

## ENGINE REMOVAL (2JZ-GE)

1. REMOVE HOOD
2. REMOVE RADIATOR ASSEMBLY  
(See radiator removal in Cooling System)
3. DRAIN ENGINE OIL
4. DRAIN FUEL FROM FUEL TANK
5. DISCONNECT CONTROL CABLES FROM THROTTLE BODY

Disconnect these cables:

- Accelerator cable
- Cruise control actuator cable

6. REMOVE AIR CLEANER, VAF METER AND INTAKE AIR CONNECTOR PIPE ASSEMBLY

- (a) Disconnect the high-tension cord from the ignition coil.
- (b) Disconnect the high-tension cord from the clamp on the air cleaner.
- (c) Disconnect the VAF meter connector.
- (d) Disconnect the engine wire from the VAF meter.
- (e) Disconnect these hoses:
  - (1) PS air hose from No.4 timing belt cover
  - (2) PCV hose from No.2 cylinder head cover
- (f) Loosen the hose clamp bolt holding the intake air connector pipe to the throttle body.
- (g) Remove the 3 bolts, air cleaner, VAF meter and intake air connector pipe assembly.

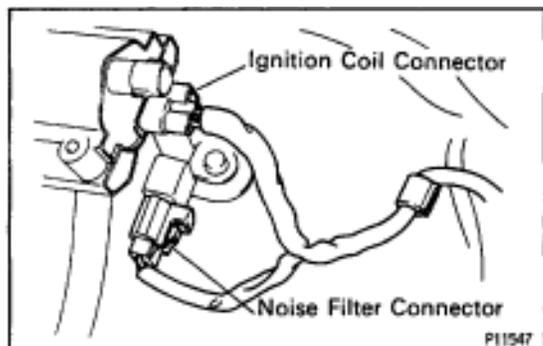
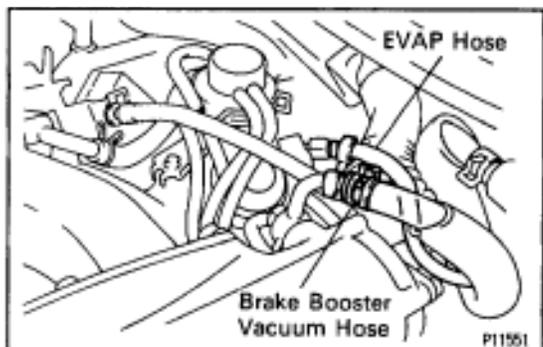
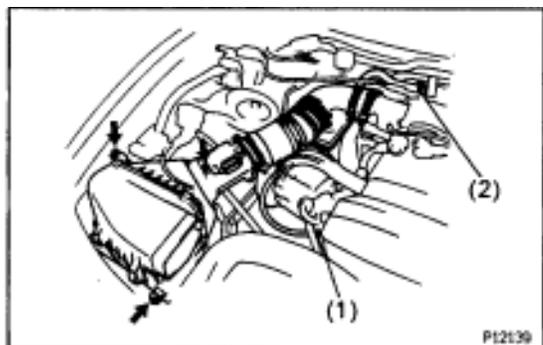
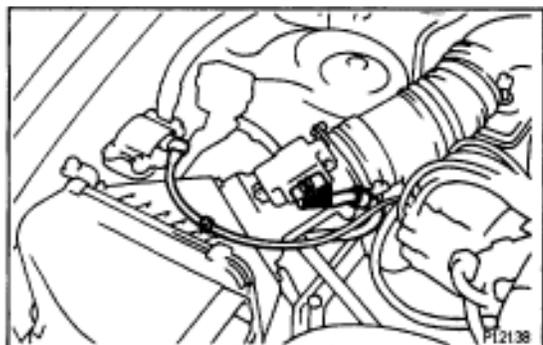
7. REMOVE DRIVE BELT, FAN, FLUID COUPLING ASSEMBLY AND WATER PUMP PULLEY  
(See step 6 in water pump removal in Cooling System)

8. REMOVE CHARCOAL CANISTER

9. DISCONNECT HEATER WATER HOSES

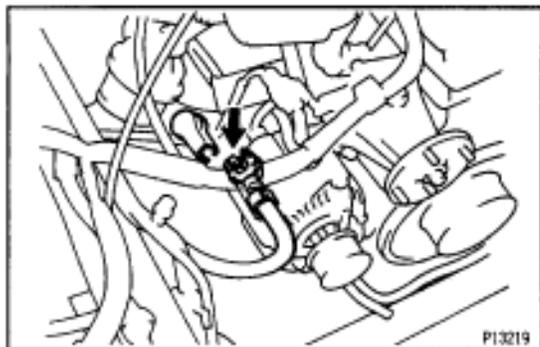
10. DISCONNECT BRAKE BOOSTER VACUUM HOSE

11. DISCONNECT EVAP HOSE

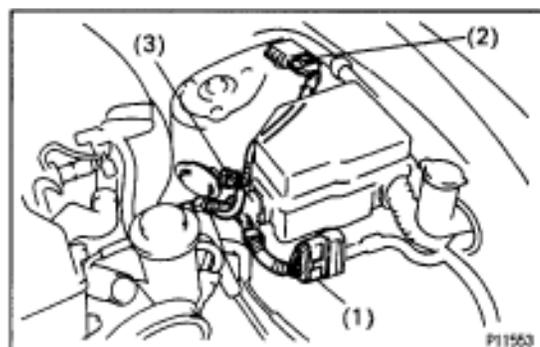


12. DISCONNECT WIRES AND CONNECTORS

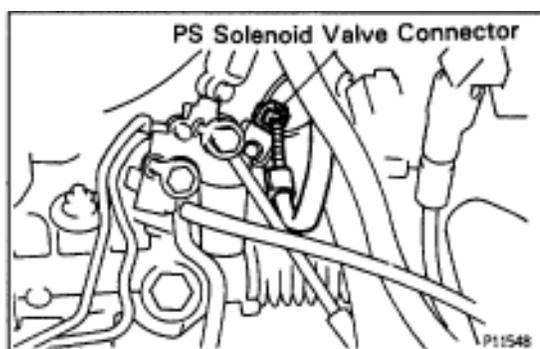
- (a) Disconnect the noise filter connector.
- (b) Disconnect the ignition coil connector.
- (c) Disconnect the engine wire from the wire clamp.



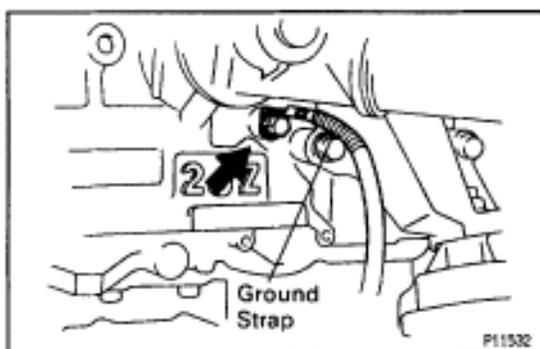
- (d) Remove the rubber cap and nut, and disconnect the generator wire.



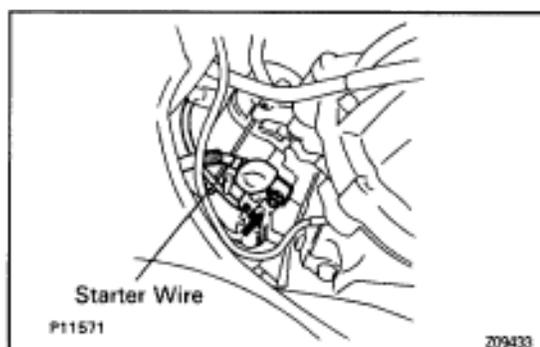
- (e) Disconnect these connectors:  
 (1) Connector from engine room main wire  
 (2) Igniter connector  
 (3) Theft deterrent horn connector  
 (f) Disconnect the engine wire from the 2 wire clamps.



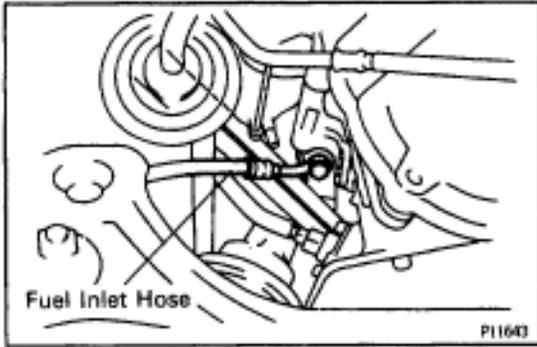
- (g) Disconnect the wire clamp and PS solenoid valve connector.



- (h) Remove the bolt, and disconnect the ground strap from the cylinder block.



- (i) Remove the rubber cap and nut, and disconnect the starter wire.



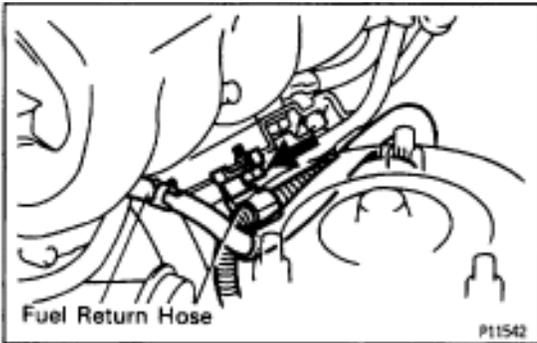
### 13. DISCONNECT FUEL HOSES

- (a) Remove the union bolt and 2 gaskets, disconnect the fuel inlet hose.

**HINT:**

- Put a suitable container or shop rag under the fuel pipe support.
- Slowly loosen the union bolt.

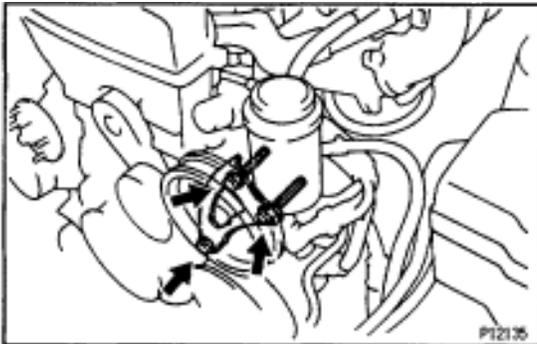
- (b) Suspend the hose union end upward.



- (c) Disconnect the fuel return hose from the oil dipstick guide.  
 (d) Disconnect the fuel return hose from the fuel return hose. Plug the hose end.

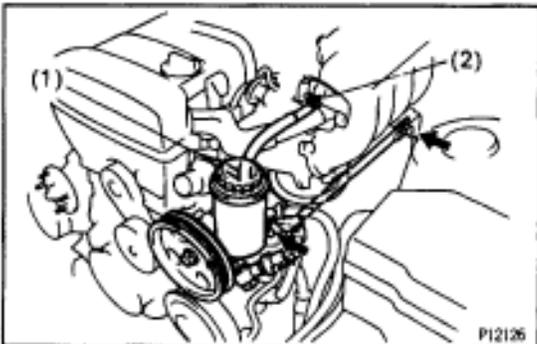
### 14. REMOVE ENGINE WIRE BRACKET

Remove the bolt and bracket, and disconnect the engine wire from the intake manifold stay.



### 15. DISCONNECT PS PUMP WITHOUT DISCONNECTING HOSES

- (a) Remove the 3 bolts, plate washer and pump front bracket.

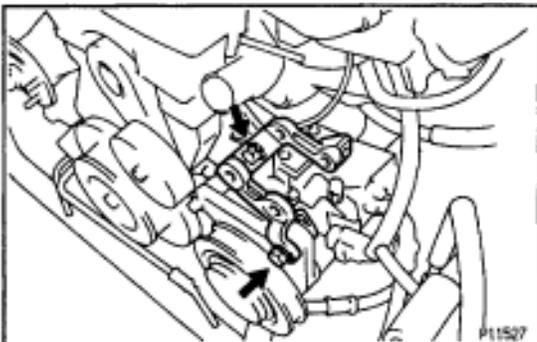


- (b) Disconnect these hoses:

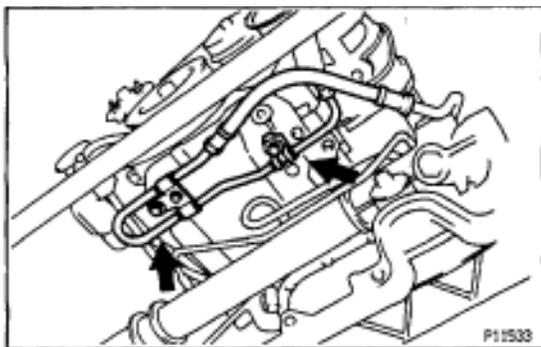
- (1) Air hose from No.4 timing belt cover  
 (2) Air hose from air intake chamber

- (c) Disconnect the pump housing from the pump bracket.  
**HINT:** Put aside the pump housing, and suspend it.

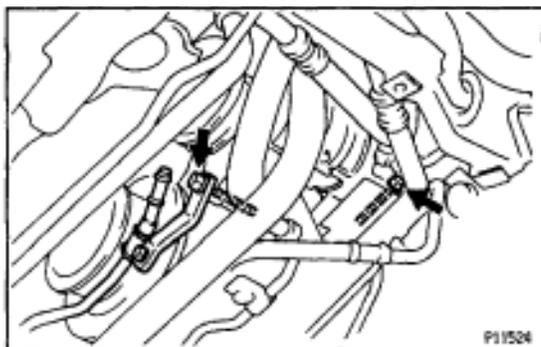
- (d) Remove the 2 bolts and pump rear stay.



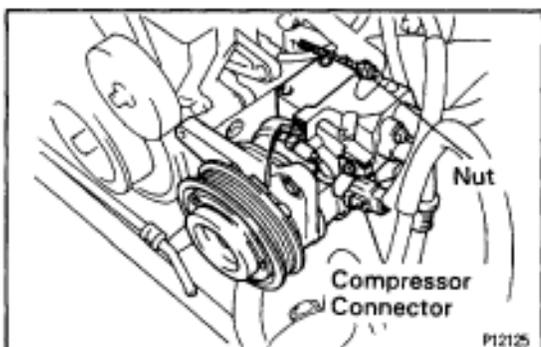
- (e) Remove the 2 bolts and pump bracket.

**16. DISCONNECT PS PRESSURE TUBE FROM ENGINE**

Remove the 2 clamp bolts, and disconnect the pressure tube.

**17. DISCONNECT A/C COMPRESSOR WITHOUT DISCONNECTING HOSES**

(a) Remove the 2 bolts.

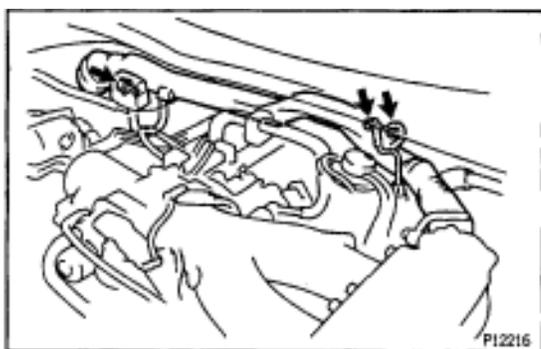


(b) Disconnect the compressor connector.

(c) Remove the nut.

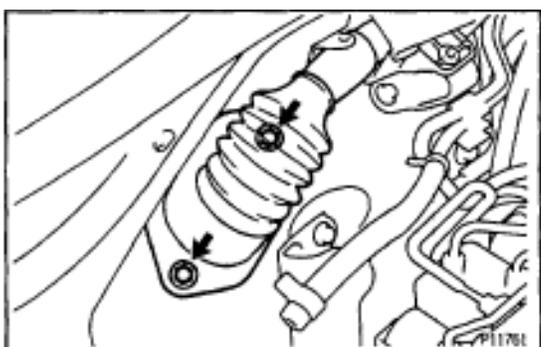
(d) Using a torx socket (E10), remove the stud bolt, and disconnect the compressor from the engine.

HINT: Put aside the compressor, and suspend it securely.

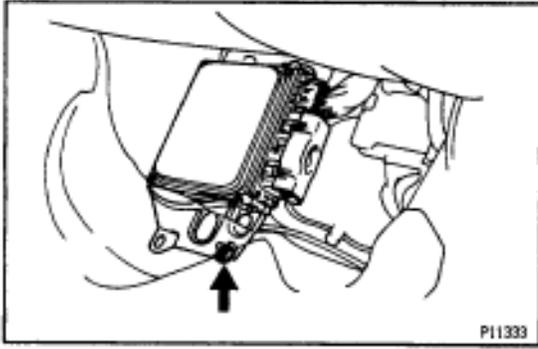
**18. DISCONNECT ENGINE WIRE FROM COWL PANEL**

(a) Remove the bolt, and disconnect the ground strap.

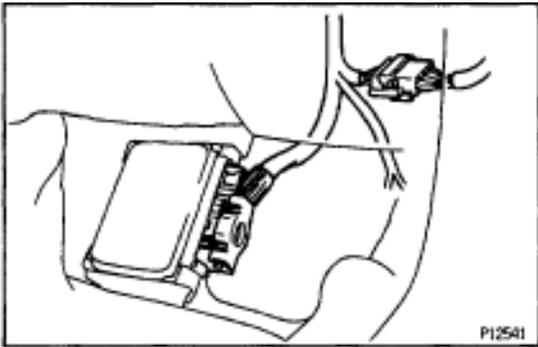
(b) Remove the 2 bolt, and disconnect the engine wire protector.



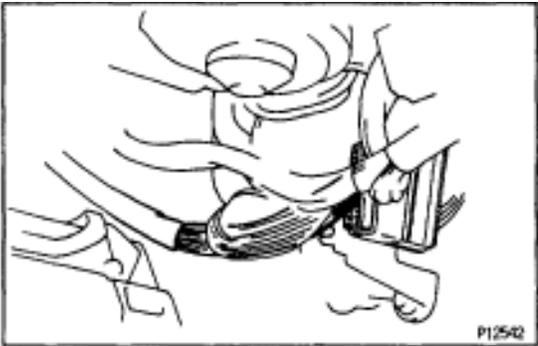
(c) Remove the 2 bolts holding the engine wire retainer to the cowl panel.

**19. DISCONNECT ENGINE WIRE FROM CABIN**

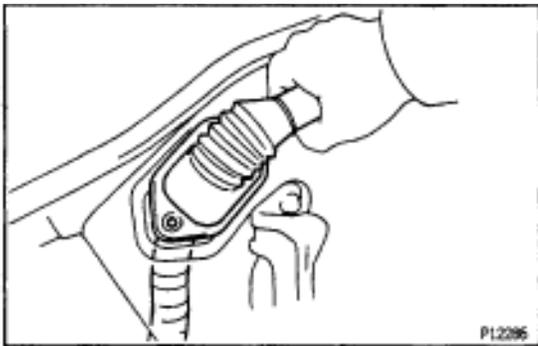
- (a) Remove the scuff plate.
- (b) Take out the front side of the floor carpet.
- (c) Remove the 2 nuts and ECM protector.
- (d) Remove the nut, and disconnect the ECM from the floor panel.



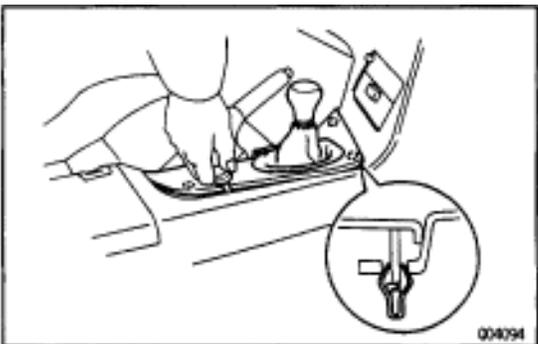
- (e) Disconnect the 2 connectors from the ECM.
- (f) Disconnect the connector from the instrument panel wire.



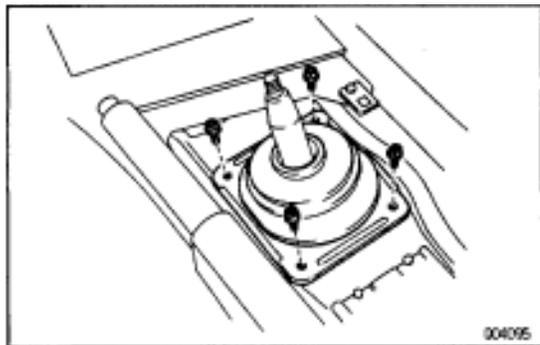
- (g) Disconnect the connector from the connector cassette.



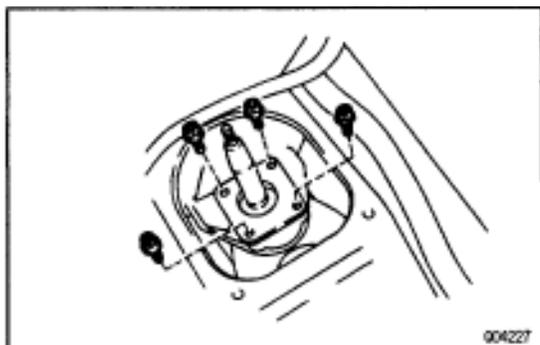
- (h) Pull out the engine wire from the cabin.

**20. M/T:****REMOVE UPPER CONSOLE PANEL, SHIFT LEVER BOOTS AND HOLDING BOLTS**

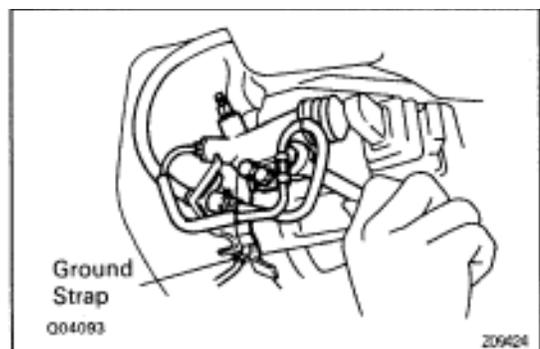
- (a) Remove the shift lever knob.
- (b) Using a screwdriver, pry out the upper console panel.



- (c) Remove the 4 bolts holding the lever boot to the transmission cover.
- (d) Remove the shift and select lever boots.

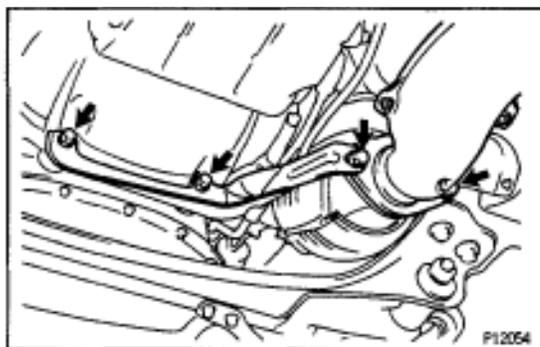


- (e) Remove the 4 bolts holding the shift lever to the shift lever retainer.



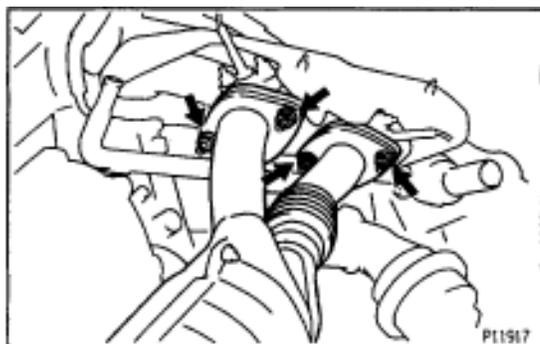
**21. M/T:  
DISCONNECT CLUTCH RELEASE CYLINDER AND  
GROUND STRAP FROM TRANSMISSION**

- (a) Remove the 2 bolts and clutch release cylinder.
- (b) Remove the bolt, and disconnect the ground strap.



**22. REMOVE NO.2 EXHAUST PIPE**

- (a) Remove the 2 bolts and nuts holding the No.2 front exhaust pipe to the front exhaust pipe.
- (b) Remove the 2 bolts and pipe support bracket.
- (c) Remove the gasket, and disconnect the front exhaust pipe.

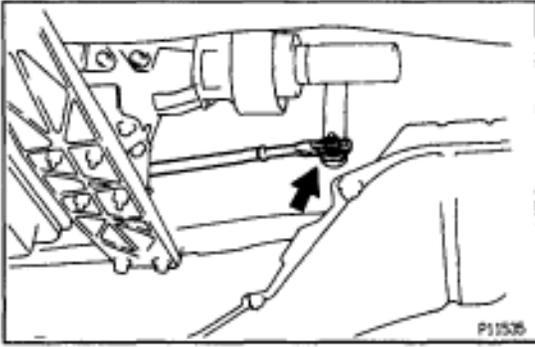


- (d) Remove the 4 nuts, No.2 front exhaust pipe and 2 gaskets.

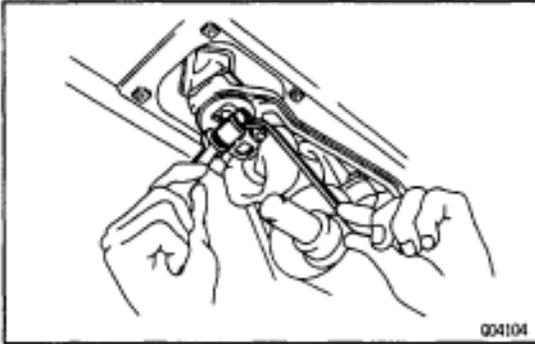
**23. REMOVE EXHAUST PIPE HEAT INSULATOR**

**24. REMOVE PROPELLER SHAFT**

(See propeller shaft removal in Propeller Shaft)

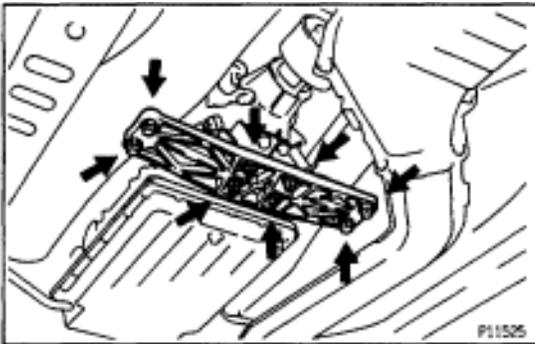


- 25. A/T:**  
**DISCONNECT TRANSMISSION CONTROL ROD**  
 Remove the nut, and disconnect the control rod from the shift lever.

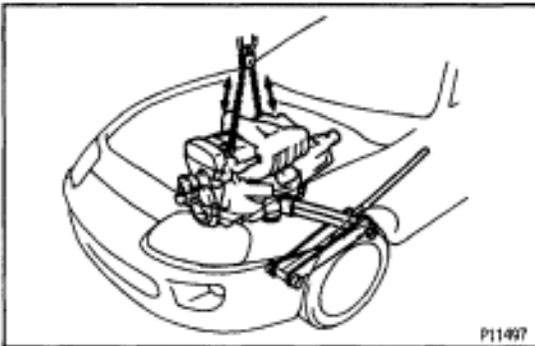


- 26. M/T:**  
**REMOVE TRANSMISSION SHIFT LEVER**  
 (a) Remove the bolt and nut.  
 (b) Remove the transmission shift lever, inside of vehicle.

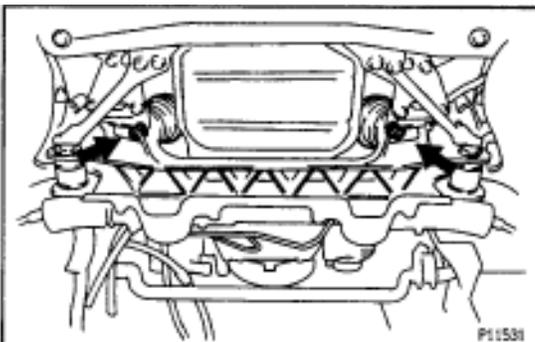
- 27. PLACE JACK UNDER TRANSMISSION**  
**NOTICE (A/T):** Be sure to put a wooden block between the jack and the transmission oil pan to prevent damage.



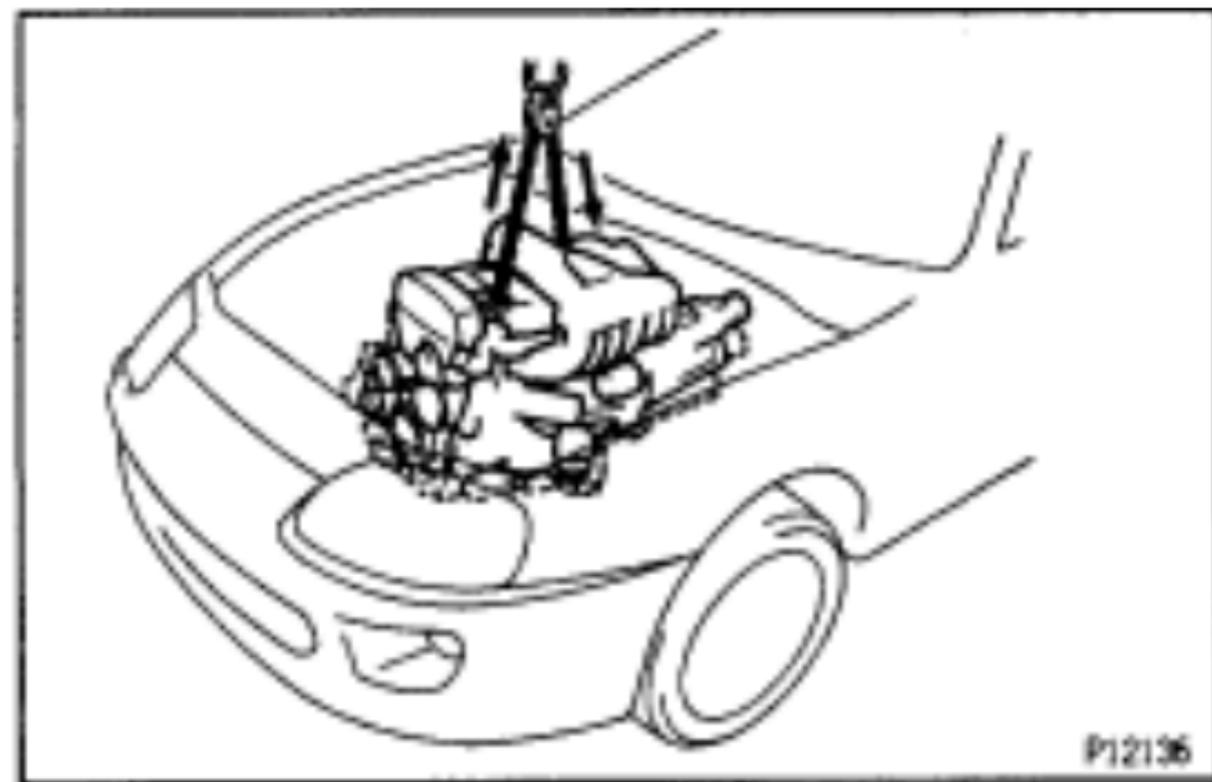
- 28. REMOVE REAR SUPPORT MEMBER**  
 (a) Remove the 4 nuts holding the member to the engine rear mounting insulator.  
 (b) Remove the 4 bolts and rear support member.



- 29. REMOVE ENGINE AND TRANSMISSION ASSEMBLY FROM VEHICLE**  
 (a) Attach the engine hoist chain to the 2 engine hangers.



- (b) Remove the 2 nuts holding the engine front mounting insulators to the front suspension crossmember.



- (c) Lift the engine out of the vehicle slowly and carefully.  
**NOTICE: Remove the engine and transmission assembly carefully without damaging the shift lever retainer (M/ T), A/C compressor or PS solenoid valve.**
- (d) Make sure the engine is clear of all wiring, hoses and cables.
- (e) Place the engine and transmission assembly onto the stand.