



INSTALLATION

1. **INSTALL KNOCK CONTROL SENSOR**
 - (a) Install the 2 knock sensors with the 2 bolts as shown in the illustration.
Torque: 20 N*m (204 kgf*cm, 15 ft.*lbf)
 - (b) Connect the 2 knock sensor connectors.
2. **INSTALL WATER OUTLET PIPE NO.1**
 - (a) Install the water outlet pipe with the 3 bolts.
Torque: 9.0 N*m (92 kgf*cm, 80 in.*lbf)
 - (b) Install the 4 wire harness clamps.
3. **CONNECT HEATER WATER INLET HOSE**
4. **INSPECT CYLINDER HEAD SET BOLT** (See page [EM-117](#))
5. **INSTALL CYLINDER HEAD SUB-ASSEMBLY** (See page [EM-118](#))
6. **INSTALL CAMSHAFT BEARING NO.2**
7. **INSTALL CAMSHAFTS** (See page [EM-119](#))
8. **INSTALL CHAIN TENSIONER ASSEMBLY NO.2** (See page [EM-120](#))
9. **INSTALL CAMSHAFT TIMING GEARS AND NO.2 CHAIN (RH BANK)** (See page [EM-121](#))
10. **INSTALL CHAIN VIBRATION DAMPER NO.1** (See page [EM-164](#))
11. **INSTALL WATER BY-PASS JOINT RR** (See page [EM-121](#))
12. **INSTALL INTAKE MANIFOLD** (See page [EM-121](#))
13. **CONNECT FUEL PIPE SUB-ASSEMBLY NO.2** (See page [FU-17](#))
14. **CONNECT FUEL PIPE SUB-ASSEMBLY NO.1** (See page [FU-17](#))
15. **INSTALL EXHAUST MANIFOLD SUB-ASSEMBLY RH** (See page [EM-122](#))
16. **INSTALL MANIFOLD STAY**
 - (a) Install the 2 manifold stays with the 6 bolts.
Torque: 40 N*m (408 kgf*cm, 30 ft.*lbf)
17. **INSTALL EXHAUST PIPE ASSEMBLY FRONT** (See page [EX-3](#))
18. **INSTALL EXHAUST FRONT PIPE ASSEMBLY NO.2** (See page [EX-3](#))
19. **INSTALL COOL AIR INLET NO.1**
 - (a) Install the cool air inlet with the 2 bolts.
20. **INSTALL CHAIN TENSIONER SLIPPER**
21. **INSTALL CHAIN TENSIONER ASSEMBLY NO.1** (See page [EM-48](#))

22. **INSTALL CHAIN SUB-ASSEMBLY** (See page [EM-48](#))
23. **INSTALL TIMING CHAIN OR BELT COVER SUB-ASSEMBLY**
(See page [LU-38](#))
24. **INSTALL DIFFERENTIAL CARRIER ASSEMBLY FRONT (for 4WD)**
(See page [DF-38](#))
25. **INSTALL POWER STEERING LINK ASSEMBLY**
(See page [PS-67](#))
26. **INSTALL BATTERY**
27. **ADD ENGINE OIL** (See page [LU-5](#))
28. **ADD ENGINE COOLANT** (See page [CO-3](#))
29. **ADD DIFFERENTIAL OIL (for 4WD)**
30. **INSPECT DIFFERENTIAL OIL (for 4WD)** (See page [DF-8](#))
31. **ADD POWER STEERING FLUID** (See page [PS-3](#))
32. **BLEED POWER STEERING FLUID** (See page [PS-2](#))
33. **CHECK FOR ENGINE OIL LEAKAGE**
34. **CHECK FOR ENGINE COOLANT LEAKAGE** (See page [CO-4](#))
35. **CHECK FOR FUEL LEAKAGE**
36. **CHECK FOR EXHAUST GAS LEAKAGE**
37. **CHECK POWER STEERING FLUID LEAKAGE**
38. **INSPECT AND ADJUST FRONT WHEEL ALIGNMENT**
(See page [SP-7](#))
39. **INSTALL V-BANK COVER** (See page [ES-416](#))
40. **INSPECT IGNITION TIMING** (See page [EM-1](#))
41. **INSPECT ENGINE IDLING SPEED** (See page [EM-2](#))
42. **INSPECT CO/HC** (See page [EM-3](#))
43. **INSPECT COMPRESSION** (See page [EM-2](#))