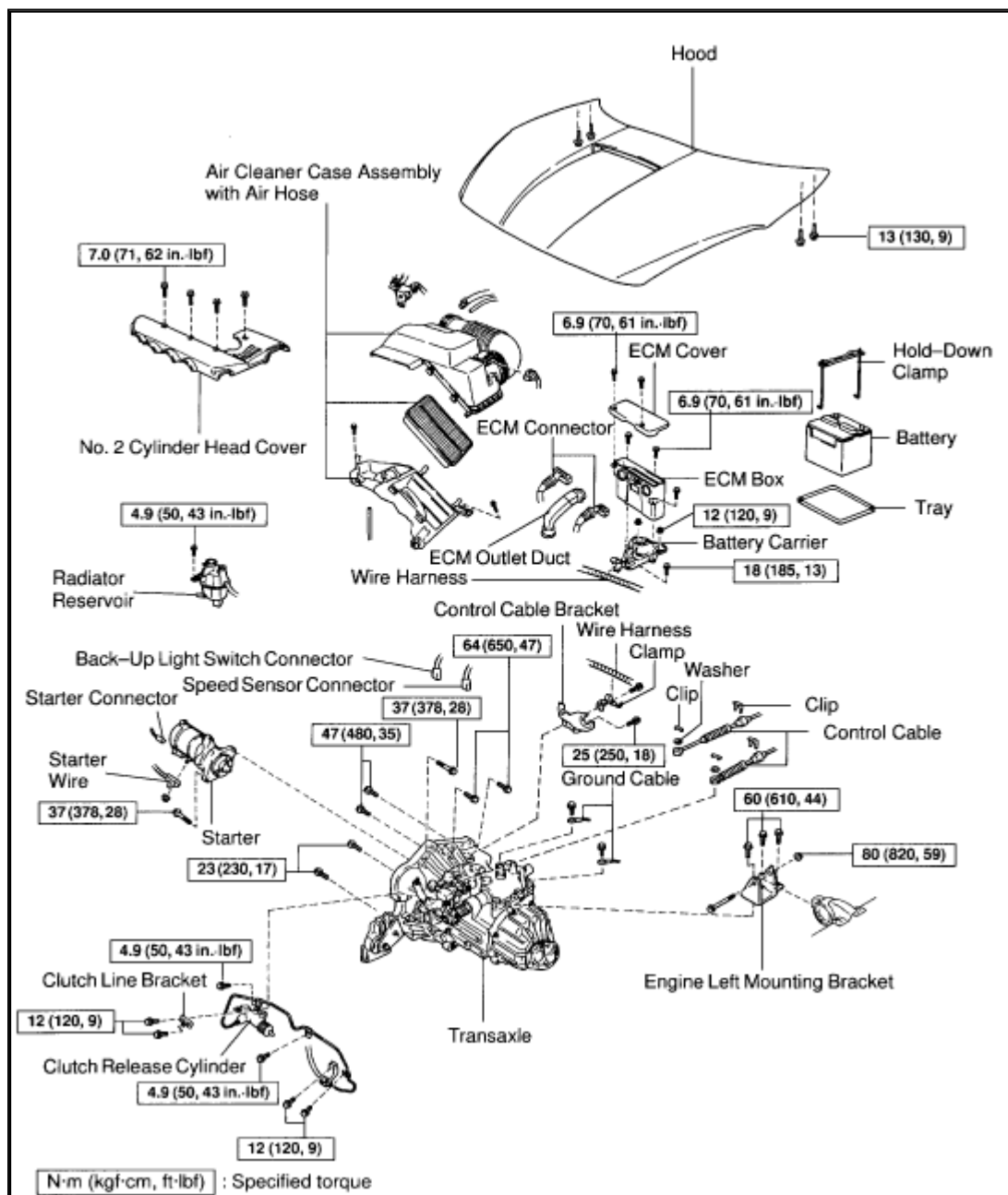
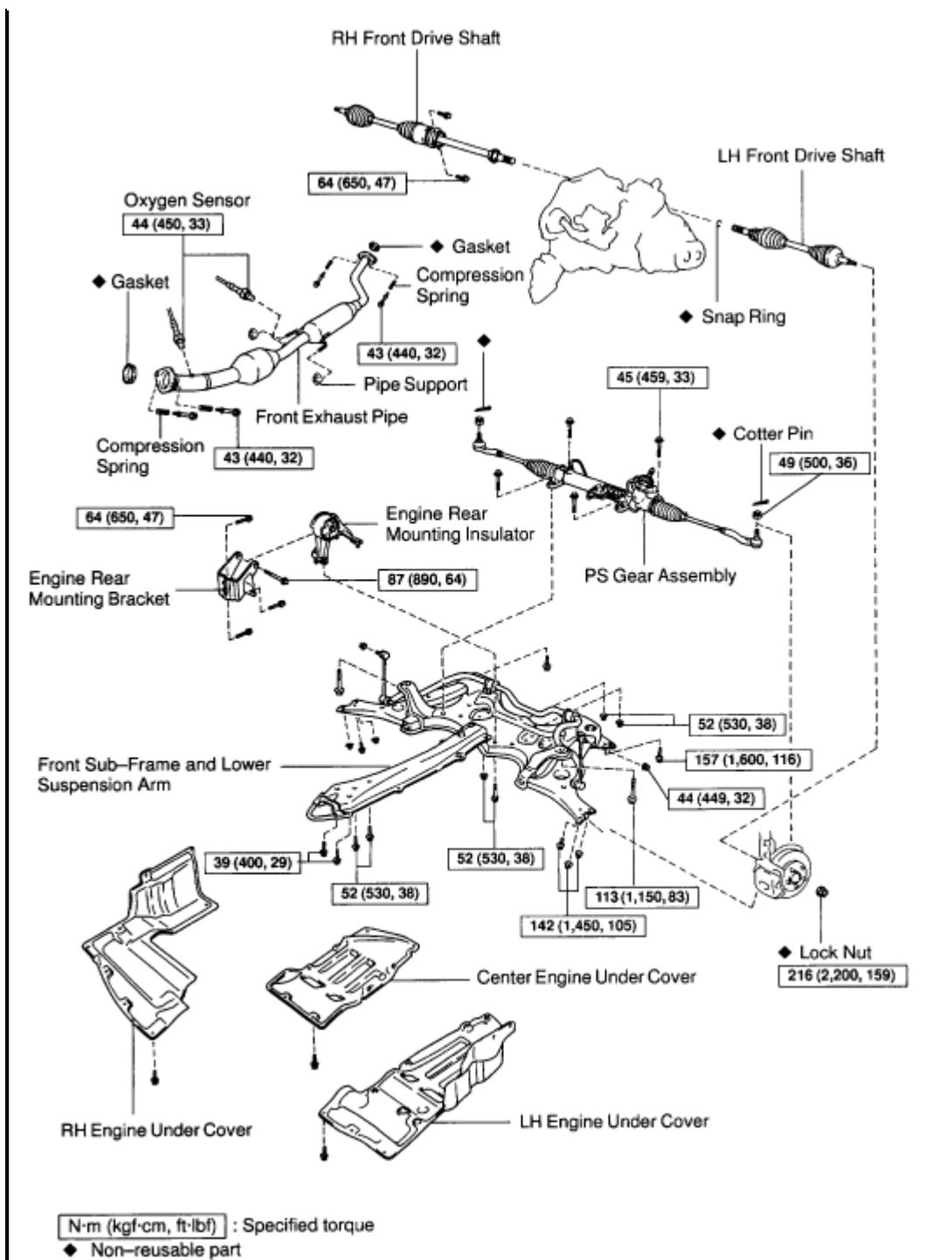


Removal and Installation





REMOVAL

1. REMOVE HOOD **HINT:**

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

2. REMOVE No.2 CYLINDER HEAD COVER Remove the 4 bolts and No.2 cylinder head cover. Torque: **7.0 Nm (71**

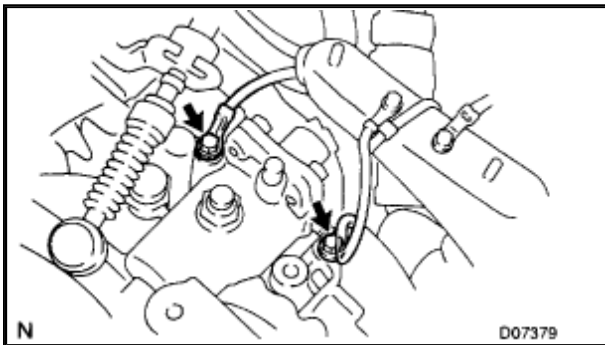
kgf-cm, 62 inch lbs.)

3. DISCONNECT RADIATOR RESERVOIR Remove the bolt and disconnect the radiator reservoir. Torque: **4.9 Nm (50 kgf-cm, 43 inch lbs.)**
4. REMOVE BATTERY
5. REMOVE AIR CLEANER [CASE](#) ASSEMBLY WITH AIR HOSE AND ECM BOX

- a) Remove the 2 bolts and ECM cover.
Torque: **6.9 Nm (70 kgf-cm, 61 inch lbs.)**
- b) Disconnect the ECM connectors from the ECM.
- c) Remove the ECM outlet duct.
- d) Remove the air cleaner [case](#) assembly with the air hose.
- e) Remove the 3 bolts and ECM box.
Torque: **6.9 Nm (70 kgf-cm, 61 inch lbs.)**
- f) Disconnect the wire harness, and remove the 2 nuts, bolt and battery carrier.
Torque:
Bolt: **18 Nm (185 kgf-cm, 13 ft. lbs.)**
Nut: **12 Nm (120 kgf-cm, 9 ft. lbs.)**

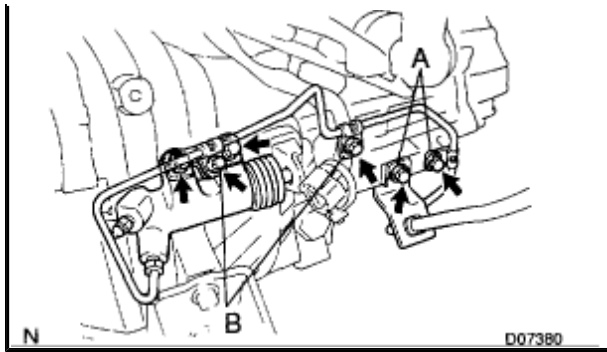
6. DISCONNECT [CONTROL CABLE](#)

- a) Remove the 2 clips and washers.
- b) Remove the 2 clips and disconnect the control cables from the transaxle.



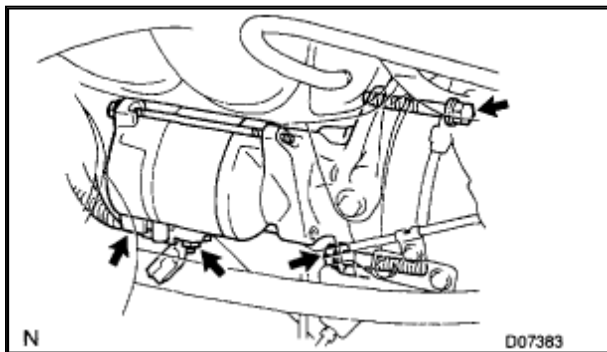
7. DISCONNECT GROUND CABLE Remove the 2 set bolts of the 2 ground cables from the transaxle.
8. DISCONNECT SPEED SENSOR AND BACK-UP LIGHT SWITCH CONNECTORS





9. DISCONNECT [CLUTCH RELEASE CYLINDER](#)

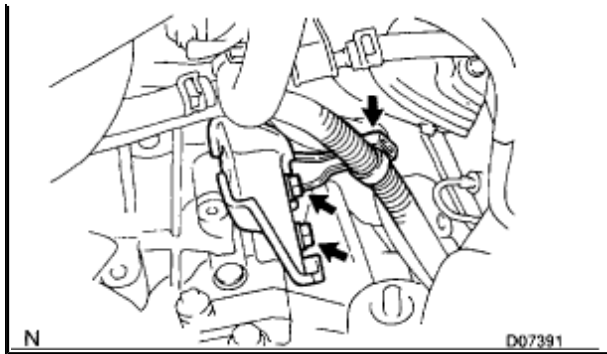
- a) Remove the 4 set bolts of the clutch line.
Torque:
Bolt A: **12 Nm (120 kgf-cm, 9 ft. lbs.)**
Bolt B: **4.9 Nm (50 kgf-cm, 43 inch lbs.)**
- b) Remove the 2 set bolts of the [clutch release cylinder](#) and clutch line bracket.
Torque: **12 Nm (120 kgf-cm, 9 ft. lbs.)**



10. REMOVE STARTER

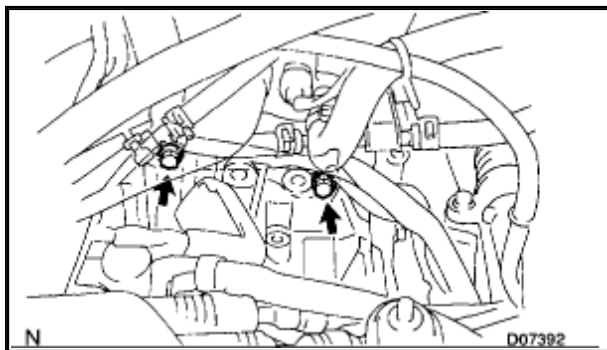
- a) Disconnect the starter connector.
- b) Remove the nut and disconnect the starter wire.
- c) Remove the 2 bolts and starter.
Torque: **37 Nm (378 kgf-cm, 28 ft. lbs.)**



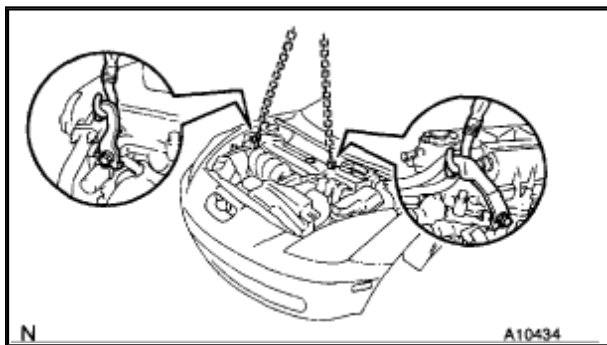


11. REMOVE [CONTROL CABLE](#) BRACKET

- a) Disconnect the wire harness from the clamp.
- b) Remove the 2 bolts, clamp and [control cable](#) bracket from the transaxle.
Torque: **25 Nm (250 kgf-cm, 18 ft. lbs.)**



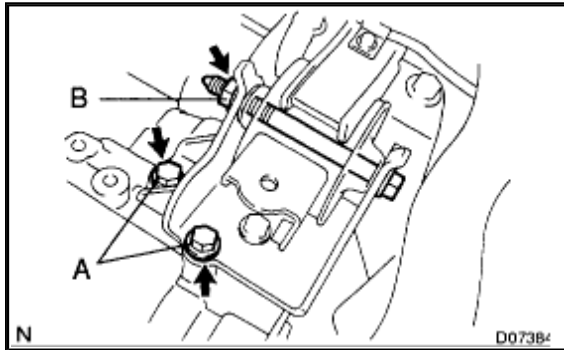
12. REMOVE 2 TRANSAXLE UPPER SIDE MOUNTING BOLTS Torque: **64 Nm (650 kgf-cm, 47 ft. lbs.)**



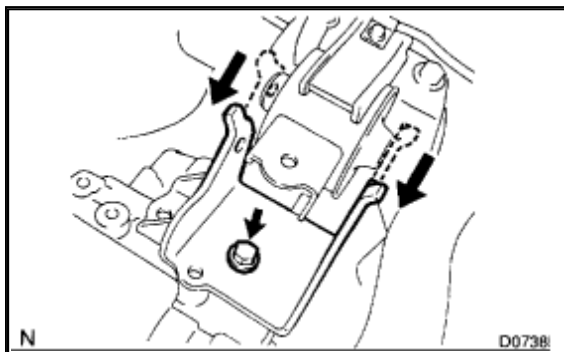
13. ATTACH ENGINE SLING DEVICE TO ENGINE HANGER

- 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: 12281-88600
No.2 engine hanger: 12282-88600
Bolt: 91512-61020
Torque: **38 Nm (387 kgf-cm, 28 ft. lbs.)**
- 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 part.

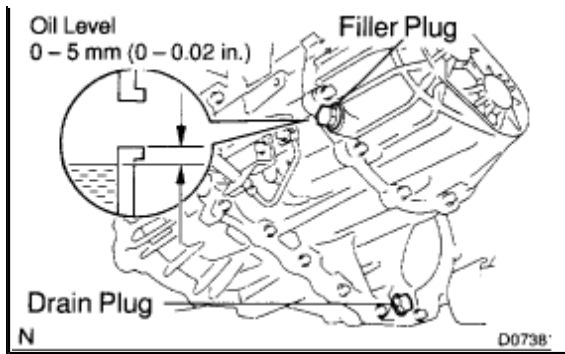


14. REMOVE ENGINE LEFT MOUNTING BRACKET 3 SET BOLTS AND NUT Torque: Bolt A: **60 Nm (610 kgf-cm, 44 ft. lbs.)** Nut B: **80 Nm (820 kgf-cm, 59 ft. lbs.)**



15. REMOVE ENGINE LEFT MOUNTING BRACKET Lower the transaxle side, and remove the bolt and engine left mounting bracket. Torque: **60 Nm (610 kgf-cm, 44 ft. lbs.)**
16. RAISE VEHICLE **CAUTION:** Make sure that the vehicle is securely supported.
17. REMOVE CENTER, LH AND RH ENGINE UNDER COVERS

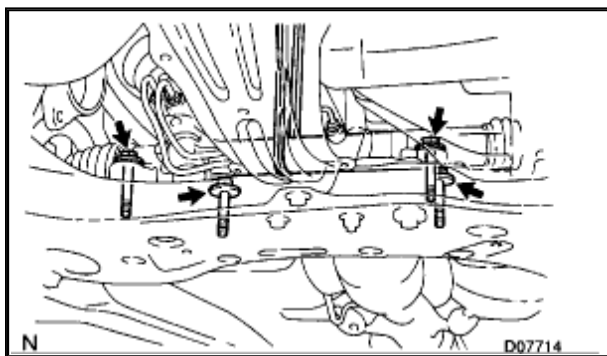




18. DRAIN TRANSAXLE OIL Oil grade: API GL-4 or GL-5 Viscosity: SAE 75W-90 Capacity: **2.3 liters (2.4 US qts, 2.0 Imp. qts)** Torque: **39 Nm (400 kgf-cm, 29 ft. lbs.)**
19. REMOVE LH AND RH FRONT DRIVE SHAFTS
20. REMOVE FRONT EXHAUST PIPE
 - a) Disconnect the 2 heated oxygen sensors.
Torque: **44 Nm (450 kgf-cm, 33 ft. lbs.)**

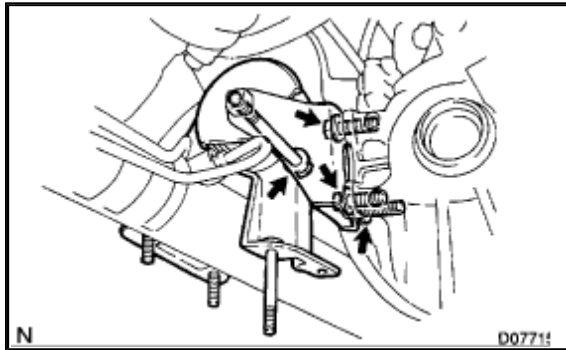
HINT:

- At the time of installation, please refer to the following items.
 - Before installing the heated oxygen sensor, twist the sensor wire counterclockwise 3 and 1/2 turns.
 - After installing the heated oxygen sensor, check that the sensor wire is not twisted. If it is twisted, remove the heated oxygen sensor and reinstall it.
- b) Remove the 4 bolts, compression springs and 2 gaskets.
Torque: **43 Nm (440 kgf-cm, 32 ft. lbs.)**
 - c) Disconnect the front exhaust pipe from the pipe supports and remove it.



21. REMOVE FRONT SUB-FRAME AND LOWER SUSPENSION ARM
 - a) Tie the PS gear assembly to the proper position with a code or an equivalent to suspend the assembly securely.

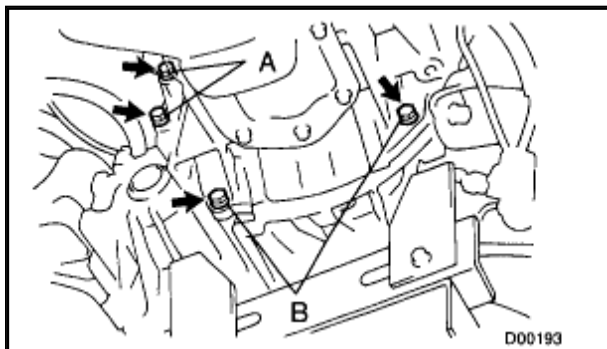
- b) Remove the 4 set bolts of the PS gear assembly.
Torque: **45 Nm (459 kgf-cm, 33 ft. lbs.)**
- c) Disconnect the LH and RH stabilizer bar links from the shock absorber.
- d) Remove the front sub-frame and lower suspension arm.



22. REMOVE ENGINE REAR MOUNTING INSULATOR AND BRACKET

- a) Remove the bolt and engine rear mounting insulator.
Torque: **87 Nm (890 kgf-cm, 64 ft. lbs.)**
- b) Remove the 3 bolts and engine rear mounting bracket.
Torque: **64 Nm (650 kgf-cm, 47 ft. lbs.)**

23. JACK UP TRANSAXLE SLIGHTLY Using a transmission jack, support the transaxle.



- 24. REMOVE 4 TRANSAXLE LOWER SIDE MOUNTING BOLTS Torque: Bolt A: **47 Nm (480 kgf-cm, 35 ft. lbs.)**
Bolt B: **23 Nm (230 kgf-cm, 17 ft. lbs.)**
- 25. REMOVE TRANSAXLE Lower the engine left side and remove the transaxle from the engine. **HINT:** .
 - At the time of installation, please refer to the following items.
 - Align the [input shaft](#) with the [clutch disc](#) and install the transaxle to the engine.
 - Temporarily tighten the transaxle mounting bolts.

INSTALLATION

Installation is in the reverse order of removal.

HINT: After installation, check and inspect items as follows.

- Front wheel alignment.
- Do the road test.