

Modules not powering up after jumped.



[Ryan Ireland](#) 44 posts since Feb 22, 2016

Modules not powering up after jumped. Dec 31, 2020 6:52 PM

LS8142. unit came in got transmission replaced, ran out of oil. after transmission was installed unit was started and ran. shut unit off. Had new guy install driveline, trans wasn't in neutral. He used the jump cart to provide power, as batteries were only showing 4v, to get transmission to shift to neutral. Not sure why he chose this method other than using battery charger. After driveline was installed now truck will not start. Has codes on dash for CGW 500k performance, troubleshooting led to install test cgw, installed test and programmed it. Still no start. found CPC, MCM, ACM not coming online. CPC tries but then does not connect, however they populate in the j1939 in the lower section. checked all fuses. checked terminating resistors for cpc and acm, checked resistance at PTCAN start point connector. Tried installing test CPC, it will connect on PTCAN but the other PT modules do not connect, however when trying to program CPC it fails the programming and then will not connect until key is cycled. But if you leave the CPC alone and don't try to program it, cpc will stay online. I'm got tied up in this as the diag tech to figure it out other tech is one who installed transmission, had new guy helping him.

Unit has dd13 with eaton ultra shift.

tried disconnecting abs module and onguard to see if 500k performance code went inactive. Code still active with test/new CGW installed.

Has anyone ran into issue such as this and have they seen any negative side effects from using jump start booster as in frying modules? He did jump start at batteries and there is no signs of arcing on batteries as if he connected jumpstart cables backwards

Tags: jump start, cascadia no crank no start, eaton ultrashift



[Talbert Simonian](#) 1,855 posts since Nov 21, 2014

Re: Modules not powering up after jumped. Dec 31, 2020 9:03 PM

If you only have 4v that's a major issue there. It will not go to neutral or anything. even if you only jump start it you need to keep the battery voltage up.



[Ryan Ireland](#) 44 posts since Feb 22, 2016

Re: Modules not powering up after jumped. Jan 1, 2021 1:11 PM

he used a jumper, its the cart with batteries in it that you hold the button and it keeps high current to batteries while button pushed



[Ryan Ireland](#) 44 posts since Feb 22, 2016

Modules not powering up after jumped.

Re: Modules not powering up after jumped. Jan 1, 2021 1:14 PM

not sure if recall had been performed. right now I cannot get anything other than cgw to connect. have test cpc and acm and pt-can star point installed, trying to get the basics to connect.



[Michael Palumbo](#) 1,587 posts since Nov 13, 2014

Re: Modules not powering up after jumped. Dec 31, 2020 11:20 PM

LS8142 shows open recall D20M8. If they also did the recall, you might make sure they updated all the modules that needed updating to the correct software.



[William Fisher_Loc 0668](#) 7 posts since Oct 14, 2015

Re: Modules not powering up after jumped. Jan 1, 2021 6:02 PM

was the jump cart used set up for 12 and 24 volts if so did the new guy not knowing jumped with 24 volts



[Ryan Ireland](#) 44 posts since Feb 22, 2016

Re: Modules not powering up after jumped. Jan 4, 2021 1:17 PM

ours is a 12v only



[Jon Cecil](#) 925 posts since Nov 25, 2014

Re: Modules not powering up after jumped. Jan 3, 2021 6:16 PM

Cart could have been hooked up backwards. Wouldn't be the first time I've seen multiple modules damaged from hooking up jumper incorrectly.



[Ryan Ireland](#) 44 posts since Feb 22, 2016

Re: Modules not powering up after jumped. Jan 4, 2021 1:19 PM

the one we got would have to hold a override button if hooked up backwards or on a truck with less than 2v, not sure he knew about it.

I'm wondering why if it did fry all the modules, then why wont it connect when using new modules?



[Jon Cecil](#) 925 posts since Nov 25, 2014

Re: Modules not powering up after jumped. Jan 4, 2021 3:47 PM

Start out simple. Did the batteries get fully charged now since they were low on voltage? Have all the powers and grounds been verified at the modules? Have you gone through all datalink checks including resistances and voltages at each module? This can be done on the PTCAN and the 500K J1939. A way to verify the powertrain computers to be ok would be to hook them up the the bench tool to see if you could connect that way. What is the code you are getting?

Modules not powering up after jumped.



[Ryan Ireland](#) 44 posts since Feb 22, 2016

Re: Modules not powering up after jumped. Jan 6, 2021 2:38 PM

Found issue, feel like an idiot for not verifying myself and testing myself. After removing all modules again and terminating resistors. Load tested all datalink wires from the basics from CGW to CPC and from CPC to starpoint and from startpoint to ACM and MCM. Datalinks were good carried load. All original modules powered up and connected until I connected the Eaton TCM. Once the TCM was connected it was taking out the datalink. Load tested the wiring from the firewall to the TCM, tested good. Load tested from firewall to CGW on the j1930 500K datalink, tested good. Installed tcm from old transmission, transmission got replaced due to fluid leaked out and transmission ran dry, all was communicating after the older TCM was installed. Truck started. Performed clutch adjust reset in TCM and drove truck, all functioning as designed.

Couple lessons learned: 1. another point of just cause its new parts doesn't mean they cant be faulty, the new transmission came with new TCM; 2. Can't always trust what other technicians/foreman tell you about what diagnostics have been performed, was told truck started after transmission was installed-verified with installing tech it was not that's when the issue started- was also told they tried the old TCM onto the new transmission to see if it was a possible bad TCM- evidently they did not do that as well because that's how I got it to start. 3. Also learned that a j1939 communication problem can and will cause communication problems with other datalinks- the j1939 500k was being corrupted by TCM and was causing the CPC to no communicate with other modules on the PT-CAN.