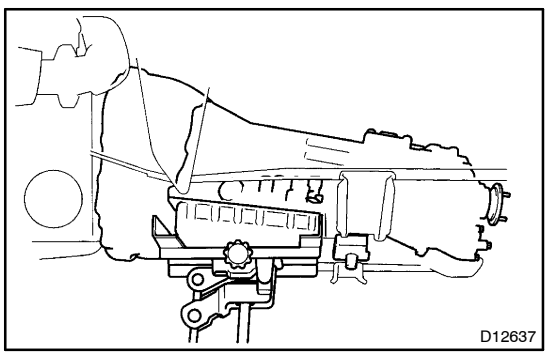
(c) Remove the 8 bolts and No. 3 crossmember.
Torque: 65 N·m (660 kgf·cm, 48 ft·lbf)



22. REMOVE ENGINE REAR MOUNTING

(a) Remove the 2 bolts and heat insulator.
Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

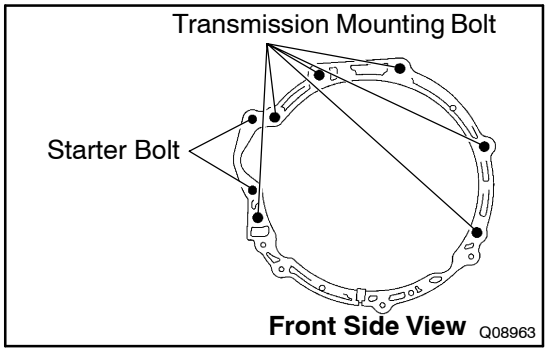
(b) Remove the 4 bolts and engine rear mounting from the transmission.
Torque: 40 N·m (410 kgf·cm, 29 ft·lbf)



23. JACK UP TRANSMISSION

(a) Support the transmission with a transmission jack.

(b) Remove a support stand from the transmission rear side.



24. REMOVE STARTER

(a) Remove the nut and disconnect the starter wire and connector.

Torque: 9.8 N·m (100 kgf·cm, 7 ft·lbf)

(b) Remove the 2 bolts and starter.

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

25. REMOVE TRANSMISSION

Remove the 6 bolts and transmission.

Torque: 71 N·m (720 kgf·cm, 54 ft·lbf)