



Countries: CANADA, UNITED STATES Document ID: IK1201061
 Availability: ISIS, FleetISIS Revision: 0
 Major System: ENGINES Created: 1/29/2014
 Current Language: English Last Modified: 2/6/2014
 Other Languages: NONE Author: Charles Schroeder
 Viewed: 457

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Coding Information

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Title: SPN 3055 FMI 0 FRP exceeded maximum Troubleshooting

Applies To: EPA 2010 MaxxForce 11 / 13

SPN 3055 FMI 0 - FRP Exceeded Maximum

Condition / Description	Setting Criteria	Enable Conditions / Values	Time Required
Fuel Rail Pressure (FRP) above maximum pressure.	FRP greater than 34,000 psi (235,000 kPa)	Key ON Closed loop fuel rail pressure control	0.25 seconds

Fault Overview

Fault code sets when signal from the Fuel Rail Pressure (FRP) sensor indicates FRP exceeds 34,000 psi (235,000 kPa).

Malfunction Indicator Lamp (MIL) Reaction

MIL will illuminate when this fault is detected during two consecutive drive cycles.

Associated Faults

SPN 94 FMI 0 (FDP); SPN 157 FMI 3, 4, 20, and 21 (FRP); and SPN 633 FMI 3, 4, and 5 (FPCV)

Drive Cycle to Determine Fault Status

Drive Cycle 2 in 2013 HD-OBD Diagnostic Reference Manual.

Possible Causes

- Restricted high-pressure pump fuel return line
- Fuel Pressure Control Valve (FPCV) or circuit fault

Step	Action	Decision
1	Check fuel level. Read fuel level using the vehicle instrument panel gauge and perform a visual inspection of fluid level in the fuel tank. Is sufficient fuel in the fuel tank and not leaking?	Yes: Go to step 2. No: Add fuel or repair leaks, and prime engine.
2	Using Electronic Service Tool (EST) with ServiceMaxx™ software, check Diagnostic Trouble Code (DTC) list for SPN 157 FMI 3, 4, 20, and 21 (FRP); SPN 94 FMI 0 (FDP); and SPN 633 FMI 3, 4, and 5 (FPCV). Is the EST DTC list free of SPN 157 FMI 3, 4, 20, and 21; SPN 94 FMI 0; and SPN 633 FMI 3, 4, and 5?	Yes: Go to step 3. No: Repair SPN 157 FMI 3, 4, 20, and 21; SPN 94 FMI 0; and SPN 633 FMI 3, 4, and 5. See health report for link to diagnostics.
3	Check for restricted fuel return line. Perform HP Pump Fuel Return Pressure Test (page 174). Is pressure < 13 psi?	Yes: Go to step 4. No: Repair restriction in fuel return line between high-pressure fuel pump and fuel tank.
4	Check for a failed FPCV. Using EST, run the High Pressure Pump Test (see page 180). Does pressure differential remain < 1160 psi (80 Bar) throughout the test?	Yes: Verify each step was completed correctly and if SPN 3055 FMI 0 remains notify supervisor.

No: Replace Fuel Pressure Control Valve.

NOTE: After performing all diagnostic steps, if SPN 3055 FMI 0 remains, verify each step was completed correctly and the proper decision was made. Notify supervisor for further action.

Qty	Part Description	Part Number	Step	SRT Description	SRT link	SRT(hr)	Group	Noun
1	Fuel Pressure Control Valve (FPCV)	7092109C91	4	Electronic Engine Control Sensors/Valves (MaxxForce 11/13), Replace	A12-5034	1.5	12-Engine	454

Diagnostics Description	SRT link	SRT (hr)
High pressure fuel return pressure test	R12-2192U	0.3
High-Pressure Fuel Pump Run-Up Test	R12-2061L	0.1

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