

GHG17 WST 4900 Neutral Switch Not Valid...



[Ken Rose](#) 17 posts since Mar 19, 2018

GHG17 WST 4900 Neutral Switch Not Valid KT5750 Nov 4, 2020 12:35 PM

One our customers has DL and using Advanced Diagnostics to T/S code 3480/2. They are getting a procedure error DSL: Neutral Switch is not Valid when attempting to run a regen. This vehicle is a Manual Transmission. They say all the other switches are operating correctly. Has anyone else ran into this error? I am enclosing a screen shot.

This customer is in a remote location in Texas and I am trying to assist them best I can. Thank you in advance for assistance you can give.

- [KT5750 error.jpg](#) 271.2 KB



[Eric Bloom](#) 97 posts since Nov 10, 2014

Re: GHG17 WST 4900 Neutral Switch Not Valid KT5750 Nov 4, 2020 12:56 PM

IF IT IS A MANUAL TRANSMISSION THERE IS A NEUTRAL SWITCH ON THE TOP OF THE TRANSMISSION YOU WILL NOT REGEN IF THE ENGINE DOES NOT SEE A NEUTRAL SIGNAL FROM THE TRANSMISSION.



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Re: GHG17 WST 4900 Neutral Switch Not Valid KT5750 Nov 4, 2020 1:10 PM

Thank you. I didn't see a neutral switch in parts pro, but found a neutral light switch on roadranger.com for the RTLO16913A. I will have them investigate.



[Chris Vanboom](#) 163 posts since Nov 21, 2014

Re: GHG17 WST 4900 Neutral Switch Not Valid KT5750 Nov 4, 2020 3:25 PM

I know P4's use a neutral switch as an interlock because they don't use a clutch switch. I cannot find any evidence of a transmission neutral switch on this 4900 Star though. I have had to temporarily disable this parameter in the past in order to perform certain service routines - typically on Optimized Idle equipped units - which this truck also does not have...



[Eric Bloom](#) 97 posts since Nov 10, 2014

Re: GHG17 WST 4900 Neutral Switch Not Valid KT5750 Nov 4, 2020 3:43 PM

Chris doesn't 3dl need to see a neutral signal from the transmission to start a parked regen? weather you are using 3dl or the driver is sitting on the shoulder. i know on Allison this is a 1939 signal. we have had trucks in

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the past that have had a bad neutral safety switch and a regen would not start. i find it interesting that parts pro and ez wiring do not show anything for a neutral safety switch and wiring , BUT we have seen this in the past



[Chris Vanboom](#) 163 posts since Nov 21, 2014

Re: GHG17 WST 4900 Neutral Switch Not Valid KT5750 Nov 4, 2020 3:51 PM

There is no neutral indicator on a Freightliner 122SD with manual transmission, never has been. I assume the same for a WST 4900. The CPC parameter for neutral input will be set to "not available" on these trucks.

7.1.23 Inputs - Transmission Neutral Switch

This digital input when switched to battery ground indicates that the transmission is in neutral. An open circuit indicates in gear.

This input is required for Optimized Idle.

Installation

This input is wired to the CPC4 pin 4/16.

Programming Requirements & Flexibility

This digital input can be configured as listed in the following table:

Configuring the Transmission Neutral Switch Input				
Parameter Group	Parameter	Options	Default	Access
13	Trans Neutral Input Config	0 = Hardwired	0 = Hardwired DiagnosticLink Professional, VEPS	
		1 = ETC2 (SPN 523 and 524) or PTCAN (TCM)		
		2 = ETC5 (SPN 604)		
		255 = Not Available		



[Chris Vanboom](#) 163 posts since Nov 21, 2014

Re: GHG17 WST 4900 Neutral Switch Not Valid KT5750 Nov 4, 2020 4:16 PM

I checked the server parameters for this truck and found the neutral switch "not configured" - as it should be. This might be an Advanced Diagnostics glitch, can the regen be triggered through the Service Routines menu? In a worst-case scenario I guess you could enable the neutral switch and ground pin 4/16 to carry on with the troubleshooting. So nice to suggest this since the CPC is only 1 cable tie away from being in your hands on a 4900.



[Ken Rose](#) 17 posts since Mar 19, 2018

Re: GHG17 WST 4900 Neutral Switch Not Valid KT5750 Nov 5, 2020 2:28 PM

The customer has informed me that the vehicle will complete a stationary regen with DT using service routines. The customer states that the driver is saying it won't perform a stationary after 10 hr break, going to make sure auto elevate is on and go from there. I appreciate all your assistance

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Re: GHG17 WST 4900 Neutral Switch Not Valid KT5750 Nov 5, 2020 2:58 PM

IS IT SET FOR ZONE 1 TURN ON ?