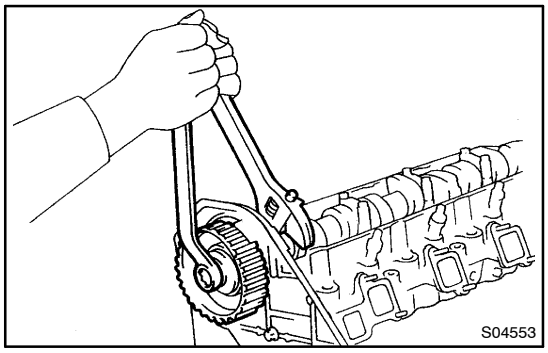
1410T–01

REPLACEMENT

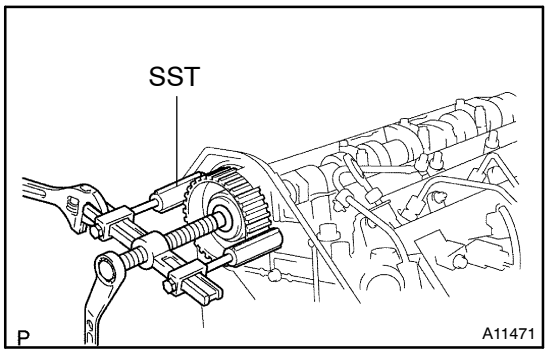
1. REMOVE INTERCOOLER ASSY (See page 13–11)
2. REMOVE TIMING BELT (See page 14–152)
3. REMOVE CYLINDER HEAD COVER SUB–ASSY

(a) Remove the 10 bolts, 2 nuts, cylinder head cover and gasket.



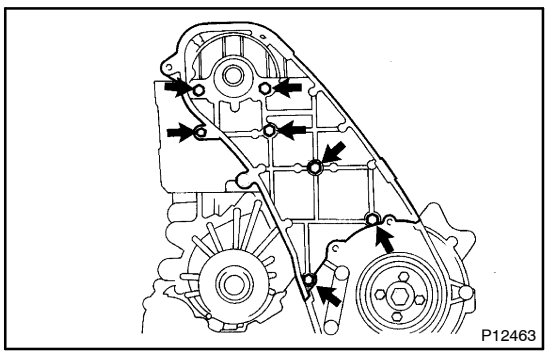
4. REMOVE CAMSHAFT TIMING PULLEY

(a) Hold the hexagon wrench head portion of the camshaft with a wrench, and remove the No. 1 camshaft timing pulley bolt.



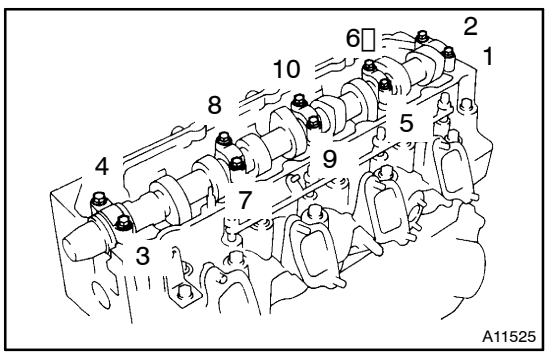
(b) Using SST, remove the No. 1 camshaft timing pulley.
SST 09950–40011 (09951–04010, 09952–04010, 09953–04020, 09954–04010, 09955–04061)

(c) Remove the set key.



5. REMOVE CAMSHAFT OIL SEAL RETAINER

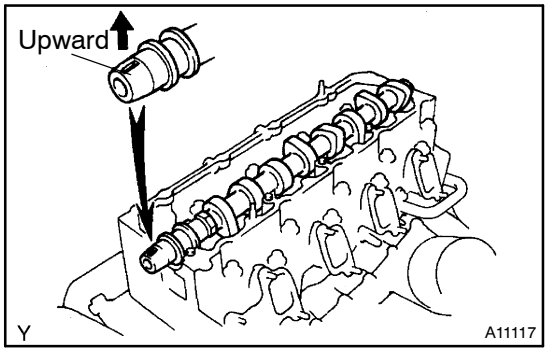
(a) Remove the 7 bolts and camshaft oil seal retainer.



6. REMOVE CAMSHAFT

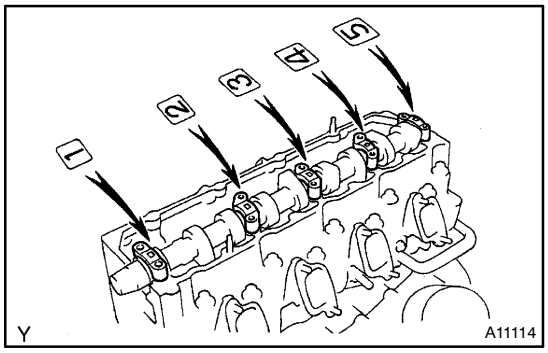
(a) Uniformly loosen and remove the 10 bearing cap bolts in several passes in the sequence shown.

(b) Remove the 5 bearing caps and camshaft.

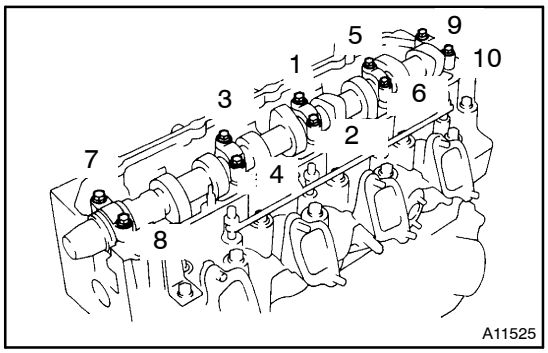


7. INSTALL CAMSHAFT

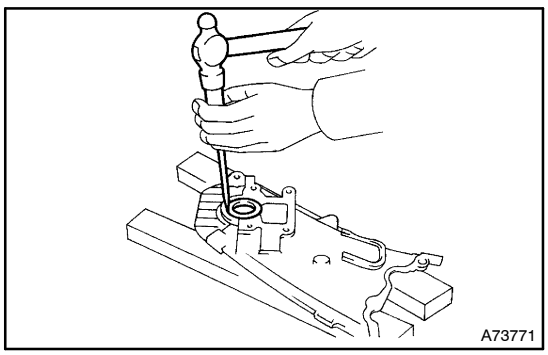
(a) Place the camshaft on the cylinder head, facing the key groove upward.



(b) Install the 5 bearing caps in their proper locations.

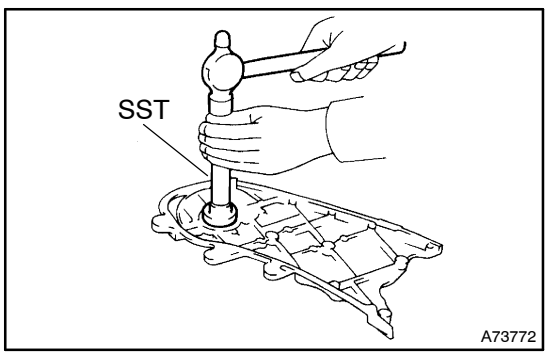


(c) Install and uniformly tighten the 10 bearing cap bolts, in several passes, in the sequence shown.
Torque: 18 N·m (185 kgf·cm, 13 ft·lbf)



8. INSTALL CAMSHAFT OIL SEAL RETAINER

(a) Using a screw driver, remove the camshaft oil seal.



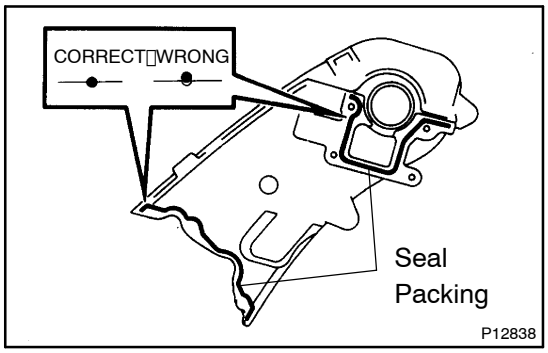
(b) Apply MP grease to a new oil seal lip.

NOTICE:

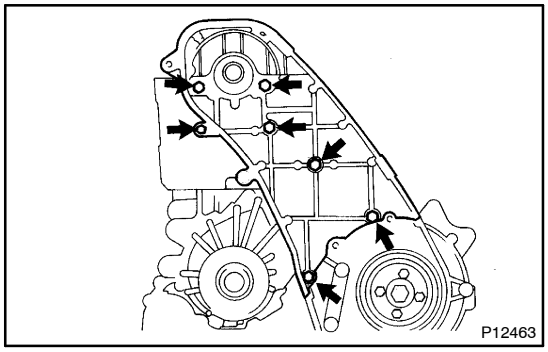
Keep the lip off of foreign materials.

(c) Using SST, tap in the oil seal until its surface is flush with the camshaft oil seal retainer edge.
SST 09223–46011

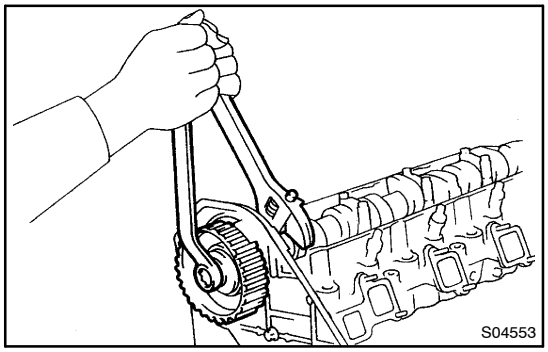
(d) Remove any old packing (FIPG) material and be careful not to drop any oil on the contact surfaces of timing gear cover and camshaft oil seal retainer.
(1) Using a razor blade and gasket scraper, remove all the old packing (FIPG) material from the gasket surfaces and sealing groove.
(2) Thoroughly clean all components to remove all the loose material.
(3) Using a non–residue solvent, clean both sealing surfaces.



(e) Apply seal packing to the camshaft oil seal retainer as shown in the illustration.
Seal packing: Part No. 08826–00080 or equivalent
(1) Parts must be assembled within 5 minutes of application. Otherwise the material must be removed and reapplied.
(2) Immediately remove nozzle from the tube and reinstall cap.

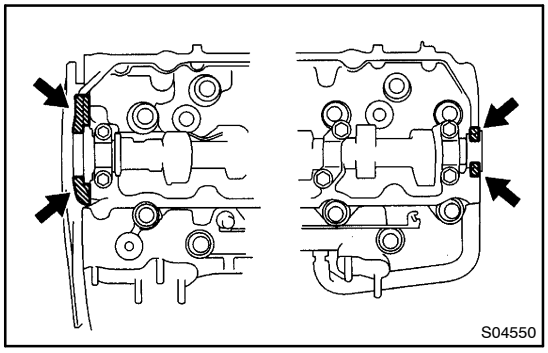


(f) Install the camshaft oil seal retainer with the 7 bolts.
Torque: 10 N·m (102 kgf·cm, 7 ft·lbf)



9. INSTALL CAMSHAFT TIMING PULLEY
(a) Install the set key to the key groove of the camshaft.
(b) Align the set key with the key groove of the timing pulley.
(c) Hold the hexagon wrench head portion of the camshaft, and install the timing pulley with the bolt.
Torque: 98 N·m (1,000 kgf·cm, 72 ft·lbf)

10. INSPECT VALVE CLEARANCE (See page 14–130)



11. INSTALL CYLINDER HEAD COVER SUB–ASSY

(a) Apply seal packing to the cylinder head as shown in the illustration.

Seal packing: Part No. 08826–00080 or equivalent

(1) Parts must be assembled within 5 minutes of application. Otherwise the material must be removed and reapplied.

(2) Immediately remove nozzle from the tube and reinstall cap.

(b) Install the gasket to the cylinder head cover.

(c) Install the cylinder head cover with 10 bolts and 2 nuts. Uniformly tighten the bolts and nuts in several passes.

Torque: 9.0 N·m (92 kgf·cm, 80 in.·lbf)

12. INSTALL TIMING BELT (See page 14–152)

13. INSTALL INTERCOOLER ASSY (See page 13–11)