

ABS CAUSING TRANSMISSION ISSUE



[Travis Duff](#) 14 posts since Dec 30, 2014

ABS CAUSING TRANSMISSION ISSUE Dec 17, 2020 1:51 PM

HAVE A 2005 FREIGHTLINER M2 S/N N79155 IN THE SHOP RIGHT NOW WITH A SHIFT COMPLAINT. UNIT HAS NO FAULTS IN THE ABS OR IN THE ALLISON TRANSMISSION. IF YOU REMOVE THE ABS FUSE F16 THE ISSUE GOES AWAY. TEST DROVE UNIT WITH ALLISON HOOKED UP AND THE ISSUE DOES NOT HAPPEN UNTILL 25MPH AND AFTER. ALLISON SHOWS THE ABS GOING ACTIVE AND DOES NOT SHIFT RIGHT DUE TO THINKING THERE IS AN ABS EVENT. HOOKED UP WITH WABCO AND DROVE AGAIN. ALL THE WHEEL SPEED SENSORS ARE READING THE SAME. AT 25 MPH THE ABS GOES ACTIVE AND SHOWS IT ACTIVE IN WABCO. MONITORED THE BRAKE SWITCH AND IT IS READING RELEASED WHEN THE ISSUE HAPPENS. CHECKED POWERS GROUNDS AND IGNITION TO THE MODULES. THEY TEST GOOD AND LOAD TEST GOOD. CHECKED 1939 AT BOTH AS WELL. OHMS OUT AT 59 OHMS PIN TO PIN AND NO SHORTS TO GROUND. VOLTAGE READINGS ON THE DATALINK ARE 2.6V AND 2.4V. WHAT CAN TRIGGER THE ABS TO COME ACTIVE WITHOUT THE BRAKE PEDAL BEING APPLIED? ANY IDEAS MAY HELP AT THIS POINT. TCM AND ABS ECU HAVE BOTH BEEN REPLACED.



[Chris Vanboom](#) 171 posts since Nov 21, 2014

Re: ABS CAUSING TRANSMISSION ISSUE Dec 17, 2020 3:54 PM

I recommend pulling out 1 ABS wheel speed sensor at a time to see if the problem is being caused by an erratic reading from 1 sensor. Meritor Toolbox does not refresh fast enough to see fluctuations in speed sensors. I had one a few years ago where the modulator valve would go crazy above 40km/h - clicking non-stop loud enough to hear in the cab. The wheel speed sensor readings were all perfectly even on Meritor Toolbox, but when we pulled the left/front sensor out the problem went away. Turned out to be a warped tone-ring causing a speed fluctuation that could not be detected while monitoring wheel speeds on Wabco. Extremely rare case



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Re: ABS CAUSING TRANSMISSION ISSUE Dec 17, 2020 5:37 PM

THANKS FOR THE INPUT. I REMOVED THE RIGHT FRONT AND ROAD TESTED. ISSUE HAD WENT AWAY. REINSTALLED AND REMOVED THE LEFT FRONT. THE ISSUE RETURNED. ISSUE IS SOMETHING WITH THE RIGHT FRONT. IM TAKING IT APART NOW. THANKS AGAIN.



[Travis Duff](#) 14 posts since Dec 30, 2014

Re: ABS CAUSING TRANSMISSION ISSUE Dec 17, 2020 5:51 PM

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ISSUE FOUND. THE RIGHT FRONT TONE RING IS BENT AT ONE SPOT. CRAZY HOW IT DID NOT SET A FAULT OR SEE ANYTHING WATCHING ON THE LAPTOP.