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Coding Information

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Title: 2010 MaxxFace 11/13 Coolant in the Exhaust

Applies To: 2010 MaxxFace 11/13

CHANGE LOG

Initial Launch- 04/2014

DESCRIPTION:

Provide repair advice for 2010 - 2013 11/13 Liter vehicles that exhibit Coolant in the Exhaust, after following [IK1201066 2010 MaxxFace 11 & 13L Coolant Consumption and SPN-111 FMI-1](#)

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	KL20060NAV	HT and LT EGRC Pressure Tester "New" procedure tests with valve installed	
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	
Kit, Charge Air Cooler Test	ZTSE6042	LPCAC Pressure Test Tool	

COOLANT IN EXHAUST DIAGNOSTIC PROCEDURE:



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:

To prevent personal injury or death, do not let engine fluids stay on your skin. Clean skin and nails using hand cleaner and wash with soap and water. Wash or discard clothing and rags contaminated with engine fluids.

NOTE: If a coolant leak to exhaust is determined from one of the listed possible causes, follow the oxygen sensor diagnostic procedure found in IK1201065. [IK1201065 Oxygen Sensor \(O2\) Diagnostic](#)

Possible Causes

Failed EGR Cooler

Step	Action	Decision
1	Pressure test Low Temp (LT) and High Temp (HT) EGR cooler, in vehicle, following procedures in the Engine Service Manual. Is there a leak present in either of the EGR Cooler sections?	Yes: Go to step 2
		No: Restore the engine to operational condition and retest cooling system

Step	Action	Decision
2	Verify which section of the EGR Cooler is leaking.	HT EGR Cooler: Replace HT EGR Cooler, then go to step 3.
		LT EGR Cooler: Replace LT EGR Cooler, then go to step 3.

	<p>Which Section of the EGR Cooler is leaking?</p>	<p>Both LT and HT: Replace both the LT and HT EGR Cooler sections, then go to step 3.</p>
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Step	Action	Decision
3	Change the engine oil, filter and soot centrifuge oil filter (if equipped).	Repair Complete

SERVICE PART(S) INFORMATION

Verify you confirm there is available stock in the PDC by referencing the Parts Catalog – [Click Here](#)
 If the required parts are not available, please contact the Service Parts Group.

Kit Description	Part Number	Quantity Required	Ordering Instructions
HT EGR Cooler	3014254C94	1	Order from Navistar
LT EGR Cooler	3015862C92	1	Order from Navistar
Oxygen/Lambda Sensor (O ₂ S)	3006233C1	1	Order from Navistar
Engine oil 15W40 CJ4 Gallon	2598508C1		Obtain locally
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](#)

Step	Description	SRT Link	Hours
	12 - EGR COOLER PRESSURE TEST, IN VEHICLE (no cooler replacement)		

	MAXXFORCE 11/13 EPA 2010 7600	N12-6892U-22	3.9
	MAXXFORCE 11/13 EPA 2010 8600	Q12-6892U-22	3.6
	MAXXFORCE 11/13 EPA 2010 ProStar	R12-6892U-22	3.9
	12 - EGR COOLER PRESSURE TEST, IN VEHICLE (Add-on for Cooler replacement)		
	MAXXFORCE 11/13 EPA 2010 7600 EGR Cooler, Pressure Test w/ Cooler Replacement	N12-6892U-1	0.8
	MAXXFORCE 11/13 EPA 2010 7600 Low Temperature or High Temperature Cooler, Replace	N12-6892U-3	0.5
	MAXXFORCE 11/13 EPA 2010 8600 EGR Cooler, Pressure Test w/ Cooler Replacement	Q12-6892U-1	0.8
	12 - ENGINE OIL AND FILTER CHANGE MAXXFORCE 11/13 EPA 2010	A12-1889U	0.6
	12 - CENTRIFUGE OIL FILTER CHANGE (If equipped) All engines	A12-4656A	0.3

Special Requirement(s):

[EGR Cooler iApprove](#)

Cooling package components (radiators) require a photo attachment, per [WPL 10-010G](#)

OTHER RESOURCES

[IK1201066 2010 MaxxForce 11 & 13L Coolant Consumption and SPN-111 FMI-1](#)

[RC1200004 2010 MaxxForce 11/13 EGR Cooler Resource Center](#)

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