

New Cascadia Dump Switch not working



[Christopher Larkins](#) 2 posts since Jul 16, 2020

New Cascadia Dump Switch not working Feb 16, 2021 3:52 PM

Ok, so I have this New P4 Cascadia (Last of the **Vin# KG6688**) with 460k miles and the Dump Switch does not operated.

This is what I have observed so far:

- The Switch was replaced and still doesn't work. Swap the cables of the MSF and everything seems to be working
- On Diagnostic link I am able to see the Switch as "Present". If disconnected it changes to "Missing", and if I depress the switch it turns to green as if it is being recognized.
- I try Re flashing the SSAM and still wont work
- I looked for the Parameter but there are like 7 options. Try a couple but nothing so far
- Inspected the Latching solenoid under the truck and wires, pins, cables look free of corrosion or damaged.
- I have no code for MSF switch missing or anything

Please, at this point I have exhausted my options. Looking to get some help over here

Thanks



[Michael Palumbo](#) 1,620 posts since Nov 13, 2014

Re: New Cascadia Dump Switch not working Feb 16, 2021 10:05 PM

Wiring schematic G06-92193-000 is found in BOM 87d.

Your description indicates the problem is most likely in the wiring between the sSAM and the solenoid, the solenoid, the ground for the solenoid. Back probe sSAM connector X7, pin5 with you VOM +lead and place your VOM -lead to ground then activate the switch. If you see 12v then the sSAM and parameters are ok. You can do this same test by moving your +lead to the other connectors in the harness up to the consumer (solenoid).

With cold weather most of us are presently experiencing it might be possible the dump is iced closed.



[Christopher Larkins](#) 2 posts since Jul 16, 2020

Re: New Cascadia Dump Switch not working Feb 17, 2021 4:05 PM

Dear Michael Palumbo,

New Cascadia Dump Switch not working

I believe there is a parameter issue with the SSAM or the SSAM it self not doing the Output.
I back probe that connector just as instructed, and never got to see 12v.

I used to the following parameters:

Under Single Sam

Parameter ACS Suspension Dump

1. ACS Suspension Dump - Disable all features (It was originally here)
2. ACS Suspension Dump - Enabled
3. ACS Suspension Dump - Enabled 002
4. ACS Suspension Dump - Raise /Lower enabled
5. ACS Suspension Dump - Raise / Lower enabled 002

Non of this parameters seems to make the SSAM output the solenoid (there are other 5 more I have not tried, but they said some things about a buzzer)

I disconnected the x7 connector and jumped 12v to pin 5 and activated manually the solenoid and it worked perfectly fine. Then I jumped pin 35 no make it go up (Supply air).

It is almost conclusive that the SSAM is not doing what it is suppose to do, or I haven't selected the correct parameter. If this is the case, how can I fine the right parameter? or should I keep changing them until I try them all?



[Michael Palumbo](#) 1,620 posts since Nov 13, 2014

Re: New Cascadia Dump Switch not working Feb 17, 2021 9:48 PM

Unfortunately there is no A&I manual for the P4 truck. Trial and error is one option. Another might be a parameter comparison with a sister VIN. CHEC shows KG8881 to KG6695 as part of the same fleet. CHEC does not appear to be fully functional with P4 trucks yet. Your VIN does not list parameters at this time, otherwise it would be my choice to compare parameters. If you have one of those VINs in your area you could compare them. Have you tried to compare parameters with factory. [Comparing Parameters from the par file and the Server](#)



[Michael Palumbo](#) 1,620 posts since Nov 13, 2014

Re: New Cascadia Dump Switch not working Feb 18, 2021 1:17 AM

Is this one of the 5 you haven't tried yet?

New Cascadia Dump Switch not working

KG6688 Prod. Date: MARCH 28, 2018

information.

Bill of Material: 87D-C09205

Search Results

RT ID: M000_00000

Parts List: 87D-C09205

WIRING-SUSPENSION,REAR



Ref	SL	AD	Description	Part Number	QTY	UM	Alt Part Number
			:SPLICE-DUAL WALL, BLACK	A23-13823-000	1	EA	
			:PLUG-2CAV,DT,DUFDT06-2S-CE06,B	23-13148-213	1	EA	
			:TERM-FEM,MCP1.5K,0.5-1(20-16)	23-13209-730	3	EA	
			:TERM-FEM,S16,0.8-1(18-16)	23-13210-100	2	EA	
			:TERM-FEM,M2.8,1-2(16-14)	23-13211-421	1	EA	
			:TERM-FEM,M1.6,G-PLD,0.5-0.8	23-13211-520	1	EA	
			:TERM-FEM,MP280T,DBL,0.8-1	23-13213-140	1	EA	
			:LOCK-TERM,DT,2CAV,G,P012,PLUG	23-13303-016	1	EA	
			PARM -SSAM,ACS,SPNSN,EOA,DUMP	031 447 36 58	1	EA	
			MTL IN MOD 888 SUSP DUMP PP		R	EA	
			MTL IN MOD 910,RR SUSP PIPING		R	EA	
			MTL IN MOD 811 DRVR INFO MOD		R	EA	
			DASH LAYOUT IN MOD 320		R	EA	