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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:

03/18/2015 - Draft
04/03/2015 - revise snapshots
Initial Article Release

DESCRIPTION

This Document Provides The Diagnostic And Repair Procedure 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

SPECIAL TOOL(s) / SOFTWARE

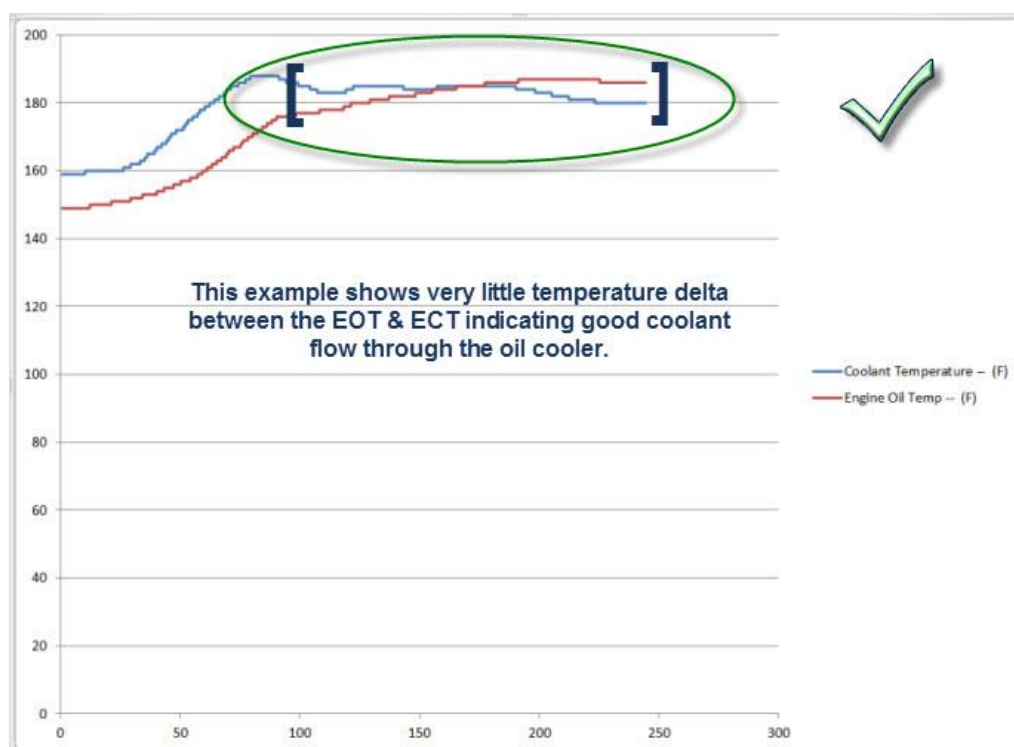
Tool Description
EZ Tech
ServiceMaxx
Interface

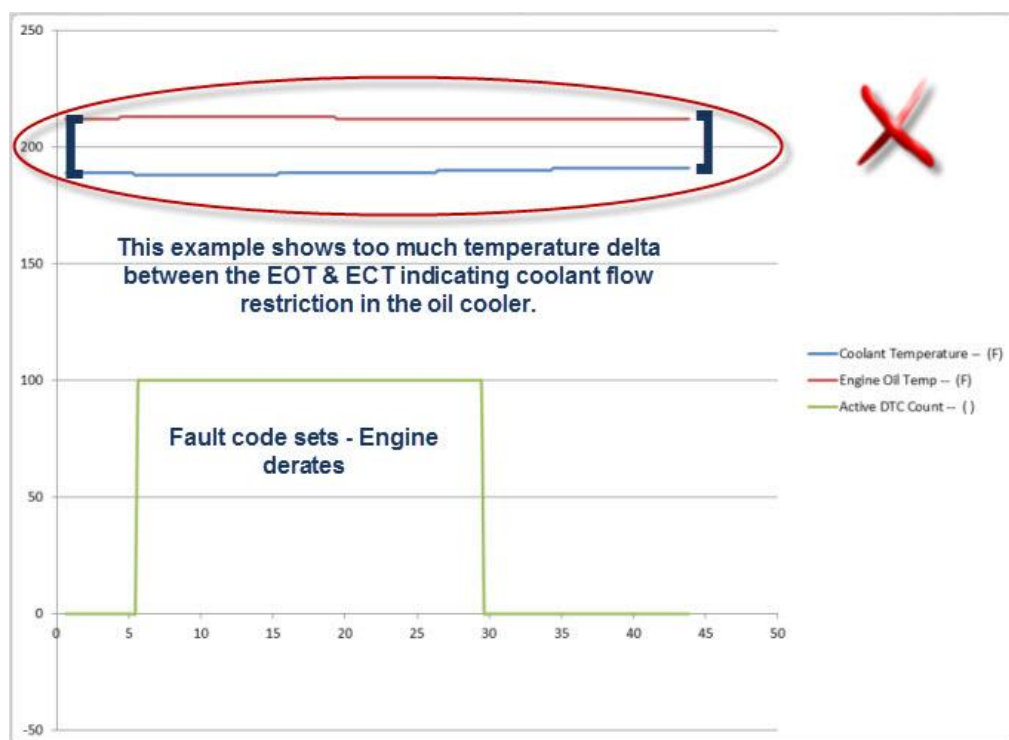
SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required
Cooler, Oil	See Parts Online For Appropriate ESN	As Needed

DIAGNOSTIC STEP(s)

- Using ServiceMaxx, Compare EOT & ECT Readings.
- Use The Examples Below To Aid In Diagnostics.





- Restrictions In The Oil Cooler Generally Cause A Gap In EOT & ECT Delta Readings And Set Fault Code 327 (SPN 110 FMI 2).
- Proceed With Oil Cooler Replacement.

REPAIR STEP(s)



WARNING:

To prevent personal injury or death, read all safety instructions in the "Safety Information" section of this manual.



WARNING:

To prevent personal injury or death, shift transmission to park or neutral, set parking brake, and block wheels before doing service or diagnostic procedures.



WARNING:

To prevent personal injury or death, make sure engine has cooled before removing components.

REMOVAL PROCEDURE:

- Oil Filter Base Assembly



Figure 333. Oil filter cap



To prevent personal injury or death, do not allow engine fluids to stay on your skin. Clean skin and nails with hand cleaner and soap and water. Wash or dispose of clothing or rags containing engine fluids.

NOTE: Engine fluids (oil, fuel, and coolant) are a threat to the environment. Recycle or dispose of engine fluids according to local regulations. Never put engine fluids in the trash, on the ground, in sewers or other bodies of water.



Figure 334. Oil filter housing mounting bolts (4)

2. Remove four M8 x 75 mounting bolts from the oil filter housing and remove housing. Discard the filter housing base seal.



Figure 335. Oil filter return tube

3. To remove the oil filter return tube, remove M5 x 18 lockscrew and turn tube counterclockwise and lift up.

4. Remove and discard oil filter return tube gasket.

NOTE: Oil filter base does not have to be removed in order to remove the oil cooler assembly.



Figure 336. EGR cooler coolant supply port cover bolts

5. Remove EGR cooler coolant supply port cover bolts (2) and remove cover and discard seal.



Figure 337. Oil filter base bolts

6. Remove eight mounting bolts from oil filter base assembly.



Figure 338. Removing oil filter base assembly

7. Lift oil filter base assembly off oil cooler cover assembly.
8. Remove and discard gasket.

• Oil Cooler Cover Assembly



Figure 339. Mounting bolts for oil cooler cover assembly

1. Remove eight M8 x 30 and two M8 x 85 mounting bolts from oil cooler cover assembly.

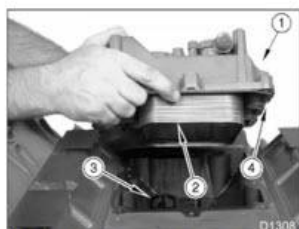


Figure 340. Oil cooler cover assembly

1. Oil cooler cover assembly
2. Oil cooler
3. Pump inlet strainer (150 micron)
4. Reservoir cover gasket

2. Remove oil cooler cover assembly from crankcase.
3. Remove and discard reservoir cover gasket.
4. Remove oil from reservoir.



Figure 341. Pump inlet strainer

5. Remove pump inlet strainer from oil reservoir.

INSTALLATION PROCEDURE:

- **Reassemble In Reverse Order.**

WARRANTY INFORMATION**Warranty Claim Coding:**

Group:	12000 - Engines
Noun:	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](#) Hide Details**Feedback Information**

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