

2021 cascadia opt idle issues.



[Darius Ripp](#) 14 posts since May 1, 2017

2021 cascadia opt idle issues. Oct 8, 2020 5:35 PM

Truck came in and the driver is saying he has issues starting the truck when opt idle is engaged the truck will start and then shut down after 3 seconds and do this a few times, but if he selects disable all for opt idle then the truck will start just fine, he is also having issues with his a/c that I believe all this is tied to the opt idle he will be driving down the road and the hvac blower will be running full speed with a/c on and then it will kick down to a slower speed and wont allow you to adjust it unless sometimes he says he is able to hit disable all on opt idle and that fixes it other times he has to reset the clds switch to get it to reset and be able to use the hvac again. Any ideas I have searched solutions, forum, troubleshooting and the actual information on how opt idle works to see if I could come up with an answer and have not. Any help would be appreciated.

Tags: opt idle issues



[Talbert Simonian](#) 1,822 posts since Nov 21, 2014

Re: 2021 cascadia opt idle issues. Oct 9, 2020 12:44 AM

Do you have a VIN?



[Darius Ripp](#) 14 posts since May 1, 2017

Re: 2021 cascadia opt idle issues. Oct 9, 2020 4:28 AM

I apologize I forgot to add the vin its 3AKJHHDR8MSLU2320



[Jon Cecil](#) 901 posts since Nov 25, 2014

Re: 2021 cascadia opt idle issues. Oct 9, 2020 4:16 AM

To get a better understanding of how "Optimized Idle" works, look in section 8.20 of the GHG14 17 DDEC Electronic Controls A I Manual DDC-SVC-MAN-0127. The parameters listed in this manual might not exactly show up the same as it seems most of them pertain to GHG 14.

If the engine is stopping after 3 seconds of running, it sounds like the parameter for idle shutdown time is incorrect. I wonder if someone thought it was minutes and changed the parameter from 300 seconds (5 minutes) to 3 seconds (thinking it was 3 minutes.) I would review this. I would also save the parameters and compare parameters to OEM configuration to see if there are any differences.

Are there any faults for the HVAC issues? Have you been able to duplicate the complaint?



[Darius Ripp](#) 14 posts since May 1, 2017

Re: 2021 cascadia opt idle issues. Oct 9, 2020 4:25 AM

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So I was able to reproduce the complaint when op idle was turned on and the icuc was on the option screen when I started the truck it would shut down the truck after a couple seconds any other opt idle screen would kick the opt idle out and the truck would stay running, the company took the truck as is, the hvac I was never able to verify the complaint talked to the driver and he stated sometimes it would take a couple hours before it would happen but I guess he now said the fan speed had to be at 1130 and then it would not allow you to adjust it down or up after some time and fan speed would get slower until he shut clds off and reset it.



[Jon Cecil](#) 901 posts since Nov 25, 2014

Re: 2021 cascadia opt idle issues. Oct 9, 2020 4:29 AM

The opt idle should keep the engine running till the idle timer expires even if all other values are met. I really don't see how the HVAC issue could be tied into the opt idle if it's happening driving down the road.



[Darius Ripp](#) 14 posts since May 1, 2017

Re: 2021 cascadia opt idle issues. Oct 9, 2020 4:32 AM

Thats what I started to figure out I was originally going off what he was telling me but when truck is in gear you can't get into the opt idle selections so I really don't think its related

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Re: 2021 cascadia opt idle issues. Oct 9, 2020 4:36 AM

Also the idle timer is set to 2600 seconds so that's like 43 mins and the truck shuts it down in less than that

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[Devon Wartluft](#) 180 posts since Jan 31, 2018

Re: 2021 cascadia opt idle issues. Oct 9, 2020 4:47 PM

Wondering if certain conditions are already met at the time of shut. If your just doing battery mode. If the voltage is high enough(usually 12.4 but can be changed in parameters) and oil temp with its range (depending on the parameter) the truck will just shut off right away unit battery voltage is low enough or oil temp is cool enough to justify to the ecus to start.

Same goes for interior comfort mode. If the set temp in the sleeper is already within 7 degrees of the in the temp inside to truck it will just shut off unit the temp rises or cools outside that seven degrees. I've even seen it shut off right away but start the truck again with a few seconds of shutting off. It even will ramp up rpms at

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times to help cool/heat/charge batteries as quickly as possible. SB54-322 dives into the interior comfort mode parameters and operations.



[DiVan Liddell](#) 1 posts since May 9, 2018

Re: 2021 cascadia opt idle issues. Dec 17, 2020 2:08 AM

I'm curious on you found out with the opt. idle issue. I've been getting several complaints on 21 Cascadia's where drivers are stating that at times while in opt idle, the unit will start up and shut down within seconds and will do this a few times back to back. No fault codes or anything obvious that I can see. When testing at the shop everything seems to be working correctly. I thought it had something to do with interior comfort mode being a bit sensitive and trying to maintain an odd temperature and have been telling drivers to just make light adjustments hot/cold and see if it helps while I research the issue and find a true fix.



[Devon Wartluft](#) 180 posts since Jan 31, 2018

Re: 2021 cascadia opt idle issues. Dec 17, 2020 7:51 PM

yes small temp adjustments are the way to go with interior comfort mode.

I ran into this. Found that with the oil temp start was set higher than the oil temp shut down parameter. Causing a similar complaint. Both parameters are under opti idle in the parameter screen. It could of been a battery voltage issue as well.



[Darius Ripp](#) 14 posts since May 1, 2017

Re: 2021 cascadia opt idle issues. Dec 17, 2020 9:43 PM

So after truck left the shop it hasn't returned so I don't know if they took it elsewhere or just driving it and not worrying about it



[Devon Wartluft](#) 180 posts since Jan 31, 2018

Re: 2021 cascadia opt idle issues. Dec 17, 2020 9:52 PM

Also keep in mind from what I found with opti idle is that 90% of the "issues", drivers complaints. Is either driver error, driver education. A lot is temp related and no understanding that you cant set the ac at 60 degrees when its 90 plus sitting in the middle of the truck stop parking lot. That just doesn't work it will fault out the system.