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Coding Information

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Title: Low Coolant Light with International I6 EGR and MaxxForce® DT,9 and 10

Applies To: I6 EGR (2004 EPA), 2007 EPA, 2010 EPA, 2013 EPA MaxxForce® DT,9 and 10 Engines

CHANGE LOG

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

07/17/2017 - Updated formatting and added new photo for restrictor location
 06/16/2016 - Updated engines that this document applies to
 06/11/2015 - Author updated for feedback purposes
 04/22/2015 - Author updated for feedback purposes

DESCRIPTION

This document will guide the user on what to do if you are experiencing low coolant faults with a DT 466 EGR and MaxxForce® DT,9 or 10 engine when coolant level is correct.

SYMPTOMS

Diagnostic Trouble Codes:

DTC/Light	Description
SPN 111 FMI 1	Low Engine Coolant Level

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
Connector hose restrictor/orfc	3627939C1	1	3/8" restricted fitting
Clamp heat exchanger mubea fo	3523434C1	2	3/8" hose clamp

REPAIR STEPS

NOTE:

DuraStar vehicles built with an I6 EGR or a 2007 MaxxForce® engine they are equipped with a black surge tank there should be a restricted fitting in the EGR return line. DuraStar vehicles with a 2007 MaxxForce® engines that are equipped with a Black surge and has a white dot on the top of the tank the EGR return line fitting in the tank is restricted. DuraStar vehicles with a 2007 MaxxForce® engines that are equipped with a clear surge tank the EGR return line fitting in the tank is restricted.

1. Verify that the coolant level is in the **top of the upper sight glass or above the Max line on newer tanks**, when the engine is warm.
2. If the level is below the top of the upper sight glass **top off the surge tank to the proper level** and see if the problem has been corrected, if not proceed to step 3.
3. If the coolant level is correct, the EGR deaeration line will have to be restricted by inserting a second 1/8 inch restriction into the line. **Do not replace the surge tank**. The fitting should be installed within 5 inches or 120 mm of the EGR cooler fitting. On MaxxForce® DT, 9 and 10 engines install a restrictor fitting in EGR deaeration line and the A/C bracket line a foot away from the surge tank.
4. Install the following parts:
 - (1) 3627939C1 3/8" restricted fitting (shown in figure 1 below)
 - (2) 3523434C1 3/8" Hose Clamp

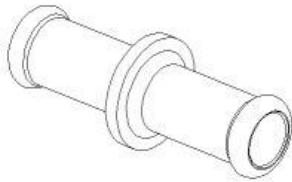


Figure #1: 3627939C1 3/8" Restricted Fitting

5. Cut the EGR return line to the deaeration tank within 5 inches or 120 mm of the EGR cooler fitting and insert the restriction assembly. Use hose clamps to secure the hose to the fitting barbs.

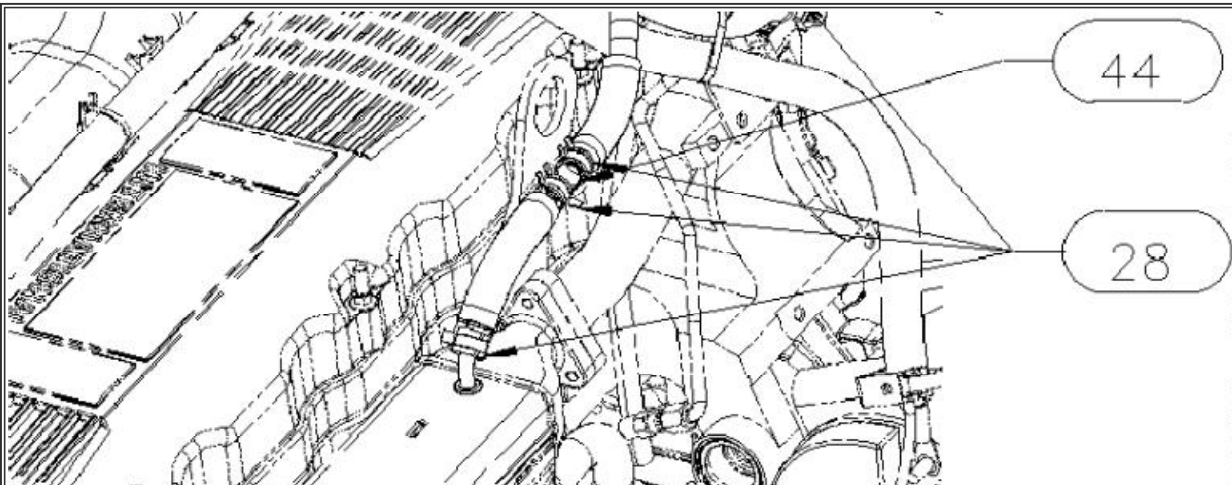


Figure 2: Restrictor Location

Item 28: Hose Clamps
Item 44: Restrictor

6. Verify that the coolant level is above the second sight glass and that the problem has been corrected.

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