

p4 dt12 wont go into gear.



[Tech01 Bridgeport](#) 9 posts since Dec 4, 2014

p4 dt12 wont go into gear. Dec 26, 2019 1:28 PM

unit wont shift out of neutral. dash telling me to press brake to complete shift. pedal is pressed, air pressure is up, brake lamps working as designed. i'm not sure if its stroke sensor in foot valve or stop lamp switch. I know its a 3 wire switch.



[Jon Cecil](#) 929 posts since Nov 25, 2014

Re: p4 dt12 wont go into gear. Dec 26, 2019 2:35 PM

Review [Read Before Posting - Info to Add to Every Question](#)

Have you monitored switches in DiagnosticLink?



[Tech01 Bridgeport](#) 9 posts since Dec 4, 2014

Re: p4 dt12 wont go into gear. Dec 26, 2019 2:51 PM

yes, I was monitoring the service brake switch and wasn't changing. I unplugged the brake lamp switch and plugged it back in, then everything worked as normal. I came in this morning and check truck, it sat in shop overnight, and the apply brake to shift lamp is coming on again. I unplugged the stroke sensor in the foot valve and it wouldn't shift but it also kicked a fault code. once I plugged it back in the faults went inactive. the brake lamps are working as designed, but I wasn't sure if the other side of the brake switch was my problem. im gonna connect to the ssam and monitor the service brake switch.



[Kyle Siebert](#) 4,151 posts since Nov 14, 2014

Re: p4 dt12 wont go into gear. Dec 26, 2019 4:00 PM

There are two switches in the sSam for brake. Something like a master brake switch and just brake switch.



[Tech01 Bridgeport](#) 9 posts since Dec 4, 2014

Re: p4 dt12 wont go into gear. Dec 26, 2019 4:39 PM

I REPLACED THE STOP LAMP SWITCH WITH NO CHANGE. I WENT TO INSTRUMENTATION AND MONITERED CPC-SERVICE BRAKE PEDAL- NOT PRESSED. SSAM- SERVICE MASTER-NOT PRESSED. SSAM- SERVICE BRAKE SWITCH- NOT ACTIVE. SSAM- SECONDARY SERVICE BRAKE- ACTIVE. STEP ON PEDAL AND ALL CHANGED EXCEPT CPC- SERVICE BRAKE PEDAL-NOT PRESSED. I HAVE ACTIVE FAULT ON ABS SIDE 1066/12 17 COUNTS- BRAKE SIGNAL TRANSMITTER, BAD DEVICE. 3509/4 - SENSOR SUPPLY VOLTAGE LOW. WONDERING IF ABS MODULE IS FAULTY...THANX GUYS.

p4 dt12 wont go into gear.



[Kyle Siebert](#) 4,151 posts since Nov 14, 2014

Re: p4 dt12 wont go into gear. Dec 26, 2019 4:51 PM

Always good to check the 2 battery and two grounds for the abs ecu. As well as the possible ignition circuit, [P4 Next Gen Cascadia ABS ECU ignition possibilities](#) .

Also, the ESC module and brake position sensor share the same ignition power from the abs ecu. I suppose it's best to back probe this circuit to verify no voltage to it, then unplug the brake position sensor and see if voltage comes back. I'd also check for missing plugs or seals on the brake position sensor, there was a issue with missing plugs in them.



[Kyle Siebert](#) 4,151 posts since Nov 14, 2014

Re: p4 dt12 wont go into gear. Dec 27, 2019 4:00 AM

[SS 1032911 ABS Fault Code SPN 1067 FMI 4 or 5 - Brake Signal Sensor 1 \(New Cascadia\)](#)

Sounds like the comment section has your exact issue. Did you get yours resolved?



[Tech01 Bridgeport](#) 9 posts since Dec 4, 2014

Re: p4 dt12 wont go into gear. Dec 27, 2019 1:08 PM

I FOUND CHAFED WIRES AT THE ESC MODULE. I REPAIRED THE WIRES AND ALL ABS FAULTS WENT INACTIVE. BRAKE PEDAL APPLICATION IS NOW READING CORRECT IN DDDL. PROBLEM NOW IS MY UNIT WONT CRANK. I THOUGHT MAYBE TRANS WAS IN BETWEEN GEARS. I AIRED UNIT UP THIS MORNING AND RELEASED THE BRAKES. IF I SWITCH TO REVERSE OR DRIVE, DISPLAY SHOWS STARTER LOCK, SHIFT TO NEUTRAL. I SHIFT TO NEUTRAL AND I GET NOTHING WHEN I GO TO CRANK. I AM NOT GETTING POWER TO THE S WIRE AT STARTER SOLENOID. PULLING MY HAIR OUT OVER A HOLIDAY ...ARGHHH



[Tech01 Bridgeport](#) 9 posts since Dec 4, 2014

Re: p4 dt12 wont go into gear. Dec 27, 2019 1:10 PM

ALSO THE ONLY FAULT I HAVE NOW IS LOW CURRENT TO BRAKE LAMPS. THIS IS IN SSAM. BRAKE LIGHTS SEEM TO BE OPERATING FINE.



[Tech01 Bridgeport](#) 9 posts since Dec 4, 2014

Re: p4 dt12 wont go into gear. Dec 27, 2019 1:37 PM

SO SORRY...3AKJHTDV4JSJB0188, 2019 P4 DAY CAB



[Kyle Siebert](#) 4,151 posts since Nov 14, 2014

Re: p4 dt12 wont go into gear. Dec 27, 2019 3:29 PM

p4 dt12 wont go into gear.

What Are the spn and fmi numbers of the sSam active fault code?

You could try clearing codes in diagnostic link, close connections, remove nexiq, key off, close doors and let it sit for 10 minutes. Then open the door and try to start. I had a abs code that wouldn't clear the other day till that was done.

Can you attach a log file of the no crank condition?

Compare SSam parameters to the server. Could be whoever worked on it before it came to the shop, changed parameters or triggered the sSam into thinking it has a neutral safety switch or something.

might try clearing codes and disconnect batteries for 15 min.

If we don't find anything in your log file or anything previously mentioned. I think we should save parameters in abs, sSAM, CGW and try abs ecu first thru 12.xx then if no resolution flash SSAM and CGW to update to the latest software level.

Whenever you think you may be dealing with changed parameters, remove the "data to upload" with your vin listed in it. It collects this data when you click on parameters. If you upload this to the server, the latest server data will now be changed to any incorrect parameters you may have on the ecu currently.



[Tech01 Bridgeport](#) 9 posts since Dec 4, 2014

Re: p4 dt12 wont go into gear. Dec 30, 2019 5:01 PM

I FEEL A LITTLE STUPID.. WHEN I UPDATED THE MCM IT CHANGED 3 PARAMETERS. ONE OF THEM WAS STARTER CONTROL. IT CHANGED FROM MCM CONTROLLED TO HARDWIRED. IT ALSO CHANGED LIMP HOME FROM AUTOMATIC TO MANUAL AND FAN FROM 1 SPEED TO MULTI SPEED. I CHANGED THESE 3 PARAMETERS BACK AND UNIT STARTED WITH NO FAULTS. THE ORIGINAL ISSUE WAS CHAFFED WIRED NEAR THE ESC MODULE. I DO APPRECIATE EVERYONES HELP. THANK YOU AND HAPPY NEW YEAR.



[Tanner Mahaffey](#) 1 posts since Aug 1, 2019

Re: p4 dt12 wont go into gear. Dec 27, 2019 10:45 PM

DD15,DT12, 2019 FTL NEXT GEN CASCADIA SLEEPER,KH4176

HAVING SAME ISSUE WITH A VEHICLE IN MY SHOP RIGHT NOW AS WELL.

UNITS FAULTS ARE

521002/14 DT12 AUTOMATIC MODE NOT AVAILBLE

1066/12 BRAKE SIGNAL TRANSMITTER/BAD INTELIGENT DEVICE OR COMPONETS

3509/4 SENSOR SUPPLY/VOLTAGE BELOW NORMAL OR SHORTED OPEN

UNIT WILL NOT GOING TO GEAR.

p4 dt12 wont go into gear.

FOUND SEVERAL RUB THROUGHES NEAR ESC AND ON FORWARD CHASSIS HARNNESS. REPAIRED AND NETHIER FIX ISSUE.

I HAVE TESTED OTHER VEHICLE AND FOUND SUPPLY VOLTAGE AT FOOT BRAKE VALVE ON FIREWALL IS SUPOSE TO BE 12V WITH KOEO. MY UNIT HAS 2.3 VOLTS WHEN ABS ECU CONNECTOR X2 IS WIGGLED HARNNESS PN A06-93861-000 MY VOLTAGE FLUXUATES FROM 2.3V TO 12V.

HOPE THIS HELPS.

I KNOW IVE BEEN STUGGLING. GOING TO RE PIN X2 CONNECTOR HOPFULLY THIS KEEPS IT FROM DROPPING OUT.

UPDATE : REPAIRED X2 CONNECTORS PINS AND UNIT NOW HAS NO FAULTS AND WENT FOR LONG TEST DRIVE NO ISSUES.



[Bertrand Boulay](#) 1 posts since Jan 29, 2019

Re: p4 dt12 wont go into gear. Feb 3, 2021 10:17 PM

Just experienced the same issue today, found pin tension on all pins to be loose, re-pinned x2 on abs module, all codes went away, was getting pwm 1/pwm2 open/short, brake transducer bad device or component, removed abs module from the electronics bay, all codes went inactive! noticed harness was secured very tightly, possibly spreading pins over time.(294,000 miles) removed each pin from x2 connector, and adjusted for a snug fit, no more issues..... a word.....wabco toolbox sucks! It will not show real time fault info most of the time. worst software i have ever used!