

dd15 fuel pump timing



[Steve Lank](#) 51 posts since May 3, 2017

dd15 fuel pump timing Jan 21, 2021 3:25 PM

2010 dd15 hp fuel pump timing. im doing my first fuel pump, followed the book but something doesnt seem right . rolled around to #1 tdc (valves loose ,both cam lobes facing inward) pulled pump and noticed the timing mark " T" was at 6 oclock instead of 12 oclock ?. this pump was done at a shop somewhere else 3 years ago. was that pump put in wrong? can i time the new pump to 12 oclock position and install without turning engine? i do have the barring tool and lock pin in sensor hole.



[Brett Hall](#) 12 posts since Jul 25, 2020

Re: dd15 fuel pump timing Jan 21, 2021 3:33 PM

fuel pumps no longer need to be "timed" need to clock the fuel pump gear so the timing plate clears the mating gear. there was a software update for when the pumps were not timed to engine. having to do with pressure fluctuations.



[Steve Lank](#) 51 posts since May 3, 2017

Re: dd15 fuel pump timing Jan 21, 2021 3:56 PM

so i can just set to 12 oclock on the new pump and be ok. dont know if this had that software update? wish this had that rear access cover to be sure the plate is right.



[Cromwell Smith](#) 112 posts since Nov 13, 2014

Re: dd15 fuel pump timing Jan 21, 2021 4:09 PM

DON'T WORRY, WON'T GO IN IF PLATE NOT IN CORRECT SPOT, WILL HIT THE GEAR WHEN TRYING TO PUT IN. PREVIOUS REPAIR, THEY PROBABLY TOO LAZY TO TIME, PULLED OUT AND BENT PLATE, STRAIGHTENED PLATE AND REINSTALLED. THE SEMI CIRCLES OF THE PLATE THAT ARE CUT OUT ALLOW TO MESH IN GEAR.



[Steve Lank](#) 51 posts since May 3, 2017

Re: dd15 fuel pump timing Jan 21, 2021 4:15 PM

thanks, just trying to do it correctly. didnt want to get it all together and have screwed it up.



[Cromwell Smith](#) 112 posts since Nov 13, 2014

Re: dd15 fuel pump timing Jan 21, 2021 4:17 PM

YOU ARE DOING THE RIGHT THING BY LOOKING UP SERVICE LITERATURE AND ASKING QUESTIONS.

dd15 fuel pump timing



[Joe Young](#) 2 posts since Jun 5, 2020

Re: dd15 fuel pump timing Jan 28, 2021 1:13 PM

I would be cautious with the statement of the HP pumps don't need to be timed. First of all there has been no changes in the workshop manuals that state timing isn't necessary. It still states to rotate engine until TDC #1 and rotate HP Pump until mark on eyebrow plate is at 12 o'clock. The other issue to consider if the engine isn't at TDC and the HP pump was only clocked so the cutout on the eyebrow plate allowed installation and not clocked at 12 o'clock the next time the pump needed to be removed and the tech followed procedure and did bring to TDC #1 then the eyebrow plate might prevent removal.

Could someone reference the letter/bulletin stating HP Pumps no longer need to be timed?



[James McFadden](#) 198 posts since Dec 9, 2014

Re: dd15 fuel pump timing Jan 28, 2021 2:17 PM

It only says rotate eng and line up the dot on the fw to the housing point.. "flywheel tdc" , it is tdc on both 1 and 6 but you could be on firing order 6 and still replace pump .. you have no way of knowing if its 1 or 6 as you would have to take the v/c off and see. So in that instance would it still be "timed" ? its a 50/50 shot you will be tdc firing order 1 . I would only recommend following the published service manual to anyone.



[Brett Hall](#) 12 posts since Jul 25, 2020

Re: dd15 fuel pump timing Jan 21, 2021 4:13 PM

any new software will have the update in it.. if your not sure. update software in the power train modules



[Brett Hall](#) 12 posts since Jul 25, 2020

Re: dd15 fuel pump timing Jan 21, 2021 4:29 PM

contrary to popular belief.. no such this as a stupid question in this field



[Steve Lank](#) 51 posts since May 3, 2017

Re: dd15 fuel pump timing Jan 21, 2021 4:36 PM

Thank all, appreciate your time and help. had to shift gears onto something else but will get to it soon.



[Steve Lank](#) 51 posts since May 3, 2017

Re: dd15 fuel pump timing Jan 21, 2021 5:20 PM

not familiar with that update and i only have standard ddl software . just a small mom pop place.



[Brett Hall](#) 12 posts since Jul 25, 2020

Re: dd15 fuel pump timing Jan 21, 2021 6:06 PM

dd15 fuel pump timing

what is the last 6 of vin?



[Steve Lank](#) 51 posts since May 3, 2017

Re: dd15 fuel pump timing Jan 21, 2021 6:27 PM

af1007, soory i was at lunch



[Brett Hall](#) 12 posts since Jul 25, 2020

Re: dd15 fuel pump timing Jan 21, 2021 6:56 PM

what is the mcm software level at currently? under the identification tab on left side of screen example 6.7.0.2



[Steve Lank](#) 51 posts since May 3, 2017

Re: dd15 fuel pump timing Jan 21, 2021 7:57 PM

I'll check ,just gotta move some stuff off deck plate and connect batteries



[Steve Lank](#) 51 posts since May 3, 2017

Re: dd15 fuel pump timing Jan 21, 2021 8:06 PM

level 13.4.2.0



[Brett Hall](#) 12 posts since Jul 25, 2020

Re: dd15 fuel pump timing Jan 21, 2021 8:30 PM

i think the software level is high enough to not be an issue.



[Steve Lank](#) 51 posts since May 3, 2017

Re: dd15 fuel pump timing Jan 21, 2021 8:34 PM

thanks for checking



[James McFadden](#) 198 posts since Dec 9, 2014

Re: dd15 fuel pump timing Jan 21, 2021 8:41 PM

They had got under the unit , barred it around till the dot lined up to the flywheel housing mark and pulled the pump out.. it will come out either way tdc 1 or tdc 6.. it don't matter, the cams say when its tdc firing .. so it could be that or if someone had the head off or cam frame off and barring the eng around and puts 1 and 6 to tdc then put the cams / cam frame in on tdc 1 and the pump could be 180 out.. so I don't think they were lazy or didn't do it correctly there are a lot of other things that can put them 180 out.. It don't tell you to pull the valve cover and check the cams that you are tdc 1 anyways , it just says line up the f/w timing dot and pull it out.. so it don't matter..

dd15 fuel pump timing



[Steve Lank](#) 51 posts since May 3, 2017

Re: dd15 fuel pump timing Jan 21, 2021 9:23 PM

yeah this truck had an overhaul with a crank put in it and apparently this is 3rd fuel pump. I'm on tdc#1 so I'll just put the new pump at 12 o'clock and should be good to go.



[James McFadden](#) 198 posts since Dec 9, 2014

Re: dd15 fuel pump timing Jan 22, 2021 1:38 PM

yep, it will be fine.. but if you have to do one again there is no need to pull the valve cover off and verify that it is tdc 1 firing .. just line up the dot and pull it.. and congrats on your first pump replacement.. im sure it wont be your last LOL...



[Steve Lank](#) 51 posts since May 3, 2017

Re: dd15 fuel pump timing Jan 21, 2021 9:25 PM

also the last pump was done at a place that didnt work on dd's



[Shawn Klein](#) 64 posts since Nov 10, 2014

Re: dd15 fuel pump timing Jan 29, 2021 10:34 PM

Just an FYI, there is only one TDC (top dead center). If the flywheel is pinned 360 from TDC, then it's at BDC (bottom dead center). To know the difference, you must verify TDC with the camshaft timing tools.



[Joe Young](#) 2 posts since Jun 5, 2020

Re: dd15 fuel pump timing Feb 1, 2021 12:54 PM

Shawn am I reading your post wrong or did you make a typo. When a piston is at TDC and you rotate the flywheel 360degrees the piston is still at TDC. 180 from TDC is BDC. Yes I agree the only way to know if #1 is on compression or exhaust (valve overlap) is to have valve cover removed. Ironically though when you reference the DD manuals on line it simply states: "Note : When the flywheel dot is aligned with the edge of the pointer, the engine is at TDC." There's no mention of removing the valve cover to verify #1 TDC compression stroke.



[Doris Beaulieu](#) 5 posts since Sep 1, 2020

Re: dd15 fuel pump timing Feb 2, 2021 4:23 PM

you can time pump either on cyl. 1 or 6 doesn't matter, fuel pump rotate 3 times for a crank turn.