

VALVE GUIDE REPLACEMENT

Chill the replacement valve guides in the freezer for about an hour.

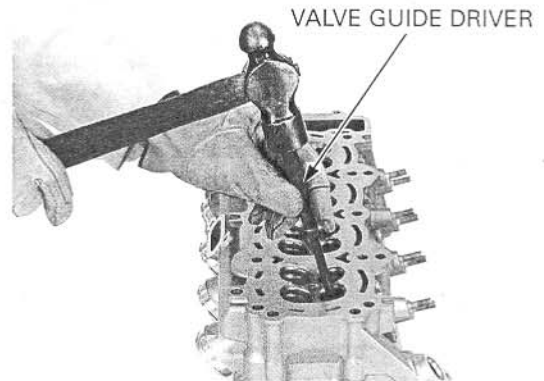
Do not use a torch to heat the cylinder head; it may cause warping.

Heat the cylinder head to 100 – 150°C (212 – 300°F) with a hot plate or oven. To avoid burns, wear heavy gloves when handling the heated cylinder head.

Support the cylinder head and drive out the valve guides from combustion chamber side of the cylinder head.

TOOL:

Valve guide driver 07JMD-KY20100



Drive in the guides to the specified depth from the top of the cylinder head.

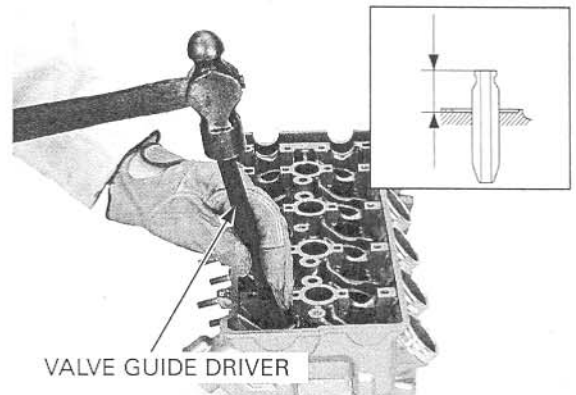
SPECIFIED DEPTH:

IN: 17.1 – 17.4 mm (0.67 – 0.69 in)

EX: 13.3 – 13.6 mm (0.52 – 0.54 in)

TOOL:

Valve guide driver 07743-0020000 (not available in U.S.A.)



Let the cylinder head cool to room temperature.

Use cutting oil on the reamer during this operation.

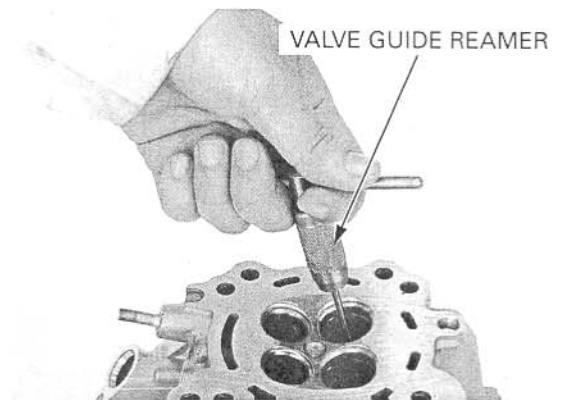
Ream the new valve guides after installation. Insert the reamer from the combustion chamber side of the head and also always rotate the reamer clockwise.

TOOL:

Valve guide reamer, 4.008 mm 07MMH-MV90100 or 07MMH-MV9010A (U.S.A. only)

Clean the cylinder head thoroughly to remove any metal particles.

Reface the valve seat (page 9-20).



VALVE SEAT INSPECTION/REFACING

Clean the intake and exhaust valves thoroughly to remove carbon deposits.

Apply a light coating of Prussian Blue to the valve seats.

Tap the valves and seats using a rubber hose or other hand-lapping tool.

