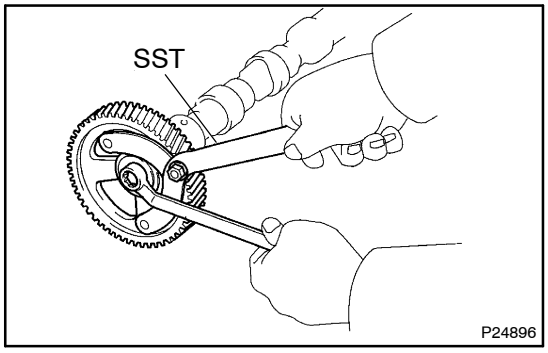
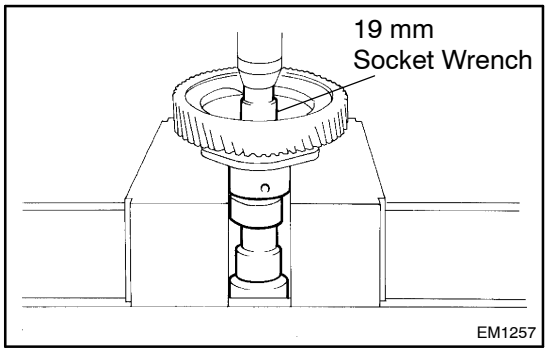
EM0O4–02

REPLACEMENT

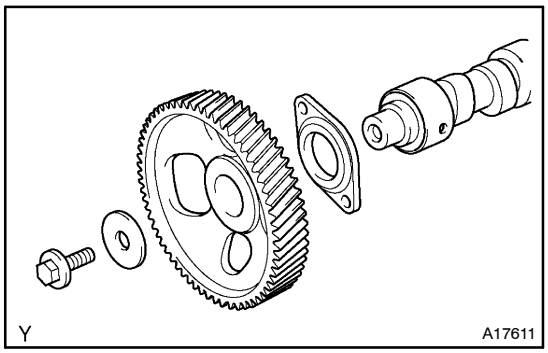


1. REMOVE CAMSHAFT

(a) Using SST, remove the bolt and plate washer.
SST 09960–10010 (09962–01000, 09963–01000)



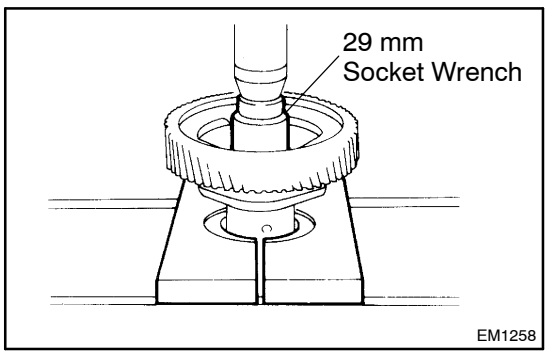
(b) Using a 19 mm socket wrench and press, press out the camshaft.



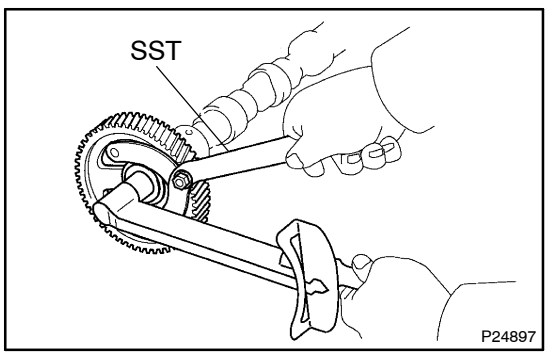
2. INSTALL NEW CAMSHAFT

(a) Install the timing gear set key to the camshaft.

(b) Assembly the camshaft, thrust plate and timing gear as shown.

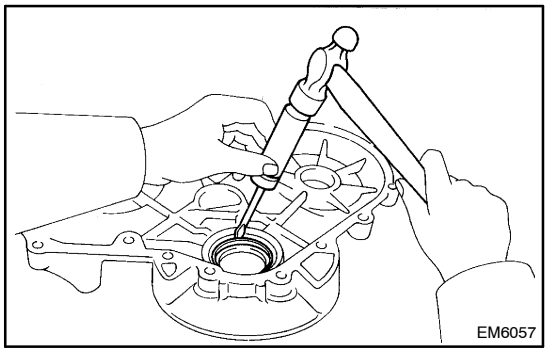


(c) Using a 29 mm socket wrench and press, align the timing gear set key with the key groove of the timing gear, and press in the camshaft timing gear.



(d) Using SST, install the plate washer and bolt. Torque the bolt.
SST 09960–10010 (09962–01000, 09963–01000)
Torque: 37.5 N·m (382 kgf·cm, 28 ft·lbf)

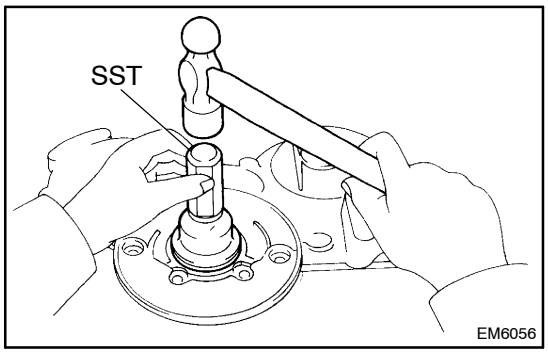
3. CHECK CAMSHAFT THRUST CLEARANCE
(See page EM–15)
Standard thrust clearance:
0.060 – 0.130 mm (0.0024 – 0.0051 in.)
Maximum thrust clearance: 0.30 mm (0.0118 in.)



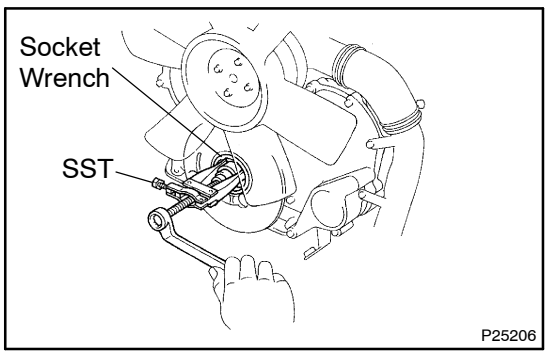
HINT:
There are 2 methods (A and B) to replace the oil seal as follows:

4. REPLACE CRANKSHAFT FRONT OIL SEAL

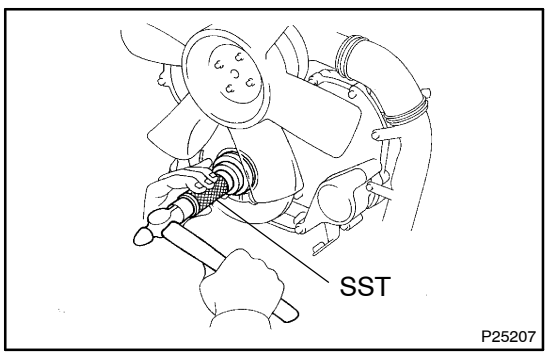
(a) If timing gear cover is removed from cylinder block:
(1) Using a screwdriver and hammer, tap out the oil seal.



(2) Using a SST and a hammer, tap in a new oil seal until its surface is flush with the timing gear cover edge.
SST 09223–46011
(3) Apply MP grease to the oil seal lip.



(b) If timing gear cover is installed to the cylinder block:
(1) Using SST, and a socket wrench remove the oil seal.
SST 09308–10010



(2) Apply MP grease to a new oil seal lip.
(3) Using SST and a hammer, tap in the oil seal until its surface is flush with the timing gear cover edge.
SST 09223–46011