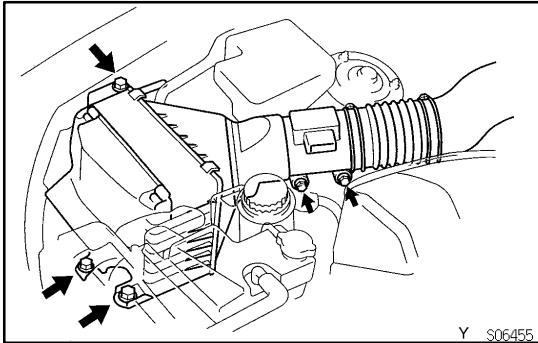
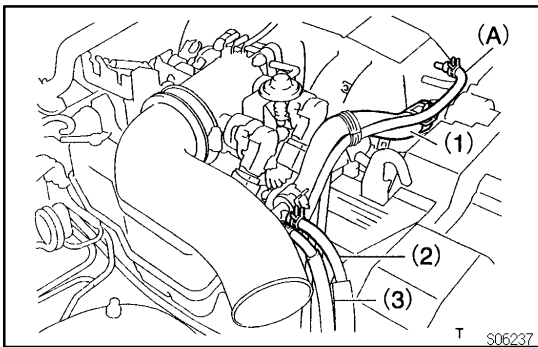


REMOVAL

1. REMOVE HOOD
2. REMOVE ENGINE UNDER COVER
3. REMOVE V-BANK COVER AND BATTERY
4. DRAIN ENGINE COOLANT
5. DRAIN ENGINE OIL
6. REMOVE DRIVE BELT (See page [CH-7](#))
7. DISCONNECT CONTROL CABLES FROM THROTTLE BODY

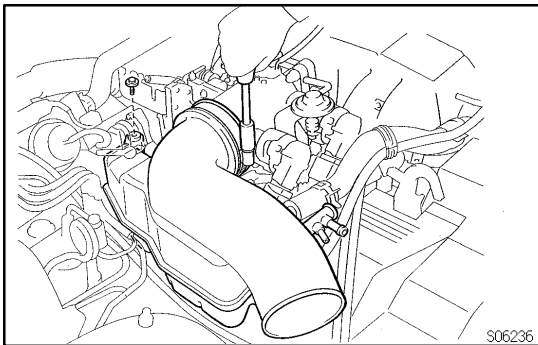


8. REMOVE AIR CLEANER
 - (a) Disconnect the MAF meter connector.
 - (b) Remove the 2 bolts.
 - (c) Remove the hose clamp bolt holding the air cleaner hose to the intake air connector.
 - (d) Remove the 3 bolts.
 - (e) Disconnect the air cleaner hose from the intake air connector.
 - (f) Disconnect the air duct from the air cleaner case, and remove the air cleaner.



9. DISCONNECT VACUUM HOSE (A) (FROM PS AIR CONTROL VALVE) FROM PS AIR INTAKE CHAMBER

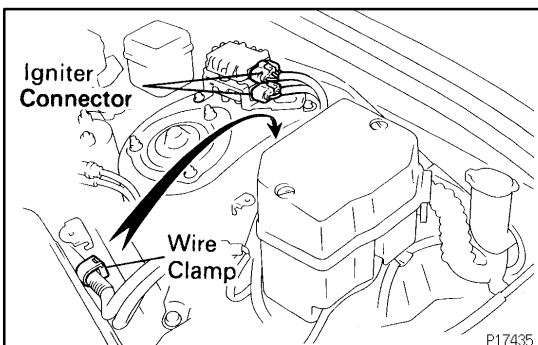
10. REMOVE INTAKE AIR CONNECTOR
 - (a) Disconnect these hoses from the intake air connector:
 - (1) Air hose (from IAC valve)
 - (2) Air hose (from air control valve on PS pump)
 - (3) EVAP hose



- (b) Remove the hose clamp bolt holding the intake air connector to the throttle body.

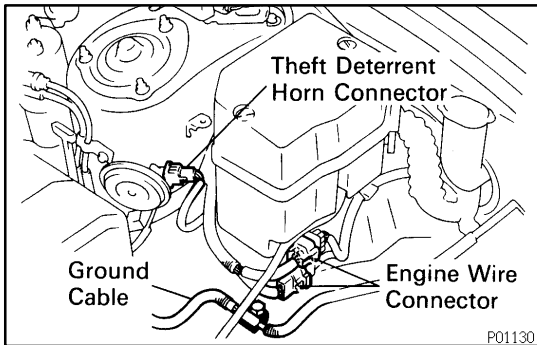
- (c) Remove the bolt and intake air connector.

11. REMOVE RESERVOIR TANK AND RADIATOR ASSEMBLY (See page [CO-21](#))

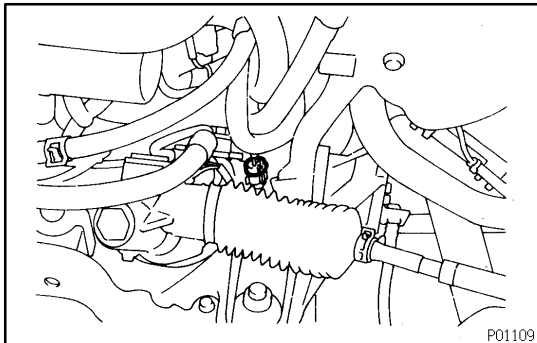


12. DISCONNECT IGNITER CONNECTORS

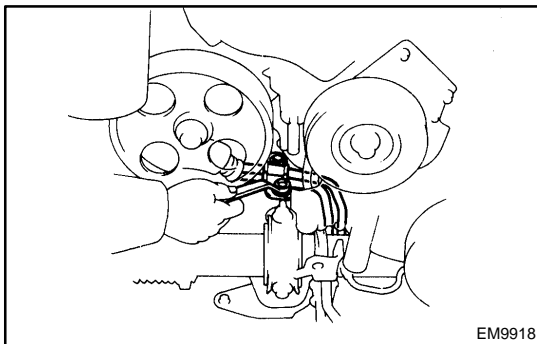
- (a) Disconnect the 2 igniter connectors.
- (b) Disconnect the wire clamp from the body.



13. DISCONNECT ENGINE WIRE CONNECTORS
14. DISCONNECT THEFT DETERRENT HORN CONNECTOR
15. DISCONNECT GROUND CABLE FROM BODY



16. DISCONNECT POWER STEERING (PS) SOLENOID VALVE CONNECTOR
17. REMOVE GENERATOR (See page [CH-7](#))

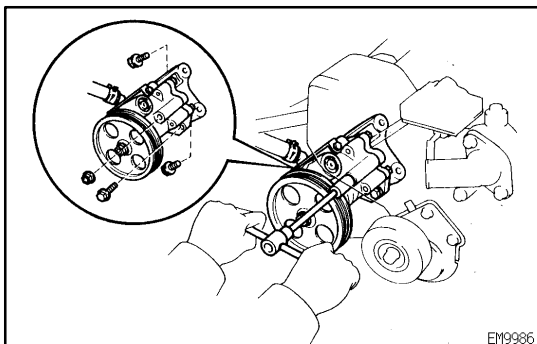


18. DISCONNECT POWER STEERING (PS) TUBES FROM SUSPENSION CROSSMEMBER

Remove the clamp bolt, and disconnect the PS tubes.

19. DISCONNECT POWER STEERING (PS) RESERVOIR TANK AND BRACKET FROM BODY

Remove the 3 bolts, and disconnect the reservoir tank and bracket assembly.

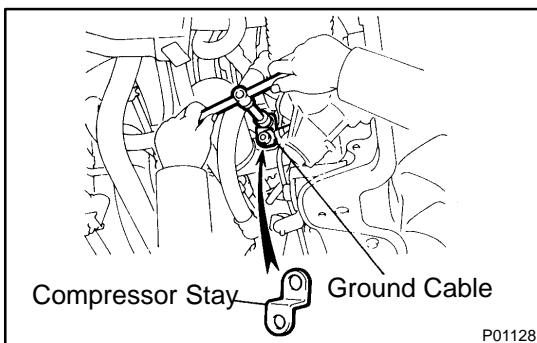


20. DISCONNECT POWER STEERING (PS) PUMP FROM ENGINE

Remove the nut and 3 bolts, and disconnect the PS pump from the engine.

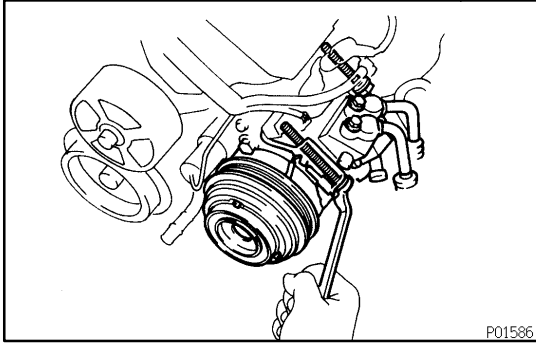
HINT:

Put aside the PS pump, and suspend it.



21. DISCONNECT AIR CONDITIONING (A/C) COMPRESSOR FROM ENGINE

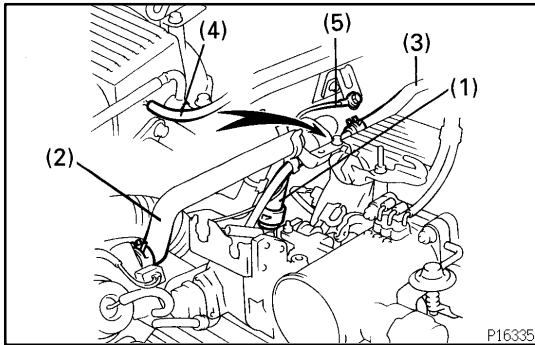
- (a) Disconnect the A/C compressor connector.
- (b) Remove the nut, and disconnect the ground cable from the A/C compressor stay.
- (c) Remove the bolt and A/C compressor stay.



- (d) Remove the 2 bolts, and disconnect the A/C compressor from the engine.

HINT:

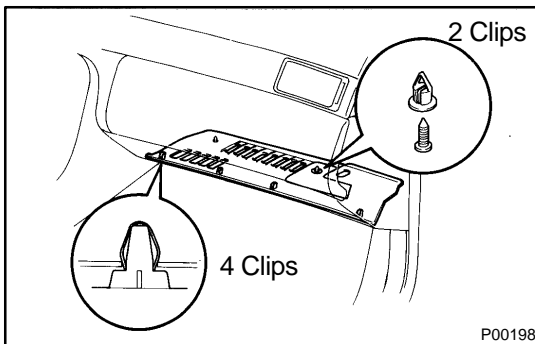
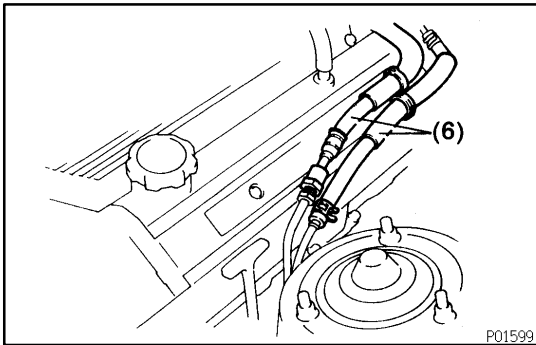
Put aside the A/C compressor, and suspend it.



22. DISCONNECT HOSES

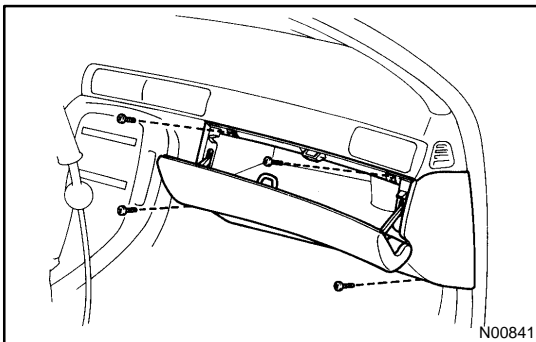
Disconnect these hoses and ground strap:

- (1) Heater water hose from water bypass hose
- (2) Heater water hose from heater water valve
- (3) Brake booster hose from union on air intake chamber
- (4) Vacuum hose (from VSV for heater water valve) from air intake chamber
- (5) Ground strap from bracket on body
- (6) 2 fuel hose

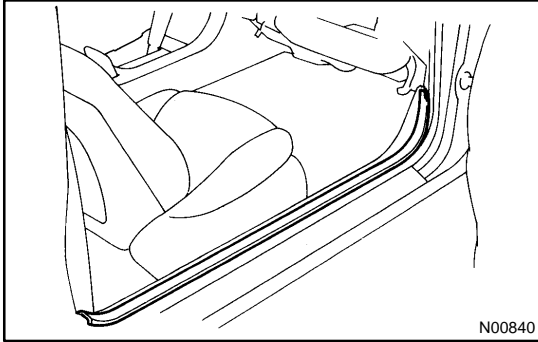


23. DISCONNECT ENGINE WIRE FROM CABIN

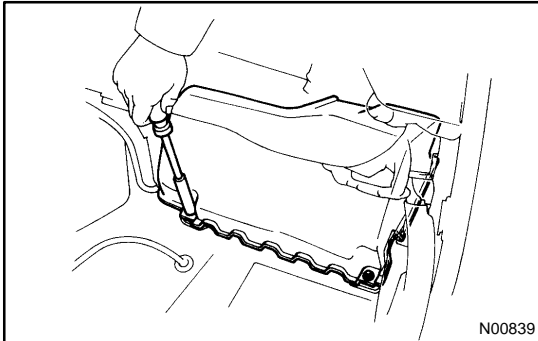
- (a) Remove the 2 clips, and pull out the instrument panel under cover.



- (b) Remove the 4 screws.
- (c) Disconnect the connectors, and remove the lower instrument panel finish panel and glove compartment door assembly

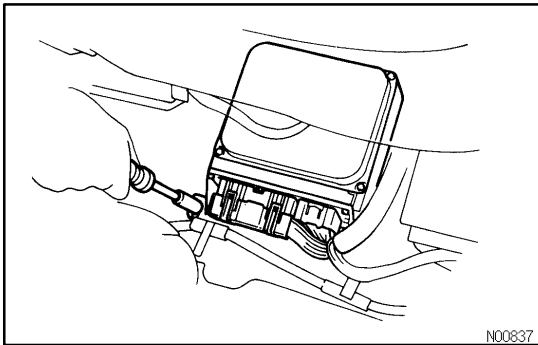


(d) Pull out the scuff plate.



(e) Take out the front side of the floor carpet.

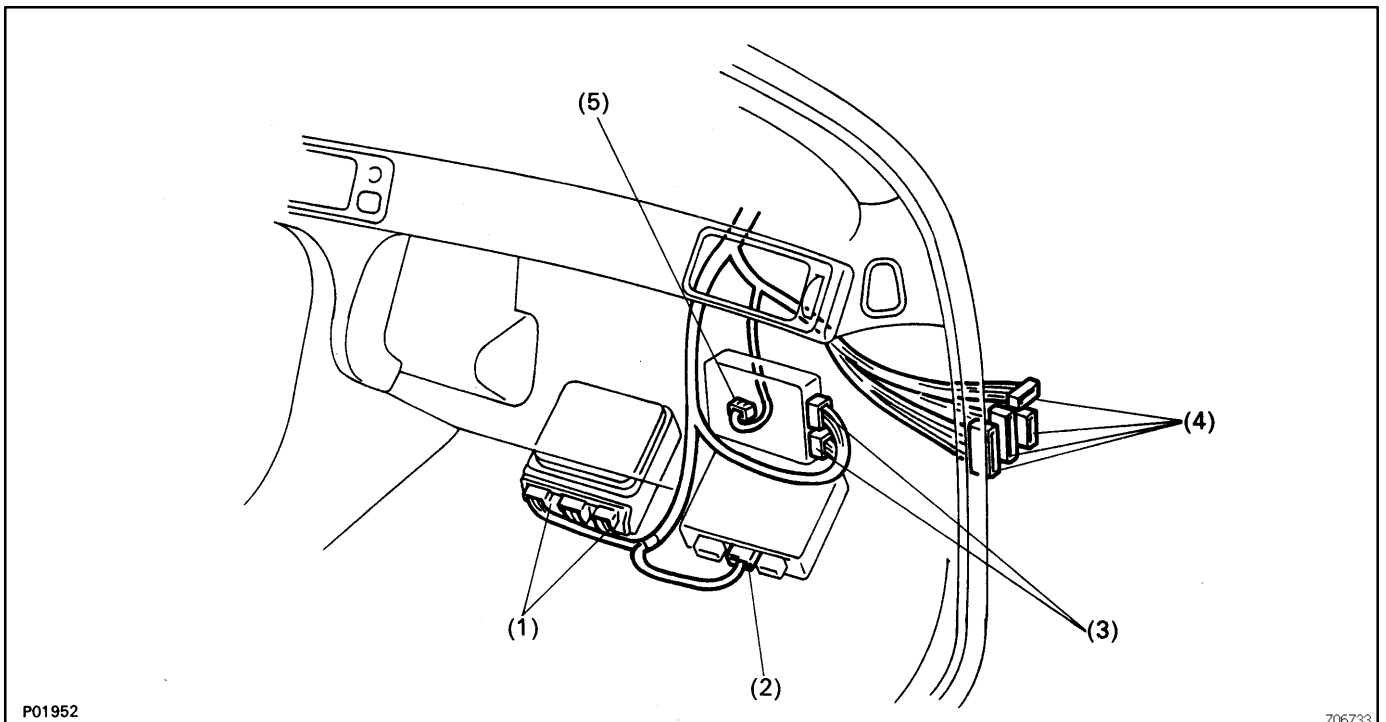
(f) Remove the 2 nuts and ECM protector.

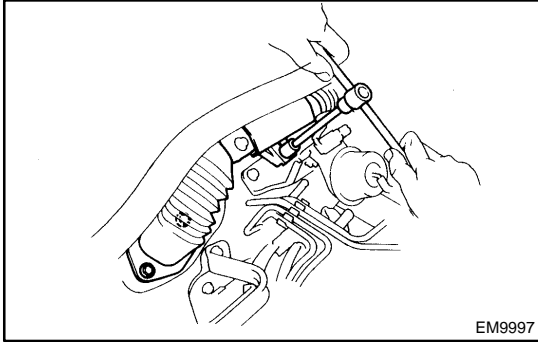


(g) Remove the nut, and disconnect the ECM from the floor panel.

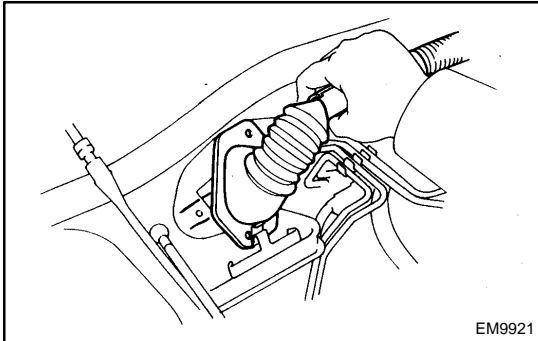
(h) Disconnect these connectors:

- (1) 2 connectors from ECM
- (2) Connector from ABS & TRAC ECU
- (3) 2 connectors from TRAC ECU
- (4) 4 connectors from connector cassette
- (5) Connector from A/C control assembly





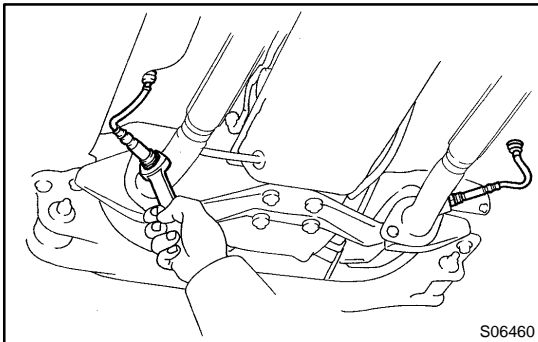
- (i) Remove the bolt holding the engine wire clamp to the heater water valve bracket.
- (j) Remove the 2 bolts holding the engine wire clamp to the body.



- (k) Pull out the engine wire from the cabin.

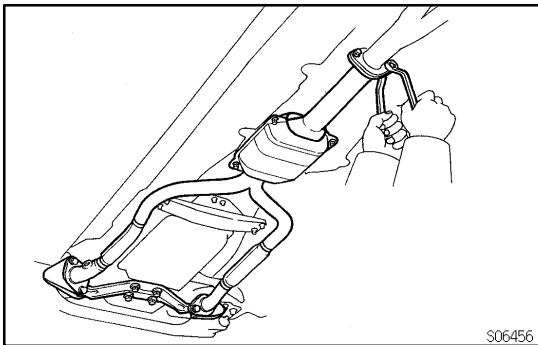
NOTICE:

Be careful not to damage the engine wire.



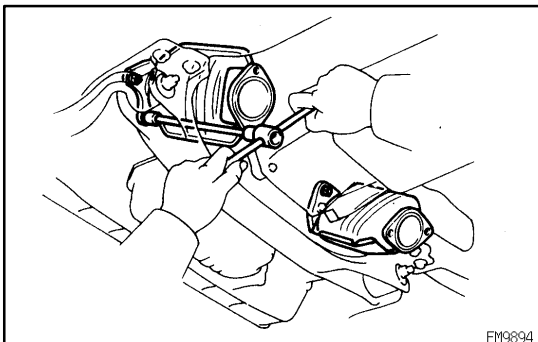
24. DISCONNECT HEATED OXYGEN SENSORS (BANK1, 2 SENSOR2) FROM FRONT EXHAUST PIPE

- (a) Disconnect the 2 wire grommets from the floor panel.
- (b) Disconnect the 2 oxygen sensors from the exhaust pipe.



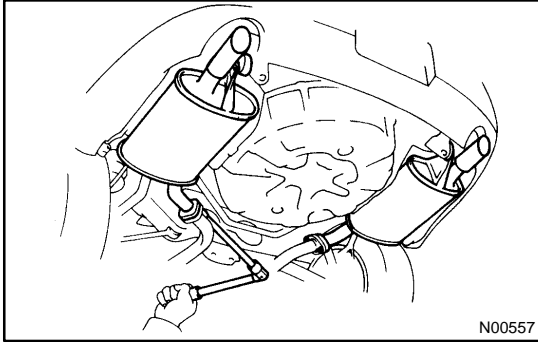
25. REMOVE FRONT EXHAUST PIPE

- (a) Remove the 4 bolts holding the pipe support bracket to the transmission.
- (b) Remove the 2 bolts and nuts holding the front exhaust pipe to the center exhaust pipe.
- (c) Remove the 4 bolts and 2 bracket holding the front exhaust pipe to the TWC.
- (d) Remove the pipe support bracket, front exhaust pipe and 3 gaskets.

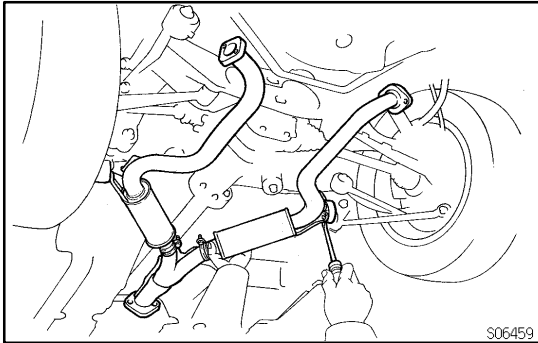


26. REMOVE FRONT TWC

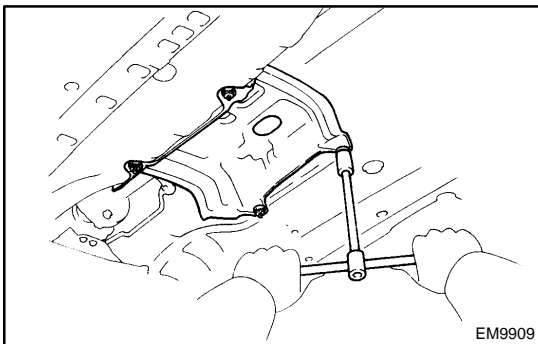
Using a 14 mm deep socket wrench, remove the 3 nuts, TWC and gasket. Remove the 2 TWCs.

**27. REMOVE TAILPIPE**

- (a) Remove the 4 nuts holding the tailpipes to the center exhaust pipe.
- (b) Disconnect the hook from the ring on tailpipe bracket, and remove the tailpipe and gasket. Remove the 2 tailpipes.

**28. REMOVE CENTER EXHAUST PIPE**

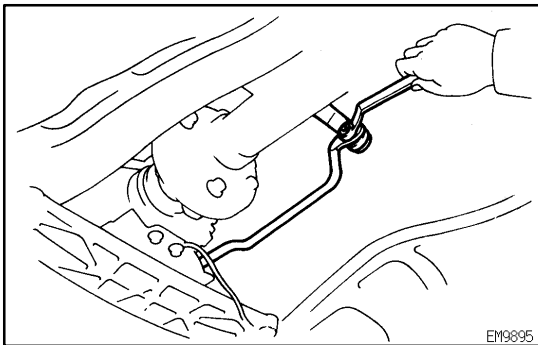
Disconnect the 2 hooks of the exhaust pipe from the rings on exhaust pipe brackets, and remove the exhaust pipe.

**29. REMOVE HEAT INSULATOR FOR FRONT EXHAUST PIPE**

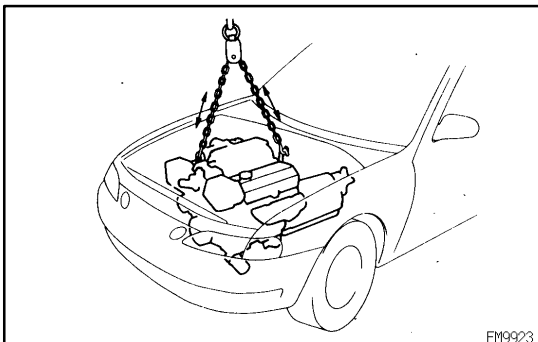
Remove the 4 nuts and heat insulator.

30. REMOVE CENTER FLOOR CROSSMEMBER BRACE

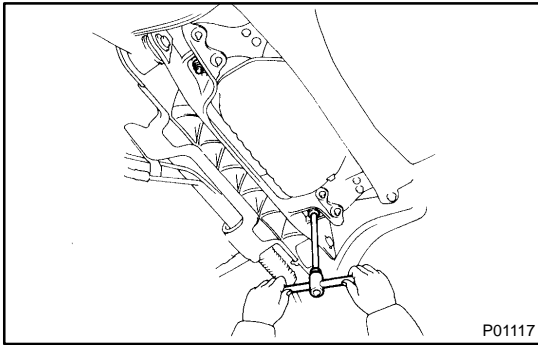
Remove the 4 bolts and crossmember brace.

31. REMOVE PROPELLER SHAFT (See page [PR-9](#))**32. DISCONNECT TRANSMISSION CONTROL ROD FROM SHIFT LEVER**

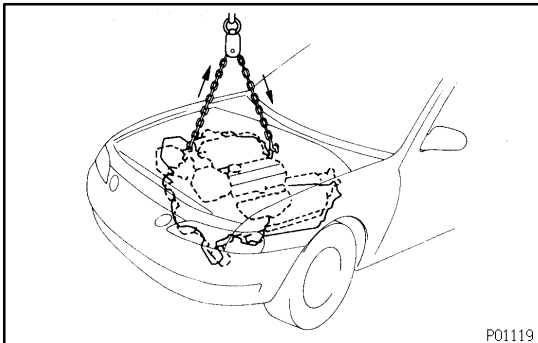
Remove the nut, and disconnect the control rod from the shift lever.

**33. REMOVE ENGINE AND TRANSMISSION ASSEMBLY FROM VEHICLE**

- (a) Attach the engine chain hoist to the engine hangers.



- (b) Remove the 2 nuts holding the engine mounting insulators to the front suspension crossmember.
- (c) Remove the 4 bolts, 4 nuts and rear engine mounting member. Disconnect the ground strap.



- (d) Lift the engine out of the vehicle slowly and carefully.

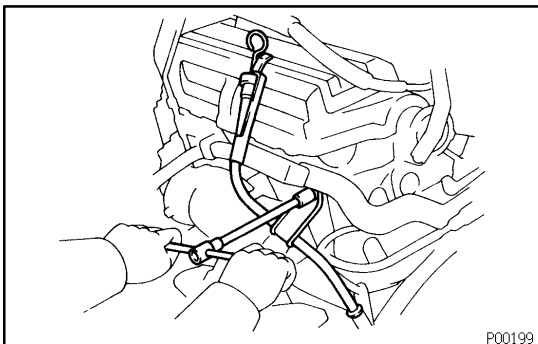
HINT:

Make sure the engine is clear of all wires, hoses and cables.

NOTICE:

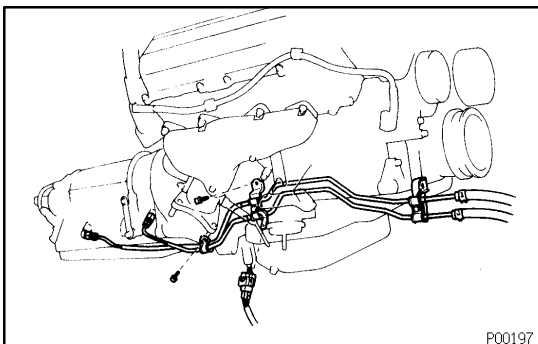
Be careful not hit the PS gear housing, PNP switch and ABS actuator.

- (e) Place the engine and transmission assembly onto the stand.



34. REMOVE OIL DIPSTICK GUIDE AND DIPSTICK FOR TRANSMISSION

- (a) Remove the bolt.
- (b) Pull out the dipstick guide and dipstick from the port of transmission.
- (c) Remove the O-ring from the dipstick guide.

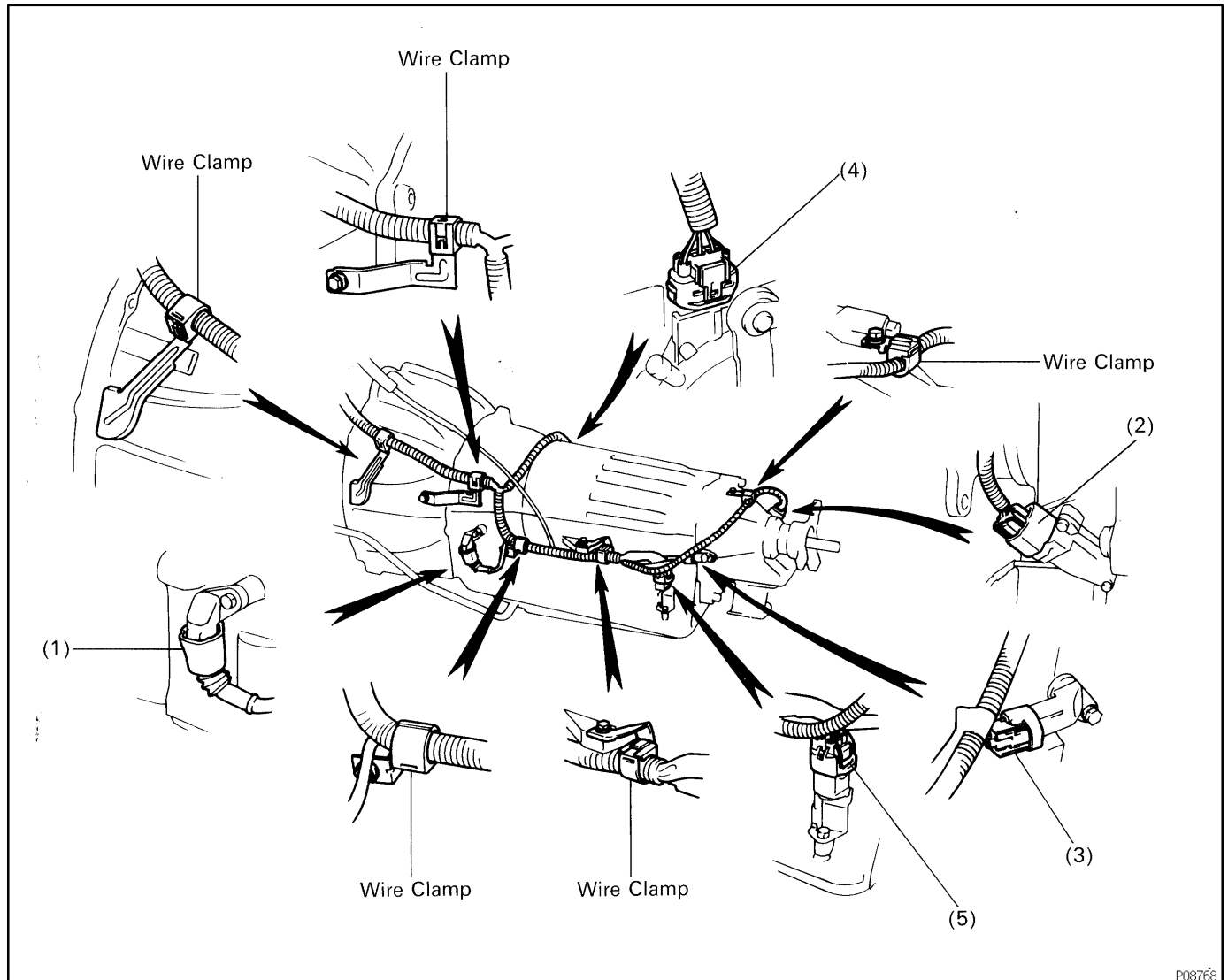


35. REMOVE OIL COOLER PIPES FOR TRANSMISSION

- (a) Remove the 2 bolts.
- (b) Loosen the 2 union nuts, and remove the oil cooler pipes.

36. DISCONNECT ENGINE WIRE

- (a) Disconnect these connector:
- (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) Disconnect the 5 wire clamps from the brackets on transmission.

**37. REMOVE TRANSMISSION (See page [AT-21](#))**