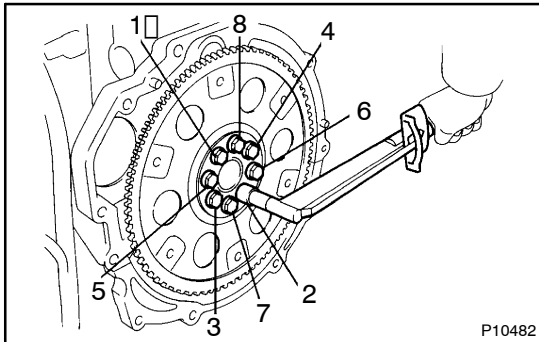


INSTALLATION

1. INSTALL DRIVE PLATE

- (a) Install the front spacer, drive plate and rear plate on the crankshaft.



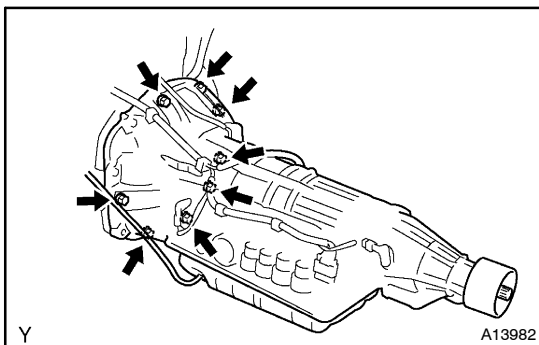
- (b) Apply adhesive to 2 or 3 threads of the mounting bolt end.

Adhesive:

Part No. 08833-00070, THREE BOND 1324 or equivalent

- (c) Install the uniformly tighten the 8 mounting bolts, in several passes, in the sequence shown.

Torque: 83 N·m (850 kgf·cm, 61 ft·lbf)



2. INSTALL TRANSMISSION TO ENGINE

- (a) Check the torque converter clutch installation (See page AT-39).

- (b) Attach the transmission to the engine.

- (c) Install the ground wire and 5 bolts.

Torque: 72 N·m (730 kgf·cm, 53 ft·lbf)

3. CONNECT ENGINE WIRE TO TRANSMISSION

- (a) Connect the speed sensor connector.

- (b) Connect the PNP switch connector.

- (c) Connect the solenoid connector.

- (d) Connect the direct clutch speed sensor connector.

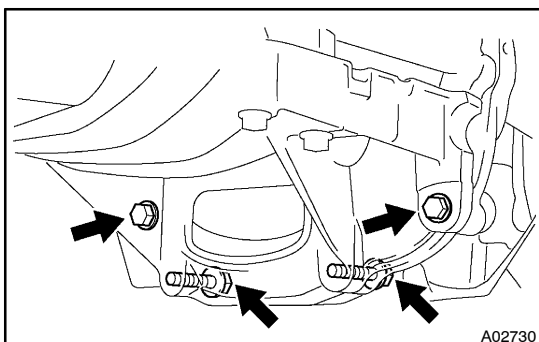
- (e) Connect the engine wire to the 3 wire clamps.

4. INSTALL STARTER

- (a) Install the starter and clamp bracket with the 2 bolts.

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

- (b) Connect the starter connector.



5. INSTALL 4 BOLTS HOLDING NO. 1 OIL PAN TO TRANSMISSION

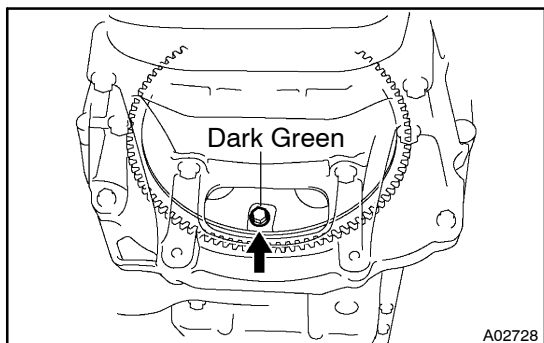
Torque: 37 N·m (380 kgf·cm, 27 ft·lbf)

6. INSTALL TORQUE CONVERTER CLUTCH BOLTS

- (a) Apply adhesive to 2 or 3 threads of the bolt end.

Adhesive:

Part No. 08833-00070, THREE BOND 1324 or equivalent



- (b) Hold the crankshaft pulley bolt with a wrench, and install the 6 bolts evenly.

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

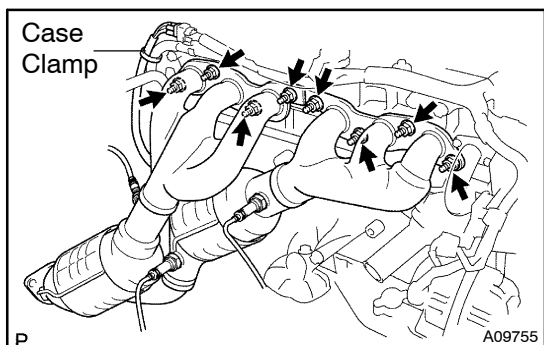
HINT:

First install the dark green colored bolt, install the other bolts.

- (c) Install the hole plug.

7. INSTALL OIL COOLER HOSES AND OIL COOLER PIPES FOR A/T

- (a) Install the 2 oil cooler hoses and 2 oil cooler pipes.
 (b) Tighten the 2 union nuts.
 (c) Install the 2 bolts and pipe clamps.
 (d) Connect the 2 oil cooler hoses for A/T.

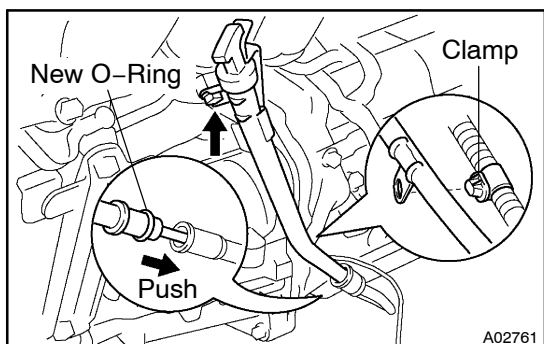


8. INSTALL EXHAUST MANIFOLD

- (a) Install 2 new gaskets to the cylinder head.
 (b) Using a 14 mm deep socket wrench, install the exhaust manifold with the 8 nuts. Uniformly tighten the nuts in several passes.

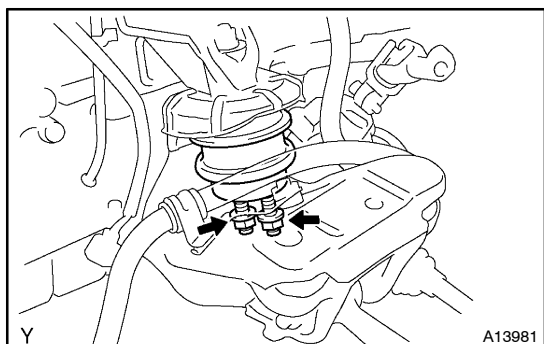
Torque: 40 N·m (408 kgf·cm, 30 ft·lbf)

- (c) Connect the oxygen sensor (bank 2 sensor 1) connector.
 (d) Install the case clamp.



9. INSTALL OIL DIPSTICK GUIDE AND DIPSTICK FOR A/T

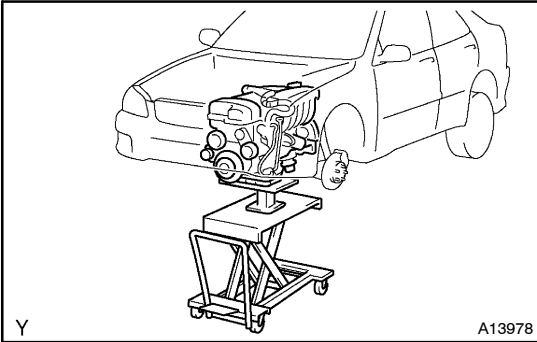
- (a) Install a new O-ring to the dipstick guide.
 (b) Push in the dipstick guide end to the dipstick tube of the oil pan.
 (c) Install the dipstick guide with the bolt.
 (d) Connect the engine wire clamp to the dipstick guide.
 (e) Install the dipstick.



10. INSTALL SUSPENSION MEMBER TO ENGINE

Install the suspension member with the 4 nuts and to the engine.

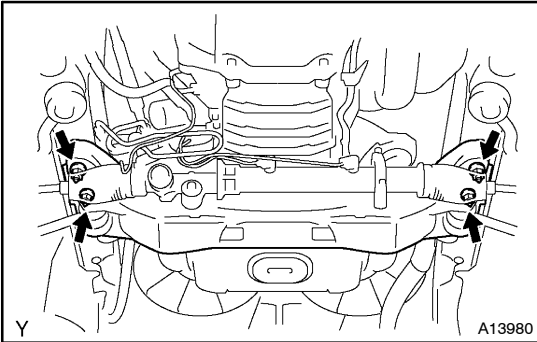
Torque: 70 N·m (714 kgf·cm, 52 ft·lbf)

**11. SET ENGINE JACK****NOTICE:**

Using a chain, hold the engine tightly.

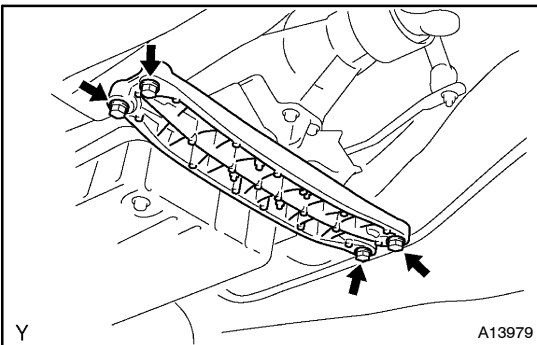
12. INSTALL ENGINE AND TRANSMISSION ASSEMBLY IN VEHICLE

- (a) Raise the engine into the engine compartment.
- (b) Keep the engine level, and align RH and LH mountings with the insulator.

**13. CONNECT SUSPENSION MEMBER**

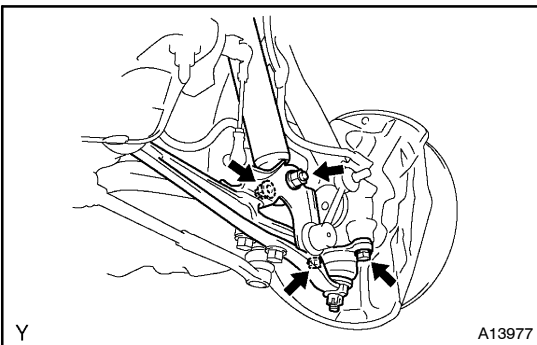
Connect the suspension member with the 4 bolts to the body.

Torque: 70 N·m (714 kgf·cm, 52 ft·lbf)

**14. CONNECT REAR ENGINE MOUNTING**

Install the rear engine mounting with the 4 bolts.

Torque: 25.5 N·m (260 kgf·cm, 19 ft·lbf)

15. REMOVE ENGINE JACK**16. CONNECT LOWER ARM**

- (a) Connect the lower arm with the 2 bolts to the steering knuckle.

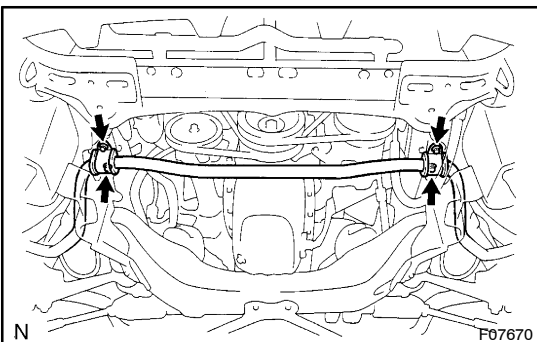
Torque: 245 N·m (2,500 kgf·cm, 181 ft·lbf)

- (b) Connect the height level sensor to the lower arm.

17. CONNECT SHOCK ABSORBER

Connect the shock absorber with the bolt and nut.

Torque: 64 N·m (650 kgf·cm, 47 ft·lbf)

**18. INSTALL STABILIZER BAR**

- (a) Install the 2 bushings and 2 stabilizer bar brackets to the stabilizer bar.

- (b) Install the stabilizer bar with the 4 bolts and 2 nuts.

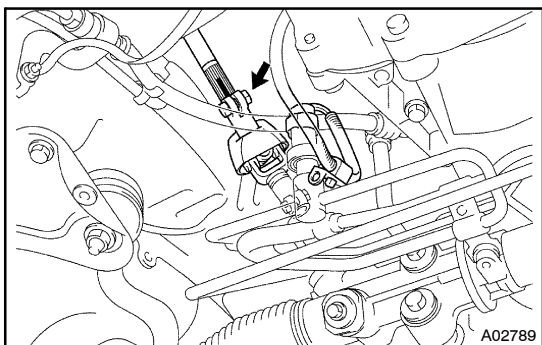
Torque:

Bolt: 18 N·m (180 kgf·cm, 13 ft·lbf)

Nut: 49 N·m (500 kgf·cm, 36 ft·lbf)

19. CONNECT SLIDING YOKE

- (a) Align the matchmarks and connect the sliding yoke to the steering intermediate shaft.



- (b) Install the bolt holding the sliding yoke to the steering intermediate shaft.

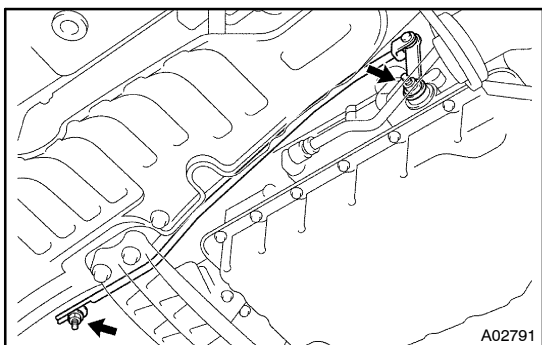
Torque: 35 N·m (360 kgf·cm, 26 ft·lbf)

- (c) Connect the PS pressure switch and wire clamp.

20. INSTALL FRONT AND CENTER EXHAUST PIPE

(See page EM-99)

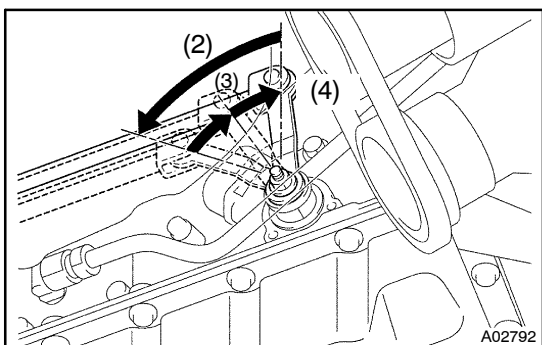
Torque: 43 N·m (438 kgf·cm, 32 ft·lbf)



21. INSTALL TRANSMISSION CONTROL ROD

Install the control rod with the 2 nuts.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)



If the indicator is not aligned with the correct position, carry out the following adjustment procedures.

- (1) Loosen the nut on the shift lever.
- (2) Push the control shaft lever fully rearward.
- (3) Return the control shaft lever 2 notches to the N position.
- (4) Set the shift lever to the N position.
- (5) While holding the shift lever lightly toward the R position side, tighten the nut.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

22. INSTALL A/C COMPRESSOR AND PPS PUMP

- (a) Temporarily install the compressor with the 2 bolts.

- (b) Using a Torx socket (E10), install the stud bolt.

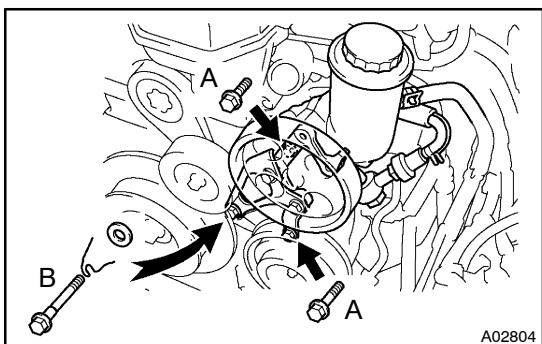
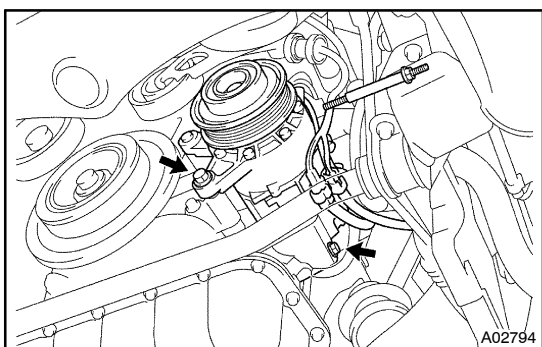
Torque: 26 N·m (265 kgf·cm, 19 ft·lbf)

- (c) Tighten the nut and 2 bolts.

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

- (d) Connect the compressor connector.

- (e) Connect the PPS solenoid valve connector.

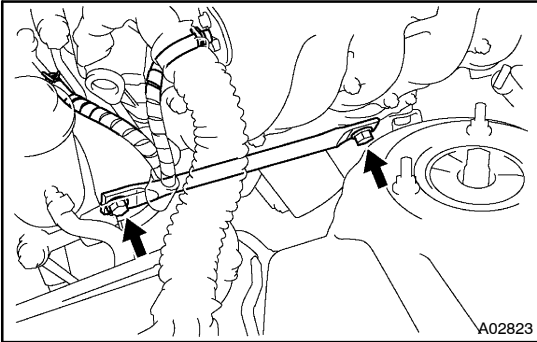


- (f) Install the vane pump assembly with the 3 bolts and plate washer.

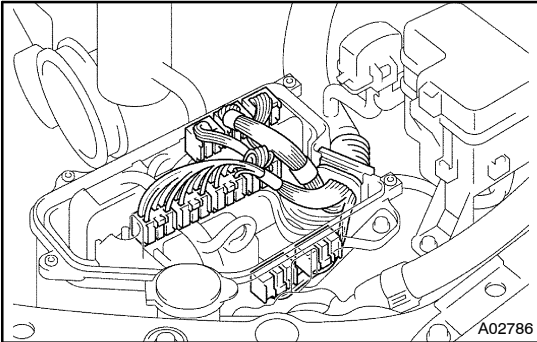
Torque:

57.9 N·m (590 kgf·cm, 43 ft·lbf) for A bolts

52 N·m (530 kgf·cm, 38 ft·lbf) for B bolt



- (g) Install the pump rear stay with the 2 bolts.
Torque: 39.2 N·m (400 kgf·cm, 29 ft·lbf)

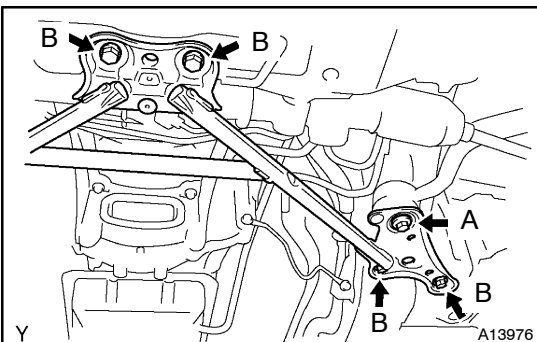


23. CONNECT ENGINE WIRE TO ENGINE ECU BOX

- Install the engine wire grommet to the ECU box.
- Connect the 3 ECU connectors.
- Connect the 4 wire harness connectors.
- Connect the 2 junction connectors.
- Install the ECU cover and ECU hood.

24. CONNECT CLAMPS, WIRES, CONNECTORS, HOSES, CABLE AND STRAP

- Connect the 2 engine wire clamps to the clamp brackets.
- Connect the igniter connector.
- Connect the engine wire clamp to the wire clip of the alternator.
- Connect the ground cable to the bracket on the cylinder block.
- Connect the alternator wire.
- Connect the alternator cable, and install the nut.
- Connect the 2 oxygen sensors.
 - Connect the bank 1 sensor 1 connector.
 - Connect the bank 1 sensor 2 connector.
 - Connect the wire clamp to the body.
- Connect the vacuum hose to the brake booster.
- Connect the heater hose to the heater pipe.
- Connect the heater hose to the water bypass pipe.
- Connect the ground strap to the dash panel.
- Connect the fuel inlet hose to the fuel pipe support.
Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)
- Connect the starter wire to the terminal and manifold stay.
- Connect the ground wire to the floor.



25. INSTALL FRONT SUSPENSION MEMBER BRACE

Install the brace with the 8 bolts.

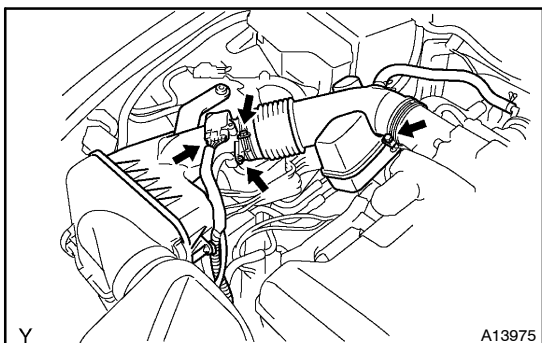
Torque:

Bolt A: 119 N·m (1,210 kgf·cm, 88 ft·lbf)

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

26. INSTALL DRIVE BELT (See page CH-1)

27. CONNECT ACCELERATOR CABLE TO ENGINE

**28. INSTALL INTAKE AIR CONNECTOR PIPE**

- (a) Connect the intake air resonator to the throttle body.
- (b) Tighten the hose clamp bolt holding the intake air resonator to the throttle body.
- (c) Connect the air flow meter connector.
- (d) Connect the engine wire clamp to the air cleaner case.
- (e) Connect the PCV hose to the No. 2 cylinder head cover.

29. CONNECT RADIATOR UPPER AND LOWER HOSES**30. INSTALL AIR CLEANER INLET****31. INSTALL ENGINE COVER**

Install the engine cover with the 4 nuts.

32. FILL WITH ENGINE COOLANT**33. FILL WITH ENGINE OIL****34. START ENGINE AND CHECK FOR LEAKS****35. INSTALL ENGINE UNDER COVER****NOTICE:**

Be careful not to damage the body or glass with the hood end.

36. PERFORM ROAD TEST

Check for abnormal noise, shock, slippage, correct shift points and smooth operation.

37. RECHECK ENGINE COOLANT AND OIL LEVELS