REMOVAL

1. DISCHARGE FUEL SYSTEM PRESSURE
   (See page FU-1)

2. REMOVE BATTERY

3. DRAIN ENGINE COOLANT (See page CO-3)

4. DRAIN ENGINE OIL (See page LU-4)

5. REMOVE HOOD SUPPORT (See page ED-5)

6. REMOVE HOOD SUB-ASSEMBLY
   (a) Disconnect the windshield washer hose.
   (b) Remove the 4 bolts, then remove the hood.

7. REMOVE RADIATOR ASSEMBLY
   Refer to the procedures up to "REMOVE RADIATOR ASSEMBLY" (See page CO-22).

8. REMOVE MANUAL TRANSMISSION UNIT ASSEMBLY (for Manual Transmission)
   Refer to the procedures up to "REMOVE MANUAL TRANSMISSION UNIT ASSEMBLY" (See page MT-8).

9. REMOVE AUTOMATIC TRANSMISSION ASSEMBLY (for Automatic Transmission)
   Refer to the procedures up to "REMOVE AUTOMATIC TRANSMISSION ASSEMBLY" (See page AT-172 or AT-178).

10. REMOVE CLUTCH DISC ASSEMBLY (for Manual Transmission)
    Refer to the procedures up to "REMOVE CLUTCH DISC ASSEMBLY" (See page CL-21).

11. REMOVE FLYWHEEL SUB-ASSEMBLY (for Manual Transmission)
    (a) Using SST, hold the crankshaft.
    SST  09213-54015 (91651-60855), 09330-00021

    (b) Remove the 8 bolts, then remove the flywheel and 2 spacers.
12. REMOVE DRIVE PLATE AND RING GEAR SUB-ASSEMBLY (for Automatic Transmission)
   (a) Using SST, hold the crankshaft.
   SST 09213-54015 (91651-60855), 09330-00021

   (b) Remove the 8 bolts, then remove the drive plate and 2 spacers.

13. REMOVE THROTTLE BODY BRACKET (See page FU-11)

14. REMOVE OIL BAFFLE PLATE (See page FU-11)

15. REMOVE NO. 1 SURGE TANK STAY (See page FU-11)

16. REMOVE NO. 2 SURGE TANK STAY (See page FU-12)

17. REMOVE INTAKE AIR SURGE TANK (See page FU-12)

18. REMOVE GENERATOR ASSEMBLY (See page CH-10)

19. SEPARATE COOLER COMPRESSOR ASSEMBLY
    (See page ES-420)

20. REMOVE VANE PUMP ASSEMBLY (See page PS-8)

21. DISCONNECT NO. 1 FUEL PIPE SUB-ASSEMBLY
   (a) Remove the No. 2 fuel pipe clamp.
   (b) Pinch the retainer as illustrated, then pull the fuel tube connector out of the pipe.

   NOTICE:
   - Remove any dirt and foreign matter from the fuel tube connector before performing this work.
   - Do not allow any scratches or foreign matter onto the parts when disconnecting, as the fuel tube connector has the O-rings that seals the pipe.
   - Perform this work by hand. Do not use any tools.
   - Do not forcibly bend, twist or turn the nylon tube.
   - Protect the disconnected part by covering it with a vinyl bag after disconnecting the fuel tube.
   - If the fuel tube connector and pipe are stuck, push and pull to release them.
22. DISCONNECT NO. 2 FUEL PIPE SUB-ASSEMBLY
   (a) Remove the No. 2 fuel pipe clamp.
   (b) Pinch the retainer as illustrated, then pull the fuel
tube connector out of the pipe.
   NOTICE:
   • Remove any dirt and foreign matter from the
     fuel tube connector before performing this
     work.
   • Do not allow any scratches or foreign matter
     onto the parts when disconnecting, as the
     fuel tube connector has the O-rings that seals
     the pipe.
   • Perform this work by hand. Do not use any
     tools.
   • Do not forcibly bend, twist or turn the nylon
     tube.
   • Protect the disconnected part by covering it
     with a vinyl bag after disconnecting the fuel
     tube.
   • If the fuel tube connector and pipe are stuck,
     push and pull to release them.

23. DISCONNECT HEATER INLET WATER HOSE
   (a) Disconnect the heater inlet water hose shown in the
       illustration.

24. DISCONNECT HEATER WATER OUTLET HOSE A
    (FROM HEATER UNIT)
   (a) Disconnect the heater outlet water hose shown in
       the illustration.

25. REMOVE NO. 2 ENGINE WIRE
   (a) Disconnect the connector from the engine room
       relay block.
26. **SEPARATE ENGINE WIRE**
   
   (a) Remove the glove compartment door (see page IP-15)
   
   (b) Disconnect the connector from the four wheel drive ECU (for Automatic Transmission 4WD).
   
   (c) Disconnect the 3 connectors from the ECM.
   
   (d) Disconnect the 2 connectors from the A/C unit.
   
   (e) Pull the wire harness into the engine room.
   
   (f) Remove the bolt and disengage the clamp, then separate the ground wire from the body.
   
   (g) Disconnect the front differential connector (for Automatic Transmission 4WD).

27. **REMOVE ENGINE ASSEMBLY**
   
   (a) Install the 2 engine hangers with the 4 bolts as shown in the illustration.
      
      **Part No:**
      
      Engine hanger No. 1 12281-31070
      Engine hanger No. 2 12282-31050
      Bolt 90119-08177
      Torque: 33 N*m (336 kgf*cm, 24 ft.*lb)
   
   (b) Attach the engine sling device and hang the engine with a chain block.
(c) Remove the 4 bolts and 4 nuts, and separate the engine mounting brackets from the frame brackets.
(d) Lift the engine out of the vehicle carefully.
**NOTICE:**
Make sure that the engine is clear of all wiring and hoses.
(e) Place the engine on a work bench.

28. REMOVE HEATER INLET WATER HOSE

29. REMOVE HEATER OUTLET WATER HOSE
(a) Disconnect and remove the heater outlet water hose with heater water outlet hose A.

30. REMOVE VENTILATION HOSE
31. REMOVE NO. 2 VENTILATION HOSE

32. REMOVE MANIFOLD STAY (See page EM-68)

33. REMOVE EXHAUST MANIFOLD SUB-ASSEMBLY RH
   (See page EM-68)

34. REMOVE NO. 2 MANIFOLD STAY (See page EM-68)

35. REMOVE EXHAUST MANIFOLD SUB-ASSEMBLY LH
   (See page EM-69)

36. REMOVE FRONT NO. 1 ENGINE MOUNTING BRACKET RH
   (a) Remove the 4 bolts, then remove the engine mounting bracket RH.

37. REMOVE FRONT NO. 1 ENGINE MOUNTING BRACKET LH
   (a) Remove the 3 bolts, then remove the engine mounting bracket LH.

38. REMOVE V-RIBBED BELT TENSIONER ASSEMBLY
   (See page EM-22)

39. REMOVE NO. 2 IDLER PULLEY SUB-ASSEMBLY
   (See page EM-23)

40. REMOVE NO. 1 IDLER PULLEY SUB-ASSEMBLY
    (See page EM-23)

41. REMOVE INTAKE MANIFOLD (See page EM-69)

42. REMOVE IGNITION COIL ASSEMBLY (See page IG-8)

43. REMOVE OIL FILLER CAP SUB-ASSEMBLY

44. REMOVE OIL FILLER CAP HOUSING
   (a) Remove the 2 nuts, oil filler cap housing and gasket.

45. REMOVE OIL LEVEL GAUGE SUB-ASSEMBLY

46. REMOVE ENGINE WIRE
   (a) Remove the bolt and separate the ground wire from the bank 1 cylinder head.
   (b) Remove the bolt and separate the ground wire from the bank 2 cylinder head.
   (c) Disconnect the connector from the knock sensor sub wire.
   (d) Disconnect all connectors from the engine.
   (e) Disengage all clamps and remove the engine wire.