

SS 3085-FTL2021 Cummins PTO functionality error software level 81Z-006

Applicable Vehicles

New Cascadia/Western Star 49X with Cummins engines combined with software level 81Z-006.

Symptoms

PTO #2 preset speed request via the cruise control resume button begins to ramp up the engine as expected, but defaults back to the first set engine PTO speed.

Issue

A programming bug in the central gateway (CGW) for software level 81Z-006 will not allow completion of the preset #2 PTO engine speed. During PTO speed request for anything greater than the #1 set speed, if the Cummins ECU software determines that the increase in speed isn't ramping fast enough, it will refer to an engine torque control setting instead of the engine speed control setting. The current CGW settings recognize only engine speed settings for the PTO ramp, so when the Cummins ECU switches to engine torque control, the CGW defaults back to engine speed control, aborting the request for any speed greater than the first set speed.

Solution

With the current CGW software, the #2 PTO preset engine speed is not attainable as desired. Holding down the resume switch until the engine is close in RPM to the #2 PTO setting, then tapping the resume switch may have some degree of success, but limited at best.

Pending release of updated CGW software, this mentioned issue can be managed by simply changing one parameter in the CGW. The parameter to be changed is located at the bottom of the CGW settings in Diagnostic Link . Find the parameter described as **GoTo_Initial_PTO_Speed** and set the value on the right side of the parameter to **no**. With this change, the PTO set speeds will work as desired.

Labels :

New Cascadia

Add tags

Attachments



Comment

Monitor parameter ECU37	A0154472227-001	ECU 37: VRDU not installed
Monitor parameter ECU39	A0154473227-001	ECU 39: DCMD installed
Monitor parameter ECU40	A0154473827-001	ECU 40: DCMP installed
Monitor parameter ECU44	A0154476027-001	ECU 44: ITH not installed
Monitor parameter ECU47	A0154477527-001	ECU 47: MUX3 not installed
Monitor parameter ECU49	A0274476027-001	ECU 49: IPPC not installed_NAFTA
Monitor parameter ECU50	A0154478727-001	ECU 50: MUX4 not installed
Monitor parameter ECU51	A0154479127-001	ECU 51: MUX5 not installed
Monitor parameter ECU53	A0154479627-001	ECU 53: MUX7 not installed
Monitor parameter ECU76	A0204473827-001	ECU76: CTP installed
Monitor parameter ECU92	A0274475027-001	ECU 92: HVCR not installed
SSR Allison Shift Panel	n/a	
Third Party PTO Engine RPM Control	n/a	
GoTo_Initial_PTO_Speed	A0294476127-001	no
Transmission_Retarder	A0294476227-001	Transmission Retarder = 0_0_0_0_0
XMC202T - Extension Module Cabin 2		
XMC02T - Extension Module Cabin		