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(A) a mechanic uses this information in association of cam timing in relation to where the piston is moving inside the block this graph also illustrates at what degrees do each valve opens and closes throughout the 4 stroke cycle

(B) it is critical to follow the manufacturers specifications of cam timing because their research and development have found that those specifications make the engine run at optimal condition, retarding / advancing the timing is increasing the risk of engine ~~detona~~ detonation. So it is imperative to follow the manufacturers details for the long jeopardy of the engine's life.

Introduction  
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(C) ~~the last adjustment to check is~~ ~~First of all~~ ~~by~~ checking the valve clearances first it would take away any load a valve might have it was at rest, so turn the engine over until number 2 and 4 (cylinders) <sup>(either intake or exhaust)</sup> valves are 'rocking' this is a optimal time to check valve clearances on both cylinder

1 and cylinder 3 (depending on which valve the mechanic chose to check, ~~the~~ ~~depending~~ the intake or exhaust) visa-versa for ~~cylinder~~ valve 2 and 4 but either intake and exhaust have to be ~~locking~~ not both at the same time. ~~if~~ <sup>this is to be done first</sup> the timing of the cam shafts was out relative to the piston movement you would first have to remove the timing chain and orientate the cam shaft to the piston movements by using prescribes specifications ~~the~~ released by the manufacturer this is done by orientating and acquiring load to the correct valves at a prescribed time in the 4 stroke ~~sy~~ cycle. once the correct specifications have been adjusted for you can then put back on the timing chain and once again check valve clearances for a double check. by following these steps you will maximise the engines efficiency by correct timing of the valves and cam shaft

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Introduction

it is imperative to correctly  
time valves and crankshaft  
to both maximise the engines  
longevity and fuel economy

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