

# IGNITION TIMING FOR 91 4AFE ENGINE

## FAQs about IGNITION TIMING FOR 91 4AFE ENGINE

**What should my ignition timing be?** This is the amount of advance at idle with the spark triggered Before Top Dead Center (BTDC). Most stock street engines call for 6 to 8 degrees of initial advance, but this is not set in stone. Engines with longer duration camshafts and other modifications often demand more initial timing.

**What are the symptoms of ignition timing being off?** Some incorrect timing symptoms can include engine knocking or pinging, a loss of power or acceleration, decreased fuel economy, an overheating engine or rough idle.

**How do I know if my ignition timing is correct?** A well-timed engine produces a harmonious hum. If you start hearing clanking, knocking, or pinging noises, your engine might be struggling to keep the beat. These sounds are the engine's way of signaling that something is amiss with the timing of the combustion process.

**How do you set total ignition timing?**

**What degree should ignition timing be at idle?** Timing is set at idle, the centrifugal advance in the distributor will change the timing based on speed and the vacuum advance will adjust based on load. What engine? It really depends. But anything between 15–30 degrees is pretty normal.

**What should timing advance be at idle?** After tuning thousands of different engines, I find that most engines will idle nicely with ignition advance in the 15 to 20 degree vicinity so this is where I'd suggest starting out. 15 degrees is almost certainly going to be less than the MBT timing, but there are some advantages to doing this.

**How do you reset the ignition timing?**

**What happens if the ignition timing is too late?** Setting the correct ignition timing is crucial in the performance of an engine. Sparks occurring too soon or too late in the engine cycle are often responsible for excessive vibrations and even engine damage.

**Will an engine run if timing is off?** If the engine timing of the cam is off, your car will either be running rough or not at all. If the ignition timing is the problem, it isn't as easy to notice because it has four cycles: Intake valve sucks in air while fuel is delivered by the injectors. The fuel mixture is reduced.

**How can I tell if timing is off?**

**How do you fix an improper ignition timing?** To adjust your timing, all you need to do is turn the distributor housing one direction or the other, depending on whether or not you want to advance or move back the timing. If the rotor turns clockwise, you'll advance the timing by rotating the distributor counterclockwise, and vice versa.

**Is ignition timing before or after TDC?** This ignition timing condition is about 20 degrees of crank rotation before tdc, i.e. 20 degrees btdc. If ignition is delayed until tdc, the pressure rise due to combustion will be counteracted by the pressure reduction due to the downward motion of the piston after tdc. Less work can be done under this condition.

**What is the best ignition timing for power?** The ideal ignition timing for power occurs just before the point where detonation or pinging takes place. Correctly timed ignition will cause peak cylinder pressures to occur around 12 to 15 degrees after TDC.

**What degree should ignition timing be?** Total timing requirements are dependent upon many variables. A typical street engine with a compression ratio of 9.0:1 runs very well with around 36 degrees of timing (initial plus mechanical) for a rough total of 15-55 degrees of timing at light throttle when vacuum advance is employed.

**What are the symptoms of over advanced timing?** Like other timing issues, an over-advanced camshaft can cause the engine to run rough. Specifically, it will have trouble starting, poor idling, and will be more likely to stall. As mentioned, these symptoms can be shared by other codes such as P0014, the equivalent code for the “B” camshaft.

**What is bad ignition timing?** Timing that is too advanced can cause hard starting, pinging, poor performance, and also cause an engine to overheat. If the clicking noise you hear is pinging then this needs to be sorted out PDQ as chronic pinging can wipe out an engine by burning the pistons up.

**How do you check ignition timing?**

**How to calculate ignition timing?**

**What is the total ignition timing?** Total timing, which refers to the maximum amount of ignition timing applied to the engine, is easy enough to calculate. You get the number by adding initial timing to mechanical advance. Correctly setting it, however, involves multiple steps. First, you'll want to determine your desired total timing.

**What is a cold start ignition timing?** A “cold start” describes an engine drivability strategy that's used when the engine is at or below ambient temperature. Ignition timing is slightly advanced when the engine is cold to make up for the lower temperature of the combustion chamber.

**Is 30 degrees of timing bad?** ANSWER. No, this certainly is not normal. Running that much timing will usually detonate your motor into oblivion.

**What happens if ignition timing is off?** improper ignition timing will cause spark to happen at the incorrect time and your engine will barely run, if it can start at all. if your ignition timing is too advanced, the engine will start to ping/ detonate, which can cause rapid overheating of the cylinder and eventually can lead to pre-ignition.

**How does the PCM control ignition timing?** The PCM adjusts the ignition timing based on several factors, including engine speed, load, and temperature. It uses input from sensors such as the crankshaft position sensor and the camshaft position sensor to determine the engine's current state and adjust the timing accordingly.

**What sensor controls ignition timing?** The crankshaft position sensor monitors as a multifunctional sensor used to set ignition timing, detect engine RPM and relative engine speed. This sensor negates the need for manual distributor timing.

**How far can you advance ignition timing?** As a rough guide, most engines will idle at around 10-20\* of timing, so if you're simply trying to get the engine running, you could block change (select the cells and use the '=' key) the entire top left area to 15\*.

**How many degrees of timing is okay?** That is typically 15-35 degrees before TDC (top dead center) of the power stroke depending on the engine speed. Best power is achieved when ignition timing is set to fire the spark ahead of time to reach that peak pressure at about 2 degrees after TDC.

**How much does ignition timing affect horsepower?** Ignition Timing and Horsepower The dyno graph clearly shows that just 2 degrees of timing shift cause significant changes to the output power.

**Will timing throw a code?** If you're experiencing strange engine troubles, it's possible that there's a code associated with the timing chain stretch issue. A commonly seen code for timing chain stretch is P0016. This code occurs when there's a misalignment between the crankshaft and camshaft.

**What happens if timing is off 180 degrees?** this means that basically the spark plug is trying to ignite when the first cylinder is coming up for the exhaust stroke rather than coming up for the compression stroke.

**What can throw off engine timing?** A stretched or failing timing chain can throw off the engine's timing, resulting in a lackluster performance. Pay attention to these hesitations—it's your engine's way of asking for a timing chain check or even replacement.

**How much to adjust ignition timing?** The average cost for an Ignition Timing Adjust is between \$52 and \$66. Labor costs are estimated between \$52 and \$66. This range does not include taxes and fees, and does not factor in your unique location.

**How do you reset the ignition timing?**

**What is a cold start ignition timing?** A “cold start” describes an engine drivability strategy that's used when the engine is at or below ambient temperature. Ignition timing is slightly advanced when the engine is cold to make up for the lower temperature of the combustion chamber.

**What is 15 degrees before TDC?** Fifteen degrees before TDC means the spark plugs would fire when the crankshaft is still 15 degrees of rotation away from when each piston reaches the top. In reality, the timing of the spark is supposed to vary. At idle, it's supposed to be TDC.

**How do you fix an improper ignition timing?** To adjust your timing, all you need to do is turn the distributor housing one direction or the other, depending on whether or not you want to advance or move back the timing. If the rotor turns clockwise, you'll advance the timing by rotating the distributor counterclockwise, and vice versa.

**Does ignition timing change with RPM?** Mechanical timing advance This type of timing advance is also referred to as centrifugal timing advance. The amount of mechanical advance is dependent solely on the speed at which the distributor is rotating. In a 2-stroke engine, this is the same as engine RPM. In a 4-stroke engine, this is half the engine RPM.

**How much does ignition timing affect horsepower?** Ignition Timing and Horsepower The dyno graph clearly shows that just 2 degrees of timing shift cause significant changes to the output power.

**What are the symptoms of incorrect ignition timing?** What causes ignition timing to be off? When any changes are made to the engine of a car, the ignition timing is adjusted accordingly. If not, you could experience several problems with your engine with improper ignition timing like knocking, hard

to start, increase fuel usage, overheating, and reduced power.

**What sensor controls ignition timing?** The crankshaft position sensor monitors as a multifunctional sensor used to set ignition timing, detect engine RPM and relative engine speed. This sensor negates the need for manual distributor timing.

**How does the PCM control ignition timing?** The PCM adjusts the ignition timing based on several factors, including engine speed, load, and temperature. It uses input from sensors such as the crankshaft position sensor and the camshaft position sensor to determine the engine's current state and adjust the timing accordingly.

**What is good ignition timing?** That is typically 15-35 degrees before TDC (top dead center) of the power stroke depending on the engine speed. Best power is achieved when ignition timing is set to fire the spark ahead of time to reach that peak pressure at about 2 degrees after TDC.

**How do you check ignition timing?**

**What is initial ignition timing?** The term "Initial Timing" refers to the amount of Ignition Timing applied to the engine at idle.

**What is ignition timing for dummies?** So our ignition timing or ignition angle is referenced relative to that point in the engine cycle where the piston has reached top dead centre. So generally when we're talking about ignition advance, the ignition advance angle will be in degrees of crankshaft rotation before top dead centre.

**How to calculate ignition timing?**

**What is the total ignition timing?** Total timing, which refers to the maximum amount of ignition timing applied to the engine, is easy enough to calculate. You get the number by adding initial timing to mechanical advance. Correctly setting it, however, involves multiple steps. First, you'll want to determine your desired total timing.

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Figure

**Can't get ignition timing to reach the -10 mark 91 4AFE**, May 29, 2020 — I would check that the timing belt is set correctly on the cam and crank gears. I would also verify that the notch on the pulley is at the TDC mark. [toyotanation.com/threads/cant-get-ignition-timing-to-reach-the-10-mark-91-4afe-1679043/](https://toyotanation.com/threads/cant-get-ignition-timing-to-reach-the-10-mark-91-4afe-1679043/)



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Figure

**Ignition Timing Is Free HP. Here's How To Get The Most! - MotorTrend**, May 16, 2013 — The ignition timing is extremely retarded, about 20 or more degrees. I cannot set the base timing by jumpering the test points, there isn't enough range on the ... [motortrend.com/how-to/ignition-timing-free-hp-heres-get/#:~:text=This is the amount of,often demand more initial timing](#)



Figure

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Figure

**7 Signs Your Engine Is Having Timing Issues | Burbank - Future Auto Service**, Feb 6, 2010 — You can go to any mechanic, adjusting the timing is fairly straight forward. There's nothing else to tweak with the stock ECU. [futureautoservice.net/blog/7-signs-your-engine-is-having-timing-issues#:~:text=A well%2Dtimed engine produces,timing of the combustion process](#)

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2. OBD-II PIDs (section Service 09 PID) bytes are to be interpreted differently depending upon whether the engine is spark ignition (e.g. Otto or Wankel engines) or compression ignition (e.g. Diesel...)

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3. Octane rating
 

the fuel being used. In modern computer-controlled engines, the ignition timing will be automatically altered by the engine management system to reduce...
4. Chevrolet small-block engine (first- and second-generation) (category Articles to be expanded from December 2017)
 

eliminated the production breaker-point ignition allowing greater spark energy and more stable ignition timing at all engine speeds including idle. This... and not a cult; he stated, "In a cult, you're told what to do. Here, you do what you think you should do." Following the gun scandal, Jouret became very...
5. 1997 Saint-Casimir mass suicide
 

oxygen, and this usually occurs at cylinder peak pressure. In a spark-ignition engine, an ancillary benefit of recirculating exhaust gases via an external...
6. Exhaust gas recirculation
 

of the LT1 small-block. It featured reverse-flow cylinder heads, a new ignition system, and new engine block, but the valvetrain and engine mounts were...
7. General Motors LS-based small-block engine
 

afterburning and reduces HC emissions. On the other hand, the same ignition timing of L and T leads to a higher energy conversion. Hydrocarbons adhering...
8. Wankel engine (category Articles to be split from December 2022)
 

(0.97 bar); at 5000rpm: 43 psi (3.0 bar) Interference Type Engine Ignition Timing: 15° / 700rpm Valve Clearance: Intake: 0.2 ± 0.02 mm (0.00787 ± 0.00079 in);...
9. Subaru EJ engine
 

on September 14, 2017. Retrieved July 13, 2017. "How do I know what coolant to use for my car?". AUTODOC. Retrieved 2024-09-26. "ALLUVIAL EXPLORATION &..."
10. Internal combustion engine cooling
 

For example, all cars once had controls for the choke valve, clutch, ignition timing, and a crank instead of an electric starter. However, new controls...
11. Car (category Articles to be expanded from March 2019)
 

intended as a diversion. For ignition, they used storm matches, cannon fuses, and model rocket igniters as well as timing devices built from mechanical...
12. Columbine High School massacre
 

mated to an automatic transmission, also mandatory. The carburetor and ignition timing were controlled by Chevrolet's new Computer Command Control system...
13. Chevrolet Corvette (C3)
 

2023. Retrieved July 22, 2023. Hamming 1998, pp. 640–650. "Report LA-602, Ignition of the Atmosphere With Nuclear Bombs" (PDF). Los Alamos National Laboratory...
14. Trinity (nuclear test)
 

TEB produced a characteristic green flame, which could often be seen during engine ignition. The fuel was used as a heat sink for the rest of the aircraft...
15. Lockheed SR-71 Blackbird
 

seating layout. It was conceived as an exercise in creating what its designers hoped would be considered the ultimate road car. Despite not having been...
16. McLaren F1
 

reduced in size by 1 mm, the exhaust system was redesigned, valve timing and ignition timing were altered. The kick-start mechanism was removed from the engine...
17. Honda Gold Wing
 

headrests were now standard equipment due to federal safety mandate. The ignition switch moved from the instrument panel to the steering column and also...
18. Chevrolet Malibu

19. Gus Grissom

poor shape relative to what it ought to be. We felt like we could fly it, but let's face it, it just wasn't as good as it should have been for the job...

20. USS Iowa turret explosion

concluded that the probability of powder ignition in the 16-inch guns by an overram was such that measures needed to be taken to ensure that overrams were precluded...

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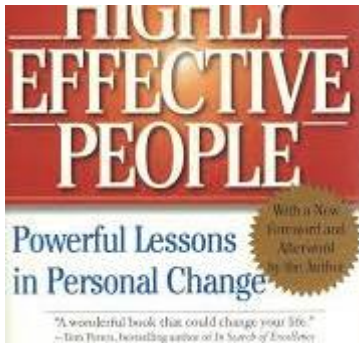


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