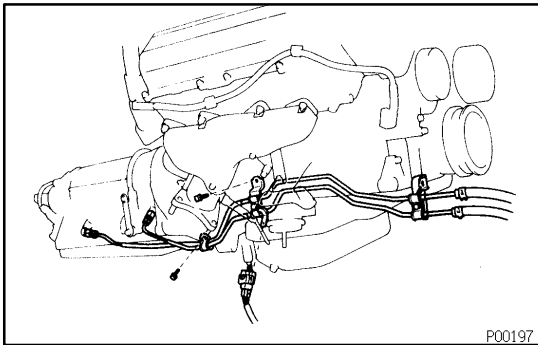


INSTALLATION

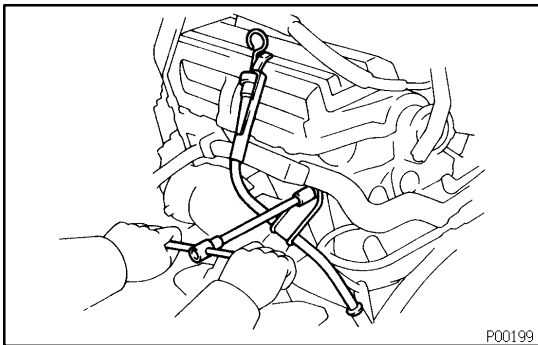
1. **INSTALL TRANSMISSION TO ENGINE (See page AT-25)**
2. **CONNECT ENGINE WIRE**
 - (a) Connect these parts:
 - (1) O/D direct clutch speed sensor connector
 - (2) No. 1 VSS connector for speedometer
 - (3) No. 2 VSS connector for ECM
 - (4) PNP switch connector
 - (5) Solenoid connector
 - (b) Install the 5 wire clamps to the brackets on the transmission.



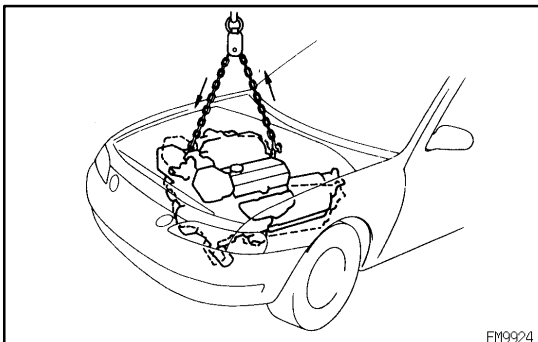
3. **INSTALL OIL COOLER PIPE FOR TRANSMISSION**
 - (a) Temporarily install the oil cooler pipe with the 2 pipe brackets and 2 bolts.
 - (b) Connect the 2 oil cooler pipes to the unions on the transmission.

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

- (c) Tighten the 2 pipe clamp bolts.



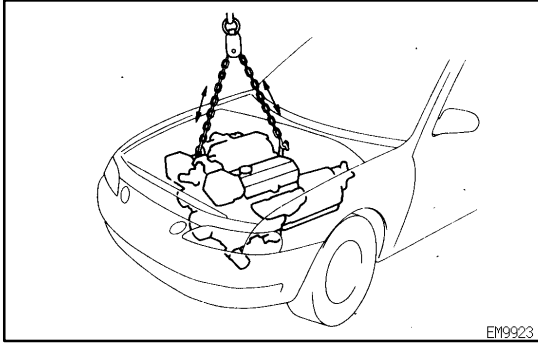
4. **INSTALL OIL DIPSTICK GUIDE AND DIPSTICK FOR TRANSMISSION**
 - (a) Install a new O-ring to the dipstick guide.
 - (b) Apply soapy water to the O-ring.
 - (c) Connect the dipstick guide end to the dipstick tube of the oil pan.
 - (d) Install the dipstick guide with the bolt.
 - (e) Install the dipstick.



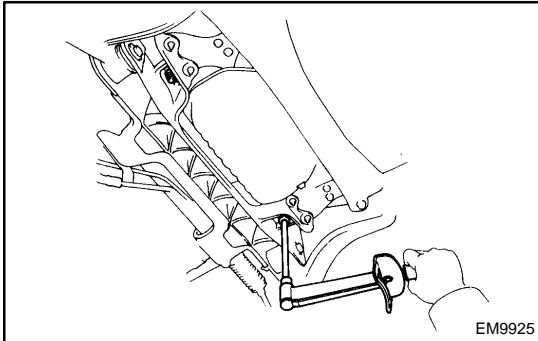
5. **INSTALL ENGINE AND TRANSMISSION ASSEMBLY IN VEHICLE**
 - (a) Attach the engine chain hoist to the engine hangers.
 - (b) Slowly lower the engine and transmission assembly into the engine compartment.

NOTICE:

Be careful not to hit the PS gear housing and PNP switch.



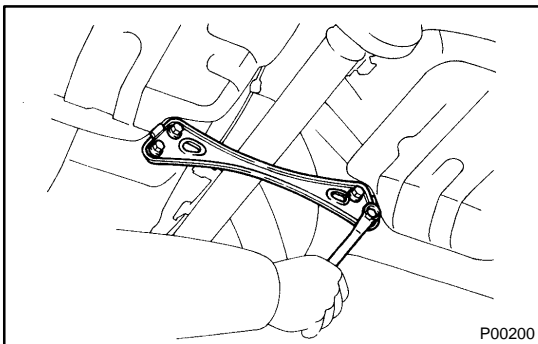
- (c) Insert the stud bolts of the front engine mounting brackets into the stud bolt holes of the front suspension crossmember.
- (d) Keep the engine level.
- (e) Install the rear engine mounting member with the 4 bolts and 4 nuts.

Torque:**25 N·m (250 kgf-cm, 19 ft-lbf) for bolt****13 N·m (135 kgf-cm, 10 ft-lbf) for nut**

- (f) Install the 2 nuts holding the engine mounting brackets to the front suspension crossmember.

Torque: 59 N·m (600 kgf-cm, 43 ft-lbf)**6. CONNECT TRANSMISSION CONTROL ROD FROM SHIFT LEVER**

Connect the control rod to the shift lever with the nut.

7. INSTALL PROPELLER SHAFT (See page [PR-14](#))**8. INSTALL CENTER FLOOR CROSSMEMBER BRACE**

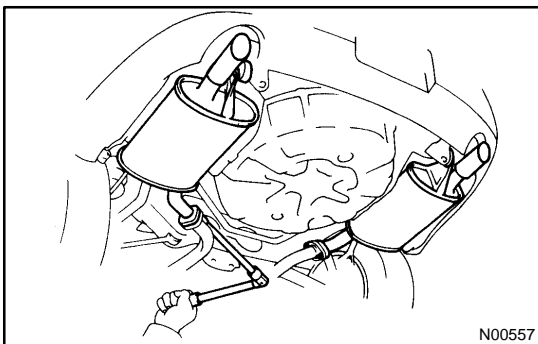
Install the crossmember brace with the 4 nuts.

Torque: 13 N·m (130 kgf-cm, 9 ft-lbf)**9. INSTALL HEAT INSULATOR FOR FRONT EXHAUST PIPE**

Install the heat insulator with the 4 bolts.

10. INSTALL CENTER EXHAUST PIPE

Install the 2 hooks of the exhaust pipe to the rings on the exhaust pipe brackets.

**11. INSTALL TAILPIPE**

- (a) Install the hook of the tailpipe to the ring on the tailpipe bracket.

- (b) Install a new gasket and tailpipe to the center exhaust pipe with 2 bolts. Install the 2 tailpipes.

Torque: 19 N·m (195 kgf-cm, 14 ft-lbf)**12. INSTALL FRONT TWC**

Using a 14 mm deep socket wrench, install a new gasket and the TWC with 3 new nuts. Install the 2 TWC.

Torque: 62 N·m (630 kgf-cm, 46 ft-lbf)**13. INSTALL FRONT EXHAUST PIPE**

- (a) Temporarily install the pipe support bracket with the 4 bolts.
- (b) Temporarily install 3 new gaskets and the exhaust pipe with the 6 bolts and nuts.
- (c) Tighten the 4 bolts and nuts holding the TWC to the front exhaust pipe.

Torque: 43 N·m (440 kgf-cm, 32 ft-lbf)

- (d) Tighten the 2 bolts and nuts holding the front exhaust pipe to the center exhaust pipe.

Torque: 43 N·m (440 kgf-cm, 32 ft-lbf)

- (e) Tighten the 4 bolts holding the pipe support bracket to the transmission.

Torque: 43 N·m (440 kgf-cm, 32 ft-lbf)

14. INSTALL HEATED OXYGEN SENSORS (BANK 1, 2 SENSOR 2)

Install the 2 oxygen sensors to the front exhaust pipe.

Torque: 44 N·m (450 kgf-cm, 33 ft-lbf)

HINT:

- Before installing the oxygen sensor, twist the sensor wire counterclockwise 3 and 1/2 turns.
- After installing the oxygen sensor, check that the sensor wire is not twisted. If it is twisted, remove the oxygen sensor and reinstall it.

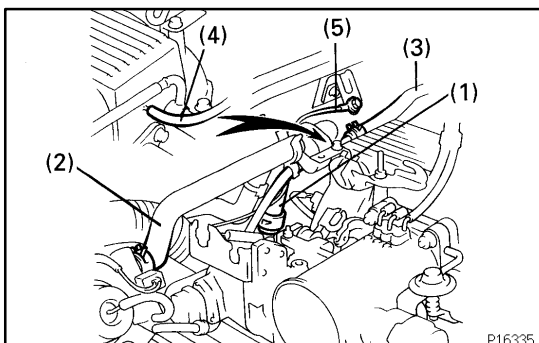
15. CONNECT ENGINE WIRE TO CABIN

- (a) Push in the engine wire through the cowl panel.

NOTICE:

Be careful not to damage the engine wire. Tape the engine wire.

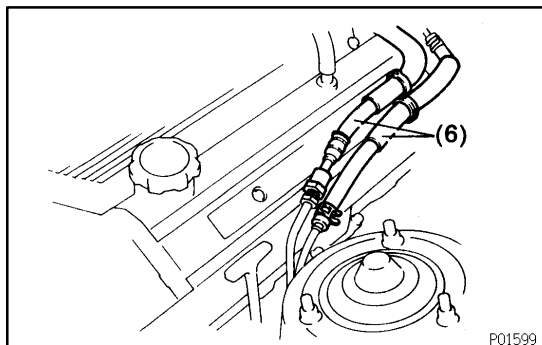
- (b) Install the engine wire retainer with the 3 bolts.
- (c) Connect these connectors:
- (1) 2 connectors to ECM
 - (2) Connector to ABS & TRAC ECU
 - (3) 2 connectors to TRAC ECU
 - (4) 4 connectors to connector cassette
 - (5) Connector to A/C control assembly
- (d) Install the ECM with the nut.
- (e) Install the ECM protector with the 2 nuts.
- (f) Install the floor carpet.
- (g) Install the scuff plate.
- (h) Connect the connectors.
- (i) Install the lower instrument panel finish panel and glove compartment door assembly with the 4 screws.
- (j) Install the instrument panel under cover with the 2 clips.



16. CONNECT HOSES

Connect these hoses and ground strap:

- (1) Heater water hose to water bypass hose
- (2) Heater water hose to heater water valve
- (3) Brake booster hose to union on air intake chamber
- (4) Vacuum hose (from VSV for heater water valve) to air intake chamber
- (5) Ground strap to bracket on body



(6) 2 fuel hose

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Torque: 30 N·m (310 kgf·cm, 22 ft·lbf)

HINT:

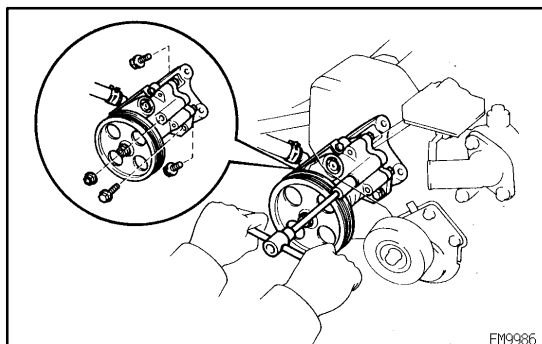
Use a torque wrench with a fulcrum length of 30 cm (11.81 in.).

17. INSTALL AIR CONDITIONING (A/C) COMPRESSOR

Torque:

49 N·m (500 kgf·cm, 36 ft·lbf) for bolt

29 N·m (300 kgf·cm, 22 ft·lbf) for nut



18. INSTALL POWER STEERING (PS) PUMP TO ENGINE

Install the PS pump with the nut and 3 bolts. Alternately tighten the bolts and nut.

Torque:

39 N·m (400 kgf·cm, 29 ft·lbf) for bolt

43 N·m (440 kgf·cm, 32 ft·lbf) for nut

19. INSTALL POWER STEERING (PS) RESERVOIR TANK AND BRACKET TO BODY

20. INSTALL POWER STEERING (PS) TUBES TO SUSPENSION CROSSMEMBER

21. INSTALL GENERATOR (See page [CH-17](#))

22. INSTALL POWER STEERING (PS) SOLENOID VALVE CONNECTOR

23. INSTALL GROUND CABLE TO BODY

24. CONNECT THEFT DETERRENT HORN CONNECTOR

25. CONNECT ENGINE WIRE CONNECTORS

26. CONNECT IGNITER CONNECTORS

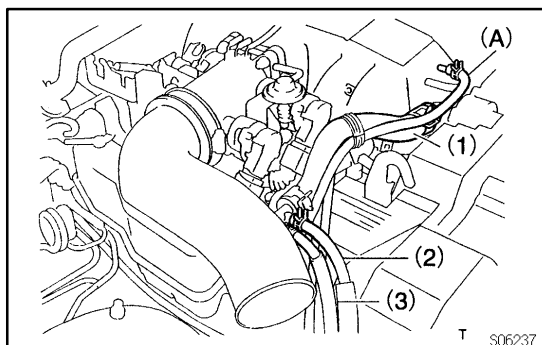
(a) Connect the 2 igniter connectors.

HINT:

Connect the yellow taped connector to the igniter on the rear side.

(b) Install the wire clamp.

27. INSTALL RADIATOR ASSEMBLY AND RESERVOIR TANK (See page [CO-55](#))



28. INSTALL INTAKE AIR CONNECTOR

(a) Connect the intake air connector to the throttle body.

(b) Install the hose clamp and bolt.

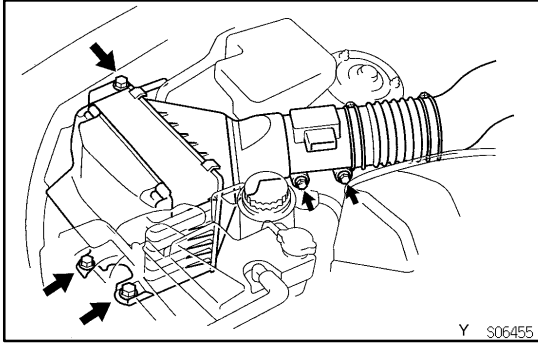
(c) Connect these hoses to the intake air connector:

(1) Air hose (from IAC valve)

(2) Air hose (from air control valve on PS pump)

(3) EVAP hose

29. CONNECT VACUUM HOSE (A) (FROM PS AIR CONTROL VALVE) TO AIR INTAKE CHAMBER

**30. INSTALL AIR CLEANER**

- (a) Connect the air cleaner case to the air duct.
- (b) Connect the air cleaner hose to the intake air connector.
- (c) Install the air cleaner with the 3 bolts.
- (d) Tighten the hose clamp bolt holding the air cleaner hose to the intake air connector.
- (e) Connect the MAF meter connector.

31. CONNECT CONTROL CABLES TO THROTTLE BODY**32. INSTALL DRIVE BELT (See page [CH-17](#))****33. FILL WITH ENGINE COOLANT****34. FILL WITH ENGINE OIL****35. INSTALL V-BANK COVER AND BATTERY****36. START ENGINE AND CHECK FOR LEAKS****37. CHECK TRANSMISSION FLUID LEVEL****38. DO ENGINE ADJUSTMENT****39. INSTALL ENGINE UNDER COVER****40. INSTALL HOOD****41. DO ROAD TEST**

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

42. RECHECK ENGINE COOLANT AND OIL LEVELS