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**Other Languages:** NONE **Author:** Dan Myers  
**Viewed:** 459

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Coding Information

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**Title:** VT365 Engines - Fault Code 327 (SPN 110 FMI 2)

**Applies To:** 2004 - 2006 VT365 Engines

## CHANGE LOG

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

7/28/2015 - Formatted Article  
 7/06/2015 - Add customer Observations or Concerns information  
 04/20/2015 - Add DTC info  
 04/13/2015 - Initial Article Release  
 04/03/2015 - revise snapshots

## DESCRIPTION

This document provides Diagnostic and Repair Procedures for Active Fault Code 327 (SPN 110 FMI 2).

## SYMPTOM(s)

DTC/Light	Description
327 SPN 110 FMI 2	Unlisted diagnostic fault code
325 SPN 110 FMI 14	Power reduced, matched to cooling system performance

### Customer Observations or Concerns:

- EWL comes on
- EWL may cycle on/off
- Engine de-rate
- Noticeable power loss without an EWL

## SPECIAL TOOL(s) / SOFTWARE

Tool Description
EZ Tech
ServiceMaxx
Interface

## SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required
Cooler, Oil	See Parts Online for appropriate ESN	As Needed

## DIAGNOSTIC STEP(S)

### Conditions to meet for Fault Code 327 (SPN 110 FMI 2) to come active:

DTC 327 (SPN 110 FMI 2) is set by the ECM when ECT or EOT exceeds 107 °C (225 °F). At this temperature, the ECM will reduce fuel delivered to the engine to reduce heat produced. For each Celsius degree of temperature increase, fuel will be reduced 6%. As temperature is reduced the compensation level is reduced until the temperature drops below 107 °C (225 °F) and the DTC will become inactive and normal engine operation is resumed.

DTC 327 (SPN 110 FMI 2) is set when EOT exceeds ECT by the allowable limit for eight seconds or more. ECT or EOT must be greater than 75 °C (168 °F) before this feature is active.

DTC 327 (SPN 110 FMI 2) is also set whenever the Amber Warning Light is illuminated by another fault code. It is important to review the Health Report to determine if DTC 327 (SPN 110 FMI 2) has been set by an event or as a result of another fault code.

Figure A below shows typical EOT & ECT behavior

Figure B below shows EOT exceeding 107 °C (225 °F) thus triggering an Active 327 (SPN 110 FMI 2)

Step	Action	Decision
#1	<p>Are any Engine codes active <i>other</i> than 327 (SPN 110 FMI 2)?</p> <ul style="list-style-type: none"> <li>• Use ServiceMaxx to compare EOT &amp; ECT readings.</li> <li>• Use the examples below to aid in diagnostics.</li> </ul>	<p><b>Yes.</b> Refer to Engine Diagnostic Manual EGS-240 &gt; Appendix B-Diagnostic Trouble Code Index &gt; Diagnostic trouble code index.</p>
		<p><b>No.</b> Go to Step 2</p>

### Normal Engine Oil & Engine Coolant Temperatures

Step	Action	Decision
#2	Are your results similar to this example?	<p><b>Yes.</b> Refer to Engine Diagnostic Manual EGS-240 &gt; Engine Symptoms Diagnostics &gt; Coolant Over-</p>

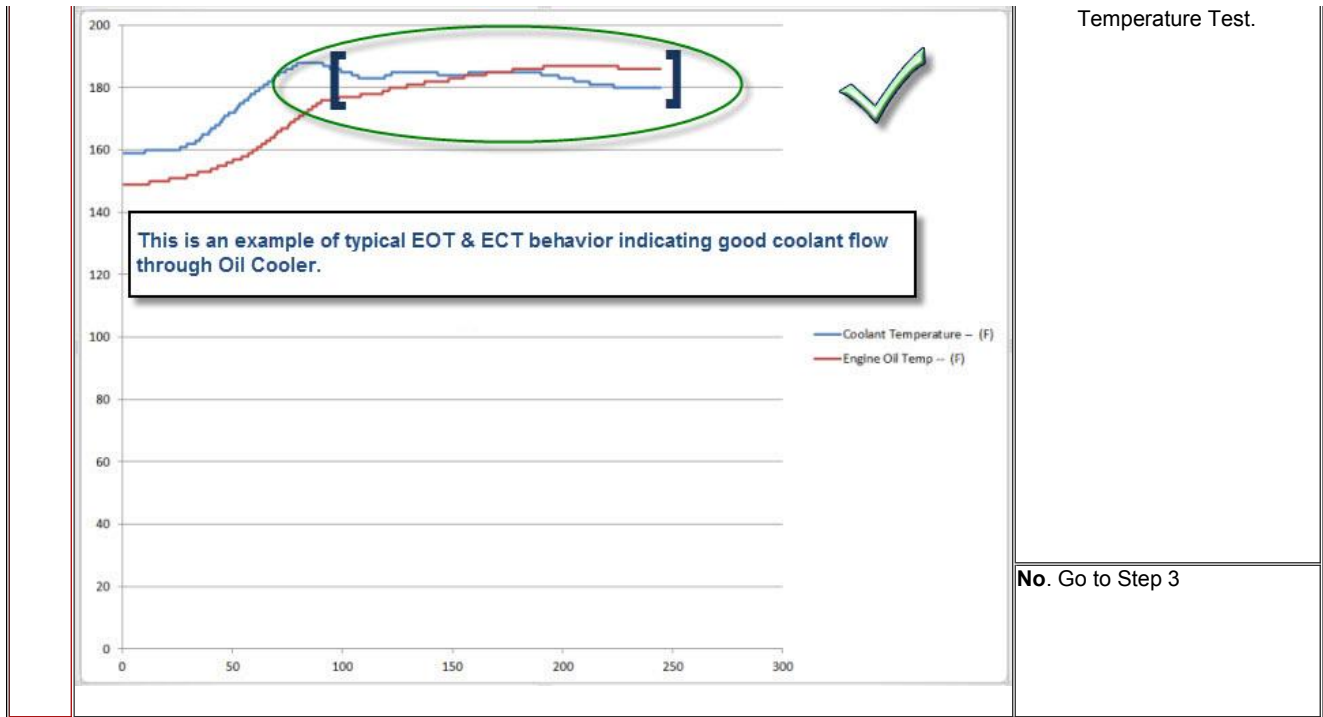


fig A

### Engine Oil Temperature Exceeds 107 °C (225 °F)

Step	Action	Decision
#3	<p>Are your results similar to this example?</p> <p>fig B</p>	<p><b>Yes</b> Replace oil cooler following the procedure in Engine Service Manual EGES-2952 &gt; Oil Cooler and Filter Housing &gt; Removal.</p> <p><b>No.</b> Refer to Engine Diagnostic Manual EGS-240 &gt; Engine Symptoms Diagnostics &gt; Coolant Over-Temperature Test.</p>

Step	Action	Decision
#4	Is fault code 327 (SPN 110 FMI 2) still active?	<b>Yes.</b> Refer to Engine Diagnostic Manual EGS-240 > Engine Symptoms Diagnostics > Coolant Over-Temperature Test.
		<b>No.</b> Repair Complete.

## WARRANTY INFORMATION

### Warranty Claim Coding:

<b>Group:</b>	12000 - Engines
<b>Noun:</b>	686 - Cooler, Oil

### Standard Repair Time(s):

Description	Chassis	Engine	SRT	Hours
Oil Cooler assembly, replace	All Models (Excludes 1000)	VT365	A12-3280	5.7
Oil Cooler assembly, replace	1000	VT365	A12-3281	6.5
with Air Conditioning	All Models	VT365	A12-3280-1	0.2
with Air Compressor	All Models	VT365	A12-3280-2	0.2
Oil Cooler, replace	All Models	VT365	A12-3280-3	0.3

## OTHER RESOURCES

[TSI 09-12-12R](#)

[VT365 Diagnostic Manual](#)

[VT365 Service Manual](#)

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