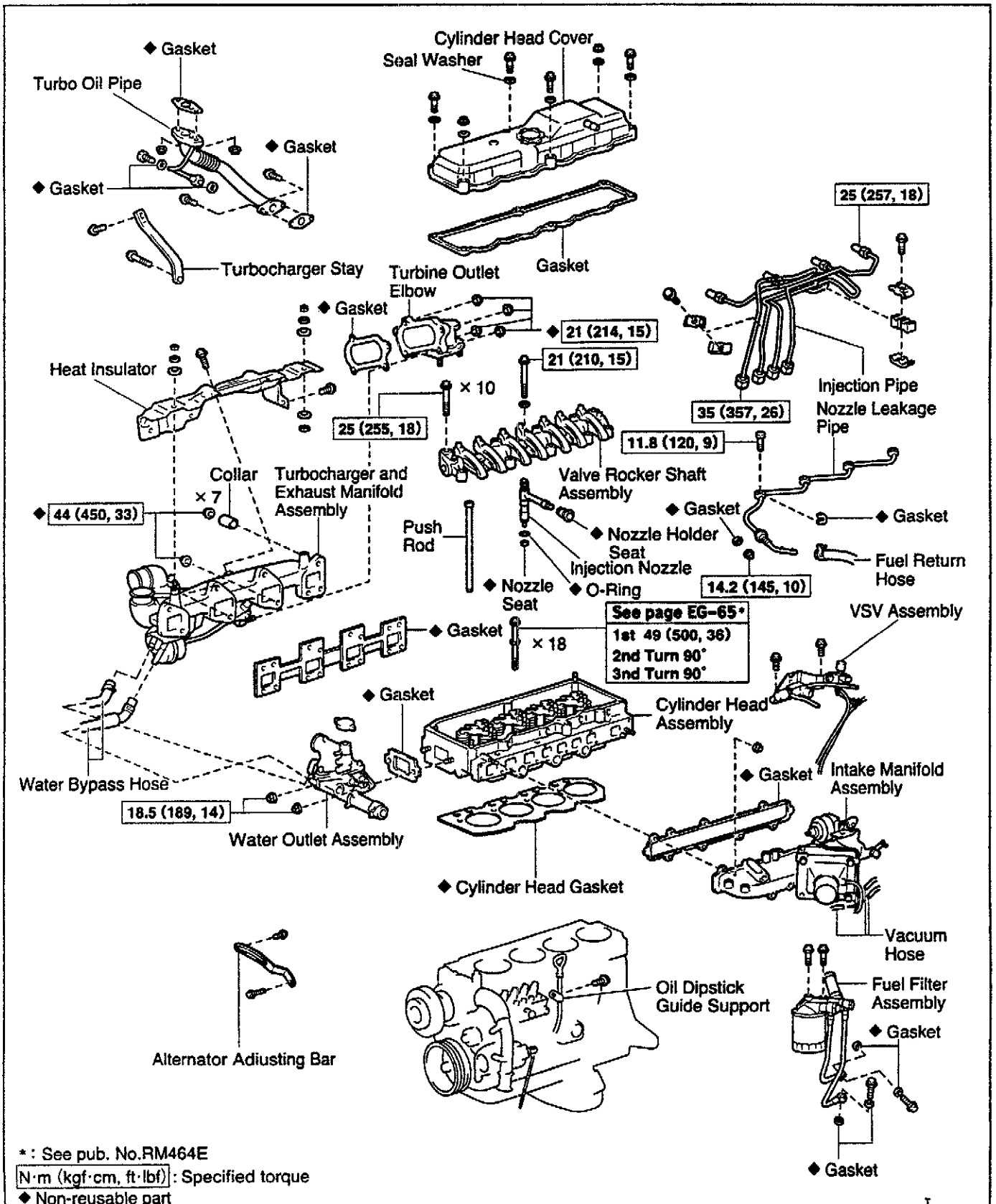
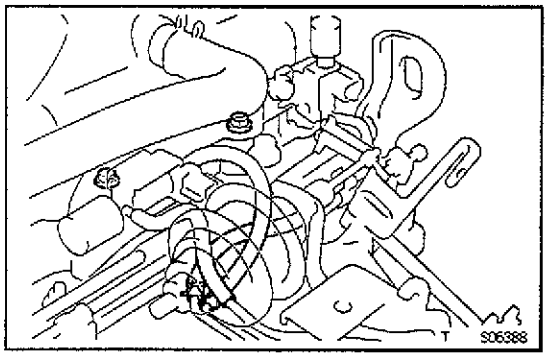
CYLINDER HEAD

COMPONENTS FOR REMOVAL AND INSTALLATION

5G7PH–02



EG

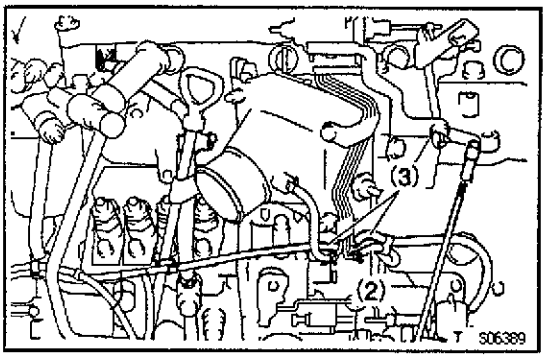


CYLINDER HEAD REMOVAL

1. **DRAIN ENGINE COOLANT**
2. **REMOVE VSV ASSEMBLY**

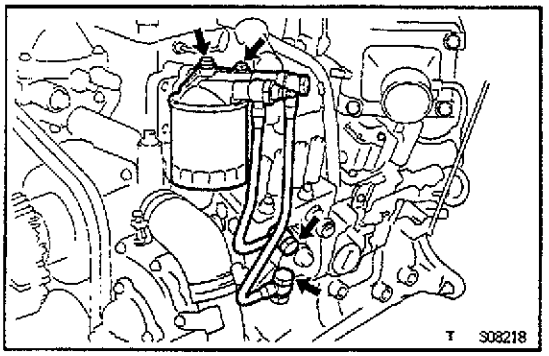
(a) Disconnect the vacuum hoses from VSV.
(b) Remove the 2 bolts, the VSV and bracket assembly.

3. **REMOVE INJECTION PIPES**
(See injection nozzles removal in Fuel System)

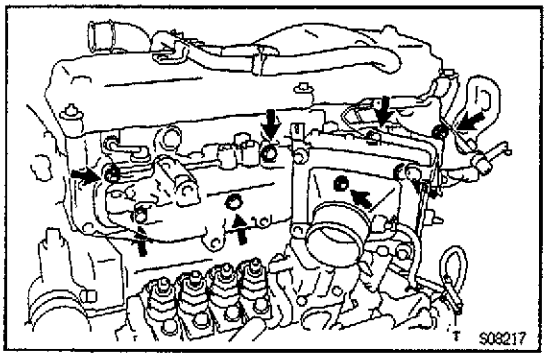


4. **REMOVE ACCELERATOR CABLE**
5. **REMOVE INTAKE MANIFOLD ASSEMBLY**

(a) Disconnect these hoses and clips:
(1) Fuel return hose
(2) Vacuum hose (for boost compensator)
(3) Vacuum hoses (for FCV)
(4) Vacuum hose clips



(b) Remove the 2 union bolts holding the fuel pipes to the injection pump, and remove the 4 gaskets.
(c) Remove the 2 bolts and fuel filter bracket assembly.
(d) Remove the oil dipstick and guide.



(e) Remove the 5 bolts, 3 nuts, intake manifold assembly and gasket.

6. **REMOVE ALTERNATOR**

(a) Loosen the alternator pivot bolt, adjusting lock bolt and adjusting bolt, remove the drive belt.
(b) Remove the pivot bolt, adjusting lock bolt and alternator.

7. **REMOVE ALTERNATOR BRACKET**
8. **REMOVE PCV HOSE**

CYLINDER HEAD INSTALLATION

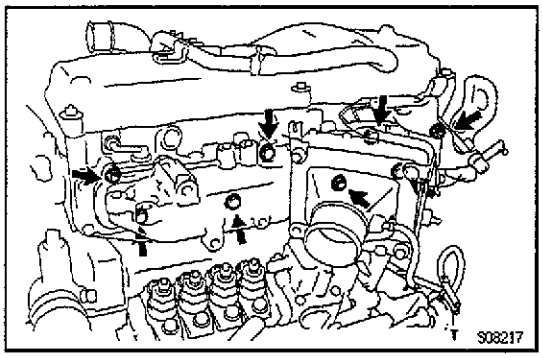
1. **INSTALL PCV HOSE**
2. **INSTALL ALTERNATOR BRACKET**

3. INSTALL ALTERNATOR AND DRIVE BELT

(a) Temporarily install the adjusting lock bolt and pivot bolt.

(b) Temporarily install the adjusting bolt, and tighten the bolt and adjust the drive belt.
(See on–vehicle inspection in Charging System)

(c) Tighten the bolts.

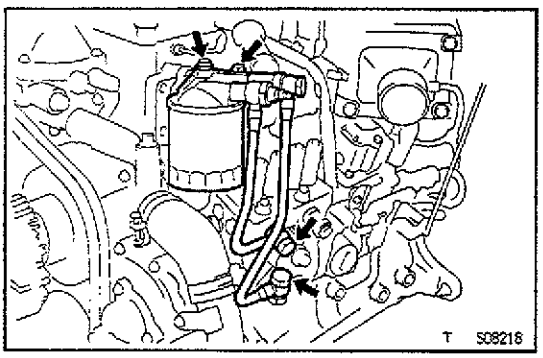


4. INSTALL INTAKE MANIFOLD ASSEMBLY

(a) Place a new gasket.

(b) Install the intake manifold assembly with the 5 bolts and 3 nuts.
Torque: 18.5 N·m (189 kgf·cm, 14 ft·lbf)

(c) Install the oil dipstick and guide assembly.
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)



(d) Temporarily install the 2 bolts and fuel filter bracket assembly.

(e) Install the 2 union bolts and 4 new gaskets holding the fuel pipes to the injection pump.
Torque: 36.8 N·m (375 kgf·cm, 27 ft·lbf)

(f) Tighten the 2 bolts and fuel filter bracket assembly.
Torque: 44 N·m (449 kgf·cm, 33 ft·lbf)

(g) Connect the hoses and clips:
- Vacuum hose clips
- Vacuum hose (for FCV)
- Vacuum hose (for boost compensator)
- Fuel return hose

5. INSTALL ACCELERATOR CABLE

6. INSTALL INJECTION PIPES
(See injection nozzles installation in Fuel System)

7. INSTALL VSV ASSEMBLY

8. FILL WITH ENGINE COOLANT

9. START ENGINE AND CHECK FOR LEAKS

10. RECHECK ENGINE COOLANT LEVEL AND OIL LEVEL

11. READJUST VALVE CLEARANCE
(See valve clearance inspection and adjustment)

12. READJUST DRIVE BELT
(See on–vehicle inspection in Charging System)