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Options



Penkse_Shop_Kan
Knuckle Buster

12-07-2020 10:57 AM

2021 p4 jyst brakes drag alarm on all the time

VIN: MS2970 29k mileage

When park brake is released and after the 15 second delay the brake drag lights up and alarm goes on and stays on. I am the 5th tech to work on this and the driver is in a hotel I need help asap. I'm sure they tried to reprogram this.

So far I have had our tech line look over the programming and give it the ok.

We have ohmed out the wiring from the "aka" brake drag switch to the ssam and it is 0 checked ground and it seemed high at 22ohms but upon grounding the switch no change. Pulled the pin out of the x5 pin 24 connector on the ssam and it looked great seated good and good drag test. Tried a hard reset with battery cables off for 30 minutes no dice. it just says no value. I looked at the post on here for similar issues but can find one for jyst and staying on all the time. I have attached a log file .

I really appreciate any help thanks

Labels :

Brakes | Air | and Hydraulic Systems

Cascadia

Electronics | Controls | Configuration | Communication | and Diagnostics

New Cascadia

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380766.DrumrollLog

3 Kudos

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10 Replies

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Michael_Palumbo
King Pin

12-07-2020 12:10 PM



I recommend the P4 TS guide for the two highlighted codes.
When you find the codes in chapter 3.05, sSAM (33), look for **Check as follows**
What follows is the troubleshooting instructions.

2021 Freightliner New Cascadia 126 Sleeper Cab 6 x 4 Truck-Tractor
VIN: 3AKJHHR9M5MS2970
ESN: 47291050795001
Transmission: DT12-DT12 OA

The connected vehicle contains chassis devices with incompatible software versions. You will need to update these control devices using Program Device. Click here for more

Description	Number	Mode	Status
[UDS-11] ABS02T - Antilock Braking System			
SPN/FMI=1807/8 Steering Wheel Angle / abnormal frequency, pulse width or period	1807	8	not active
[UDS-33] SSAM02T - Single SAM			
Primary Air Pressure Sensor, Feedback - Voltage Below Normal, Or Shorted To Low Source...	520542	4	previously active
Secondary Air Pressure Sensor, Feedback - Voltage Below Normal, Or Shorted To Low Sour...	520543	4	previously active
Subbus switch missing	520880	13	previously active
[UDS-37] CGW04T - Central Gateway			
Lost communication with SCA	524033	31	previously active
[UDS-74] CTP01T - Common Telematics Platform			
No Communication with GPC module	520330	31	previously active

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


Add tags



1 Kudo

Reply



 Talbert_Simonia
King Pin

12-07-2020 02:35 PM

Are there any fault codes in the SSAM?


Add tags



0 Kudos

Reply



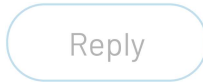
 Penkse_Shop_Kan
Knuckle Buster


12-08-2020 05:45 AM

It shows 520880/13 before I got to it, but there there where no codes when I was working on it. Also a the air switches where replace right before we got the unit 12-26770-000 and 12-6771-000 and are in the correct positions. We where able to change parameter BSC park brake drag to A0434477458-002 and there alarm went to only going off when parked not driving. ????. When switched back to the correct parameter it stayed on when driving back and forth.

The truck drove fine with no other issues. I think this was sent to the dealer after I got off so its gone . This was a last ditch effort to try and figure it out. Thanks for the replies

Add tags

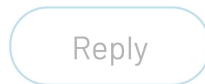



 Jesse_Gutierrez
Solutions Pro

12-08-2020 07:48 AM

another issue sometimes missed is there are poor connectors to the brake drag sensor themselves I have seen corrosion and loose terminals

Add tags



 Ian_Fournier
Knuckle Buster

12-08-2020 09:21 AM

have you checked in DL8 that the sensors are cycling on off or is it just stuck in one position as air pressure is building from say 50psi to 130psi. Should change states if you fan the brakes down till they dyno, park brake released. if it doesn't change states I would removed the drag sensor and see if your getting air pressure to that port in air manifold under dash, if you are it is commonly a faulty sensor or sometimes connection wiring issue.

note the brass inserts in plastic manifold are very easily loaded sideways when removing the sensors and leak air after which leaks to replacing the whole manifold. just be careful

Add tags



1 Kudo

Reply



Penkse_Shop_Kan

Knuckle Buster

12-08-2020 09:25 AM

It only says no value it doesn't change no matter what I did.

Add tags



0 Kudos

Reply



Ian_Fournier

Knuckle Buster

12-08-2020 09:43 AM

did you ohm it out with it unplugged at both ends?
ssam x5 pin 32 to pin 2 of drag switch? or with it plugged into sam side? I see you said you checked pin 24 but as per vin on my schem its inputs are 32 for drag then 31 and 30 for park brake switches.

so I would recheck your wiring from drag switch pin 2 to pin 32 on x5 of ssam

drawing number
G66-09816

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0 Kudos

Reply



Ian_Fournier
Knuckle Buster

12-08-2020 09:46 AM

after this I would then test to ground through the switch from pin 32 and cycle the switch if its truly switching and that input is getting to ssam on a non spread pin, I would replace faulty ssam

Add tags



1 Kudo

Reply



Penkse_Shop_Kan
Knuckle Buster

12-08-2020 10:48 AM

Yes unplugged ohmed wire x5 pin 32 my mistake went back and looked, as it sits on the sam plugged in it is the first vertical row on the left side from center 4 above 4 below very center terminal, unplugged pulled terminal out of plug(surprised we had the tool), drag test etc per all the other issues people have found on here with the ssam connector/terminals. It looks to only ground the switch so bypassing the ground to battery should show a something plus the switch is new

Add tags



0 Kudos

Reply



Mark_Smith_II
Grease Monkey

05-10-2021 09:09 AM

Thought I might piggyback on this one.

So, we get the complaint about the brakes may drag warning coming up on the dash, intermittently, ALL THE TIME. I have replaced so many brake drag switches. I have not seen the warning on all the time though like mentioned here, it's always been intermittent.

I have one here right now with this complaint. It's a JYST ser # MG4935. The driver says the drag switch was replaced recently but the issue came back. I am having the office try to find out from the company that info so I can see if the correct switch was replaced.

I only have the 520542/4 code present that is mentioned here, but that codes doesn't seem to have anything to do with brake drag, and the driver said it's the drag warning they see. I just found out there is no record that we can find that the brake drag switch has been replaced previously.

Most of the time on other trucks the switch isn't working right, when I can make the issue act up. Like, I pump down the brakes, release the brakes and put the unit into gear. as the air builds past the low air warning, it changes to the brakes may drag warning. When it's acting up I usually see the warning stay on to or just over 100 PSI and it should go away around 80 PSI. Are there any codes that are directly related to the brake drag switch I should look out for? Otherwise, I'm just going to keep replacing switches.

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0 Kudos

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