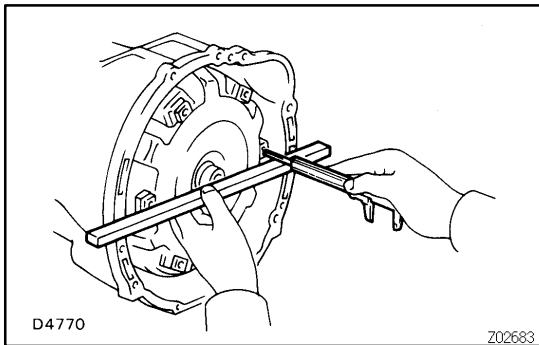




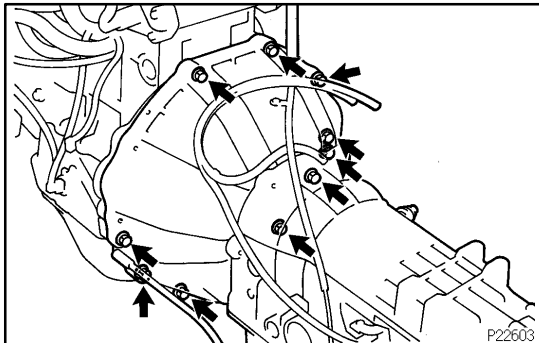
INSTALLATION

1. CHECK TORQUE CONVERTER CLUTCH INSTALLATION

Using calipers and straight edge, measure from the installed surface of the torque converter clutch to the front surface of the transmission.

Correct distance: 15.7 mm (0.618 in.) or more

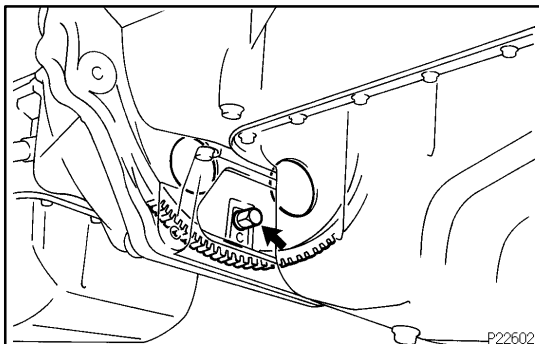
If the distance is less than the specifications, check for an improper installation.



2. INSTALL TRANSMISSION TO ENGINE

Install the transmission with the 7 bolts.

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



3. INSTALL TORQUE CONVERTER CLUTCH MOUNTING BOLTS

Install the 6 bolts by turning the crankshaft.

Torque: 55 N·m (550 kgf·cm, 41 ft·lbf)

HINT:

First install the green colored bolt and then the remaining 5 bolts.

4. INSTALL HOLE PLUG

5. CONNECT THROTTLE CABLE TO THROTTLE BODY

6. INSTALL A/T OIL COOLER PIPES FOR TRANSMISSION

- Temporarily install the 3 mounting bolts.
- Connect the 2 oil cooler pipes to the unions on the transmission. Tighten the union nuts.

Torque: 34 N·m (350 kgf·cm, 25 ft·lbf)

- Tighten the 3 clamp mounting bolts.

7. INSTALL STARTER

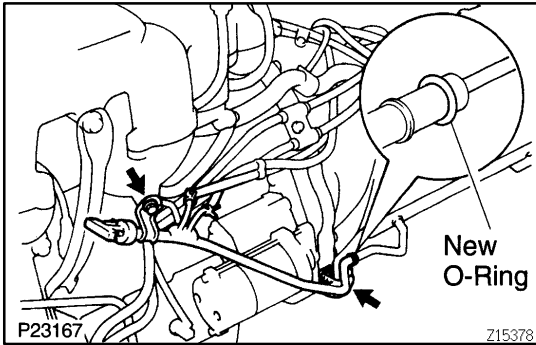
- Install the starter with the 2 bolts.

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

- Connect the starter connector.

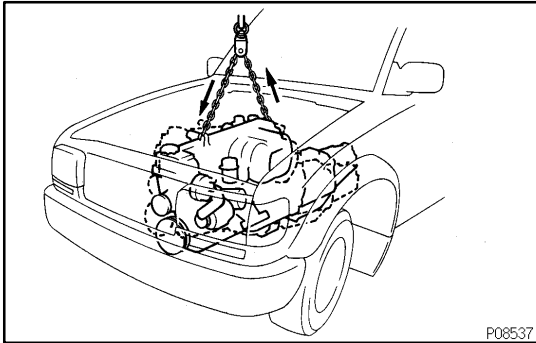
8. CONNECT ENGINE WIRE TO TRANSMISSION

- Connect the 2 connectors from the transmission.
- Connect the PNP switch connector.



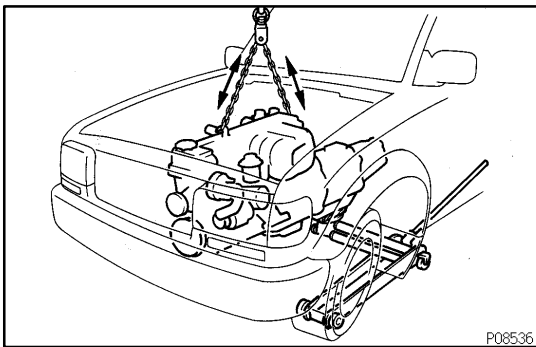
9. INSTALL OIL DIPSTICK GUIDE FOR TRANSMISSION

- Install a new O-ring to the dipstick guide.
- Apply a light coat of ATF to the O-ring.
- Connect the dipstick guide end to the tube of the oil pan, and install the dipstick guide with the 2 bolts.
- Install the dipstick.
- Connect the 2 breather hoses.



10. INSTALL ENGINE AND TRANSMISSION ASSEMBLY IN VEHICLE

- Attach the engine hoist chain to the engine hangers.
- Lower the engine and transmission assembly into the engine compartment.



- Insert the stud bolts of the front engine mounting insulators into the stud bolt holes of the frame.
- Temporarily install the 2 nuts holding the engine front mounting insulators to the frame crossmember.
- Keep the engine level with a jack.
- Remove the hoist chain.

11. INSTALL FRAME CROSSMEMBER

- Temporarily install the crossmember to the engine rear mounting insulator with the 2 nuts.
- Install the 8 bolts holding the crossmember to the frame.
- Tighten the 2 nuts holding the crossmember to the engine rear mounting insulator.

Torque: 61 N·m (620 kgf·cm, 45 ft·lbf)

Torque: 74 N·m (750 kgf·cm, 54 ft·lbf)

12. TIGHTEN NUTS HOLDING ENGINE FRONT MOUNTING INSULATORS TO FRAME

Torque: 74 N·m (750 kgf·cm, 54 ft·lbf)

13. CONNECT GROUND STRAP TO HEAT INSULATOR

14. INSTALL FRONT EXHAUST PIPE

- Install 2 new gaskets and the front exhaust pipe with the 4 nuts.

Torque: 63 N·m (630 kgf·cm, 46 ft·lbf)

- Install the No.1 support bracket with the 2 bolts.

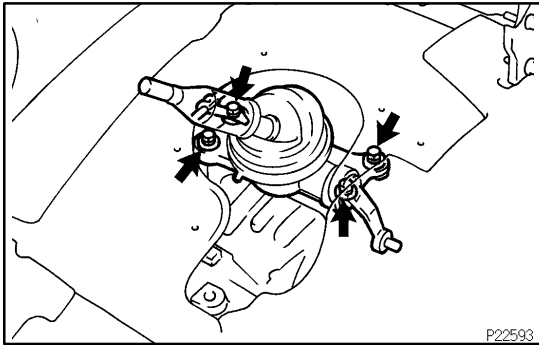
Torque: 24 N·m (240 kgf·cm, 17 ft·lbf)

- Connect the clamp and tighten the clamp bolt.

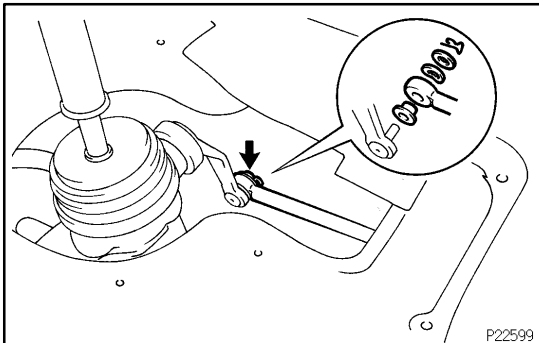
Torque: 19.5 N·m (195 kgf·cm, 14 ft·lbf)

- Connect the front exhaust pipe to the rear TWC with a new gasket, 2 bolts and 2 nuts.

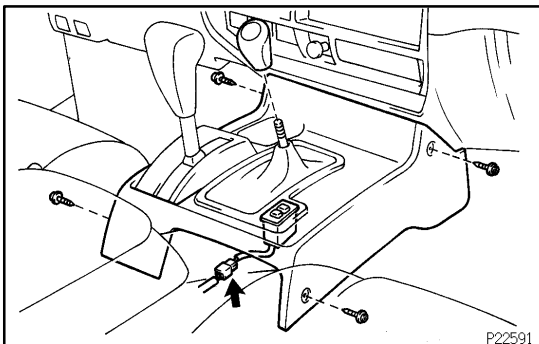
Torque: 46 N·m (470 kgf·cm, 34 ft·lbf)

**15. INSTALL TRANSFER SHIFT LEVER**

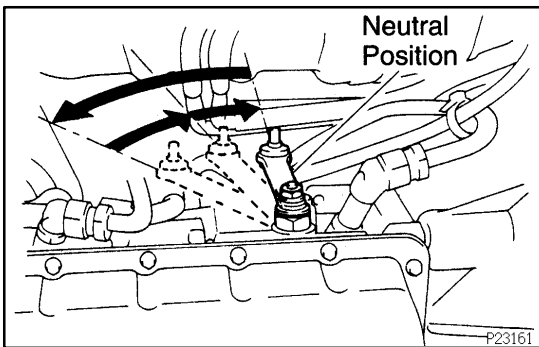
- (a) Install the shift lever and hose clamp with the 4 bolts.
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)



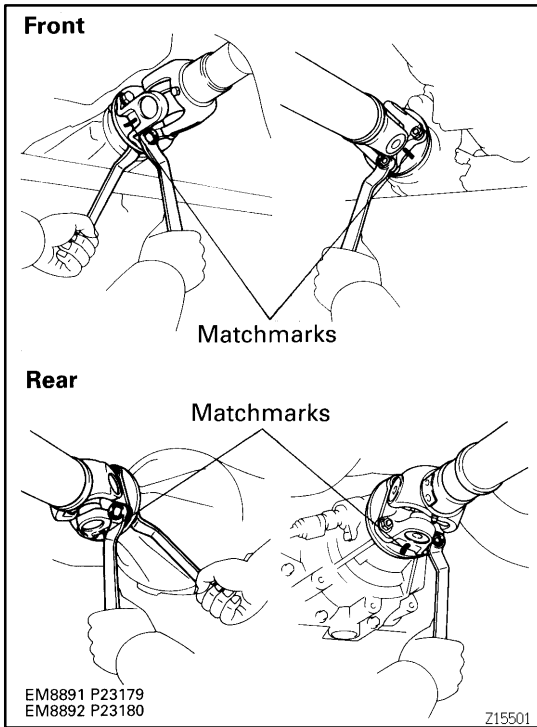
- (b) Connect the shift rod and install the pin.
 (c) Install the transfer shift lever boot and transmission shift lever assembly with the 10 bolts.
Torque: 5.4 N·m (55 kgf·cm, 48 in·lbf)
 (d) Connect the 3 connectors to the transmission shift lever assembly.
 (e) Install the console box with the 3 bolts.



- (f) Connect the pattern select switch connector.
 (g) Install the console with the 4 screws.
 (h) Install the transfer shift lever knob.



- (i) Shift the shift lever to N position.
 (j) Fully turn the control shaft lever back and return 2 notches. It is now in neutral position.
 (k) Connect the transmission control rod with the nut.
Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

**16. Differential Side:****INSTALL FRONT AND REAR PROPELLER SHAFTS**

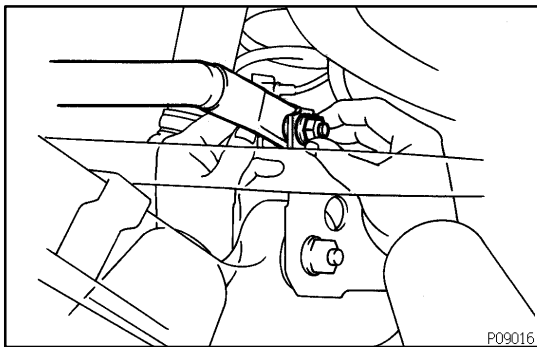
- (a) Align the matchmarks on the flanges and connect the flanges with the 4 bolts and nuts.

- (b) Torque the bolts and nuts.

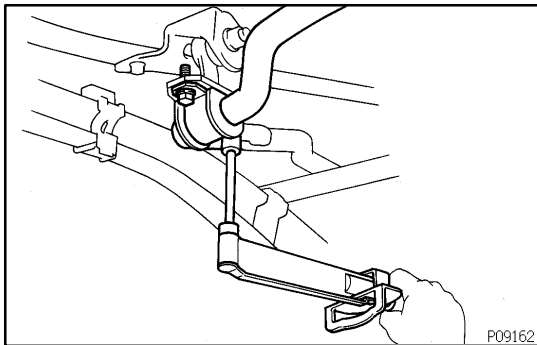
Torque:**74 N·m (750 kgf·cm, 54 ft·lbf) for front shaft****88 N·m (900 kgf·cm, 65 ft·lbf) for rear shaft****17. Transfer Side:****INSTALL FRONT AND REAR PROPELLER SHAFTS**

- (a) Align the matchmarks on the flanges and connect the flanges with the 4 nuts.

- (b) Torque the nuts.

Torque:**74 N·m (750 kgf·cm, 54 ft·lbf) for front shaft****88 N·m (900 kgf·cm, 65 ft·lbf) for rear shaft****18. INSTALL STABILIZER BAR**

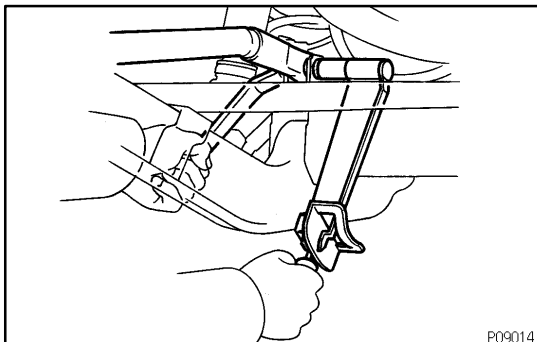
- (a) Temporarily install the stabilizer bar to the axle housing with the bolt and nut.



- (b) Connect the stabilizer bar with the 2 bolts.

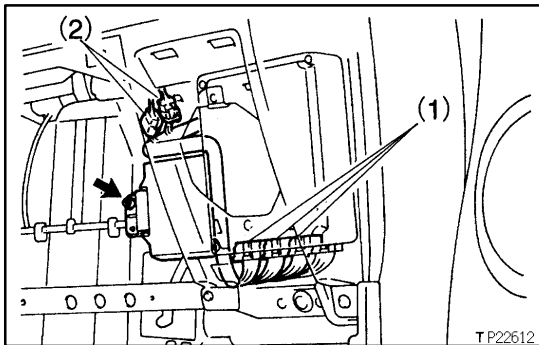
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)

- (c) Bounce the vehicle up and down to stabilize the suspension.



- (d) Torque the bolt and nut holding the stabilizer bar to the axle housing.

Torque: 25 N·m (260 kgf·cm, 19 ft·lbf)

**19. CONNECT ENGINE WIRE TO CABIN**

- (a) Push in the engine wire through the cowl panel.
- (b) Connect the connectors.
 - (1) Connect the 3 connectors to the ECM.
 - (2) Connect the 2 connectors to the cowl wire.
- (c) Connect the A/C amplifier with the screw.
- (d) Install the speaker panel with the screw.
- (e) Install the glove compartment door with the 2 screws.

20. CONNECT PS RETURN HOSE

Connect the return hose to the PS reservoir tank.

21. CONNECT PS PRESSURE HOSE

Connect the PS pressure hose with 2 new gaskets and the union bolt.

Torque: 56 N·m (575 kgf·cm, 42 ft·lbf)

22. INSTALL RADIATOR PIPE

- (a) Connect the No. 2 radiator hose to the water inlet.
- (b) Install the 2 nuts holding the radiator pipe to the No. 1 oil pan.

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

23. INSTALL A/C COMPRESSOR AND BRACKET

- (a) Install the A/C compressor bracket with the 5 bolts.

Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)

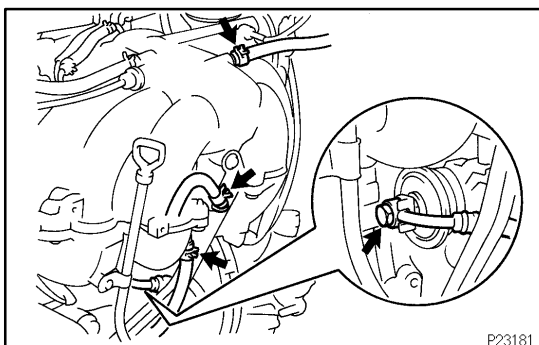
- (b) Install the A/C compressor with the 4 bolts.

Torque: 25 N·m (250 kgf·cm, 18 ft·lbf)

- (c) Install and adjust the drive belt (See page [CH-2](#)).

24. CONNECT WIRES AND CONNECTORS

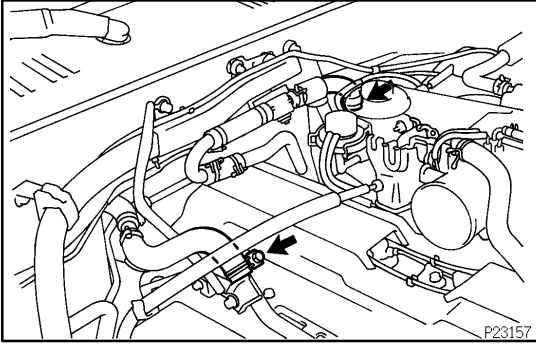
- (a) Connect the 2 heated oxygen sensor connectors.
- (b) Connect the DLC1 clamp.
- (c) Connect the 2 oil pressure gauge connectors.
- (d) Connect the generator wire and connector.
- (e) Connect the connector on the intake manifold to the fender apron.
- (f) Connect the high-tension cord to the ignition coil.
- (g) Connect the ground strap to the No. 1 engine hanger.
- (h) Connect the ground strap to the air intake chamber.
- (i) Connect the starter wire.
- (j) Connect the ground cable to the cylinder block.

**25. CONNECT FUEL HOSES**

- (a) Connect the fuel inlet hose to the fuel filter with 2 new gaskets and the union bolt.

Torque: 29 N·m (300 kgf·cm, 22 ft·lbf)

- (b) Connect the fuel return hose.



- 26. CONNECT EVAP HOSE**
- 27. CONNECT BRAKE BOOSTER VACUUM HOSE**
- 28. CONNECT HEATER VALVE AND ENGINE WIRE TO COWL PANEL**
 - (a) Connect the heater valve with the 2 bolts.
 - (b) Connect the engine wire and ground strap with the 2 bolts.
- 29. CONNECT HEATER HOSES**
- 30. CONNECT ACCELERATOR CABLE TO THROTTLE BODY**
- 31. CONNECT CRUISE CONTROL ACTUATOR CABLE TO THROTTLE BODY**
- 32. INSTALL AIR CLEANER CASE**
- 33. INSTALL AIR CLEANER HOSE AND CAP**
- 34. CONNECT OIL COOLER HOSE TO OIL COOLER PIPE**
- 35. INSTALL RADIATOR (See page [CO-16](#))**
- 36. INSTALL RADIATOR GRILLE**

Install the radiator grille with the 5 screws and clip.
- 37. INSTALL BATTERY TRAY AND BATTERY**
 - (a) Install the battery tray with the 5 bolts.
 - (b) Connect the ground strap with the bolt.
 - (c) Install the battery and hold-down clamp with the nuts.
 - (d) Connect the battery cables.
- 38. FILL WITH ENGINE OIL**
- 39. FILL RADIATOR WITH ENGINE COOLANT**
- 40. START ENGINE AND CHECK FOR LEAKS**
- 41. CHECK AUTOMATIC TRANSMISSION FLUID LEVEL**
- 42. CHECK IGNITION TIMING (See page [EM-10](#))**
- 43. INSTALL HOOD**
- 44. PERFORM ROAD TEST**

Check for abnormal noise, shock, slippage, correct shift points and smooth operation.
- 45. RECHECK ENGINE COOLANT AND ENGINE OIL LEVELS**