

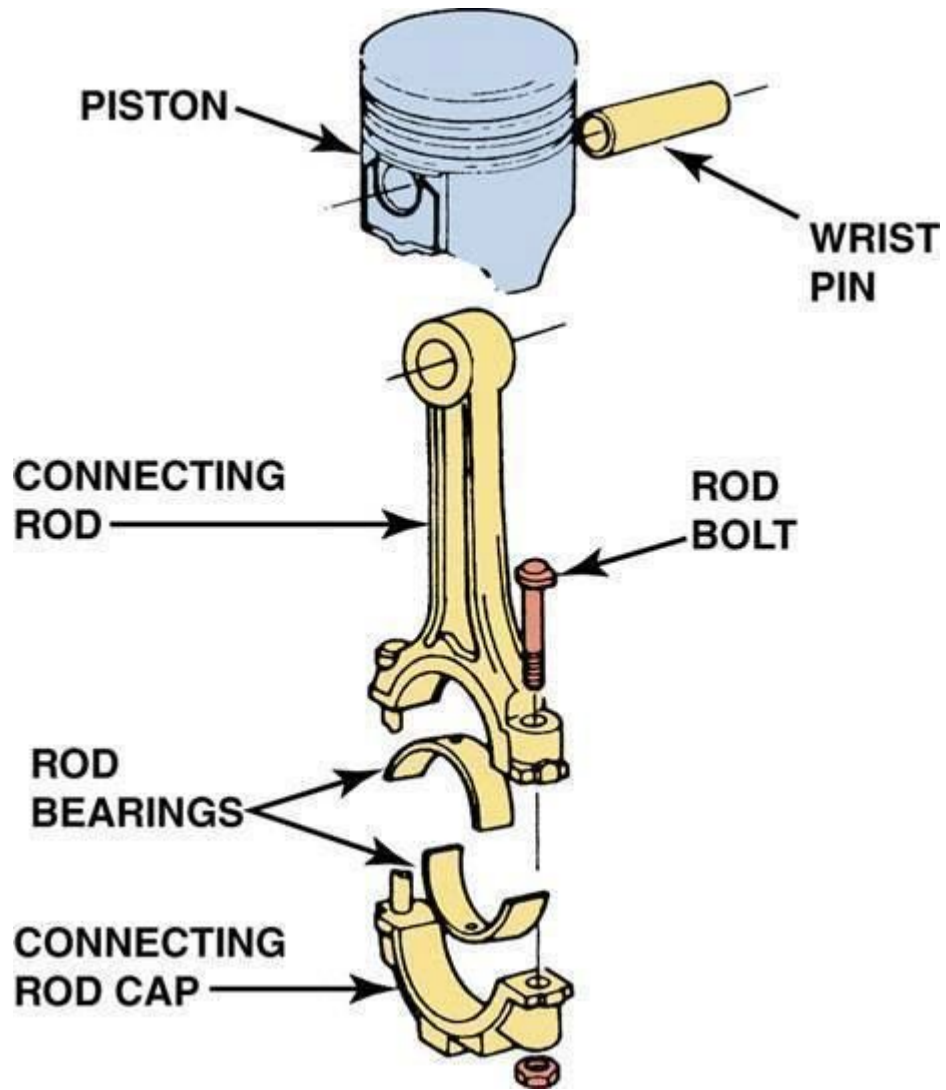
The following lesson and its accompanying demonstration aims to allow you to be successful on the job that is to follow.

Piston Assembly – Removal & Replacement



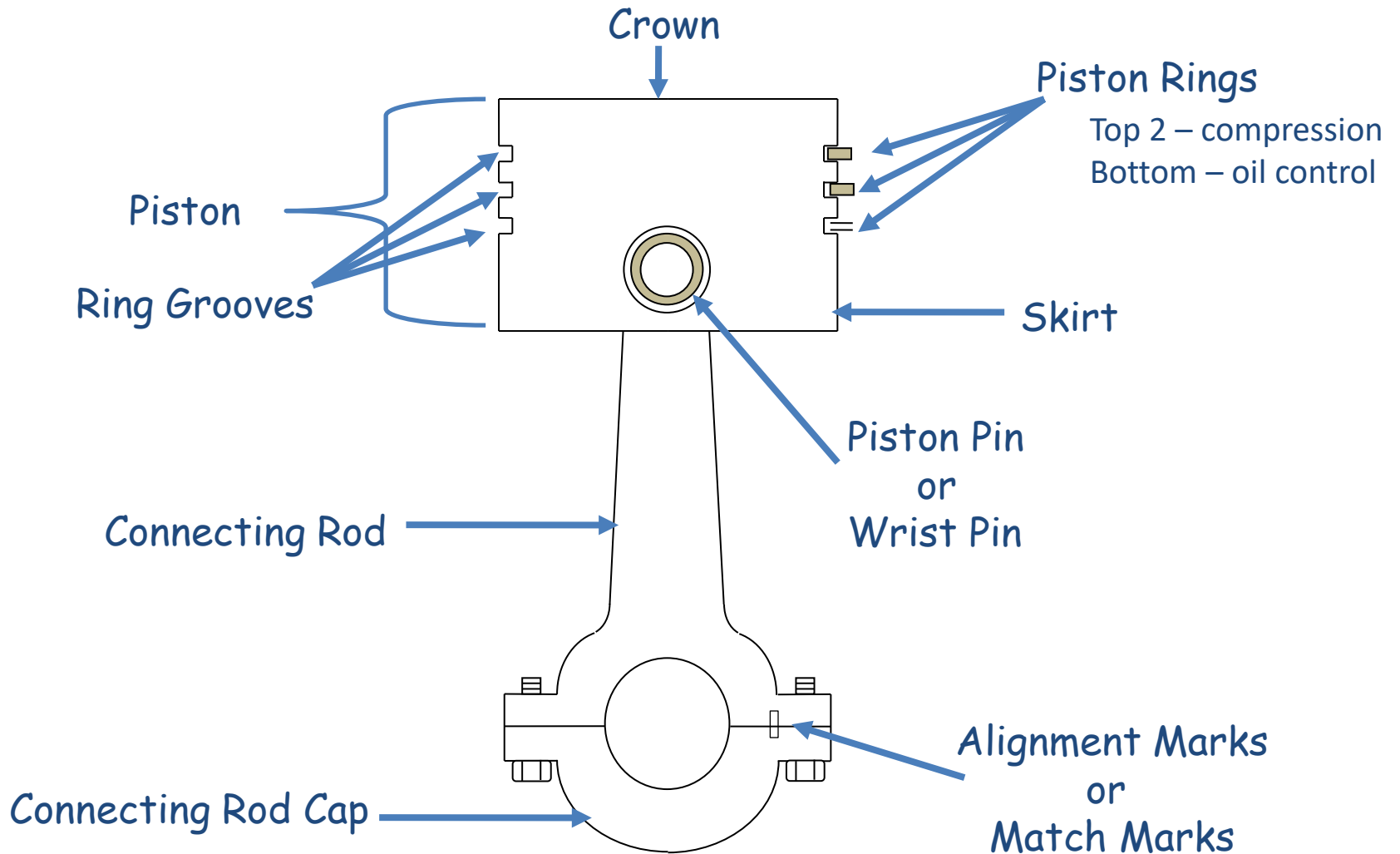
Identifying the Parts of the Piston Assembly

Piston Assembly



Typical Piston Assembly

Piston Assembly



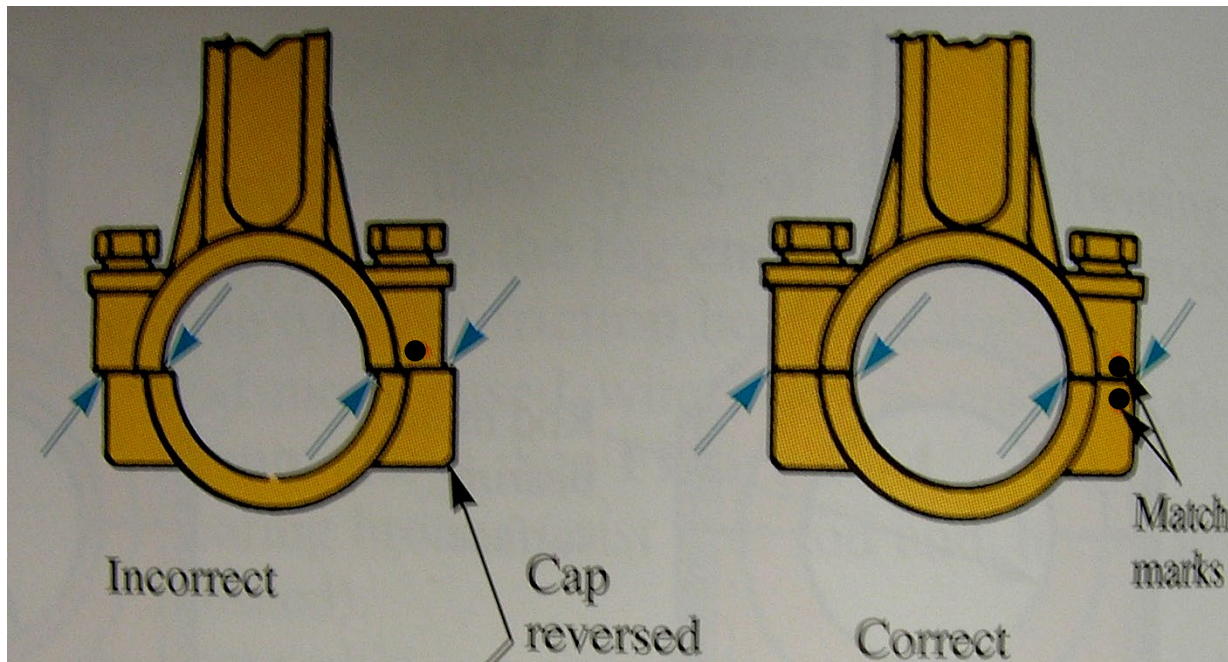
Parts of the Piston Assembly

Installing Connecting Rod Caps

Piston Assembly

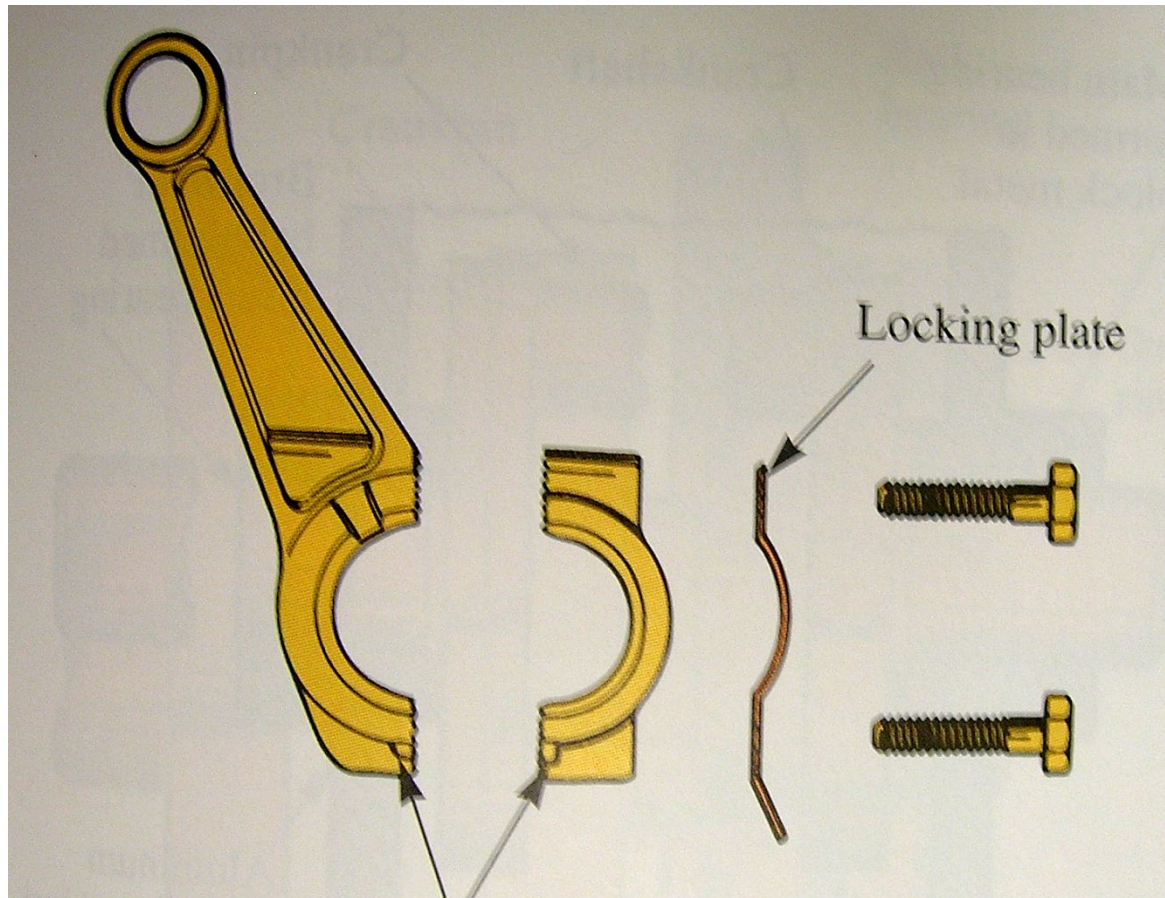
When assembling engines there are moments that if done wrong the engine will be destroyed!

The seemingly easy job of installing the connecting rod cap is one of these moments.



Piston Assembly

It's really important that the connecting rod fasteners never come undone. Therefore, methods are often employed to help with this.



Other methods include the application of 'thread locking' liquids and wiring.

Piston Assembly

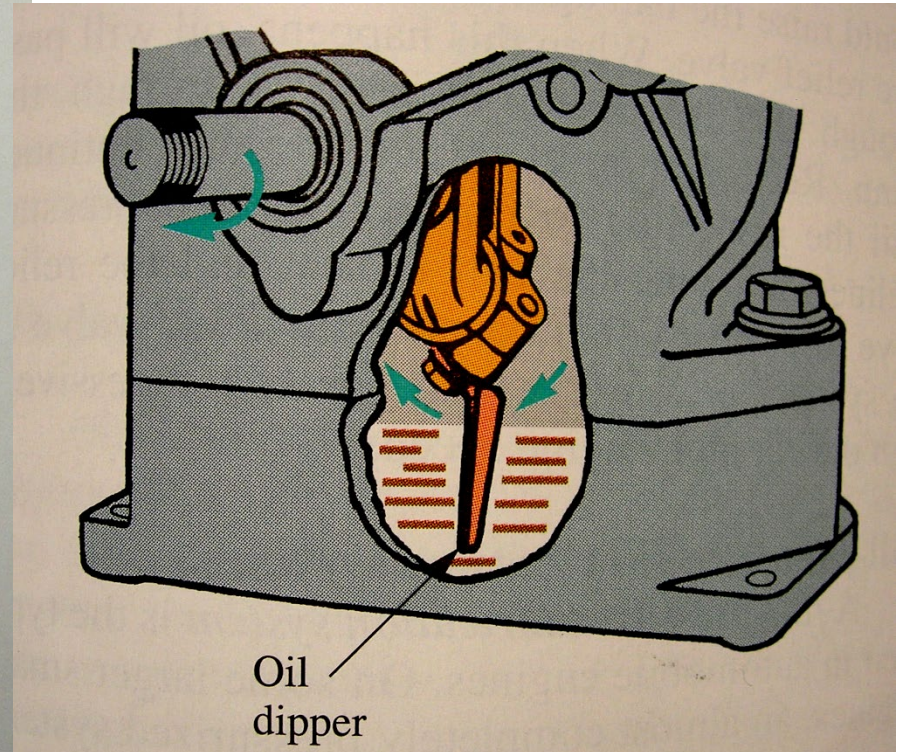
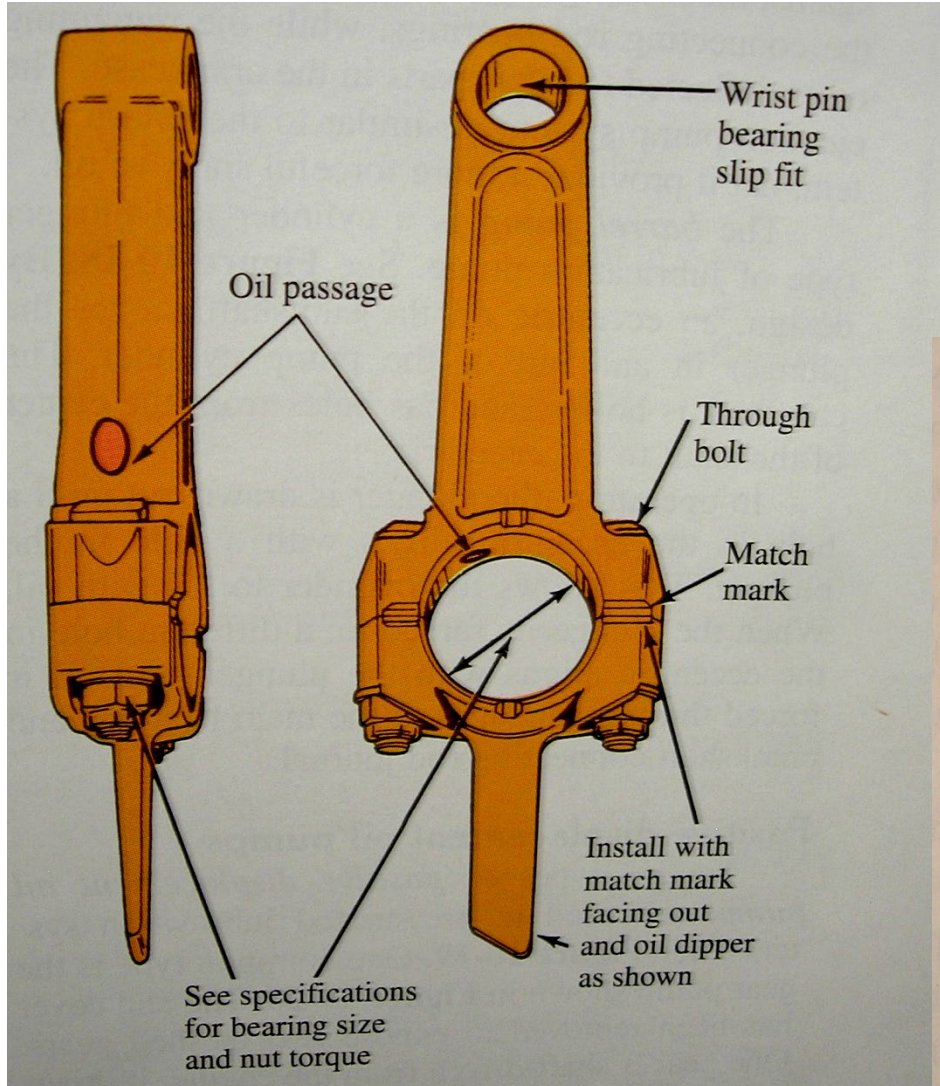
While we're inside the engine, we're going to look at its lubrication system.

Why do engines need oil, what exactly does it do?



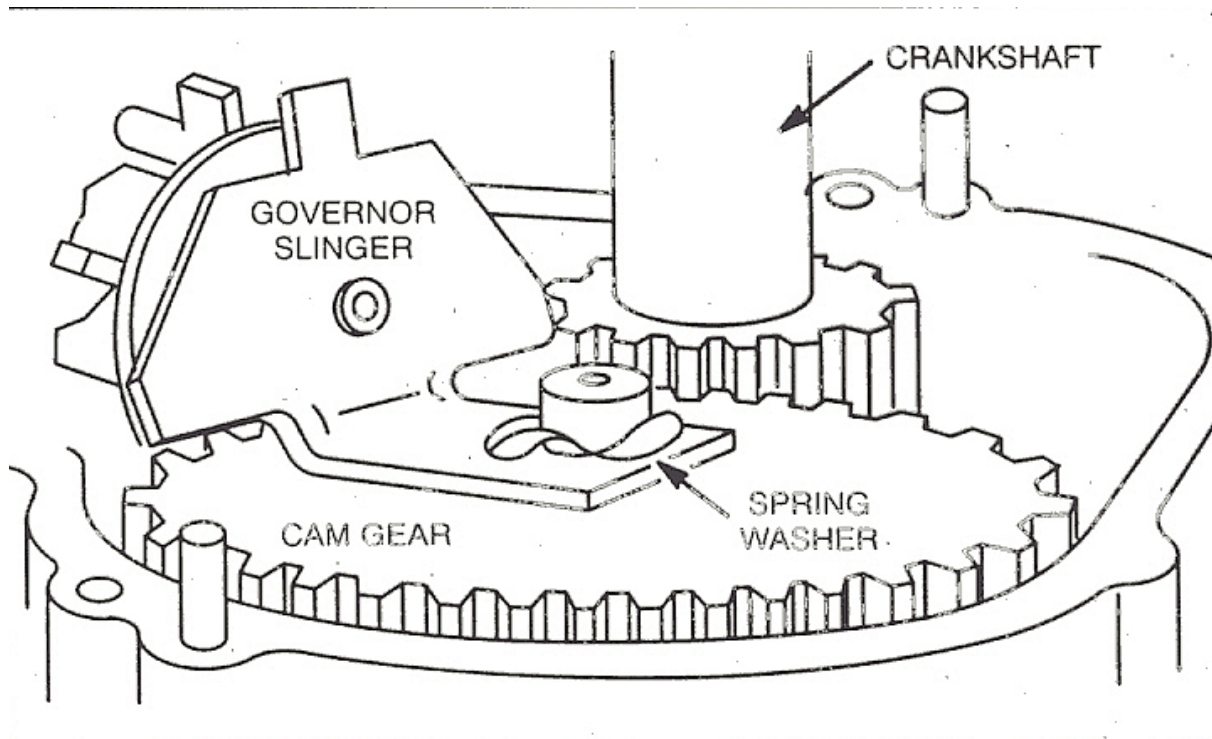
Piston Assembly

Methods of oil distribution – ‘Dip and Fling’



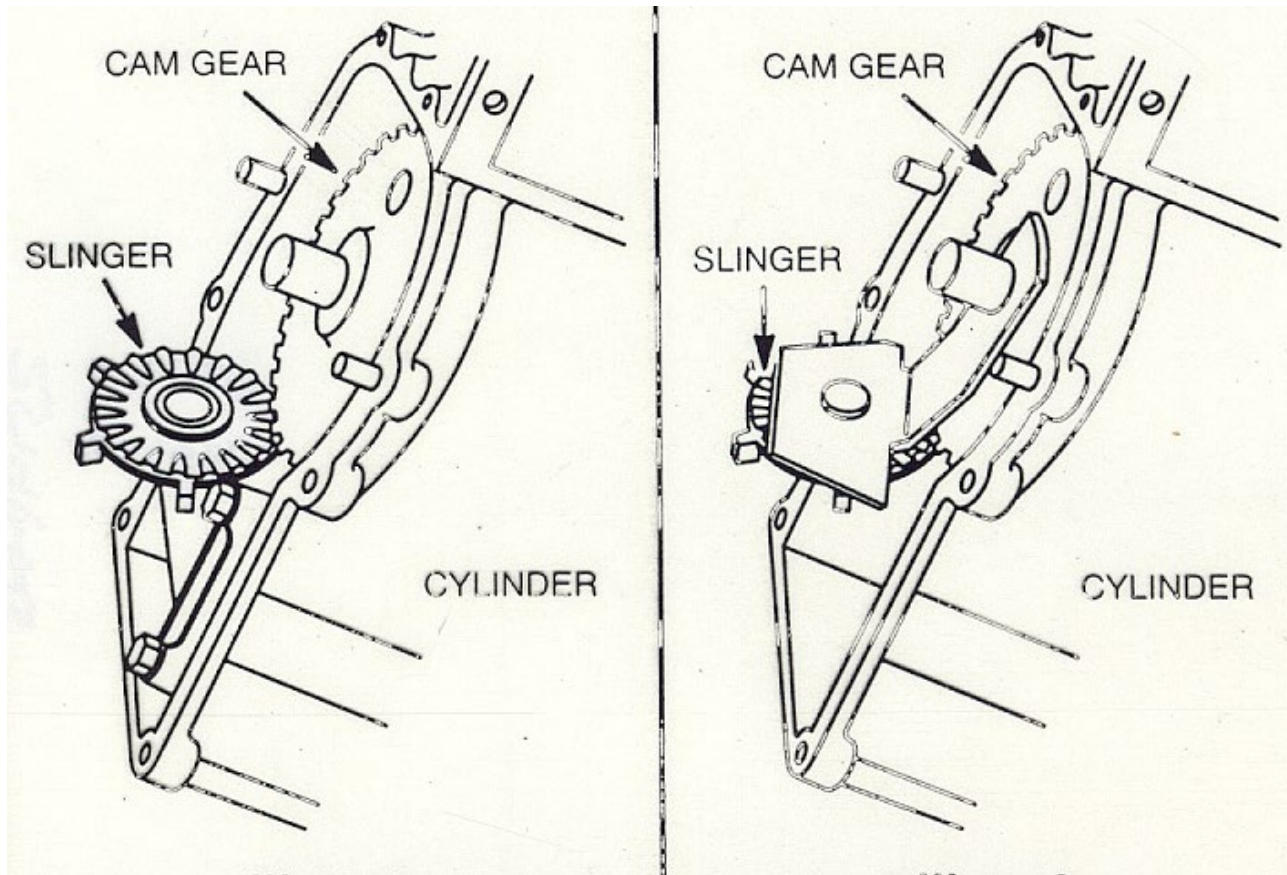
Piston Assembly

Methods of oil distribution – ‘Oil slinger’



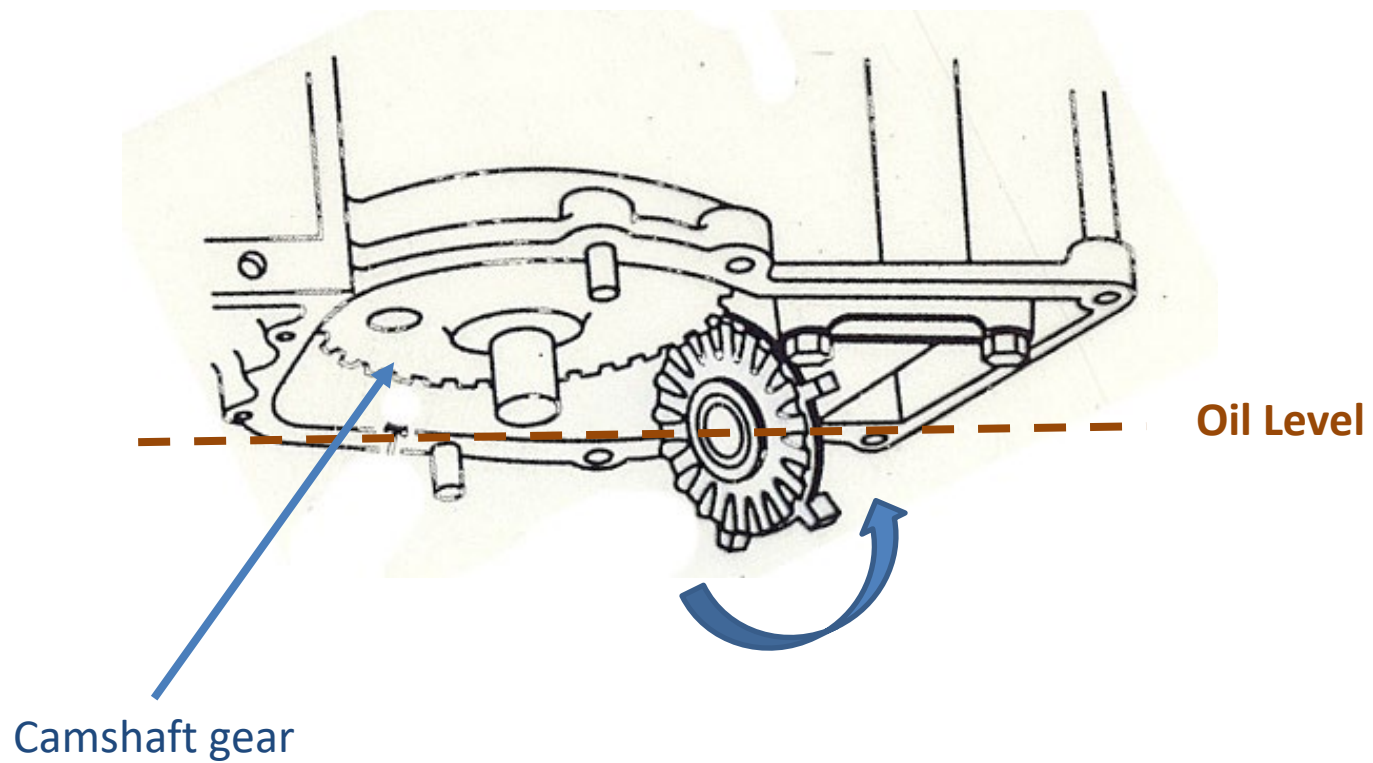
Piston Assembly

Methods of oil distribution – ‘Oil slinger’



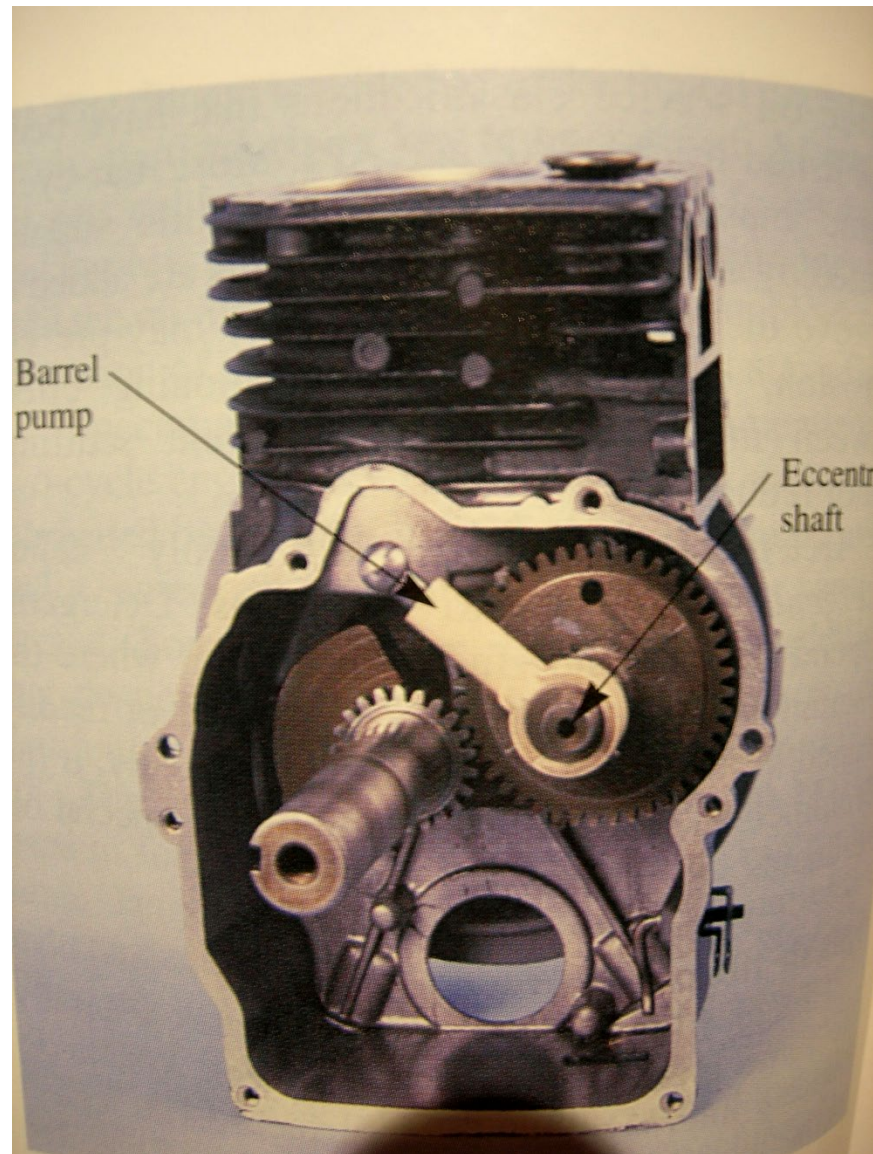
Piston Assembly

Methods of oil distribution – ‘Oil slinger’



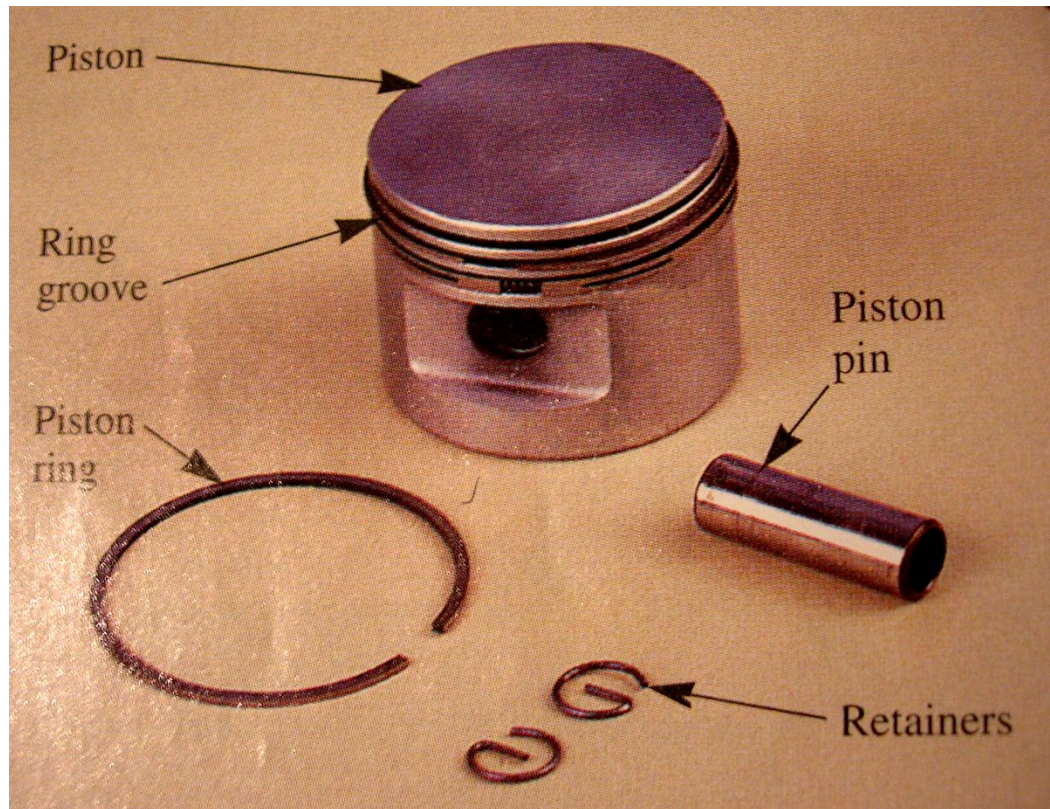
Piston Assembly

Methods of oil distribution – ‘Barrel & Plunger’



Piston Assembly

Wrist Pin Retention



When piston pins are inserted they need to be held in place by fasteners that will not interfere with the pistons and cylinder wall.

‘Retaining rings’ or ‘clips’ are a common method used.



- Has the Oil been removed?
- Use a Ziplock bag or plastic bin for parts!
- Take a picture of the connecting rod & connecting rod cap BEFORE Removing
- Section 9 of the book
- Get signatures at steps, before moving on.