Cummins ISX fault 5865

Daniel English 4 posts since Apr 19, 2018

Cummins ISX fault 5865 Jan 30, 2021 8:06 PM

2020 Cascadia MG7230 isx esn 80232037 Allison transmission

This unit has been here 3 separate times for a def pump always has the same fault code . each time I followed guidanz and load tested all the wires in the circuit . found nothing wrong and replaced the def pump. this time I got it .

Hooked up insite active fault 5865. followed guidanz diag. step 2 def pump signal wire resistance is out of spec measures 100k ohms . issue is on the freightliner side . load tested circuit - test failed . inspected wiring found rubbed wire on stand off bolt near rear of transmission on pass side . harness part number a66-09450-110 . pin 7 of connector atd_h_eng_def_tank_1a. for circuit 532d2. def pump motor cont sig.

see images attached figured id share I cant be the only one that has this issue

Tags: cummins isx fault 5865

Talbert Simonian *1,855 posts since Nov 21, 2014*

Re: Cummins ISX fault 5865 Jan 30, 2021 8:46 PM

Nice heads up on that Daniel. I think you may have help me on a customers unit that has a similar issue. Thanks.

Francois Tourigny *77 posts since Mar 8, 2019*

Re: Cummins ISX fault 5865 Jan 31, 2021 2:23 AM

Good job!

It's always harder to diagnose a short to low or high (ground wire / bat) than an open circuit. As the wire rub against frame or onto sharp edge, and with time, the oxidation will get into it and then lead to intermittent failed open fault code. Then this open wire will be easier to troubleshoot as you can load it and see it failed (and lead to satisfying sensation of pulling a wire that broke in your hands)

Sean Evans *473 posts since Nov 12, 2014*

Re: Cummins ISX fault 5865 Jan 31, 2021 10:48 PM

Shorts to ground are definitely the hardest problems to isolate. Alot of times when I get problems like this, I will take the truck down to the wash bay and steam clean the entire chassis. Once the truck is soaked in water the suspect circuit will usually have a few hundred ohms to ground. This method has worked very well for me on Allison transmission wiring in M2's.