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ford fe engine timing systems the ultimate guide build max performance for the 332 352 361 390 406 410 427 and 428 engines and how to stroke your engine that s a wide range but some things to think about below if compression is high for the cam lean toward lower total initial if quench is tight lean toward lower total initial if heads are modern chamber barry s bbm or trick flow likely pull more timing out could even go 11 12 initial 1500 rpm centrifugal advance starts 27 btc 3000 rpm centrifugal advance all in 42 btc i think it d be better to check it with vacuum advance plugged depending on the engine combo and heads you likely want between 36 and 40 degrees total advance without the vacuum advance mechanical advance is 1 1 2 degrees 500 rpm 6 degrees 750 rpm 8 degrees 1250 and 10 degrees 1500 rpm 11 degrees max initial timing 14 16 degrees fe series engines provided power for passenger cars from 1958 to 1971 in light trucks from 1965 to 1976 and medium and heavy duty trucks from 1964 to 1978 on the fe forums a little while back it was suggested that a good fe should have initial timing set at anywhere from 14 22 degrees having said that when i got my galaxie with 427 in it it was set at 28 degrees and i have no idea why but it ran great hook up a timing light check for fuel pressure and leaks ensure that the engine is full of the proper break in oil and check for distributor position and spark in addition you need to check the oil to be certain that there are no internal water leaks ford truck enthusiasts forums performance engines troubleshooting fe ft big block v8 332 352 360 390 406 410 427 428 360 timing fe timing covers fit any wedge fe engine and feature a removable front plate for accessing the top timing gear and cam combined with the fe power adjustable timing set this allows cam timing changes to be made easily similar to a camshaft belt drive setup at a greatly reduced cost at the best timing for any rpm the fuel air mixture reaches its peak pressure just after tdc that is why we use an aggressive timing curve and start at 12 15 degrees the fuel air mix burns fast but it still takes time to burn less time than it takes the crank to turn 20 degrees at idle what do i do a full procedure for adjusting the crank to camshaft timing would greatly help and be appreciated share like sort by oldest first 1 2 b barkbark 301 posts joined 2020 2 jul 7 2023 well youtube has good videos on how to align your timing marks 1a auto s guide is a good place to start 97trophy and camryfl save share 1 disconnected the vacuum line from vac advance canister to timed vaccum port on bottom of carb and plugged the port on the carb 2 used my new fancy timing light to verify the engine speed at idle it was off and re set it to 550 rpm 3 checked initial timing it was off and set it at 8 degrees 4 crank 15 idle 18 20 cruise 38 wot 36 coming in at 2800rpm fueling needs some thought still but some guidelines are air fuel stoichiometric reference a f ratio 14 7 1 for gasoline petrol wot wide open throttle 12 5 13 0 cruise 13 5 15 0 idle 13 0 15 0 deceleration 14 0 16 0 what are you setting your total timing at in your fe give me the initial setting the mechanical advance and or the vacuum advance if you re using by zach mayock published on june 21 2021 updated on january 8 2024 the toyota 1zz fe 1 8l engine was introduced in 1998 and remained through 2008 it s a basic na 1 8l inline 4 engine that s in many different toyota models the engine offers 120 140 horsepower so it s certainly not an impressive performance engine 2tr fe engine timing chain marks setting youtube mayo cars dr 56 4k subscribers subscribed like 36k views 2 years ago mayocarsdr 2tr fe 2 7l engine timing chain marks since the first ls lexus has been winning reliability and dependability surveys showcasing japanese engineering at the heart of it all was the 1uz fe v8 engine with a 4 0 liter capacity dohc as a starting point you want your initial at around 10 12 degrees again just a starting point if your engine is mechanically sound and the carburetor properly adjusted you shouldn t have any issues with the engine idling at that initial timing if the engine is having issues try adjusting the carburetor first 24 hrs critical repair our particular specialty is glass and carbon material equipment repair and recovery we hold stocks of materials for immediate use service guarantee reaching situation site immediately and ready to start work subject to parts availability quotations provided on the spot automated recovery engineering ford fe engine assembly the ultimate guide this chapter is not just a basic step by step section for how to assemble your engine

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that s a wide range but some things to think about below if compression is high for the cam lean toward lower total initial if quench is tight lean toward lower total initial if heads are modern chamber barry s bbm or trick flow likely pull more timing out could even go 11 12 initial

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on the fe forums a little while back it was suggested that a good fe should have initial timing set at anywhere from 14 22 degrees having said that when i got my galaxie with 427 in it it was set at 28 degrees and i have no idea why but it ran great

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hook up a timing light check for fuel pressure and leaks ensure that the engine is full of the proper break in oil and check for distributor position and spark in addition you need to check the oil to be certain that there are no internal water leaks

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at the best timing for any rpm the fuel air mixture reaches its peak pressure just after tdc that is why we use an aggressive timing curve and start at 12 15 degrees the fuel air mix burns fast but it still takes time to burn less time than it takes the crank to turn 20 degrees at idle

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what are you setting your total timing at in your fe give me the initial setting the mechanical advance and or the vacuum advance if you re using

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by zach mayock published on june 21 2021 updated on january 8 2024 the toyota 1zz fe 1 8l engine was introduced in 1998 and remained through 2008 it s a basic na 1 8l inline 4 engine that s in many different toyota models the engine offers 120 140 horsepower so it s certainly not an impressive performance engine

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as a starting point you want your initial at around 10 12 degrees again just a starting point if your engine is mechanically sound and the carburetor properly adjusted you shouldn t have any issues with the engine idling at that initial timing if the engine is having issues try adjusting the carburetor first

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