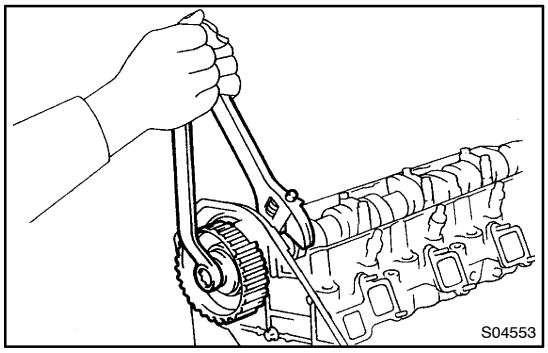
160H9–01

REPLACEMENT

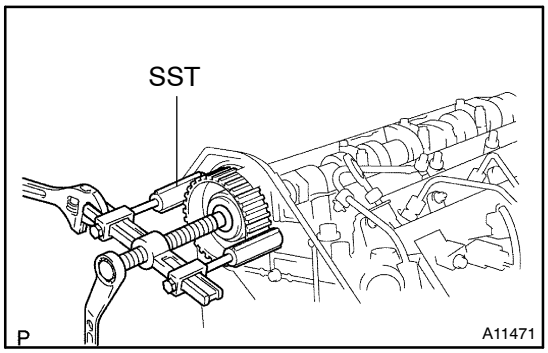
1. REMOVE INTERCOOLER ASSY (See page 13–11)
2. REMOVE TIMING BELT (See page 14–152)
3. REMOVE CYLINDER HEAD COVER SUB–ASSY

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



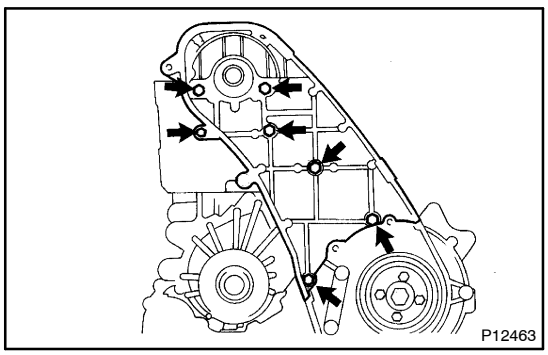
4. REMOVE CAMSHAFT TIMING PULLEY

(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)

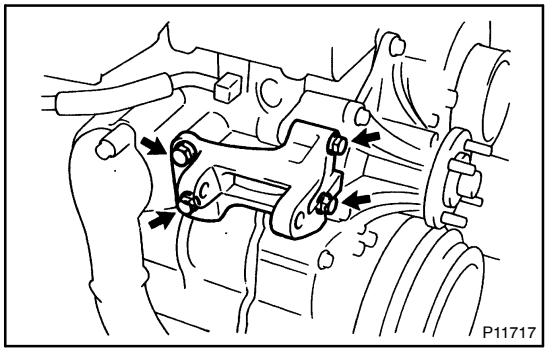
(c) Remove the set key.



5. REMOVE CAMSHAFT OIL SEAL RETAINER

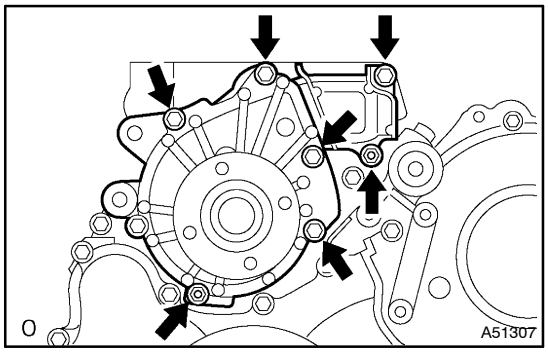
(a) Remove the 7 bolts and camshaft oil seal retainer.

6. REMOVE GENERATOR ASSY (See page 19–29)



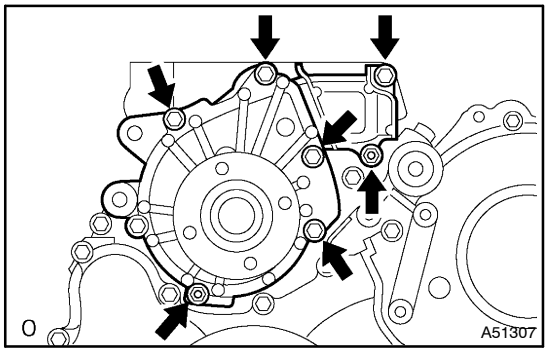
7. REMOVE GENERATOR BRACKET NO.1

(a) Remove the 4 bolts and generator bracket.



8. REMOVE WATER PUMP ASSY

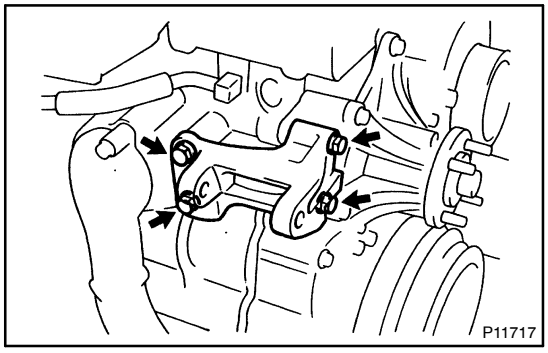
(a) Remove the 5 bolts, 2 nuts, water pump and gasket.



9. INSTALL WATER PUMP ASSY

(a) Install the new gasket and water pump with the 5 bolts and 2 nuts.

Torque: 13 N·m (130 kgf·cm, 9 ft·lbf)

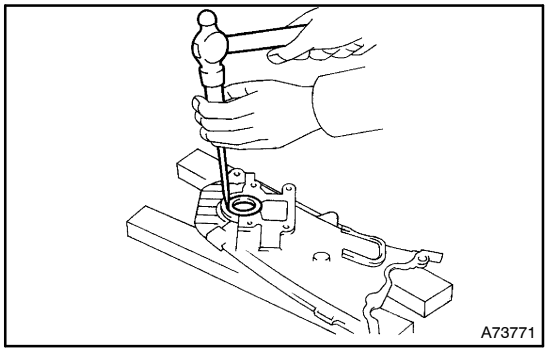


10. INSTALL GENERATOR BRACKET NO.1

(a) Install the generator bracket with the 4 bolts.

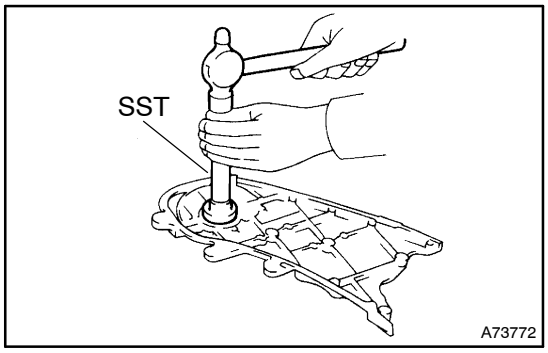
Torque: 21 N·m (210 kgf·cm, 15 ft·lbf)

11. INSTALL GENERATOR ASSY (See page 19–29)



12. 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.

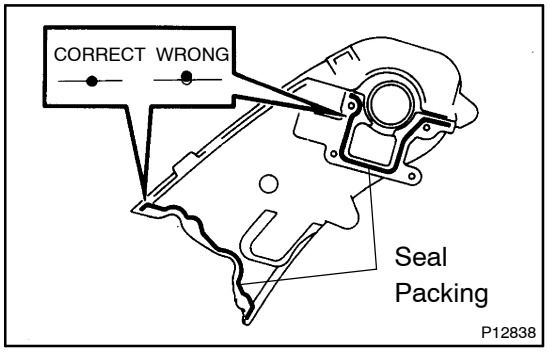
SST 09223–46011

(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 basket scraper, remove all the old packing (FIPG) material form 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.

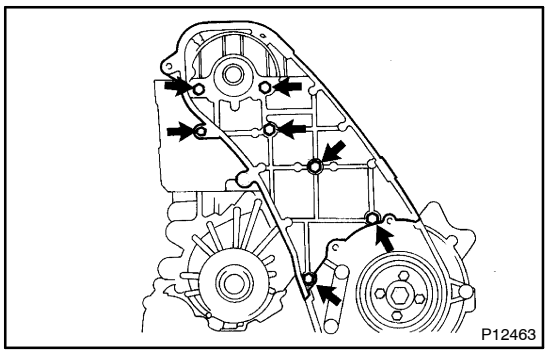


(e) Apply seal packing to the camshaft oil seal retainer as shown in the illustration.

Seal packing: Part No. 08826–00080 or equivalent

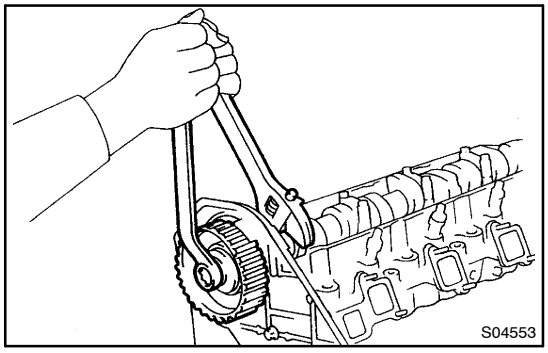
(1) Parts must be assembled within 5 minutes of application. Otherwise the material must be removed and reapplied.

(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)



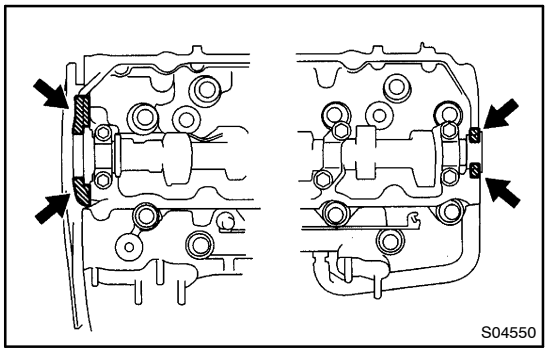
13. INSTALL CAMSHAFT TIMING PULLEY

(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)



14. 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)

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

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