

4-6 ENGINE TOP END

- Scrape out any carbon and clean the head with a high flash-point solvent.
- Check for a crust of minerals and rust in the head water jacket, and remove them if necessary.
- Tighten the cylinder head bolts to the specified torque (see Exploded View).
- Tighten the cylinder head bracket nut to the specified torque (see Exploded View).
- Tighten the spark plug to the specified torque (see Exploded View).

Cylinder Head Warp Inspection

- Lay a straightedge across the lower surface of the head at several different points, and measure warp by inserting a thickness gauge between the straightedge and the head.
- If warp exceeds the service limit, repair the mating surface. Replace the cylinder head if the mating surface is badly damaged.



A. Straightedge B. Thickness Gauge

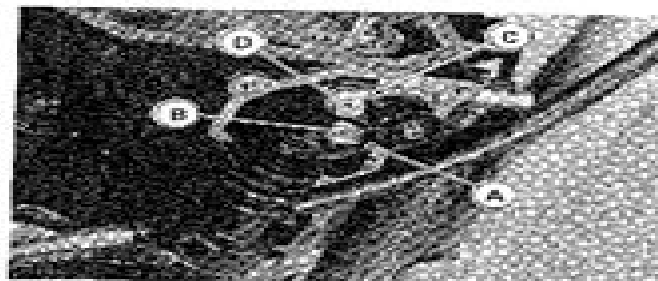
Cylinder Head Warp

Service Limit: 0.03 mm

Exhaust Valve (KIPS)

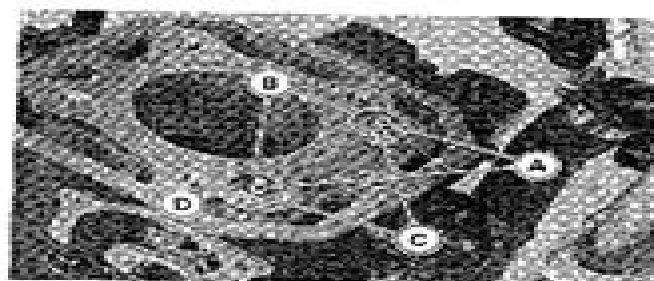
Exhaust Valve Removal

- Remove the cylinder head (see Cylinder Head Removal).
- Remove the right cover at the cylinder.
- Remove the shaft lever mounting bolt, and take off the shaft lever.
- Remove the rod seal plug mounting bolt, and pull the plug out of the cylinder.



A. Shaft Lever
B. Shaft Lever Mounting Bolt
C. Rod Seal Plug
D. Rod Seal Plug Mounting Bolt

- Lift up the exhaust valves, and remove the O-rings and valve guides.



A. Exhaust Valves
B. O-Rings (nothing in above fig.)
C. Valve Guides
D. Valve Operating Rod

- Lift up the exhaust valves, and pull out the valve operating rod.
- Take out the exhaust valves.

Exhaust Valve Installation Notes

- Installation is the reverse of removal.
- Scrape out any carbon and clean the valves with a high flash-point solvent.
- Check the exhaust valves and valve operating rod for signs of damage. If necessary, replace them with new ones.

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