

# Camshaft

## Fitting Instructions

Please persuade your customer to read & observe any camshaft fitting instructions included in the kits. They only take 5 minutes to read and can save all concerned time and money in preventing costly Warranty Claims.

Think logically - will an engine of 80,000 plus miles be as new, other than its worn cam assembly? The answer is simply - no!

Camshafts & followers are unlikely to be manufactured as faulty! They fail in use due to two main reasons - Inadequate oil supply or Inherent oil contamination.

## Inadequate oil supply

Inadequate oil supply normally gives symptoms of low oil pressure!

Always take hot oil pressure readings before camshaft work commences. If it's not to manufacturers recommended figures then rectify all listed causes below. If time or economics won't allow then **do not fit our cam kit - you are wasting your time!**

Causes	Remedy
Worn crankshaft &/or bearings?	Regrind crankshaft &/or fit new bearings!
Worn oil pump rotors &/or housing?	Install oil pump repair kit or renew oil pump!
Inefficient oil pressure relief valve?	Inspect housing seating, renew valve & spring!
Worn camshaft bearings or carrier housing bores?	Install new bearings or renew housing!
Clogged up oil pickup pipe?	Remove sump & pickup pipe & clean!
Petrol or diesel diluted oil?	Carry out emission test & correct any over fuelling!
Cheap oil filters? (without anti-drain off valve), will give inadequate oil supply at start up!	Fit o.e. or top brand oil filter where anti-drain off valve is required!

## Inherent Oil Contamination

**Inherent oil contamination will be obvious sludge or thin oil, smelling of fuel!**

If engine oil pressure test is satisfactory, then run existing engine for at least half an hour on a good quality flushing oil or additive. In all cases even if the engine is clean, remove sump and clean all oil wash areas and oil pickup pipe. If cleanliness is not to be observed then **do not fit our cam kit - you are wasting your time!**

Causes	Remedy
Sludged up rocker cover & valve train area?	Remove sump & clean top areas to bright metal!
Sludged up sump?	Remove sump & clean!
Clogged up oil pick up pipe?	Clean to bright metal or renew as necessary!
Oil ways with dried carbonised linings?	Clean with additives or strip & manually clean!
Petrol or diesel diluted oil?	Carry out emission test & correct any over fuelling!
Poor quality oil?	Use only top brand oils to vehicle maker's recommendations!