

SS 753 - WST 47X & 49X PTO Engagement

Applicable Vehicles

47X & 49X vehicles built after 1/1/2023 with certain SSAM software and manual or Detroit transmissions.

Symptoms

PTO does not engage.

Issue

SSAM software may have non-functioning PTO parameters relating to clutch signals, if parameters are enabled they can prevent PTO engagement or PTO/Working engine speed control.

Solution

For affected vehicles use DL to set transmission bottom of clutch interlock (Manual and Detroit Transmission only) to "Function not available" for the affected PTO. For PT01 and PT02, the parameters can be found in the "Engagement Interlocks" section of the PT01 or PT02 Engagement Panel. For PT03, navigate to PTC PTO 3 Release domain/folder in the SSAM:

All Parameters	Compare Parameters	Compare Server Data	Cruise Control	Engine Protection	Enginee
Fan	Fleet Management	Global Variant Coding	Group Coding Strings	Idle and PTO Shutdown	Initialize C
Progressive Shift	PTO Speed Control	PTO1 Engagement	PTO2 Engagement	Speed Limiter	
Parameter	Part	Value			
PTO1 Request...					
PTO1 Engagement Interlocks...					
Ignore Interlocks After Engagement	A0404473158-001	Function available			
Park Brake Interlock	(from parent)	Function available			
Neutral Gear Interlock	(from parent)	Function available			
Engine Speed Interlock	(from parent)	Function not available			
Engine Speed Interlock Value	(from parent)	2000.0			
Vehicle not Moving Interlock	(from parent)	Function available			
Vehicle Speed Interlock	(from parent)	Function not available			
Vehicle Speed Interlock Value	(from parent)	2.0680			
Transmission Input Shaft Speed Interlock (DT12 only)	(from parent)	Function available			
Transmission Input Shaft Speed Interlock Value (RPM)	A0444474158-001	25.0			
Transmission Bottom of Clutch Interlock (Manual and Detroit Transmission only)	A0404475258-001	Function not available			
PPIC_pto1_Clutch_Closed	(from parent)	Function not available			
TEM Pin Interlock, SAM PIN X7-25	(from parent)	Function not available			
TEM SPN 3456 (Rx)	(from parent)	Function not available			
Idle Cab Throttle Interlock	(from parent)	Function not available			
PTO1_BCC_Headlight...	(from parent)	Function not available			

For affected vehicles experiencing the complaint of “PTO engages without PTO speed control”, use DL to set Top of Clutch Interlock, any PTO to “Function not available”:

All Parameters	Compare Parameters	Compare Server Data	Cruise Control	Engine Protection	Engineering Parameter Tool - Multi CPC	EWMA Reset	Fan	Fleet Management
Migration Plausibility	Optimized Idle	Progressive Shift	PTO Speed Control	PTO1 Engagement	PTO2 Engagement			
Parameter	Part	Value	Units	Minimum				
PTO Speed Control Interlocks...								
Vehicle Speed Control Interlock, any PTO	A0418473258-001	Function available						
Vehicle Speed Control Interlock Value	A0034431958-001	4.9770	mph	0.0000				
Service Brake Speed Control Interlock, all PTOs	(from parent)	Function not available						
Parking Brake Speed Control Interlock, all PTOs	(from parent)	Function not available						
Neutral Gear Speed Control Interlock, all PTOs	(from parent)	Function not available						
Vehicle not Moving Speed Control Interlock, any PTO	(from parent)	Function not available						
Idle Cab Throttle Speed Control Interlock, any PTO	(from parent)	Function not available						
PPIC_wesc_TPTOTsEmPTO12TMax	(from parent)	Function not available						
PPIC_wesc_TsEmPTOTsEmValue	(from parent)	0.00	s	0.00				
Top of Clutch Interlock Post Close Time Delay (seconds)	(from parent)	0.00	s	0.00				
Top of Clutch Speed Control Interlock, any PTO	(from parent)	Function not available						
IBM Interlock for Speed Control, XMC input Pin	(from parent)	Function not available						
PPIC_wesc_FTO1InputPin418AC	(from parent)	Function not available						
PPIC_wesc_Eng4psCtrlRdRd	(from parent)	Function not available						
CAN Event Interlock for Speed Control	(from parent)	Function not available						
PPIC_apl_Drwn_Rsq	(from parent)	Function not available						
Source of Speed Control TEM Interlock Switch Signal	(from parent)	ConfigurableDigitalInput0005						

If the application REQUIRES a clutch interlock and has XMC 3 and/or XMC4, contact the CAC. The customer may be able to utilize a custom CHEC parameter and custom wiring as a workaround.

Labels :

47X

49X

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