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Availability: ISIS, Bus ISIS, FleetISIS, Body Builder

Major System: ENGINES

Current Language: English

Other Languages: NONE

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Coding Information

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Title: SPN 3251 FMI 2 & 21 DPFDP above or below desired level diagnostics

Applies To: 2010 + MaxxForce DT, 9, 10, N9 & N10 (ESN 3,300,000 and later)

CHANGE LOG

NOTE: DO NOT delete this Change Log. If this iKnow Article is being revised, please type in the text box below what has changed in the article. The change log is meant for Dealers to be able to see what has updated/changed in the article.

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

- 10/23/2015 - Updated warranty information section.
- 6/1/2015 Author updated for feedback purposes.
- 12/22/2014 - Steps updated for clarification.
- 10/21/2014 - Snap Throttle note added.
- 8/21/2014 - Initial Article Release

DESCRIPTION

Supplemental diagnostics for fault code SPN 3251 FMI 2 & 21 DPFDP above or below desired level

SYMPTOM(s)

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

- SPN 3251 FMI 2 & 21 DPFDP above or below desired level (active, inactive or pending)

Customer Complaint(s):

- Frequent regens
- Engine warning light
- Unable to regen
- Black smoke

DIAGNOSTIC STEP(s)

Step	Action	Decision
1	Inspect the DPFDP tubes and hoses for plugging, kinks or cracks are any defects noted?	A: Yes repair and retest for the fault. B: No and high DPFDP is suspected due to differential pressure spikes proceed to step 2. C: No and low DPFDP is suspected due to rapid drops in differential pressure proceed to step 3.

Step	Action	Decision
2	Do a DPF reset in Service Maxx (See figure 1) -->parameters-->CDPF_reset--> yes-->program engine cycle the key off, then hold at WOT for 5 min, then road test. Did the fault return?	Yes: Perform symptom 3 (MEDIUM DUTY): SPN 3719 OR SPN 3936 ACTIVE ONLY OR FREQUENT REGENS (MORE THAN ONE PARKED REGEN PER DAY) in the Aftertreatment Diagnostic Manual 000003081 . No: Repair completed.

Step	Action	Decision
3		

Test with snap accel test to check for black smoke, is black smoke present?	Yes: Continue symptom 5 (MEDIUM DUTY) : BLACK SMOKE in the Aftertreatment Diagnostic Manual 0000003081 No: Remove DPF and inspect for defect and compare to reuse guidelines in Aftertreatment Diagnostic Manual 0000003081 if no defects found then go to step 4.
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Step	Action	Decision
4	All steps have been completed, and SPN 3251 FMI 2 DPFDP above or below desired level is still active.	Perform the pin drop test using ONLY an FSX approved testing rod to determine if there is internal DPF melting or defect. If no defects found then go to step 5.

Step	Action	Decision
5	Reinstall the DPF and retest for the issue.	If the issue has been resolved it was most likely a mounting or gasket issue.

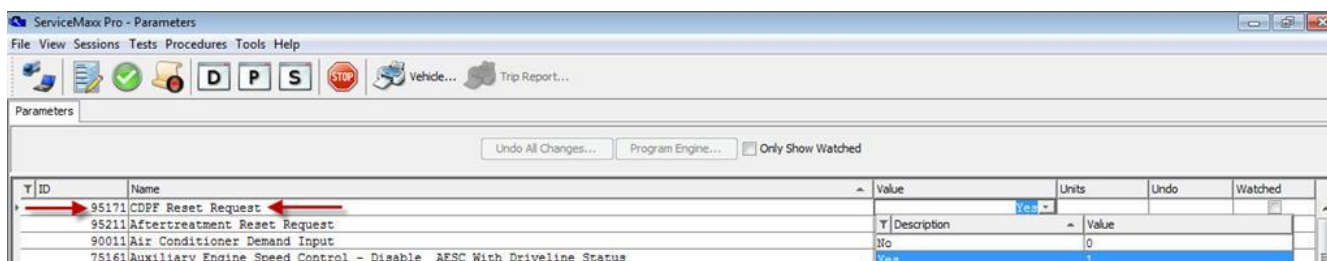


Figure 1:

REMOVAL & INSTALLATION PROCEDURE

Follow Exhaust aftertreatment and diesel particulate filter (DPF) service manual for your vehicle (S07003 - S07006)

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	12000 - ENGINES
Noun:	235 - Diesel Particulate Filter
	575 - Sensor, DPF differential pressure
	577 - Tube, DPF differential pressure sensor


Standard Repair Times:

Description	Chassis	Engine	Qualifier 1	Qualifier 2	SRT	Hours
DIESEL PARTICULATE FILTER (DPF), R & R AND/OR REPLACE	7000	All Engines	Horizontal Mount Under Cab		A12-4930	Click Here for Hours
	Models, ALL	All Engines	Horizontal Mount Under Frame		A12-4932	
	Models, ALL	All Engines	Vertical Mount		A12-4934	
ELECTRONIC ENGINE CONTROL SYSTEM OR SCR SYSTEM (FAULT CODE/CIRCUIT), DIAGNOSIS (DPFDP Sensor/Tubes Diagnostics)	HC Bus	MAXXFORCE DT/9/10 2010 Emissions			E12-2953T	Click Here for Hours
	CE / BE	MAXXFORCE DT/9/10 2010 Emissions			GY12-2953T	
	CE / BE	N 9/10			GY12-2953TS	
	RE	MAXXFORCE DT/9/10 2010 Emissions			I12-2953T	
	4300,4400	MAXXFORCE DT/9/10 2010 Emissions			KL12-2953T	
	4300,4400	N 9/10			KL12-2953TS	

	7300, 7400, 7500	MAXXFORCE DT/9/10 2010 Emissions			M12-2953T	
	7300, 7400, 7500	N 9/10			M12-2953TS	
DPF DIFFERENTIAL PRESSURE SENSOR, REPLACE	Models, ALL	All Engines			A12-8575A	Click Here for Hours
EXHAUST PRESSURE DIFFERENTIAL SENSOR TUBE(S), REPLACE	Models, ALL	MAXXFORCE DT/9/10	2010 Emissions	ONE	A12-6577T	Click Here for Hours
	Models, ALL	MAXXFORCE DT/9/10	2010 Emissions	BOTH	A12-6577T-20	

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