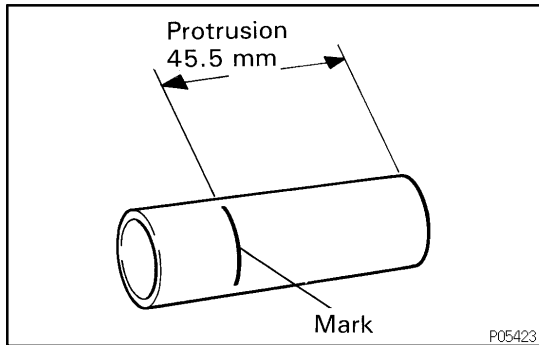


REASSEMBLY

HINT:

- Thoroughly clean all parts to be assembled.
- Before installing the parts, apply new engine oil to all sliding and rotating surfaces.
- Replace all gaskets and oil seals with new ones.



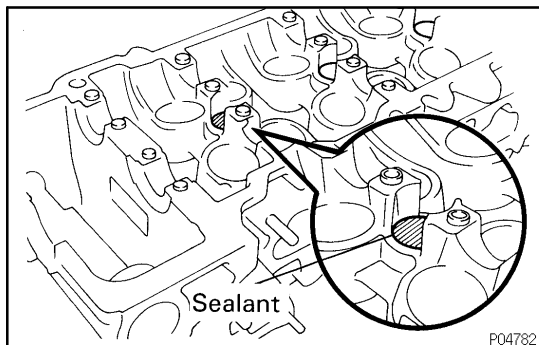
1. INSTALL SPARK PLUG TUBES

HINT:

When using a new cylinder head, spark plug tubes must be installed.

- (a) Mark the standard position away from the edge, onto the spark plug tube.

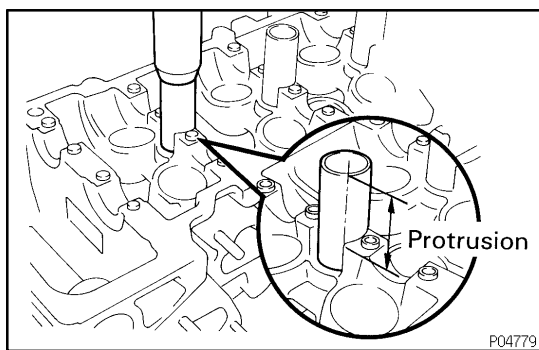
Standard protrusion: 45.5 mm (1.791 in.)



- (b) Apply adhesive to the spark plug tube hole of the cylinder head.

Sealant:

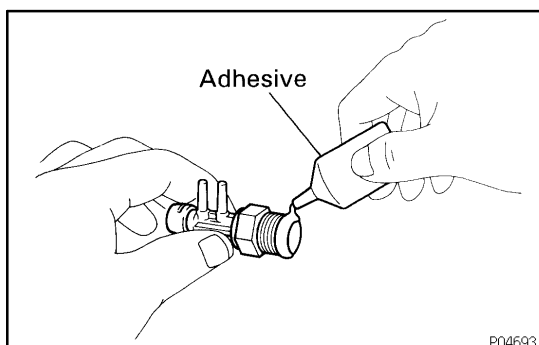
Part No.08833-00070, Adhesive 1324, THREE BOND 1324 or equivalent



- (c) Using a press, press in a new spark plug tube until there is 45.5 mm (1.791 in.) protruding from the camshaft bearing cap installation surface of the cylinder head.

NOTICE:

Avoid pressing a new spark plug tube in too far by measuring the amount of protrusion while pressing.



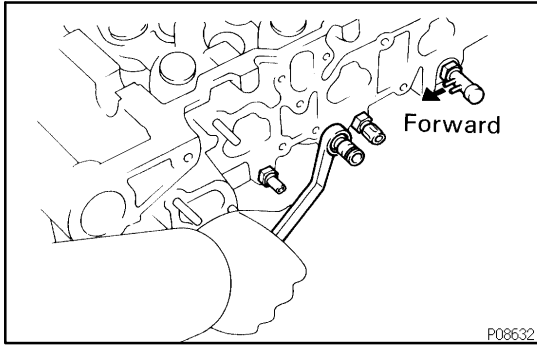
2. INSTALL FOLLOWING PARTS:

HINT:

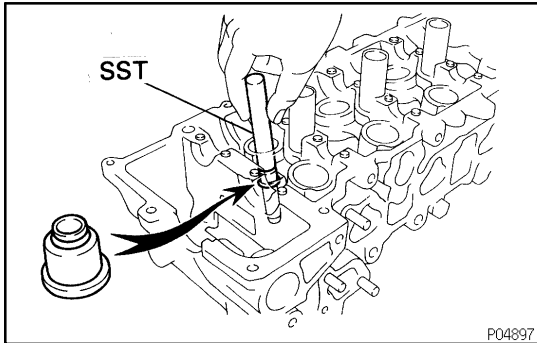
Apply adhesive to 2 or 3 threads of the TVV.

Adhesive:

Part No.08833-00080, THREE BOND 1344, LOCTITE 242 or equivalent

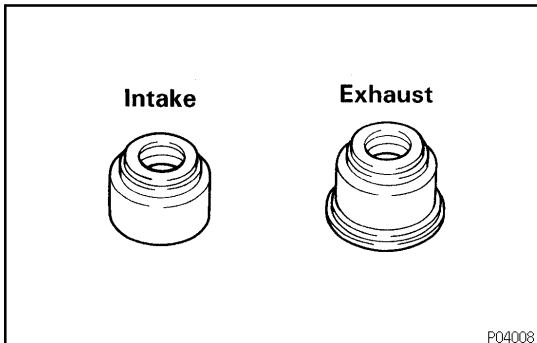


- (a) ECT sender gauge
- (b) ECT cut switch
- (c) ECT sensor
- (d) TVV



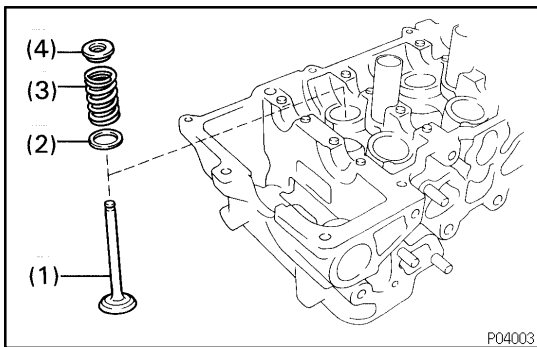
3. INSTALL VALVES

- (a) Using SST, push in a new oil seal.
SST 09236-00101 (09236-15010)

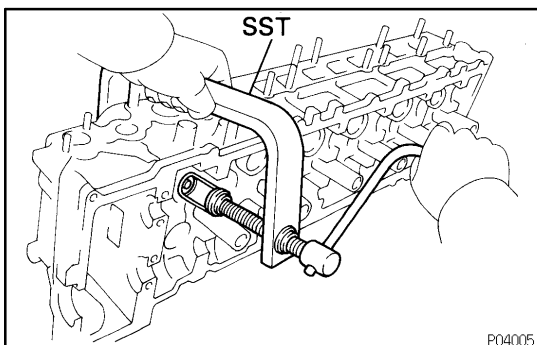


HINT:

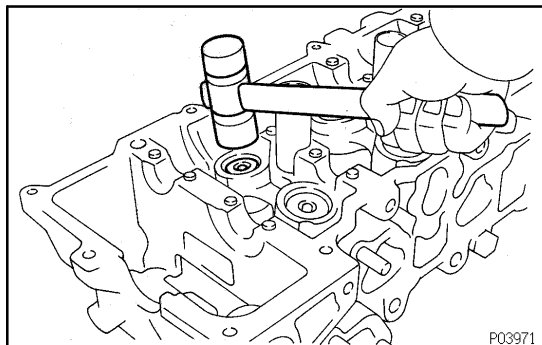
Different oil seals are used for the intake and exhaust.



- (b) Install the following parts:
 - (1) Valve
 - (2) Spring seat
 - (3) Valve spring
 - (4) Spring retainer



- (c) Using SST, compress the valve spring and place the 2 keepers around the valve stem.
SST 09202-70020 (09202-00010)



- (d) Using a plastic-faced hammer, lightly tap the valve stem tip to ensure a proper fit.

4. INSTALL VALVE LIFTERS AND SHIMS

- (a) Install the valve lifter and shim.
(b) Check that the valve lifter rotates smoothly by hand.

5. INSTALL ACCELERATOR CABLE BRACKET AND THROTTLE CABLE BRACKET

6. INSTALL 2 ENGINE WIRE CLAMP BRACKETS

7. INSTALL NO.1 AND NO.2 ENGINE HANGERS

Torque: 41 N·m (420 kgf·cm, 30 ft·lbf)

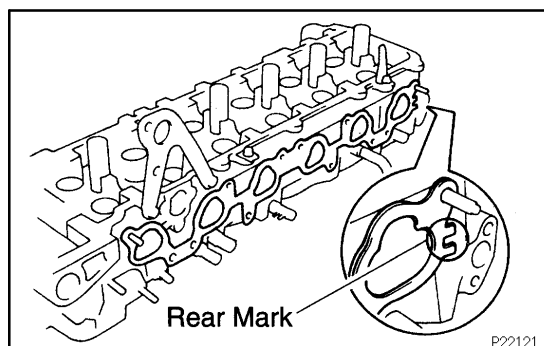
8. INSTALL NO.1 WATER BYPASS HOSE

9. ASSEMBLE AIR INTAKE CHAMBER AND INTAKE MANIFOLD ASSEMBLY

- (a) Install 2 new gaskets and the air intake chamber with the 6 bolts and 2 nuts.

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

- (b) Connect the vacuum sensing hose to the fuel pressure regulator.



10. INSTALL AIR INTAKE CHAMBER AND INTAKE MANIFOLD ASSEMBLY

- (a) Place a new gasket so that the rear mark is toward the rear side.
(b) Install the intake manifold with the 10 bolts and 2 nuts.

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

- (c) Connect the 2 vacuum hoses to the TVV.

11. INSTALL HEATER INLET PIPE AND HOSE

Install the heater hose to the cylinder head, and connect the pipe to the intake manifold with the 2 bolts.

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

12. INSTALL EGR PIPE

- (a) Temporarily install the union nut to the EGR valve.
(b) Install a new gasket and the EGR pipe to the cylinder head with the 2 bolts.

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

- (c) Tighten the union nut.

Torque: 78 N·m (800 kgf·cm, 58 ft·lbf)

13. INSTALL WATER OUTLET

Install a new gasket and the water outlet with the 2 nuts.

Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

14. INSTALL GENERATOR BRACKET

Install the generator bracket with the 2 bolts.

Torque: 43 N·m (440 kgf·cm, 32 ft·lbf)