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> SS 469076 Odometer racks up mileage when the vehi...

SS 469076 Odometer racks up mileage when the vehicle is stationary - Cascadia

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Applicable Vehicles

EPA 2007 Cascadia

Symptoms

Odometer racks up mileage when the vehicle is stationary, and/or other gauge issues such as a fluctuating boost gauge or voltmeter.

Discussion

To understand this issue, some background is necessary. On EPA 2007 vehicles, the engine broadcasts data on both the J1587 and J1939 datalinks. ICUs on EPA 2007 vehicles receive data from the engine via J1587. On EPA 2010 vehicles, the engine broadcasts data on the J1939 datalink only. ICUs on EPA 2010 vehicles receive data from the engine via J1939. Some customers purchasing EPA 2010 vehicles still had a need for J1587 engine data for satellite communication systems such as Qualcomm. To meet this need, Freightliner incorporated new functionality into the EPA 2010 Central Gateway (CGW) to rebroadcast J1939 engine data onto the J1587 datalink.

This causes no issues with EPA 2010 vehicles. However, if an EPA 2007 vehicle is upgraded with one of these EPA 2010 CGWs, problems such as the symptoms described can occur. The reason for this is the ICU in an EPA 2007 vehicle that has been upgraded with an EPA 2010 CGW will receive J1587 engine data from two sources: (1) directly from the engine, and (2) from the CGW based on rerouted J1939 data from the engine. Since the ICU receives the data from two sources, conflicts can occur which may result in the symptoms described. The solution is to disconnect J1587 from the CGW on EPA 2007 vehicles that have been upgraded with an EPA 2010 CGW.

Solution

If a CGW part number A06-74995-XXX (EPA 2010 CGW) has been installed in an EPA 2007 Cascadia, you must disconnect the J1587 datalink from the CGW.

NOTE: See the note in Service Bulletin 54-239 which addresses this.

NOTE: EPA 2007 Cascadias originally came with CGW part numbers A06-60974-XXX (EPA 2007 CGW).

Labels :

Cascadia
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epa07 freightliner gauges icu odometer p3

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3 Kudos

Comments



Randy_Smith

04-21-2015 01:34 PM

Although it doesn't apply directly to the Cascadia, I found a similar issue when the Century class first came out. This problem would manifest itself in a complaint of "the parking brake on, warning light and buzzer goes off intermittently" It took me a day to figure out the problem. I was fairly versed in qual comm at that time, and I went through the screens that monitored the 1587/1708 and found while idling the qual comm was (digitally) showing 1-2 mph. This could not be seen on the speedometer. The problem was the VSS was too close the chopper wheel. I fixed more of these that I can remember by simply adjusting the VSS out a little past 1/2 a turn. it appeared that the small amount of vibration from idle, coupled with too little sensor gap was sending a tiny amount of VAC to the ICU.

Randy Smith


3 Kudos



Kyle_Siebert

01-02-2017 12:54 PM

I couldn't find info on what part number to use to order a new CGW to match software compatibility levels per 54-239 service bulletin.

We replaced SAMs due to heavy corrosion. now at 14.38 and 14.28 but CGW is at 8.42.1 and MSF at 8.31.0. Both too low. MSF was replaced and now is at 13.25. Replaced the CGW and is still at 8.42.1 A06-60974-009 now, was at 005. I thought I saw a chart on ordering these somewhere but im having trouble. I'll just order this A06-74995-XXX and delete the J1587/ J1708/ orange and green circuits from the CGW.



Kyle_Siebert

01-02-2017 01:01 PM

SS 469068 Cascadia SAM Cab, SAM Chassis, MSF and CGW Hardware Compatibility
my bad. found it



Kyle_Siebert

01-02-2017 01:35 PM

Spread sheet isn't up to date on SS 469068

I guess I just have to use A06-74995-XXX, but im not sure what -xxx part number to use.



Robert_Cadell_J

01-02-2017 01:39 PM

Call the csc, they have the part number you need I had to 2 weeks ago

Rob "Doc" Cadell

Diagnostic Technician

TransChicago Truck Group BFW

Shorewood IL 60404

803 917 5397 cell

Keep digging you'll find the answer



Robert_Cadell_J

01-02-2017 01:43 PM

Cac, sorry

Rob "Doc" Cadell

Diagnostic Technician

TransChicago Truck Group BFW

Shorewood IL 60404

803 917 5397 cell

Keep digging you'll find the answer



Kyle_Siebert

01-03-2017 08:16 PM

they said to use the 74995 with whatever ending. I had a a06-74995-008 in stock, it worked. Removed j1587 and all good.

They mentioned that when the original CGW was ordered, there should have been a note in paragon as to which CGW to order with the type of SAMs and MSF in the truck.

I've never used paragon, so...



Robert_Cadell_J

01-04-2017 07:20 AM

I've seen it, notes like that can be added or maybe amend the service letter with the correct cgw and add the service buliten or this solution for reference

