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**Author:** David Homer

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Coding Information

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**Title:** Coolant odor in cab with rear HVAC (Feature Code 0595BJN or 0595BWZ)

**Applies To:** 2010 MaxxForce 11/13L and N13 Engines-ProStar, LoneStar

## CHANGE LOG

4/27/2015 - Initial Article Release

## DESCRIPTION

This document will guide the user through rear heater core coolant loss diagnostics (for Behr rear HVAC) and should be followed if symptoms listed below are present. The o-ring can leak where the coolant lines attach to the heater core making it appear that the heater core has failed.

This document is a supplement to [IK1201066 Big Bore Cooling System Diagnostics](#)

Description	Feature Code
BC PROG, HVAC IN SLR & CAB 2010 2010, In Sleeper (Behr) and Cab (Bergstrom)	<a href="#">0595BJN</a> or 0595BWZ

## SYMPTOMS

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

- Red light under temperature gauge
- Low coolant warning on Message Center

DTC/Light	Description
SPN 111 FMI 1	Low Coolant
	Malfunction Indicator Light (MIL)
	Red Stop Lamp (RSL)

**Customer Observations or Concerns:**

- Coolant odor in bunk area
- Low Coolant Warning on Message Center

**Possible Causes:**

- Heater Core O-Ring Seal
- Heater Core

**SPECIAL TOOLS / SOFTWARE**

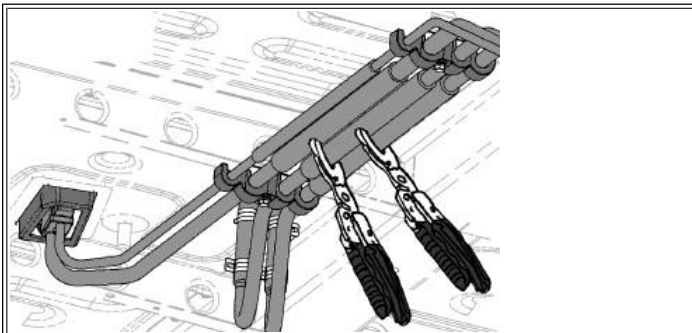
Tool Description	Tool Number	Comments
Radiator Pressure Testing Kit	ZTSE2384	Perform with warm engine
Coolant Management Tool	KL5007NAV	Cooling system drain and vacuum fill

**SERVICE PARTS INFORMATION**

Kit Description	Part Number	Quantity Required	
RING,O SEAL 15.54 ID X 2.62 THK	3824706C2	2	New Material
CORE ASM, HEATER REAR AUXILIARY UNIT	3599598C1	1	If needed

**DIAGNOSTIC STEPS**

Step	Action	Decision
1	<b>Symptom Verification</b>	<b>Yes.</b> Step 2
	Install Radiator Pressure Testing Kit ZTSE2384 with Surge Tank Cap Adaptor on deaeration tank  Pressurize cooling system to 117 kPa (17 psi) for a minimum of 15 minutes.  Does the pressure drop?	<b>No.</b> Re-evaluate: customer symptoms, health report, warranty history, case file history, 111-1 FCAP



**Figure 1: Heater Lines Crimped Under Cab**

Step	Action	Decision
2	<b>Leak Isolation:</b>  Under the vehicle, use clamping pliers several inches away from the metal/rubber joint to pinch the rubber section of the rear heater lines closed (Figure 1)	<b>Yes-</b> Refer to <a href="#">IK1201066 Big Bore Cooling System Diagnostics</a> to identify coolant leak location <b>No-</b> Step 3

Pressurize cooling system to 17psi

Does the pressure drop?

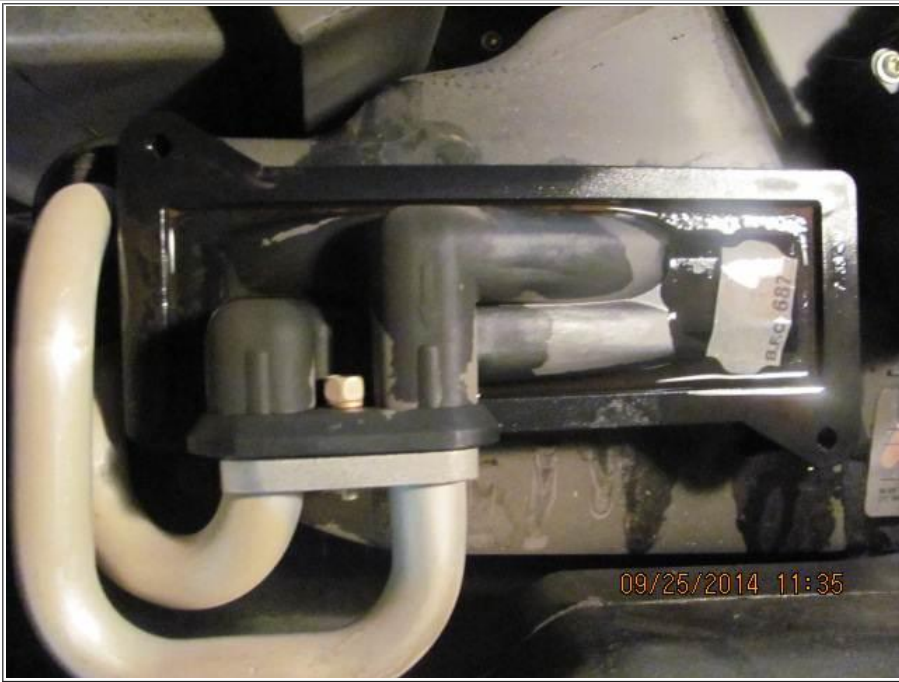


Figure 2: O-ring Leak

Step	Action	Decision
3	<p><b>Visual Leak Inspection:</b></p> <ul style="list-style-type: none"> <li>• Inside the cab, raise and support the lower bunk.</li> <li>•</li> </ul> <p>Remove two screws securing the heater core cover. Remove the cover. Inspect for signs of coolant without removing heater core</p> <p>Is a coolant leak visible?</p>	<p><b>Yes-</b> Remove heater core, clean heater core surrounding, install new orings (3824706C2), re-check for leak</p> <hr/> <p><b>No-</b> Step 4</p>



Figure 3: Core Leak

Step	Action	Decision
4	<b>Remove Heater Core:</b>	<b>Yes:</b> Clean coolant from heater core surrounding, replace heater core, re-check for leak <b>No:</b> Re-evaluate customer symptoms, health report, warranty history, case file history, 111-1 FCAP
	Inspect for coolant in heater core surrounding Is coolant present in bottom of heater core surrounding?	

## REPAIR STEPS

Repair procedure can be found in Manual 000002221 HVAC Service section 5.40 HEATER CORE – REAR HVAC UNIT

## WARRANTY INFORMATION

### Warranty Claim Coding:

<b>Group:</b>	19020- TRUCK HTR/DEFROST
<b>Noun:</b>	076- Core (Heater)

### Standard Repair Time(s):

Description	Chassis	SRT	Hours
Sleeper HVAC Heater Core	Prostar	<a href="#">R19-3076A-20</a>	0.8
Sleeper HVAC Heater Core	Lonestar	<a href="#">S19-3007A</a>	0.6
Visual Inspection, Pressure test	Prostar	<a href="#">R12-2901U</a>	0.3
Visual Inspection, Pressure test	Lonestar	<a href="#">S12-2901U</a>	0.3

## **OTHER RESOURCES**

[Master Service Information Site](#)

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### Feedback Information

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U00JFG2		You received the following feedback From: U00JFG2 - John Gislason Email Address: SMTP:{John.Gislason@Navistar.com} John.Gislason@Navistar.com Feedback: This IK is published in Gp 09, but the coding states Gp 19, is the article cross referenced in Gp 19?	5/11/2015 8:08:30 AM

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