



Fig. 45. Removing No. 4 piston and connecting rod—and word FRONT stamped on piston crown

CAMSHAFT

Camshaft removal, replacement and timing is described under removal and replacement of the cylinder head.

Camshaft bearings

Camshaft bearings are in separate halves. They are steel backed thin wall whitmetal bearings and may be renewed in pairs in a similar manner to other engine plain bearings. No fitting is required and the bearing cap and shells must not be filed.

PISTON AND CONNECTING ROD ASSEMBLIES

Pistons

Most engines are fitted with high compression pistons, but in some engines are fitted with low compression pistons to meet the requirements of lower octane fuels. High compression pistons are identified by their flat piston crown.

Low compression pistons have hollow crowns.

When renewing a single piston, or gudgeon pin, it is important to ensure that a piston having the same thickness bosses above the gudgeon pin, and gudgeon pin of similar wall thickness are fitted, as changes to pistons and gudgeon pins have been made since the introduction of this engine.

Piston differences can be seen by visual examination of the internal construction above the gudgeon pin.

If a set of new pistons are fitted all four pistons must be of similar internal construction and have gudgeon pins of similar wall thickness.

Piston fitting

The procedure for fitting new pistons, in almost new and rebored cylinders, is given under "Cylinder Block" on Page 35.

Pistons and connecting rods—To remove (See Fig. 45)

Remove cylinder head.

Remove sump.

Remove connecting rod bolts and bottom half big end bearings. IF IDENTIFYING NUMBERS ARE NOT STAMPED ON THE CONNECTING ROD AND CONNECTING ROD CAP THEY SHOULD BE STAMPED TO COME TOWARDS THE DISTRIBUTOR SIDE OF THE ENGINE. See Fig. 52.

Push pistons up the cylinder bores and withdraw assemblies from above.

The big end caps must be reassembled to the same rods from which they were removed. Each complete connecting rod should be refitted to the same piston and cylinder bore from which it was removed.

Pistons and connecting rods—To refit

Check that the pistons and connecting rods are correctly assembled as shown in Fig. 46 then insert connecting