

## INSTALLATION

1. **INSTALL OIL LEVEL GAGE SUB-ASSEMBLY**
2. **INSTALL SPARK PLUG**  
Torque: 20 N\*m (204 kgf\*cm, 15 ft.\*lbf)
3. **INSTALL IGNITION COIL ASSEMBLY (See page IG-7)**
4. **INSTALL OIL FILLER CAP HOUSING**
  - (a) Install a new gasket and oil filler cap housing with the 2 nuts.  
Torque: 9.0 N\*m (92 kgf\*cm, 80 in.\*lbf)
5. **INSTALL OIL FILLER CAP SUB-ASSEMBLY**
6. **INSTALL WATER BY-PASS JOINT RR (See page EM-99)**
7. **INSTALL CAMSHAFT TIMING OIL CONTROL VALVE ASSEMBLY (See page ES-408)**
8. **INSTALL INTAKE MANIFOLD (See page EM-99)**
9. **INSTALL OIL FILTER BRACKET SUB-ASSEMBLY**
  - (a) Install a new gasket and oil filler bracket with the 3 bolts and 2 nuts.
10. **INSTALL WATER INLET (See page CO-10)**
11. **INSTALL V-RIBBED BELT TENSIONER ASSEMBLY (See page EM-52)**
12. **INSTALL NO.1 IDLER PULLEY SUB-ASSEMBLY (See page EM-30)**
13. **INSTALL NO.2 IDLER PULLEY SUB-ASSEMBLY (See page EM-30)**
14. **INSTALL FRONT NO.1 ENGINE MOUNTING BRACKET LH**
  - (a) Install the engine mounting bracket w/ engine mounting insulator with the 3 bolts.  
Torque: 43 N\*m (435 kgf\*cm, 31 ft.\*lbf)
15. **INSTALL FRONT NO.1 ENGINE MOUNTING BRACKET RH**
  - (a) Install the engine mounting bracket w/ engine mounting insulator with the 4 bolts.  
Torque: 43 N\*m (435 kgf\*cm, 31 ft.\*lbf)
16. **INSTALL EXHAUST MANIFOLD SUB-ASSEMBLY LH (See page EM-142)**
17. **INSTALL EXHAUST MANIFOLD SUB-ASSEMBLY RH (See page EM-100)**
18. **INSTALL NO.2 VENTILATION HOSE**
19. **INSTALL VENTILATION HOSE**
20. **INSTALL HEATER WATER INLET HOSE**
21. **INSTALL HEATER WATER OUTLET HOSE**

22. **INSTALL FLYWHEEL SUB-ASSEMBLY (for Manual Transmission) (See page [EM-168](#))**
23. **INSTALL DRIVE PLATE & RING GEAR SUB-ASSEMBLY (for Automatic Transmission) (See page [EM-169](#))**
24. **INSTALL ENGINE ASSEMBLY**
  - (a) Attach the engine sling device and hang the engine with the chain block.
  - (b) Lower the engine into the engine compartment carefully.
  - (c) Attach the engine mounting brackets to the frame brackets.
  - (d) Install the engine mounting brackets onto the frame brackets with the 4 bolts and 4 nuts.  
**Torque: 38 N\*m (387 kgf\*cm, 28 ft.\*lbf)**
  - (e) Remove the 4 bolts and 2 engine hangers.
25. **INSTALL NO.2 ENGINE WIRE**
  - (a) Install the ground cable to the cylinder block.  
**Torque: 13 N\*m (133 kgf\*cm, 9 ft.\*lbf)**
26. **INSTALL ENGINE WIRE**
  - (a) Connect the 3 connectors to the engine room relay box.
  - (b) Install the nut, then install the engine wire into the engine room relay block.
  - (c) Connect the front differential connector (4WD only).
  - (d) Insert the engine wire into the vehicle room, and install the grommet.
  - (e) Connect the 2 connectors to the four wheel ECU (4WD only).
  - (f) Connect the 5 connectors to the ECM.
  - (g) Install the instrument panel finish panel sub-assembly lower RH.
  - (h) Install the glove compartment door.
27. **INSTALL INTAKE AIR SURGE TANK (See page [EM-69](#))**
28. **CONNECT HEATER WATER INLET HOSE**
29. **CONNECT HEATER WATER OUTLET HOSE**
30. **CONNECT NO.2 FUEL PIPE SUB-ASSEMBLY**
31. **CONNECT NO.1 FUEL PIPE SUB-ASSEMBLY (See page [FU-17](#))**
32. **INSTALL COOLER COMPRESSOR ASSEMBLY (See page [ES-410](#))**
33. **INSTALL GENERATOR ASSEMBLY (See page [CH-13](#))**
34. **INSTALL VANE PUMP ASSEMBLY (See page [EM-52](#))**
35. **INSTALL FAN PULLEY**

**36. INSTALL CLUTCH DISC ASSEMBLY (for Manual Transmission)**

Transmission	See page
RA60	<a href="#">CL-42</a>
RA60F	<a href="#">CL-46</a>

**37. INSTALL CLUTCH COVER ASSEMBLY (for Manual Transmission)**

Transmission	See page
RA60	<a href="#">CL-42</a>
RA60F	<a href="#">CL-46</a>

**38. INSTALL TRANSMISSION ASSEMBLY**

HINT:

Refer to the table below when installing transmission.

Transmission	Drive Type	See Page
Manual Transmission	2WD	<a href="#">MT-9</a>
Manual Transmission	4WD	<a href="#">MT-8</a>
Automatic Transmission	2WD	<a href="#">AT-162</a>
Automatic Transmission	4WD	<a href="#">AT-165</a>

**39. INSTALL RADIATOR ASSEMBLY (See page [CO-19](#))****40. INSTALL FAN SHROUD (See page [CO-20](#))****41. INSTALL RADIATOR SUPPORT TO FRAME SEAL LH****42. INSTALL HOOD SUB-ASSEMBLY**(See page [ED-7](#))**43. INSTALL BATTERY****44. ADD ENGINE COOLANT (See page [CO-3](#))****45. ADD ENGINE OIL (See page [LU-5](#))****46. PERFORM INITIALIZATION****47. CHECK FOR ENGINE COOLANT LEAKAGE (See page [CO-4](#))****48. CHECK FOR ENGINE OIL LEAKAGE****49. CHECK FOR FUEL LEAKAGE****50. CHECK FOR EXHAUST GAS LEAKAGE****51. INSTALL V-BANK COVER (See page [ES-416](#))****52. INSPECT IGNITION TIMING (See page [EM-1](#))****53. INSPECT ENGINE IDLING SPEED (See page [EM-2](#))****54. INSPECT CO/HC (See page [EM-3](#))**