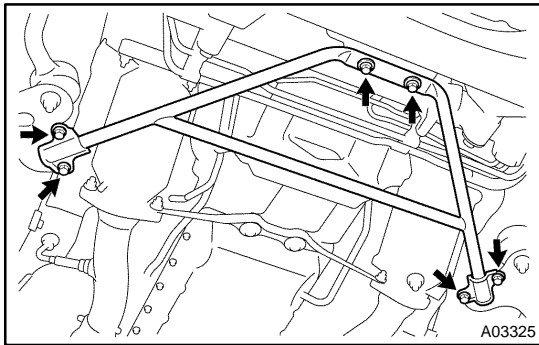


REMOVAL

1. REMOVE HOOD
2. REMOVE ENGINE UNDER COVER
3. DRAIN ENGINE COOLANT
4. DRAIN ENGINE OIL
5. REMOVE V-BANK COVER
6. REMOVE AIR CLEANER INLET
7. REMOVE AIR CLEANER ASSEMBLY
8. REMOVE INTAKE AIR CONNECTOR PIPE
9. REMOVE RADIATOR ASSEMBLY (See page [CO-19](#))
10. REMOVE DRIVE BELT (See page [CH-1](#))



11. REMOVE FRONT SUSPENSION MEMBER BRACE

Remove the 6 bolts and brace.

12. DISCONNECT WIRE, CABLES, HOSES AND CLAMP

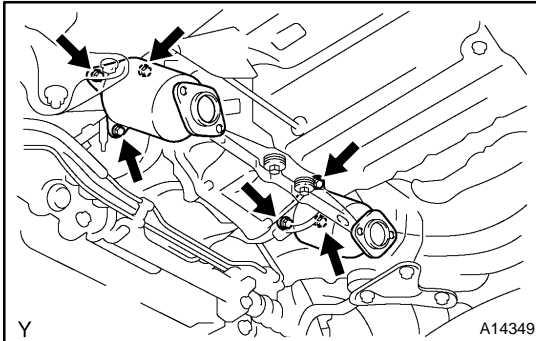
- Disconnect the generator wire from generator.
- Disconnect the wire for generator wire from wire clamp on generator.
- Disconnect the ground cable from stay on generator.
- Disconnect the PS oil hose from No. 1 oil pan.
- Disconnect the 2 PS air hoses from hose clamp on No. 3 RH timing belt cover.
- Disconnect the hose clamp for PS air hose.
- Disconnect the PS air hose from upper intake manifold.
- Disconnect the starter cable from battery.
- Disconnect the ground strap from body.
- Disconnect the 2 heater hoses.
- Disconnect the fuel inlet hose (rear fuel pipe) from fuel main tube.

13. DISCONNECT ENGINE WIRE FROM ECU BOX

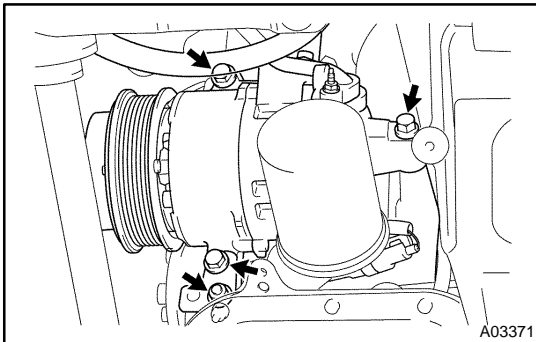
- (a) Remove these parts:
 - Remove the ECM cover
 - Remove the ECM hood
- (b) Disconnect these connectors:
 - Disconnect the 3 engine ECM connectors
 - Disconnect the 4 wire harness connectors
 - Disconnect the 2 junction connectors
- (c) Disconnect the grommet and engine wire from the ECM box.

14. DISCONNECT HEATED OXYGEN SENSORS FROM FRONT EXHAUST PIPE

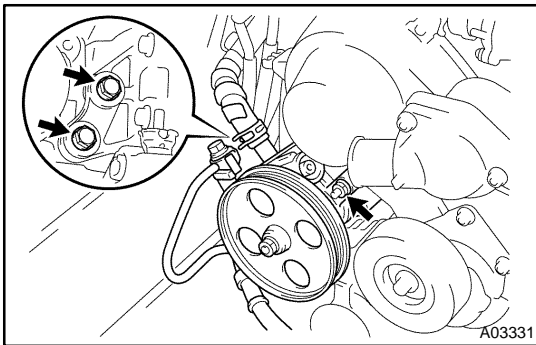
- (a) Disconnect the 2 wire grommets from the floor panel.
- (b) Disconnect the 2 oxygen sensors from the exhaust pipe.

15. REMOVE FRONT AND CENTER EXHAUST PIPES**16. REMOVE TWC**

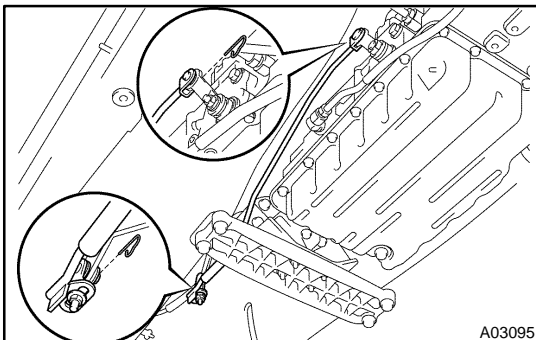
Remove the 3 nuts, TWC and gasket. Remove the 2 TWC.

17. REMOVE CENTER FRONT FLOOR BRACE**18. REMOVE HEAT INSULATORS****19. REMOVE PROPELLER SHAFT (See page [PR-4](#))****20. DISCONNECT A/C COMPRESSOR FROM ENGINE**

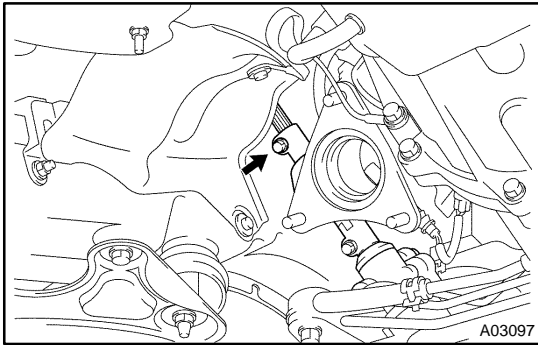
- (a) Disconnect the A/C compressor connector.
- (b) Disconnect the wire clamp from the wire bracket on the A/C compressor.
- (c) Remove the bolt, nut and A/C compressor stay.
- (d) Remove the bolt, and disconnect the wire bracket from the A/C compressor.
- (e) Remove the bolt, and disconnect the A/C compressor from the engine.

**21. REMOVE PS PUMP**

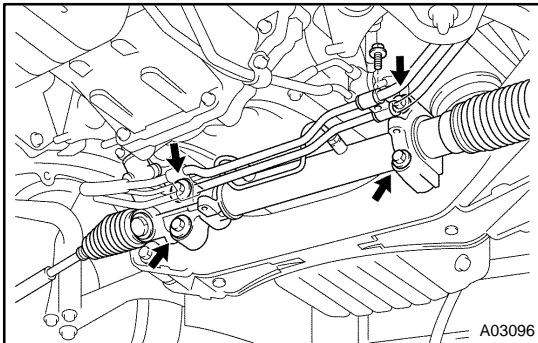
- (a) Remove the 2 screws and RH engine under cover.
- (b) Disconnect the PS oil pressure switch connector.
- (c) Remove the 2 bolts and nut, and disconnect the PS pump from the engine.

**22. REMOVE TRANSMISSION CONTROL ROD**

Remove the 2 clips and control rod.

**23. DISCONNECT PS GEAR HOUSING**

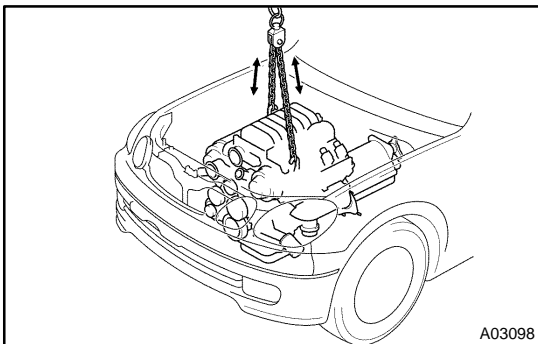
- (a) Check the steering wheel at the straight-ahead position.
- (b) Remove the bolt holding the sliding yoke to the steering intermediate shaft.



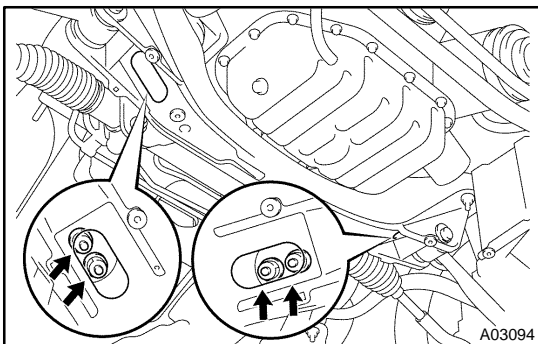
- (c) Remove the bolt, and disconnect the 2 PS oil tubes from the front frame.
- (d) Remove the 4 bolts, and disconnect the PS gear housing from the front frame.
- (e) Disconnect the sliding yoke from the intermediate shaft.

HINT:

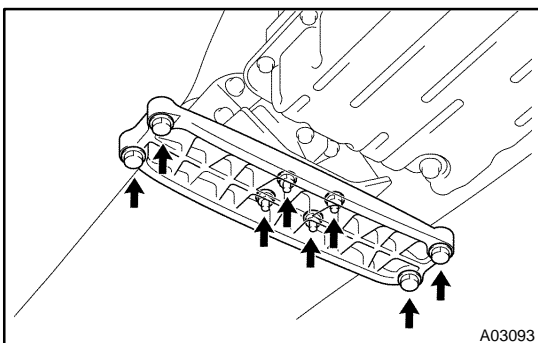
Suspend the PS gear housing securely.

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

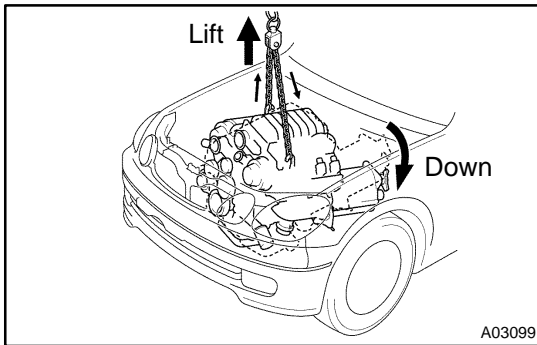
- (a) Remove the nut and No.1 V-bank cover bracket from the No.2 engine hanger.
- (b) Attach the engine chain hoist to the engine hangers.



- (c) Remove the 2 hole plugs.
- (d) Remove the 4 nuts holding the engine mounting insulators to the front suspension crossmember.



- (e) Remove the 4 bolts, 4 nuts and rear engine mounting member.



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

HINT:

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

(g) Place the engine and transmission assembly onto the stand.

25. DISCONNECT ENGINE WIRE FROM TRANSMISSION

Disconnect the connectors and wire:

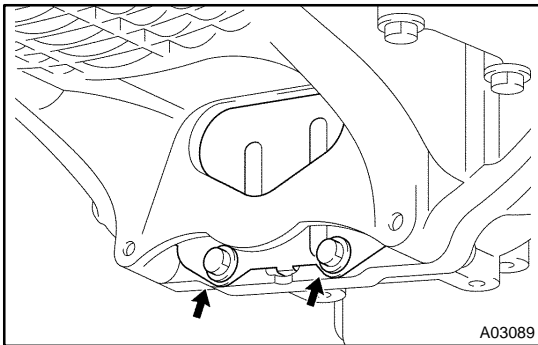
- Disconnect the VSV connector.
- Disconnect the PNP switch connector.
- Disconnect the solenoid connector.
- Disconnect the direct clutch speed sensor connector.
- Disconnect the engine wire from 3 wire clamps.

26. REMOVE OIL DIPSTICK GUIDE AND DIPSTICK FOR TRANSMISSION

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

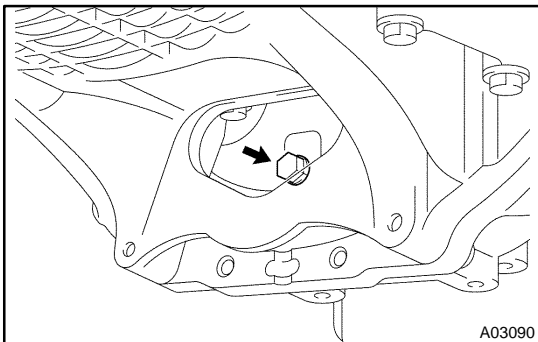
27. REMOVE OIL COOLER PIPES FOR TRANSMISSION

- (a) Disconnect the oil level sensor connector.
- (b) Remove the 3 bolts and 3 stays.
- (c) Loosen the 2 union nuts, and remove the 2 oil cooler pipes.

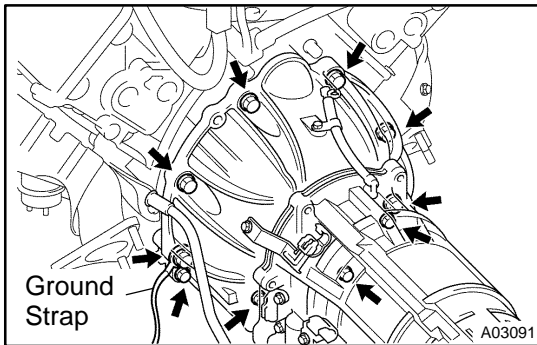


28. REMOVE TORQUE CONVERTER CLUTCH BOLTS

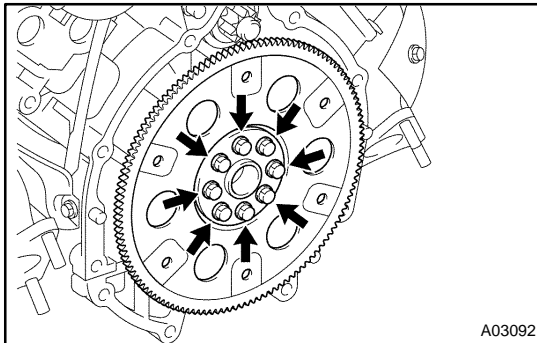
- (a) Remove the 2 bolts and flywheel housing under cover.



- (b) Turn the crankshaft pulley bolt to gain access to each bolt.
- (c) Hold the crankshaft pulley bolt with a wrench, and remove the 6 bolts.

**29. REMOVE TRANSMISSION**

- (a) Remove the 10 bolts and ground strap.
- (b) Remove the transmission together with the torque converter clutch from the engine.

**30. REMOVE DRIVE PLATE**

Remove the 8 bolts, front spacer, drive plate and rear spacer.