

HOW TO AVOID DRY START UP WHILE FITTING NEW COMPLETE CYLINDER HEAD

Here are some expert advice on what should be done before starting an engine when a new head is fitted.

1, If workshops have a pressurise oil tank that can be used, this the best, as the hose from the tank screws into the oil galley fitting any place on the engine, the tank is pressurised by hand pump or air pressure from the workshop compressor and primes whole system with oil, this is the best and less messy as you only need to turn the engine a couple of turns by hand and the rocker cover can be left off, you can actually see the oil oozing out of the cam bearing etc.

2, Now as only engine reconditioner shops normally only have this equipment and most mechanical shops may not. The next best way is to turn the engine over several time without starting the engine until oil is up into the head and can be oozing out around the cam shaft. Now this will use a lot of battery power especially if the injectors have been fitted and the engine is under compression, this means you need a battery bank to do this correctly if injectors have been fitted already. If the injectors are not fitted you may get away with this pre start, priming of the oil system on the normal fully charged vehicle's own battery.

3, whichever way it is achieved the object of this is to have engines oil up into the cylinder head and the oil system primed before starting the engine. The dangers of not doing this will be:

A, The head components could be running up to 60 to 90 seconds and longer (in the case of worn oil pumps, this depends what condition the engine pump is in with no oil pressure or lube.

B, One danger is the oil system may have an air lock for a few minutes and stave the head of oil until there is enough oil pressure build up to clear the air block.

C, this will cause a lot wear especially on cam lobes and lifter shims and lead to permanent scuffing damage.

All new head fitment:

- 1. The oil system must be primed before the actual starting of the engine.**
- 2. Bleed the air out of water system**

Always refer to manufacturer's manual or contact us for any clarification.