

Start here.

a). A mechanic would use this information to give him an idea of the ~~states~~ what is happening when the piston is moving from BDC to TDC. This would help him be able to make the correct timing adjustments to ensure vehicle performance is that of the manufactures specifications.

b). It is essential for the valve/cam timing of the engine to be set up correctly (as manufactures specifications). Because if the engine isn't timed properly this could greatly affect the engines performance & efficiency. Eg. If inlet valves arent timed right air & fuel mixture is drawn in & wasted, causing the vehicle to be less fuel efficient, also the ignition process when the piston is compressing could be set off to early or late & could damage the piston or burn out the valves. Also could effect the pistons volumetric efficiency by not having the correct pressure & amount of intake.

c). Cam timing would be set up as per manufactures specifications, tighten or ~~loosen~~ loosen the timing nut until marks on the ~~cogs~~ timing cogs are all lined up. hand crank the engine to see if the ~~the~~ cam lobes are opening & closing the valves at the right times, once satisfied that the cam timing is correct check to see ~~if~~ what the manufactures specifications for the valve clearance is eg if its 0.03mm select the 0.03mm gauge from your feeler gauge & set & ~~test~~ slide it under the cam lobe, making sure that correct values are being tested eg. Inlet valves 1 & 3 get tested then hand crank engine over again & test inlet 2 & 4. Same goes for the exhaust valves. Once ~~happy~~ ~~satisfied~~ satisfied ~~check~~ ~~over~~ place ~~cover~~ ^{gaskets} cover back on & secure. Check over bonnet for any tools you may have left, check with your supervisor & try to start the engine

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Check for any abnormal noises & also cars ability to increase & decrease ~~revs~~ engine revs. Get supervisor to check over your work & take for test drive, While on test drive check for any abnormalities. Return to workplace & check engine over again for any leaks etc. Notify customer that their vehicle is ready to be collected.

← Tick this box if you have continued this answer in another writing booklet.

