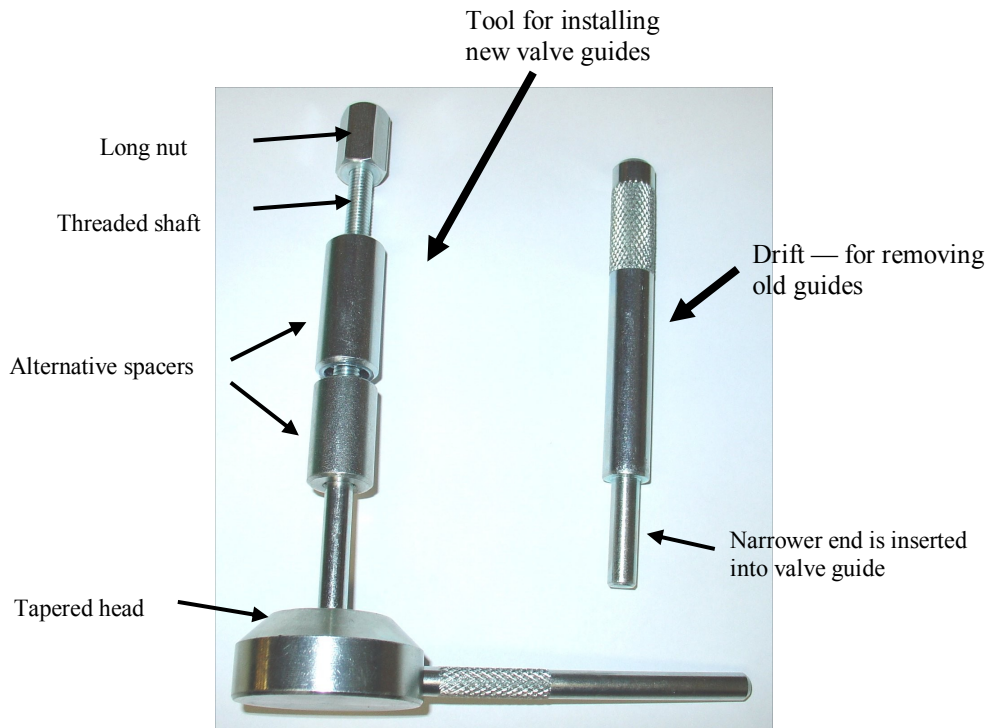


## USING TOOL SET E0008



These notes will help when you use the valve guide removal tool set — part number E0008

With the cylinder head removed from the barrel and the valves and springs removed from the cylinder head you can remove the valve guides. The valve guide removing tool comprises a drift, to remove the old guides, and a tool for installing the new guides.

To remove the valve guides you will need the drift and a good sized copper mallet. Before removing the valve guides warm-up the cylinder head in an oven — hot enough so spit sizzles on the surface! With the cylinder head turned over and held securely, insert the narrower end of the drift into the valve guide from the combustion chamber end. Striking the end of the drift with a copper mallet, drive out the valve guide.

NOTE: this method is **only** to be used when you plan to replace the valve guides with **new guides**. Other methods must be used if you intend to re-use the old guides.

The tool with the long threaded shank will be used for fitting new valve guides into the cylinder head. This tool will pull the guides into their drilling in the cylinder head.

Remove the long nut from the threaded shaft and remove the spacers. Insert the long threaded shaft from inside the cylinder head through the drilling for the valve guide. The tapered head of the tool will locate in the valve seat. Place the new valve guide over the long threaded shaft — tapered end first, with the shouldered end of the guide uppermost. Then place a suitable length spacer or combination of spacers over the threaded shaft. Fit the long nut on the threaded shaft and, using the correct size spanner, turn the nut on the shaft so the spacer presses the valve guide into position. Keep turning the nut until the shoulder on the valve guide settles firmly in its seating. Now slacken off the nut, remove the spacers and withdraw the tool. Job done!

Your new guides will need reaming-out to match the valve stems.