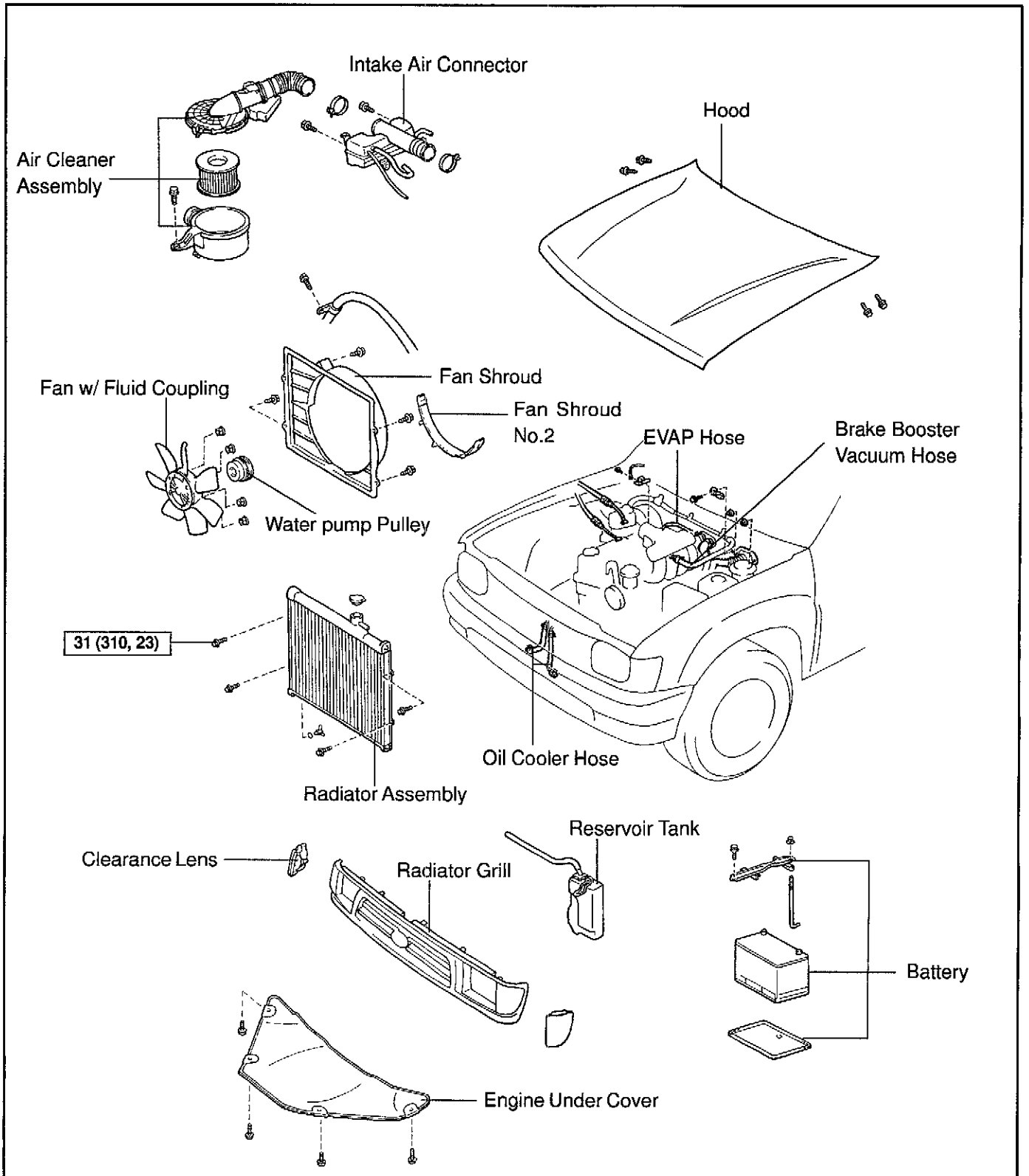
AUTOMATIC TRANSMISSION UNIT

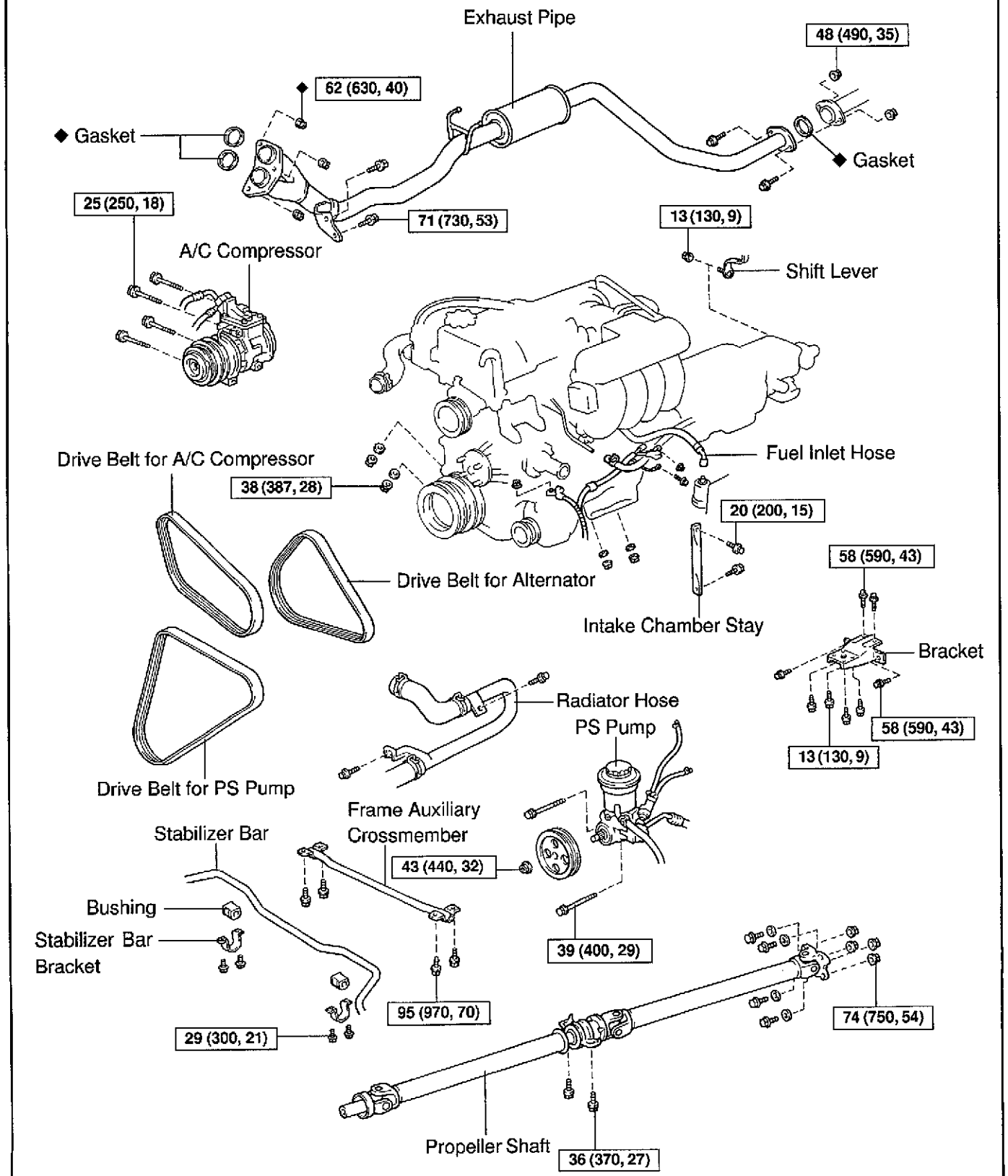
COMPONENTS

AT02Y–01



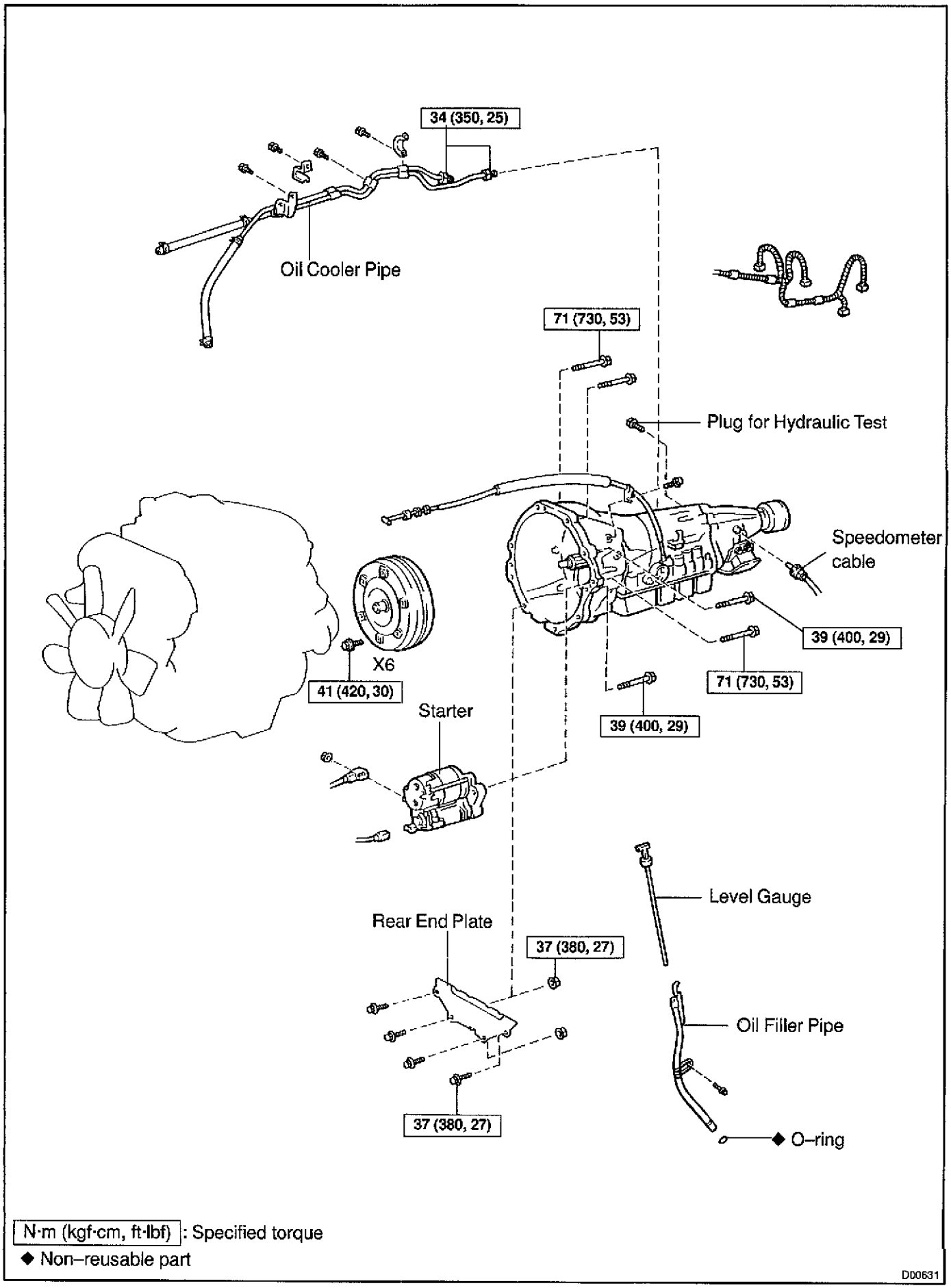
N·m (kgf·cm, ft·lbf) : Specified torque

D00629



N·m (kgf·cm, ft·lbf) : Specified torque
◆ Non–reusable part

D00630



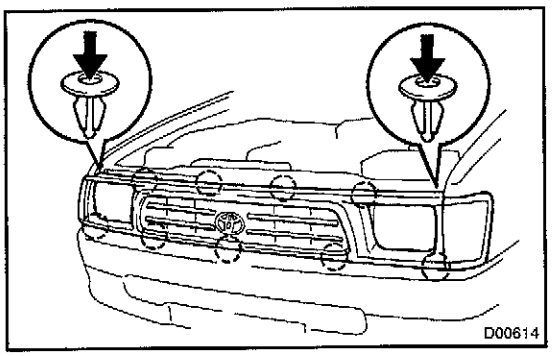
N·m (kgf·cm, ft·lbf) : Specified torque
◆ Non–reusable part

D00631

AT02Z–01

REMOVAL

1. **REMOVE BATTERY**
2. **REMOVE ENGINE UNDER COVER**
3. **DRAIN ENGINE COOLANT**
4. **DRAIN TRANSMISSION OIL**
5. **REMOVE HOOD**
6. **REMOVE RADIATOR RESERVOIR TANK**
7. **REMOVE AIR CLEANER ASSEMBLY**
8. **REMOVE INTAKE AIR CONNECTOR**
9. **DISCONNECT ACCELERATOR CABLE FROM THROTTLE BODY**



10. **REMOVE RADIATOR GRILLE**

(a) Remove the 2 clips and clearance lenses.

(b) Remove the 9 clips and radiator grille.

11. **w/ A/C:**
DISCONNECT A/C SUCTION HOSE

12. **REMOVE RADIATOR**

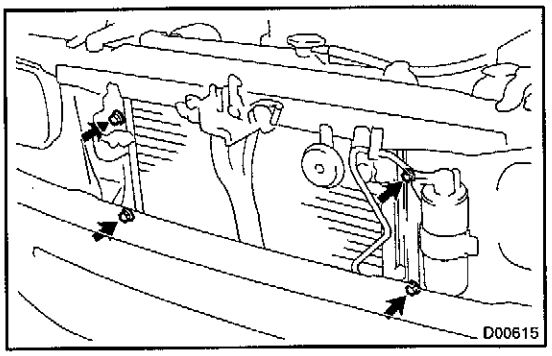
(a) Remove the bolt and disconnect the cooler hose.

(b) Disconnect the upper and lower radiator hoses.

(c) Remove the No.2 fan shroud.

(d) Remove the 4 bolts and No.1 fan shroud.

(e) Remove the 4 bolts and radiator.
Torque: 31 N·m (310 kgf·cm, 23 ft·lbf)

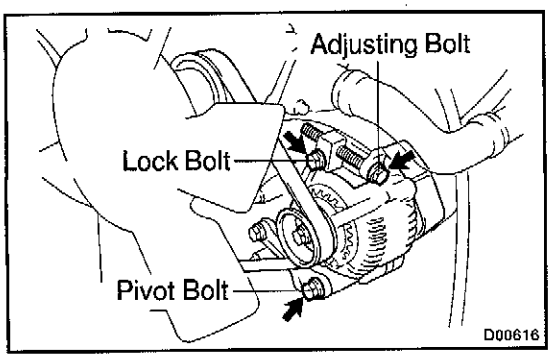


13. **REMOVE PS DRIVE BELT (See page SR–39)**

14. **w/ A/C:**
REMOVE A/C DRIVE BELT (See page AC–19)

15. **REMOVE DRIVE BELT, FAN WITH FLUID COUPLING, WATER PUMP PULLEY**

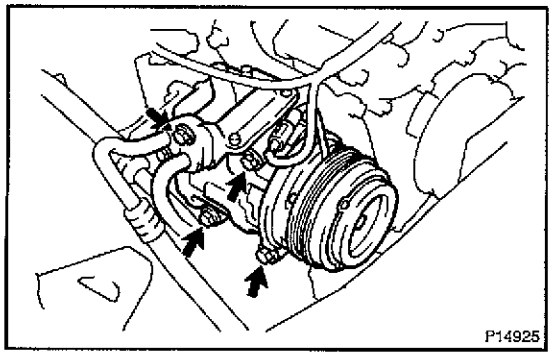
(a) Stretch the belt and loosen the water pump pulley mounting nuts.



(b) Loosen the lock, pivot and adjusting bolts of the alternator, and remove the drive belts.
Torque:
Pivot bolt: 59 N·m (600 kgf·cm, 43 ft·lbf)
Lock bolt: 29 N·m (300 kgf·cm, 21 ft·lbf)

(c) Remove the 4 water pump pulley mounting nuts.

(d) Pull out the fan with fluid coupling and water pump pulley.

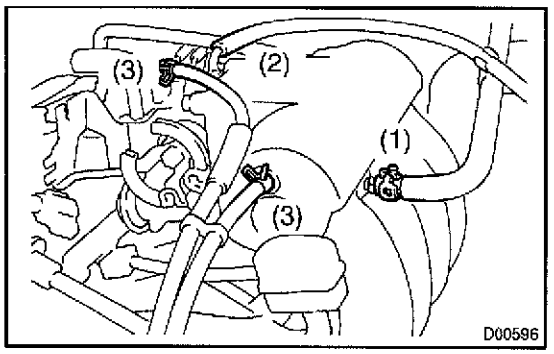


16. w/ A/C:
DISCONNECT A/C COMPRESSOR

(a) Disconnect the A/C compressor connector.
(b) Remove the 4 mounting bolts, and disconnect the compressor from the bracket.
Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)

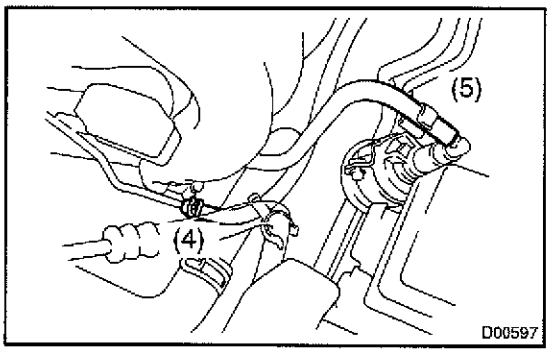
HINT:
Put aside the compressor, and suspend it.

17. DISCONNECT HEATER HOSES

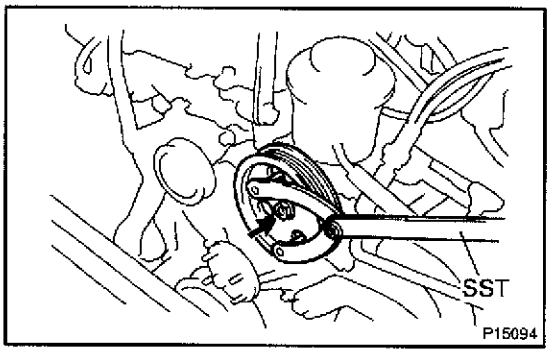


18. DISCONNECT HOSES

Disconnect these parts:
(1) Brake booster vacuum hose
(2) EVAP hose
(3) 2 PS air hoses



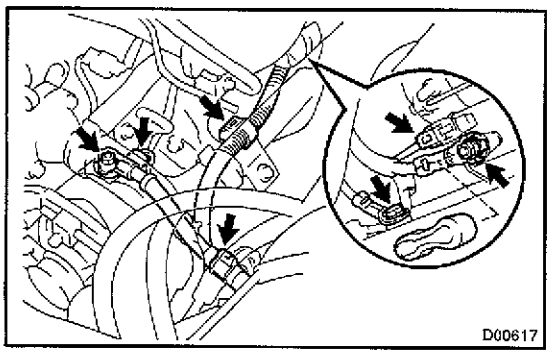
(4) Fuel return hose
(5) Fuel inlet hose



19. DISCONNECT PS PUMP

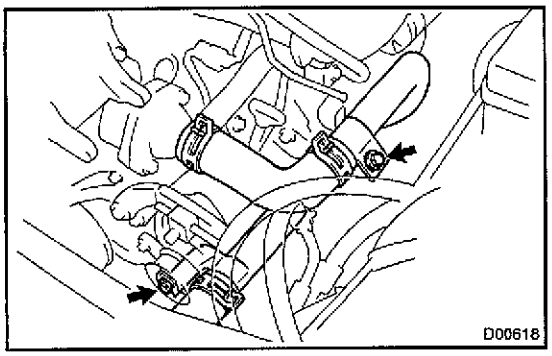
(a) Using SST, remove the nut and PS pump pulley.
Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)
SST 09960–10010 (09962–01000, 09963–01000)
(b) Remove the 2 bolts, and disconnect the PS pump.
Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

HINT:
Put aside the pump, and suspend it.



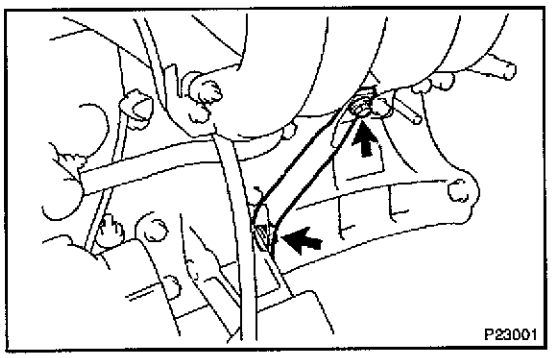
20. DISCONNECT ALTERNATOR WIRE, STARTER WIRE, GROUND CABLE AND 2 CLAMPS

(a) Disconnect the alternator connector.
(b) Remove the nut, and disconnect the alternator wire and wire clamp.
(c) Remove the nut, disconnect the starter wire and starter connector.
(d) Remove the bolt and ground cable.
(e) Disconnect the 2 clamps.



21. REMOVE LOWER RADIATOR HOSE

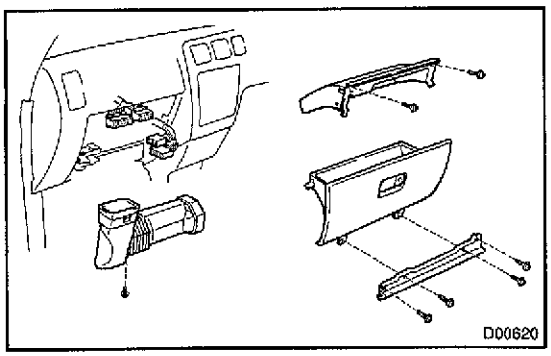
Remove the 2 bolts, clamp and lower radiator hose.



22. REMOVE INTAKE CHAMBER STAY

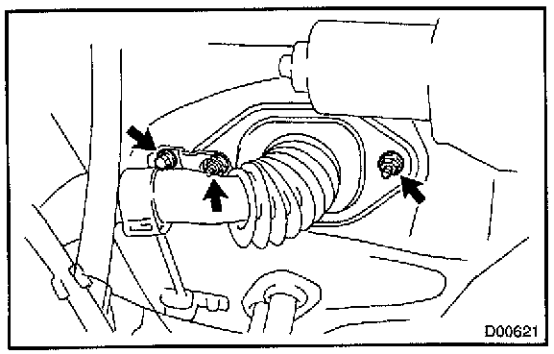
Remove the 2 bolts and intake chamber stay.

Torque: 20 N·m (200 kgf·cm, 15 ft·lbf)



23. DISCONNECT ECU WIRE

(a) Remove the groove compartment (See page BO–70).
(b) Remove the No.4 heater to resister duct.
(c) Disconnect the 4 ECU connectors.



(d) Remove the bolt and wire bracket.
(e) Remove the 2 nuts and pull out the ECU wire from cabin.

24. REMOVE ATF LEVEL GAUGE

25. JACK UP VEHICLE

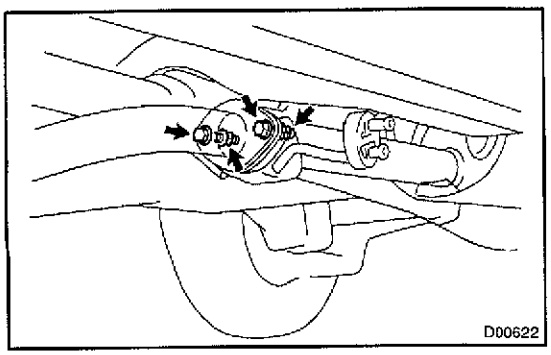
26. REMOVE OIL FILLER PIPE

Remove the bolt and oil filler pipe with O–ring.

HINT:

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

Replace used O–ring with a new one.

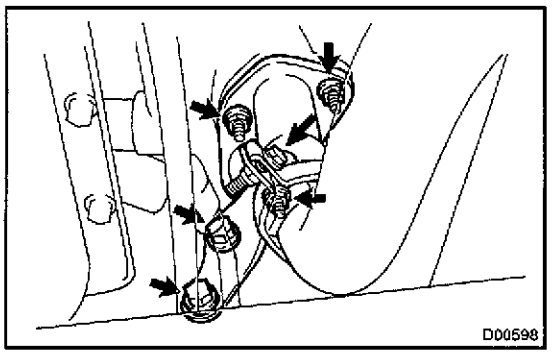


27. REMOVE PROPELLER SHAFT (See page PR–3)

28. REMOVE FRONT EXHAUST PIPE

(a) Remove the 2 bolts, nuts and retainer.

Torque: 48 N·m (490 kgf·cm, 35 ft·lbf)



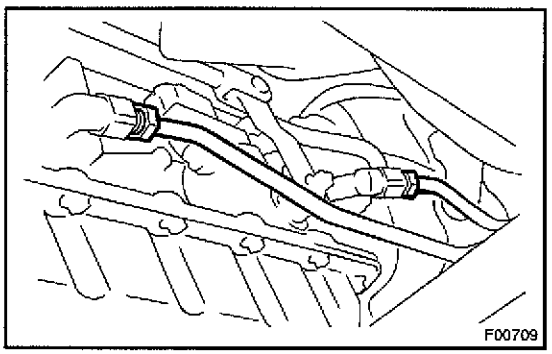
(b) Loosen the clamp bolt and disconnect the clamp from the support bracket.
Torque: 19 N·m (195 kgf·cm, 14 ft·lbf)
(c) Remove the 2 bolts and support bracket.
Torque: 71 N·m (730 kgf·cm, 53 ft·lbf)
(d) Remove the 3 nuts, front exhaust pipe and 3 gaskets.
Torque: 62 N·m (630 kgf·cm, 40 ft·lbf)

29. DISCONNECT SPEEDOMETER CABLE

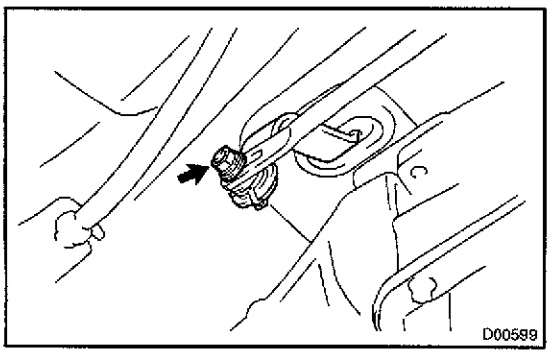
(a) Loosen the serrated collar with pliers. Do not loose the felt dust protector and washer.
(b) Disconnect the cable.

30. REMOVE OIL COOLER PIPE

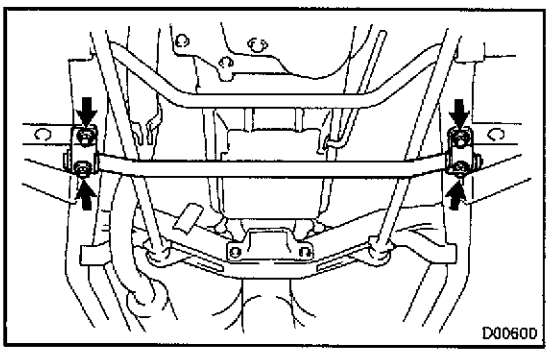
(a) Remove the 3 bolts and clamps.



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

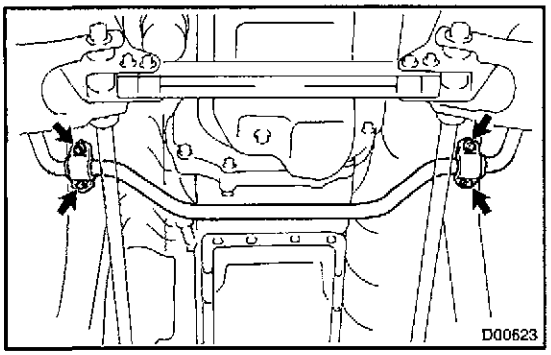


31. DISCONNECT SHIFT CONTROL ROD
Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)



32. REMOVE FRAME AUXILIARY CROSSMEMBER

Remove the 4 bolts and frame auxiliary crossmember.
Torque: 95 N·m (970 kgf·cm, 70 ft·lbf)

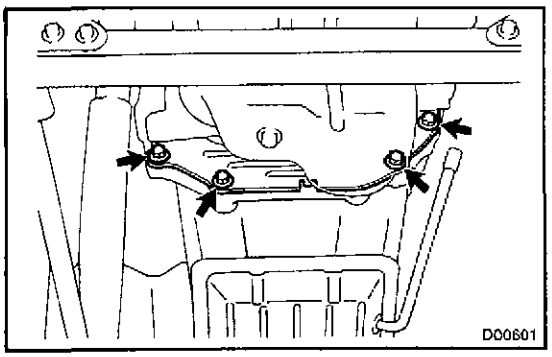


33. DISCONNECT STABILIZER BAR

Remove the 4 bolts and 2 brackets and disconnect the stabilizer bar.

Torque: 29 N·m (300 kgf·cm, 21 ft·lbf)

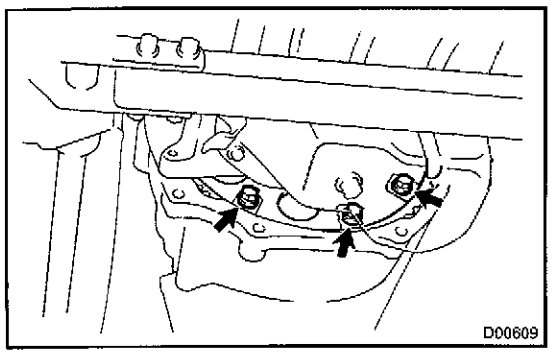
34. PLACE JACK UNDER TRANSMISSION



35. REMOVE REAR END PLATE

Remove the 4 bolts, 2 nuts and rear end plate.

Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)



36. REMOVE TORQUE CONVERTER MOUNTING BOLT

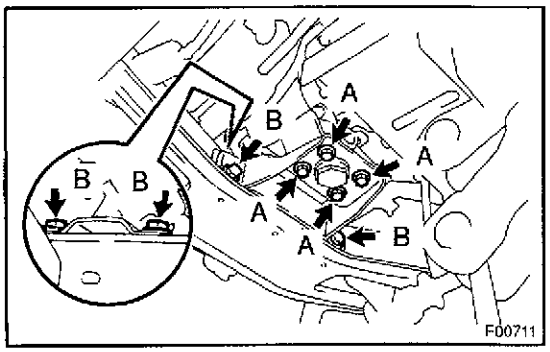
Turn the crankshaft to gain access to each bolt, remove the 6 bolts with holding the crankshaft pulley bolt with a wrench.

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

HINT:

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

First install green colored bolt and then 5 other bolts.



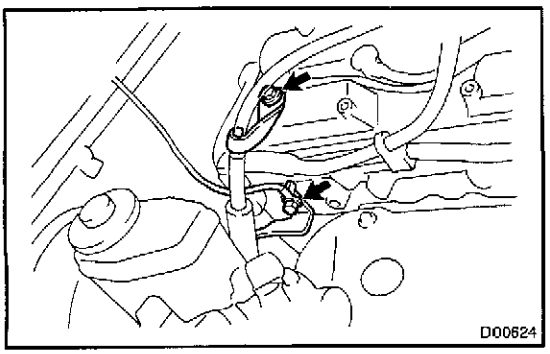
37. REMOVE ENGINE REAR MOUNTING BRACKET

Remove the 8 bolts and engine rear mounting bracket.

Torque:

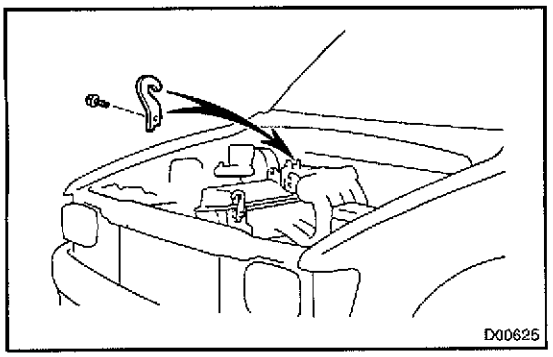
A bolt: 13 N·m (130 kgf·cm, 9 ft·lbf)

B bolt: 58 N·m (590 kgf·cm, 43 ft·lbf)

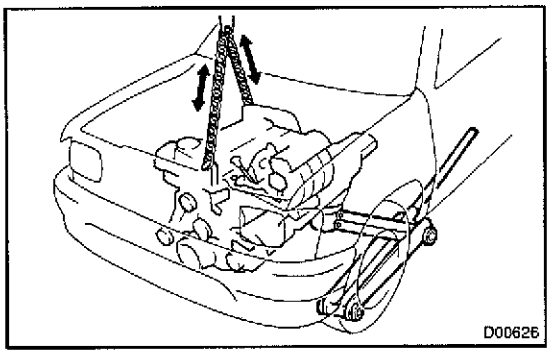


38. REMOVE ENGINE WITH TRANSMISSION

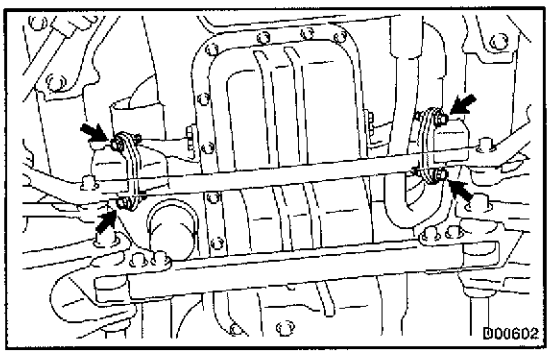
(a) Remove the bolt, throttle cable bracket and ground cable.



(b) Install a rear engine hanger in the correct direction.
Parts No.: HANGER, ENGINE, NO.2 12282–75020
BOLT 91512–61020
Torque: 42 N·m (420 kgf·cm, 30 ft·lbf)



(c) Attach the engine hoist chain to the 2 engine hangers.



(d) Remove the 4 bolts and nuts holding the engine front mounting insulators to the frame.
Torque: 38 N·m (387 kgf·cm, 28 ft·lbf)

(e) Lift the engine with transmission out of the vehicle slowly and carefully.

NOTICE:
Make sure the engine is clear of all wiring and hoses.

(f) Place the engine and transmission assembly onto the stand.

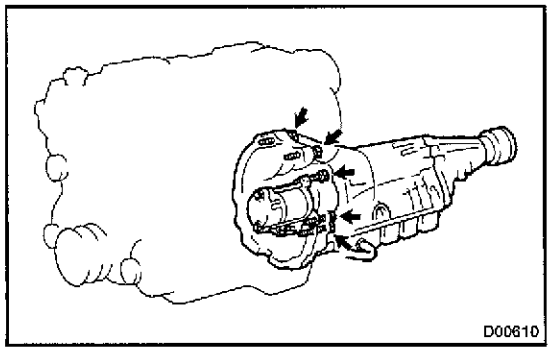
39. DISCONNECT THROTTLE CABLE

40. DISCONNECT NO.2 VEHICLE SPEED SENSOR CONNECTOR AND SOLENOID CONNECTOR

41. DISCONNECT ATF TEMPERATURE SENSOR CONNECTOR

42. DISCONNECT NEUTRAL START SWITCH CONNECTOR

43. DISCONNECT WIRE HARNESS CLAMPS FROM TRANSMISSION

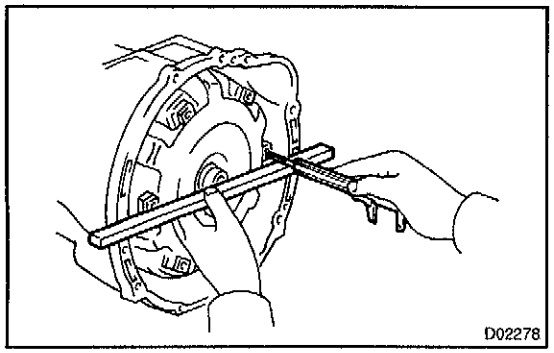


44. REMOVE TRANSMISSION FROM ENGINE

(a) Remove the 2 starter bolts and starter.
Torque: 39 N·m (400 kgf·cm, 29 ft·lbf)

(b) Remove the 3 transmission mounting bolts from the engine.
Torque: 71 N·m (730 kgf·cm, 53 ft·lbf)

(c) Pull out the transmission toward the rear.



AT030–01

INSTALLATION

1. CHECK TORQUE CONVERTER INSTALLATION

Using calipers and a straight edge, measure the distance from the installed surfaced of the transmission housing to torque converter.

Correct distance: 31.75 mm (1.2500 in.) more than

2. TRANSMISSION INSTALLATION

Installation is in the reverse order of removal (See page AT–30).

HINT:

- After installation, adjust the throttle cable and neutral start switch.
- Fill ATF and check fluid level (See page DI–4).
- Do test to drive the vehicle.