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Coding Information

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Title: Big Bore Coolant in the Exhaust
Applies To: 2010 MaxxForce 11/13L Engines

CHANGE LOG

04/20/2015 - Un-tagged N13 from this article and corresponding iKNOW articles. The information for coolant overflow is located in the respective diagnostic manual for N13 engines. Changed NOTE under OVERVIEW section to go to corresponding engine diagnostic manuals for O2S calibration procedure. IK1201065 is being retired. The information is now in the diagnostic manuals for both N13 and 2010 MaxxForce 11, 13L engines. Changed EGR cooler leak detection tool number from "KL20060NAV" to "12-892-02".

2014/09/22 - Changed step 1 to reference TL2900004 instead of the Engine Service Manual. Also, modified format. Added HT EGR Cooler core kit to parts table. Added HT and LT EGR Cooler Core SRTs.

2014/07/10 - Fixed hyperlink to IK1201066

2014/06/24 - Link HT EGR cooler leak to new iKNOW (HT core removal)

2014/05/14 - Link LT EGR cooler leak to new iKNOWs (LT core removal)

DESCRIPTION

This document is a supplement to [IK1201066 \(Coolant Consumption and/or SPN-111 FMI-1\)](#) and guides the user through diagnostics of coolant in the exhaust.

SYMPTOMS

Coolant leaks to the exhaust may be detected externally or internally. See the following list of symptoms for identification of coolant leaks to the exhaust.

- Coolant smell in exhaust
- Coolant leaking from exhaust
- White smoke

SPECIAL TOOLS

Tool Description	Tool Number	Comments	
Plastic Plug / Cap Kit	ZTSE4891	Used for sealing components during repairs	
Radiator Pressure Testing Kit	ZTSE2384		
Coolant Cap Pressure Testing Kit	09-040-01	Perform with warm engine	
Coolant Management Tool	KL5007NAV	Cooling system drain and vacuum fill	
EGR Cooler Leak Detection Test Kit	12-892-02	HT and LT EGRC Pressure Tester	
EGR Cooler Alignment Tool	12-892-01	If replacing an HT or LT EGRC section	
EGR Cooler Lifting Bracket	12-892-03	If removing EGR Cooler	
LT EGR Cooler Core Tool	12-892-04	If LT EGR Cooler is leaking internally	
Kit, Charge Air Cooler Test	ZTSE6042	LPCAC Pressure Test Tool	

OVERVIEW



GOVERNMENT REGULATION: Engine fluids (oil, fuel, and coolant) may be a hazard to human health and the environment. Handle all fluids and other contaminated materials (e.g., filters rags) in accordance with applicable regulations. Recycle or dispose of engine fluids, filters, and other contaminated materials according to applicable regulations.



WARNING:

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



WARNING:

NOTE

Possible Causes

DIAGNOSTIC PROCEDURE

Step	Action	Decision
2	Verify which section of the EGR Cooler is leaking.	HT EGR Cooler: Replace HT EGR Cooler core, see IK1201113 , then go to step 3.
		LT EGR Cooler: Replace LT EGR Cooler core, see IK1201100 . Repair complete.
		Both LT and HT: Follow the individual instructions above. Neither procedure interferes with the other, so there's no set order of repair.
	Which Section of the EGR Cooler is leaking?	

Step	Action	Decision
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3	Change the engine oil, filter and soot centrifuge oil filter (if equipped).	Repair Complete
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SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Ordering Instructions
HT EGR Cooler	3014254C94	1	Order from Navistar
LT EGR Cooler	3015862C92	1	Order from Navistar
Kit, Low Temp Core	2513209C91	1	Order from Navistar
Kit, High Temp Core	2513445C91	1	Order from Navistar
Oxygen/Lambda Sensor (O ₂ S)	3006233C1	1 (If necessary)	Order from Navistar
Oil Filter Kit	3007498C93	1	Order from Navistar
Soot centrifuge oil filter Kit	2606467C92	1	Order from Navistar

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	12000
Noun:	892 EGR Cooler

[Warranty Coding Manual CTS-1025](#)

STANDARD REPAIR TIME(s)

[Standard Repair Time Manual](#)

LT EGR Cooler Core, Replace

Hours	Code	Model	Engine	Qualifier 1
1.7	FA12-7892U-20	9900i	[MaxxForce 11/13 2010 Emissions]	122 BBC
2.1	N12-7892U	Workstar	[MaxxForce 11/13 2010 Emissions]	
2.1	Q12-7892U	Transtar	[MaxxForce 11/13 2010 Emissions]	

1.8	R12-7892U	Prostar	MaxxForce 11/13 2010 Emissions	113 BBC
1.7	R12-7892U-20	Prostar	MaxxForce 11/13 2010 Emissions	122 BBC
1.7	S12-7892U-20	Lonestar	MaxxForce 11/13 2010 Emissions	122 BBC
2.1	T12-7892U	5000	MaxxForce 11/13 2010 Emissions	

HT EGR Cooler Core, Replace

Hours	Code	Model	Engine
3.4	FA12-8892U	9900i	MaxxForce 11/13 2010 Emissions
3.1	N12-8892U	Workstar	MaxxForce 11/13 2010 Emissions
3.1	Q12-8892U	Transtar	MaxxForce 11/13 2010 Emissions
3.4	R12-8892U	Prostar	MaxxForce 11/13 2010 Emissions
3.4	S12-8892U	Lonstar	MaxxForce 11/13 2010 Emissions
3.1	T12-8892U	5000	MaxxForce 11/13 2010 Emissions
3.1	TC12-8892U	CAT CT660	MaxxForce 11/13 2010 Emissions

Engine Oil and Filter Change

12 - ENGINE OIL AND FILTER CHANGE

Hours	Code	Model	Engine	Qualifier 1
0.6	A12-1889U	WorkStar	MAXXFORCE 11/13	With 2010 Emission Engines

NOTE: Oil Change is included in EGR Cooler service plan SRT.

OTHER RESOURCES:

[2010 - 2013 11 & 13L Coolant Loss and SPN-111 FMI-1](#)

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