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Coding Information

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Title: MAF Calibration Failure - DTC 132-14

Applies To: 2010 MY Emissions MF 7 (V179 6.5 OBD)

CHANGE LOG

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

10/5/15 - Added OBFCT
 04/23/2015 - 1st Draft

DESCRIPTION

This document will guide the user through Mass Air Flow (MAF) calibration procedures.

SYMPTOM(s)

- MAF sensor Calibration Failed fault code after MAF Cal. procedure
- Low power
- Misfiring
- Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
SPN 132 FMI 14	MAF sensor Calibration Failed

Customer Observations or Concerns:

Generally there is no Customer complaint as this fault is triggered when attempting to perform a MAF calibration

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
EST with ServiceMaxx			
EST to vehicle interface			

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
N/A - no parts necessary for procedure			

DIAGNOSTIC STEP(s)

Step	Action	Decision
#1	Does fault code <u>132-14</u> come active after MAF calibration attempt?	Yes. Go to Step 2
		No. Repair complete

Step	Action	Decision
#2	Entry conditions must be met to perform MAF Cal: - Must run KOER Standard Test first - Engine Coolant Temperature 1 (above 176 F) - Engine Oil Temperature (above 176 F) - Engine Speed (Low Idle Speed) - Accelerator Pedal Position (0%) - Brake Switch (Released) - Parking Brake Switch (Set) ** Only calibrate the MAF if one of the following conditions occurred: - SPN 132 FMI 13 is set - ECM calibration update - Repair MAF sensor or circuit fault - Repair IMP sensor or circuit fault - Repair IMT sensor or circuit fault - Replacement of DPF or DOC - Repair of the Intake Air System - Repair of the CAC system - Repair or replacement of Turbocharger - Repair or replacement of Engine Throttle Valve - Repair or replacement of EGR valve - Repair base engine (Cylinder head, Pistons, camshaft)	Yes. Go to Step 3
		No. Repeat Step 2

- Engine replacement or rebuild ** MAF Calibration Pre-checks: - No Active fault codes, other than the SPN 132 FMI 13 - MAF and IMP are within KOEO specification - DPF Status = Regen Not Needed - No leaks in the Intake Air System - No leaks in Exhaust system - No shop exhaust hose attached - No engine performance issues - No engine misfire issues - Transmission in Park or Neutral - Clutch disengaged - Engine Fan is off - PTO is disabled - Air Conditioning is off - Accelerator Pedal not depressed - Close Engine Hood Have all entry conditions been met?	
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Step	Action	Decision
#3	• Run engine to operating temp. • Turn engine off. • Remove fan belt. • If equipped, remove PTO, Air compressor, Dual A/C compressor and wheel chair lift belt. • Run engine and perform Standard Test. • Run the MAF calibration. • Once complete you will be prompted to cycle the key. NOTE: Make sure you cycle ignition off for at least 30 seconds. This will prevent ghost over-boost faults from coming active.	Yes. Go to Step 4
	• Reinstall belt(s), clear codes. Is fault code <u>132-14</u> active?	No. Repair complete

Step	Action	Decision
#4	• Run engine to operating temp. • Perform an OBFCT. • Turn engine off. • Remove fan belt. • If equipped, remove PTO, Air compressor, Dual A/C compressor and wheel chair lift belt. • Run engine and perform Standard Test. • Run the MAF calibration. • Once complete you will be prompted to cycle the key. NOTE: Make sure you cycle ignition off for at least 30 seconds. This will prevent ghost over-boost faults from coming active.	Yes. Review with Lead or Senior Tech. Do not open a case file unless all resources within the Dealership have been exhausted.
	• Reinstall belt(s), clear codes.	No. Repair complete

Is fault code **132-14** active?

REPAIR STEP(s)

N/A

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	12000 - Engines
Noun:	993 - Sensor, Mass Air Flow (Chassis Mounted)

Standard Repair Time(s):

Description	Chassis	Engine	SRT	Hours
CALIBRATE (MAF) SENSOR, PERFORM	All	MaxxForce 7 (2010-2013 Emissions)	A12-6171X	0.2
ACCESSORY DRIVE BELT (SERPENTINE), REPLACE	BE/CE	MaxxForce 7 (2010-2013 Emissions)	G12-3001J	0.3
ACCESSORY DRIVE BELT (SERPENTINE), REPLACE	4100	MaxxForce 7 (2010-2013 Emissions)	J12-3001J	0.3
ACCESSORY DRIVE BELT (SERPENTINE), REPLACE	4300 M7	MaxxForce 7 (2010-2013 Emissions)	K12-3001J	0.3
ACCESSORY DRIVE BELT (SERPENTINE), REPLACE	A/E Bus	MaxxForce 7 (2010-2013 Emissions)	TG12-3945X	0.3
ACCESSORY DRIVE BELT (SERPENTINE), REPLACE	TerraStar	MaxxForce 7 (2010-2013 Emissions)	TS12-3945X	0.3
With Air Compressor	All	MaxxForce 7 (2010-2013 Emissions)	A12-600-1	0.1
ON-BOARD FILTER CLEANLINESS TEST, PERFORM	All	MaxxForce 7 (2010-2013 Emissions)	A12-2235A	0.3

OTHER RESOURCES

[MaxxForce 7 Diagnostic Manual](#)

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