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Major System: CALIBRATION Created: 5/22/2024
Current Language: English Last Modified: 8/29/2024
Other Languages: NONE Author: Jeff Polich
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Coding Information

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Title: **S13 (EPA 2024) Calibration Revision History**

Applies To: **S13 Integrated (S13 Engine & T14 Transmission)**

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

09/23/2015 - Initial Article Release

DESCRIPTION

This article will provide the calibration revision history for S13 EPA 2024 engines.

NOTE: SDS calibrations will update to the most recent released calibration. The latest calibration content will include all previous released calibration content.

Current Calibration Release

S13 (EPA 2024) Cal Released on 08/28/2024	
MRC 24A33 and 24A34 to update calibration on trucks with S13 engines	
Perform MRC to get latest updates	
ECM Software ID: SxxxCJxA	
SPN 651-656 FMI 16 & 18 SPN 4257 FMI 16 & 18	Idle fuel quantity reducing false codes from logging
SPN 5395 FMI 16	Changed idle fuel for truck trucks with Allison transmissions
SPN 2659 FMI 10, 16 & 18	EGR monitor changes to reduce false codes from logging
SPN 102 FMI 10 SPN 1209 FMI 10	Boost Pressure monitor improvements
SPN 3936 FMI 31	HC Desorb Timeout changes
SPN 5835 FMI 13 SPN 3936 FMI 20	PM sensor updates to prevent false faults
SPN 6778 FMI 2	Aftertreatment Particular Sensor monitor changes from logging due to low battery voltage
	Add the following monitors ◦ (SPN/FMI) 2033/9 CAN message PTODE from BCM timeout ◦ (SPN/FMI) 1239/31 A small leak in the high-pressure part of the fuel system ◦ (SPN/FMI) 5395/16 Injected fuel quantity at idle higher than expected ◦ (SPN/FMI) 5571/7 MDV tripped at a lower rail pressure than expected ◦ (SPN/FMI) 5571/20 Mechanical dump valve tripped due to high pressure in rail ◦ (SPN/FMI) 12836/2 The first two of temperature sensors in the aftertreatment
	Accumulator Memory change to prevent loss of fuel used, engine run time and total distance from going to 0 during flashing. Affects ECM only
	Nox Sensor improvements
	Fuel reporting enhancements

	Compression Retarder Brake low activation changed to 800 rpm
	Software to support trucks built with an Allison
	Reduced complexity due to Oil level sensors (Navistar only offers one sensor)
	Adaptive Cruise Control improvements when approaching a vehicle
	Turbocharger 1 outlet pressure signal correction
ACM Software ID: SxxxDJKA	
	Fix issue of lost parameters during flashing
	Fix issue with DEF gauge reading 0% after flashing
PIM Software ID: SxxxBJKA	
	PTO enhancements
	Corrected mapping to several parameters
TCM Software ID: SxxxEHKA	
SPN 2005 FMI 09	Fault code improvements
	New parameter for Force Hold Neutral Feature
	Force Neutral Hold enhancements
	Clutch opening/ closing improvements enhancements due to low battery voltage
	PTO hot Shift Improvements

Previous Calibration Releases

S13 (EPA 2024) Cal Released on 03/29/2024	
ECM Software ID: SxxxCHxA	
SPN 105 FMI 20 SPN 110 FMI 20 SPN 175 FMI 20 SPN 1135 FMI 20 & 21 SPN 4360 FMI 2 SPN 3242 FMI 2 SPN 3246 FMI 2	More improvements to key on plausibility faults
SPN 6779 FMI 20	Aftertreatment Particular Sensor fault code enhancements
SPN 110 FMI 10 SPN 1659 FMI 18 SPN 1659 FMI 14	Prevent false faults for coolant temperature, unable to reach normal operating range
SPN 1072 FMI 10	Compression Release Brake (CRB) improvements
SPN 5397 FMI 31	Aftertreatment 1 Diesel Particulate Filter Too Frequent Regeneration monitor improvements
SPN 5319 FMI 31	Aftertreatment 1 Diesel Particulate Filter Incomplete Regeneration monitor improvements
SPN 5319 FMI 31	Aftertreatment 1 Diesel Particulate Filter Incomplete Regeneration monitor improvements
SPN 1322 - 1328 FMI 31	Misfire monitor improvements for false codes
SPN 4360 FMI 10	Aftertreatment 1 SCR Intake Temperature monitor improvements
SPN 3246 FMI 18	Aftertreatment 1 Diesel Particulate Filter Outlet Temperature monitor improvements
SPN 1413 - 1418	Corrected report that was showing values as "not available"
SPN 6779 FMI 20	Aftertreatment Particular Sensor enhancements due to low exhaust flow
SPN 105 FMI 20 SPN 110 FMI 20 SPN 175 FMI 20 SPN 1135 FMI 20 & 21	Key on plausibility change #2 to prevent false codes
	Park and driver demanded regeneration enhancements
	Soot load estimate improvements at 500 rpm
	Fuel injector adaption bug fix for low fueling
ACM Software ID: SxxxDHKA	
SPN 6802 FMI 14	DEF frozen monitor enhancements
PIM Software ID: SxxxBHKA	
SPN 629 FMI 12	Reduce faults for keep alive memory
	Auto Engine Speed Control ramp up improvements for standby and preset
	Gear Down Protection functionality improvements

	Enable engine braking during cruise control or adaptive cruise control when not paused
	Cruise Control minimum gear change thresholds
	Adaptive Cruise Control enhancements
	Update low battery thresholds
	Update low oil pressure accumulator type

S13 (EPA 2024) Cal Released on 01/02/2024	
ECM Software ID: SxxxCGxA	
SPN 102 FMI 10	Intake Manifold Pressure robustness improvements
SPN 1209 FMI 20	Exhaust Back Pressure 2 robustness improvements
SPN 105 FMI 20 SPN 110 FMI 20 SPN 175 FMI 20 SPN 1135 FMI 20 & 21	Key on plausibility fault changes due to rapid key cycle
SPN 1072 FMI 10	Engine Compression Brake, robustness improvements
SPN 110 FMI 10	Engine Coolant Temperature robustness improvements
SPN 1659 FMI 18	Engine Coolant Temperature robustness improvements
SPN 102 FMI 16 & 18	Intake Manifold Pressure robustness improvements
SPN 103 FMI 21	Engine Turbocharger Speed Sensor robustness improvements
SPN 4363 FMI 2	SCR temperature robustness improvements
SPN 4795 FMI 31	DPF missing robustness improvements
SPN 3216 FMI 12	Engine out NOX sensor robustness improvements
SPN 3226 FMI 12	Exhaust out Nox robustness improvements
SPN 3255 FMI 12	Engine Exhaust NOX 2 robustness improvements
SPN 3251 FMI 10	DPF differential pressure robustness improvements
SPN 158 FMI 18	Key on battery voltage improvements
SPN 628 FMI 12	ECM memory improvements
SPN 629 FMI 2	Changes to fan actuator and oil pump actuator from having the same fault code
SPN 2003 FMI 9 SPN 2011 FMI 9 SPN 2033 FMI 9 SPN 2039 FMI 9	Reduce CAN errors when using Service Diagnostic Solution (SDS)
SPN 3936 FMI 20	Differential Pressure Sensor robustness improvements
SPN 12836 FMII 19	Removed fault code due to duplication
SPN 970 FMI 7	New DTC for auxiliary shutdown
SPN 597 FMI 15 & 31	Brake switch robustness improvements
SPN 116 FMI 31	Brake application robustness improvements
SPN 603 FMI 15	Redundant brake switch improvements
SPN 4094 FMI 34	DEF quality Robustness improvements
SPN 524032 FMI 9 SPN 524042 FMI 9 SPN 524043 FMI 9	Reduce bus off CAN faults
	Power Take -off improvements
	Enable fuel level 2 monitor
	Coolant temperature fault code reaction improvements
	Fix regeneration counter
ACM Software ID: SxxxDGKA	
SPN 4331 FMI 18 & 21	DEF dosing quantity robustness improvements
SPN 6802 FMI 31	DEF dosing system frozen robustness improvements
SPN 168 FMI 17	Battery voltage improvements
SPN 7030 FMI 12	ECU robustness improvements
PIM Software ID: SxxxBGKA	
SPN 629 FMI 12	Disable fault during low battery conditions

SPN 603 FMI 2	Brake switch plausibility robustness
	Cruise control minimum gear change
	Updated low battery voltage accumulator thresholds
	Low engine oil pressure changes for engine protection
	Accelerator pedal position 2 corrected error state
	Support bodybuilder connector pin configurations

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Service Diagnostics Solutions Professional	SDS-Pro		
Service Diagnostics Solutions	SDS		

SDS PRO - [Tools Resource Center](#)
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