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**Current Language:** English

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**Other Languages:** [Français](#), [Español](#).

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Coding Information

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**Title:** 2007 EPA MaxxFORCE® 11/13 - DTC 1628 Lambda Sensor Temp above Maximum

**Applies To:** 2008 - 2009 MaxxFORCE® 11 and 13

## CHANGE LOG

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

07/17/2019- Responded to feedback via email, updated Lambda and engine harness part #'s.  
 8/17/2017 - Author updated for feedback purposes.  
 6/25/2015 - Formatting changes/Title change for easier search

Please leave feedback to improve this article.

## DESCRIPTION

This document will guide the user through the troubleshooting of DTC 1628 Lambda sensor Temp above Maximum.

## SYMPTOM(s)

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

DTC/Light	Description
1628	Lambda Sensor Temp above Maximum

**Customer Observations or Concerns:**

MIL: YES  
 Performance: Low Power  
 Noise: NA

## SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
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Thermal Temperature Gun	NA	Obtain locally	
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## SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
SENSOR LAMBDA	3006233C1	1	
HARNES ASM, SENSOR ENGINE	3006649C91	1	

## DIAGNOSTIC STEP(S)

Step	Action	Decision
1	<b>DIAGNOSTIC: Verify state of DTC</b> <ul style="list-style-type: none"> <li>Connect EST</li> <li>Open ServiceMaxx and connect to the engine</li> </ul> Is DTC 1628 Lambda Sensor Temp above Maximum Active?	Yes. Proceed to Step 2
		No. Diagnostics are complete.

Step	Action	Decision
2	<b>DIAGNOSTIC: Replacement History</b> Did the fault code log after replacement of the Lambda Sensor?	Yes. Proceed to Step 3
		No. Replace Lambda Proceed to Step 3

Step	Action	Decision
3	<b>DIAGNOSTIC: Lambda Adaptation</b> <ul style="list-style-type: none"> <li>Run the engine up to operating temp &gt;140°F</li> <li>Using a thermal temperature gun verify that the exhaust temperature is &gt;220°F.</li> <li>Verify the Engine Brake Switch is in the off position</li> <li>Drive the vehicle at a steady state &gt;25mph with the engine speed between 1600-1800rpm</li> <li>Release the throttle pedal allowing the truck to coast down until the engine rpm is &lt;900rpm</li> <li>Adaption procedure is complete</li> </ul> Is the code still active?	Yes. Repeat Step 3 if the problem persists proceed to step 4.
		No. Diagnostics are complete.

Step	Action	Decision
4	<b>DIAGNOSTIC: Replace Engine Sensor Harness</b> <ul style="list-style-type: none"> <li>Replace the Engine Sensor Harness.</li> </ul>	Yes. Proceed to Step 5

Step	Action	Decision
5	<b>DIAGNOSTIC: Lambda Adaptation</b> <ul style="list-style-type: none"> <li>• Run the engine up to operating temp &gt;140°F</li> <li>• Using a thermal temperature gun verify that the exhaust temperature is &gt;220°F.</li> <li>• Verify the Engine Brake Switch is in the off position</li> <li>• Drive the vehicle at a steady state &gt;25mph with the engine speed between 1600-1800rpm</li> <li>• Release the throttle pedal allowing the truck to coast down until the engine rpm is &lt;900rpm</li> <li>• Adaption procedure is complete</li> </ul>	<b>Yes.</b> Repeat Step 5 if the problem persists Contact Tech Services
		<b>No.</b> Diagnostics are complete.
Is the code still active?		

## **REPAIR STEP(S)**

NA

## **WARRANTY INFORMATION**

### **Warranty Claim Coding:**

<b>Group:</b>	12000 - Engines
<b>Noun:</b>	768 - Sensor, Exhaust Lambda

### **Standard Repair Time(s):**

Step	Description	Chassis	Engine	SRT	Hours
2	Replace Exhaust Lambda Sensor (ELS)	All	MaxxForce 11/13	<a href="#">A12-5040</a>	1.1 hr.
3/5	Lambda Adaption	All	MaxxForce 11/13	Tech Time	0.5 hr.
4	Engine Sensor Harness Replace	Prostar 122 BBC	MaxxForce 11/13	<a href="#">R12-8687L</a>	3.6 hr.
4	Engine Sensor Harness Replace	Prostar 113 BBC	MaxxForce 11/13	<a href="#">R128687L-20</a>	3.6 hr.

### **Claim SRT Example:**

### **Claim Comment Suggestion:**

### **Special Requirement(s):**

## **OTHER RESOURCES**

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