

DTNA Solutions > Discussions and Feedback > Tech Talk > P3 ICU stays on Key Off



Dagan_Williams
Wrench Turner

05-26-2021 05:46 AM

P3 ICU stays on Key Off

Vehicle Information

VIN: 1FUGGLD55ELBR6200

Model: CASCADIA 125 INCH SLEEPER CAB

Model Year: 2014

Mileage: 801,310 miles

Make: FTL

Are you currently seeing this same issue on other DTNA vehicles at your location?: no

Base Model: CA125SLP

Vehicle Systems Involved

ELECTRICAL

OTHER SYSTEM (icu)

Driver complains when the key is turned off sometimes the ICU stays on. Have verified complaint and noted this only happens after the truck has been driven around the lot before keying off and does not occur through cycling the key or engine running. After cycling the key the ICU goes to sleep, have checked the IGN voltage at pin15 at the ICU while issue is active and have 1.2v, also checked IGN voltage at x6/16 at the SAM Cab and was the same as ICU. Nothing tied into the ignition circuit. No voltage present on the ground PNDB was replaced for relay sticking but this issue was occurring before replacement. What other circuits could be keeping the ICU awake?

Add tags



1 Kudo

Reply



Robert_Cadell_J
MacGyver

05-26-2021 08:20 AM

Is the ignition switch spinning or out of position, meaning key off, key should be in a straight line 12 o'clock to 6 o'clock. If the ignition switch has broken free or is spinning, check the wiring from the switch up if the wiring looks like someone made a rope you will have found your problem.

There was a service bulletin about this, remove the ignition switch, you'll see a notch in the dash, cut a small zip tie to fit in the gap between the dash notch and ignition switch, reinstall the black cover, ign switch will stop spinning around.

Add tags



1 Kudo

Reply



Robert_Cadell_J

MacGyver

05-26-2021 09:24 AM

bulletin 54-297

Add tags



1 Kudo

Reply



Jon_Cecil

Gear Head

05-26-2021 12:59 PM

There is a wakeup circuit could be the issue. Turning headlamps on without the key wakes up the ICU. Are the headlamps still on when it happens? I think there is a parameter for "Follow me home" which will have the headlamps on for a predetermined amount of time. Not sure if it could be related.

If a door is opened, the ICU will wake up as well. Are the dome lights staying on all the time? Do they work in the first place?

I have run into P4s where after I was done driving and turned off the key. The ICU stayed on for awhile. It wasn't till I opened the door and shut it again that it shut off shortly afterwards. I know P3s and the P4s are different but might have some similar programming.

If the problem is intermittent, SAM CABs get corroded by water intrusion. Pull the connectors on top of the SAM CAB and inspect for corrosion on the pins.

Add tags



1 Kudo

Reply



Cromwell_Smith

Grease Monkey

05-26-2021 02:52 PM

I REMEMBER A FEW YEARS BACK HAVING THE ALARM FOR THE AIR SUSPENSION DUMP SWITCH BACK FEEDING THE ICU, , DO REMEMBER HAVING THE CONNECTOR DISCONNECTED FROM THE ALARM AND WOULD BACK FEED, PLUGGED IN ALARM AND ICU POWERED OFF. TRY SEARCHING PAST ICU ISSUES.

Add tags



1 Kudo

Reply



Steven_Bell

Apprentice

05-26-2021 05:12 PM

I had P4 ABS module that wouldn't go to sleep that kept the ICU awake. Found it by removing all modules from the CAN until the ICU shut off.

Add tags



1 Kudo

Reply



Dagan_Williams

Wrench Turner

05-27-2021 06:52 AM

Ended up installing a test SAM cab after not finding much of anything else and the issue resolved. No corrosion in the SAM or any sign of water intrusion.

[View solution in original post](#)

Add tags



2 Kudos

Reply



Robert_Cadell_J

MacGyver

05-27-2021 09:11 AM

Great Job brother, Keep turning and burning.

Tags:

awesomejob

Add tags



0 Kudos

Reply

