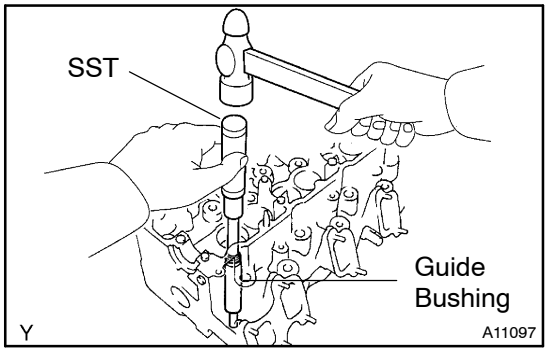
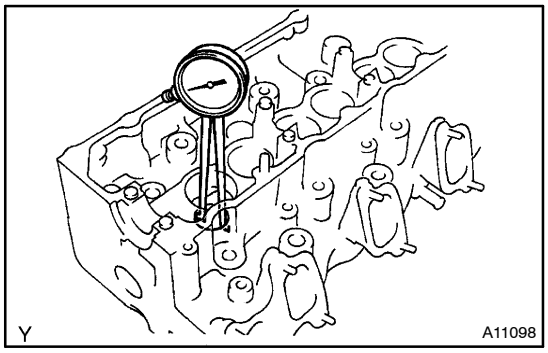
EM15G–01

REPLACEMENT

1. REPLACE VALVE GUIDE BUSHINGS



(a) Using SST and a hammer, tap out the guide bushing.
SST 09201–60011



(b) Using a caliper gauge, measure the bushing bore diameter of cylinder head.

Both intake and exhaust

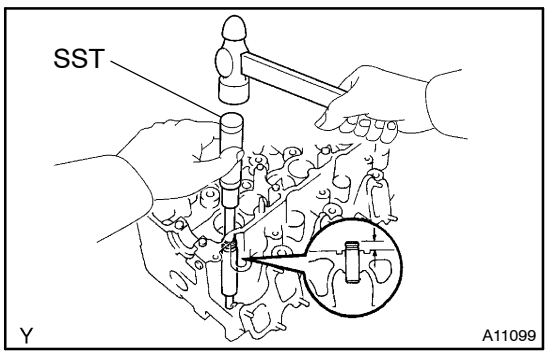
Bushing bore diameter mm (in.)	Bushing size
13.000 – 13.027 (0.5118 – 0.5129)	Use SST
13.050 – 13.077 (0.5134 – 0.5148)	Use O/S 0.05

V03700

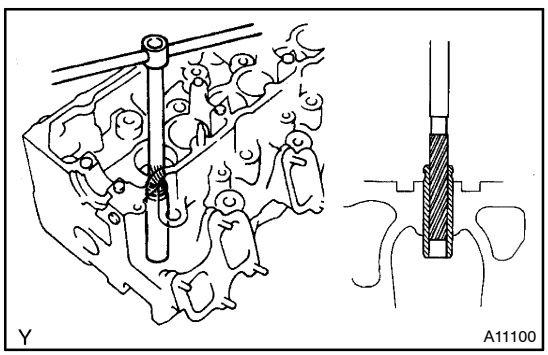
(c) Select a new guide bushing (STD or O/S 0.05).
If the bushing bore diameter of the cylinder head is greater than 13.027 mm (0.5129 in.), machine the bushing bore to the following dimension:

Rebored cylinder head bushing bore dimension:
13.050 – 13.077 mm (0.5138 – 0.5148 in.)

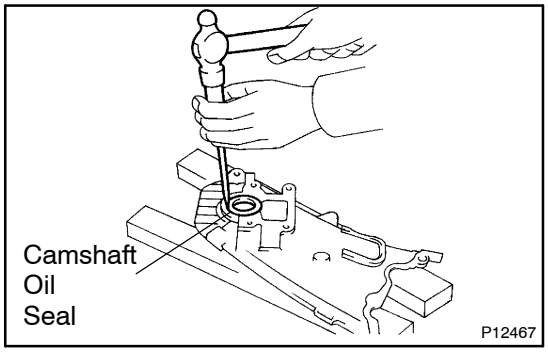
If the bushing bore diameter of the cylinder head is greater than 13.077 mm (0.5148 in.), replace the cylinder head.



(d) Using SST and a hammer, tap in a new guide bushing until there is 12.8 – 13.2 mm (0.504 – 0.520 in.) protruding from the cylinder head.
SST 09201–60011



(e) Using a sharp 8 mm reamer, ream the guide bushing to obtain the standard specified clearance (See page EM–51) between the guide bushing and valve stem.



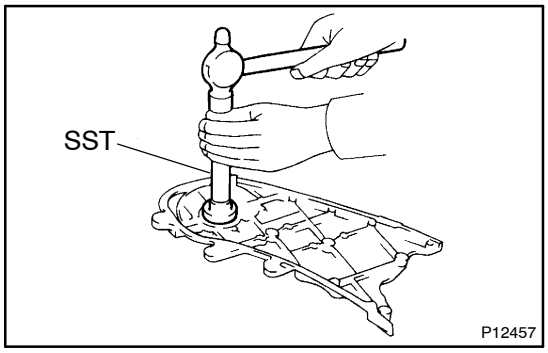
2. REPLACE CAMSHAFT OIL SEAL

HINT:

There are 2 methods (a and b) to replace the oil seal which are as follows:

(a) If the camshaft oil seal retainer is removed from the cylinder head:

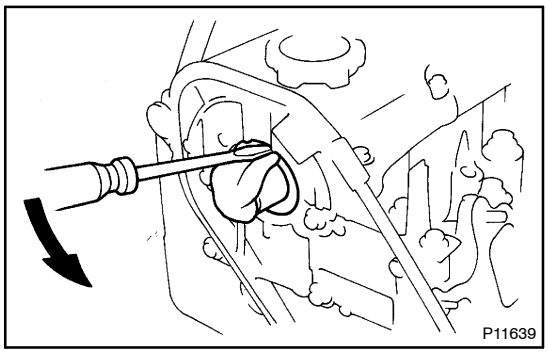
(1) Using a screwdriver, tap out the oil seal.



(2) Using SST and a hammer, tap in a new seal until its surface is flush with the oil seal retainer edge.

SST 09223–46011

(3) Apply MP grease to the oil seal lip.

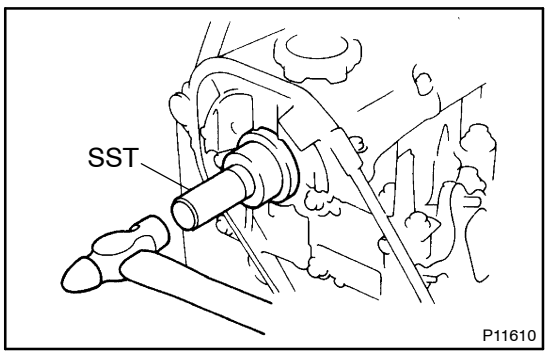


(b) If the camshaft oil seal retainer is installed to the cylinder head:

(1) Using a screwdriver, pry out the oil seal.

NOTICE:

Be careful not to damage the camshaft. Tape the screwdriver tip.



(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 oil seal retainer edge.

SST 09223–46011