

CYLINDER HEAD/VALVES

VALVE GUIDE REPLACEMENT

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

Heat the cylinder head to 100°–150° C (212°–300° F) with a hot plate or oven.

⚠ WARNING

- *To avoid burns, wear heavy gloves when handling the heated cylinder head.*

CAUTION

- *Do not use a torch to heat the cylinder, it may cause warping.*

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

CAUTION

- *Avoid damaging the cylinder head.*

Place a new O-ring on the new valve guide. Drive in the guide from the top of the head. Inspect the valve guide for damage.

TOOL:

VALVE GUIDE DRIVER, 6.6 mm 07742–0010200 or
07942–6570100

Ream the new valve guides after installation.

NOTE

- Use cutting oil on the reamer during this operation.
- Always rotate the reamer in the same direction.

Clean the cylinder head thoroughly to remove any metal particles.

Reface the valve seats (page 6-14).

TOOL:

VALVE GUIDE REAMER 07984–5510000

VALVE SEAT INSPECTION AND REFACING

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

Apply a light coating of Prussian Blue to each valve face. Lap each valve and seat using a rubber hose or other hand-lapping tool.

CAUTION

- *Valves cannot be ground. If the valve face is burned or badly worn or if it contacts the seat unevenly, replace the valve.*

