

DTNA Solutions > Discussions and Feedback > Tech Talk

> my acm ambient air temp is maxed out any help plea...



+ Jesstin_Holtry

New User

11-30-2020 05:37 AM

my acm ambient air temp is maxed out any help please

can I get any help with this please.

Add tags



3 Kudos

Reply



Scott_Trippel

Wrench Turner

11-30-2020 06:33 AM

There is not enough information here to help you???

Maxed out?? what is that?

do you have a value?

what tells you it is maxed out?

What engine?

What do you see?

Got a VIN or serial?

Got any VT info?

Add tags



5 Kudos

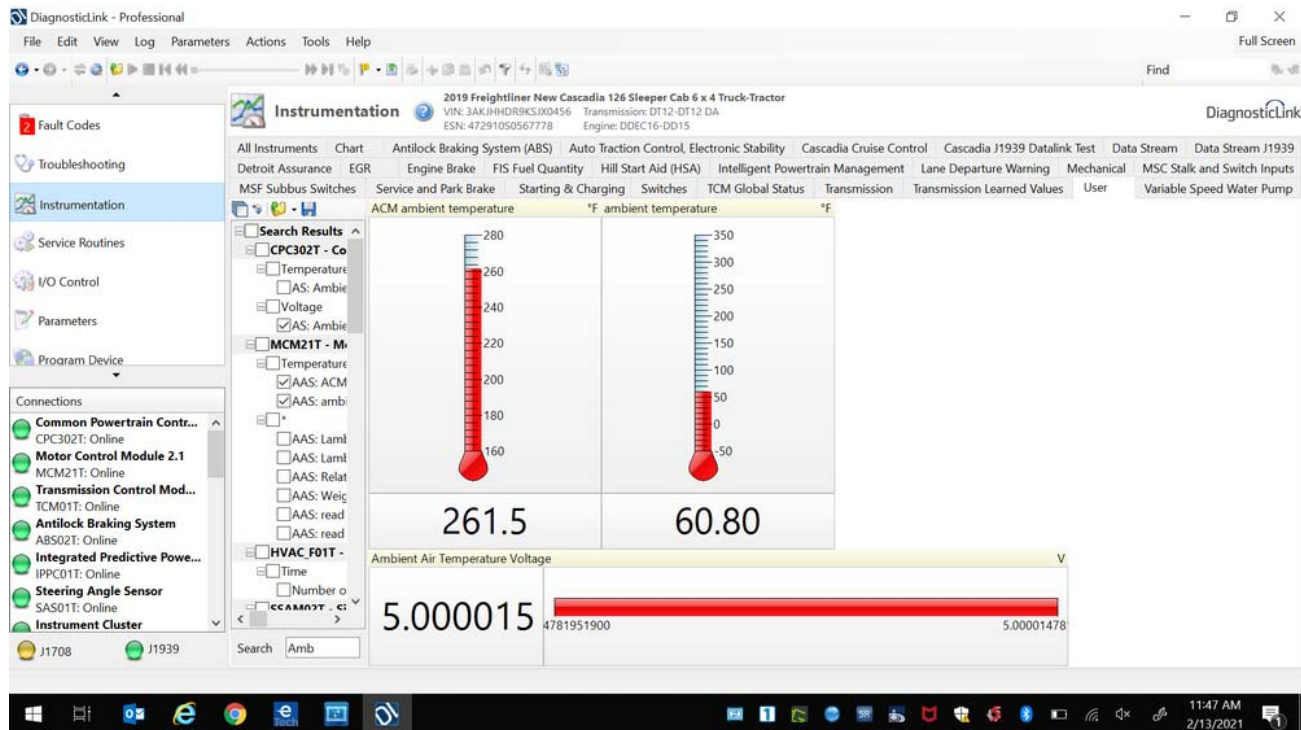
Reply



Penske_Lancaste

Lube Tech

3 weeks ago



Okay, I have some new information for you. not related to OPs unit. But same issues IMO.

2019 Freightliner P4 Cascadia

VIN - 3AKJHHDR9KSJX0456

Engine - DD15AT GHG17

Repeat faults of

CPC - 171/3

MCM - 171/3 and 171/19

ACM - 171/13

Followed simple troubleshooting for all faults. All wiring checks out. New sensor, still active faults after road test. I saw in a post recently (regarding 171/3 faults) that you (Scott) said these faults are due to a software issue? So I sent the unit on the way and submitted a ticket to get further information from Detroit. But upon reviewing my log file before sending ticket, I found the ACM ambient temp was reading 262 Degrees F, I'm guessing this is what OP meant by "reading max".

Now, the ambient temp was reading 63 Degrees in CPC. I'm thinking this fault is more related to the ACM readings then a software or wiring issue.

Anyone have any information as to how the ACM calculates ambient temp? And or ran into this before?

Add tags



0 Kudos

Reply



Penske_Lancaste

Lube Tech

3 weeks ago

Okay, hopefully I don't confuse anyone. Just had another unit come in for service right after my original comment.

2019 P4 Cascadia

VIN - 3AKJHTDV4KSLD3512

Engine - DD13

So, this also has the same exact fault codes.

CPC - 171/3

MCM - 171/3 and 171/19

ACM - 171/13

Found MCM instrumentation ACM reading was again 262 degrees. But when I went into the ACM instrumentation, ambient temp reading it was 60.80 degrees. So I went back and double checked previous log file. And went into actual ACM instrumentation and on the previous unit ACM was reading 60 degrees. So both units reading correctly.

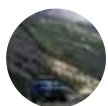
In conclusion, you are 100% correct. there is a software issue on Detroit's end causing the ambient temp faults, and possible calculation issue in it causing incorrect readings or compatibility.

Add tags



0 Kudos

Reply



 Scott_Trippel
Wrench Turner

2 weeks ago

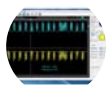
If you are referring to my post that the codes come active at -40C?
There is no software update, I merely asked for a fix and though a software update would fix it.
There is no repair at this time. I had notifoed DTNA 2 years ago and we have not been given
any repair plans

Add tags



0 Kudos

Reply



 Vincent_Goodwin
Apprentice

11-30-2020 09:02 AM

every time I have ran into this the ACM needed replaced.

Add tags



0 Kudos

Reply



 David_Lane
Lube Tech

12-01-2020 09:15 AM

If it's a new GHG17 engine, ambient air temperature comes from the MCM, and it's broadcast
over the PT CAN. The sensor is in the turbo air inlet elbow.

Add tags



0 Kudos

Reply



 Kyle_Siebert
Techie Technician

12-01-2020 04:18 PM

The ambient air temp comes from the driver mirror in a p4. I think that's why we need the vin.

Add tags



1 Kudo

Reply