

DTNA Solutions > Discussions and Feedback > Tech Talk
> Trailer ABS light on even when truck off



+ Adam_Mechanic

New User

01-19-2021 12:39 PM

Trailer ABS light on even when truck off

ok so we have a 2014 Freightliner Cascadia FR0752, when running down the road with any trailer the trailer abs lamp is off and everything runs smooth. We are a season plant nursery so our fleet of course sits over the winter. happened to notice this winter that if that truck is connected to a trailer for more than a day without running, the ABS light on whatever trailer it is hooked too is illuminated. If i unplug the 7 way and let it sit and then plug it back in, its still on. doesnt matter what trailer there is always hot power coming from the blue line on the 7 way and i am totally stumped why its doing this.

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Brakes | Air | and Hydraulic Systems

Cascadia

Electronics | Controls | Configuration | Communication | and Diagnostics

Freightliner

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Michael_Palumbo

King Pin

01-19-2021 04:04 PM



Curious annotation in parts pro:

ATTENTION!! TRUCK HAS BEEN MODIFIED CLICK HERE FOR INFORMATION! ALL INFORMATION DISPLAYED IN PARTSPRO IS REPRESENTATIVE OF THE VEHICLE'S ORIGINAL AS-BUILT SPECIFICATION. THIS VEHICLE HAS BEEN MODIFIED FROM ITS ORIGINAL CONFIGURATION. OTHER UNREPORTED ALTERATIONS MAY ALSO EXIST. SAL PDI Furnish and Install 4-Pin Trailer Connector at Back of Cab Parts Used: TC1004: 4 Pin Connector (1) 23-11276-011: Relay (1) A06-20891-000: Harness (1) Questions concerning modifications Please call (704) 278-6307 04/25/2013

Sounds like the R8 relay in the SAM chassis might be the issue. I often see the SAM chassis cover left off or missing resulting in corrosion of the SAM chassis fuses and relays.

In the attached SAM chassis chart you can see the power flow for the center PIN. Look for NOTE: R8

Whether you think you can or you think you can't, you're right. — Henry Ford

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2 Kudos

Reply



 Adam_Mechanic
New User

01-29-2021 01:22 PM

So if the cover has been on, and there is no corrosion in sight, and the relay has been replaced with a brand new one, im guessing its going to be safe to say that there is an internal short in the sam chassis board?

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0 Kudos

Reply



 Michael_Palumbo
King Pin

01-29-2021 06:50 PM

Is the new r8relay a 4 pin relay, without an 87a pin? If it is a 5pin relay or a 4pin without pin 87 then the center pin will be powered all the time.

If it is the correct relay, before condemning the SAM cab I would access the X55 connector and remove the x55 connector then remove wire 45 terminal from the connector then reconnect x55. This way you can determine if voltage is coming from SAM cab or if wire 45 is shorting to another voltage source.

Whether you think you can or you think you can't, you're right. — Henry Ford

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1 Kudo

Reply



 Ken_Bertram
Knuckle Buster

02-01-2021 02:21 PM

This is a memory test, we did this a few years ago. My notes say we installed 03-11276-022, a 4 pin NC relay, no pin 87, battery power to aux wire in trailer cord. We removed a 4 pin NO relay, no pin87a, ignition activated power to aux wire in trailer cord. The R8 note say that if a 5 pin relay (NO/NC) is used then you would have power to the trailer aux wire all the time. That may be the situation here, someone may have installed a 5 pin relay. The wall chart schematic shows both pin 87 & 87a connected to the aux wire in the trailer cord.

Ken Bertram

Currie Truck Centre Service Dept

2 Currie Drive

Barrie, ON

L4M 6E9

705 734 1953

<mailto:kenb@currietruckcentre.com> kenb@currietruckcentre.com

Add tags



1 Kudo

Reply



 Ken_Bertram

Knuckle Buster

02-01-2021 11:39 AM

We had a group of Cascadias a few years ago that were part of a fuel hauling fleet. Sample VIN GL4887, only had power to aux wire on 7 wire trailer cord when ignition was on. One of their requirements was to have constant battery power to the aux wire of the 7 wire trailer cord to power up the monitoring system on their trailers. They were not allowed to have the ignition on while they were in the "loading dock" taking on a load of fuel. We accomplished this by replacing the R8 relay with PN 03-11276-022, which is a NC relay. Could be that your truck has a NC relay in the R8 position.

The "R8 Note" on the wall chart attached earlier has an explanation of the relay types for that position.

Add tags



1 Kudo

Reply



 JON_EGGERS

Apprentice

05-20-2021 11:31 AM

There is a fuse that can be moved in sam chassis to supply either battery power or ignition power to trailer abs. Don't remember witch one but it is one with three pins in a row and you move fuse to connect the two pins as required to supply power. I believe it is marked as such.

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0 Kudos

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