



<b>Countries:</b>	RUSSIA, AUSTRALIA, CANADA, UNITED STATES, MEXICO, PUERTO RICO, NEW ZEALAND	<b>Document ID:</b>	IK1201117
<b>Availability:</b>	ISIS, Bus ISIS, FleetSIS, NotSIR	<b>Revision:</b>	26
<b>Major System:</b>	ENGINES	<b>Created:</b>	4/18/2014
<b>Current Language:</b>	English	<b>Last Modified:</b>	11/21/2017
<b>Other Languages:</b>	NONE	<b>Author:</b>	Sean McGannon
<b>Viewed:</b>	75148		

[Less Info](#)
 Hide Details

Coding Information

<b>Copy Link</b> 	<b>Copy Relative Link</b> 	<b>Bookmark</b>  <a href="#">View My Bookmarks</a>	<b>Add to Favorites</b> 	<b>Print</b> 	<b>Provide Feedback</b> 	<b>Helpful</b>  320	<b>Not Helpful</b>  21
----------------------	-------------------------------	--	-----------------------------	------------------	-----------------------------	---------------------------	------------------------------

**Title:** Open Crankcase Breather

**Applies To:** 2010 + MaxxForce DT, 9 & 10 Engines

## CHANGE LOG

- 2017/11/21 - Clarified baffled valve cover pictures
- 2017/04/24 - Updated key word search, removed links, updated additional parts section, and article description section.
- 2016/10/20 - Updated broken diagnostic links
- 2016/07/25 - Added part number for closed breather replacement.
- 2016/05/20 - Removed model description from SRT table, added note for SRT table.
- 2016/04/18 - Added breather conversion SRT
- 2016/03/28 - Updated kit selection form

## DESCRIPTION

The purpose of this iKNOW article is to help guide the technician to the correct breather replacement kit. All diagnostics should be followed through the diagnostic manuals that apply to the specific engine model / year. When an applicable truck (see note below) suffers from turbocharger coking or Crankcase Oil Separator (CCOS) failure, retrofit to an open breather equipped CCOS. The following provides guidelines and part numbers necessary for the conversion.

### **NOTE:**

2013 HDOBD "Standard Torque" (215 and 230 HP) engines **CANNOT** be converted to open breather. In the event of a failure, replace only the CCOS unit.

## SYMPTOMS/DIAGNOSTICS

**All information available through the diagnostic manuals is current and robust. Follow them for all symptom and/or diagnostic information.**

[2010 MaxxForce DT, 9, and 10](#) - [Low Power Symptom Diag](#) - [Oil in the Intake Diag](#)  
[2013 MaxxForce DT, 9, and 10 \(HD OBD\)](#) - [Low Power Symptom Diag](#) - [Oil in the Intake Diag](#)

## SPECIAL TOOLS / SOFTWARE

No tools necessary for this document.

## **SERVICE PARTS INFORMATION**

Utilize [service kit selection form](#) or see engine components (2010 engines) or ESN range (2013 engines) below to determine proper kit.

**Engine Type:** MaxxFace DT/9/10 (2010-2012) kits

<b>Kit Selector Form</b>	<b>Kit Description</b>	<b>Part Number</b>	<b>Qty</b>	<b>Baffled Valve Cover (figure 1)</b>	<b>New CCOS (figure 2)</b>
<a href="#">Link to Form</a>	Kit, Open Breather Conversion	2512556C91	1	Yes	Yes
	Kit, Open Breather Conversion	2512557C91	1	Yes	No
	Kit, Open Breather Conversion	2512558C91	1	No	Yes
	Kit, Open Breather Conversion	2512559C91	1	No	No

For baffled valve cover identification see **figure 1** in diagnostics section below

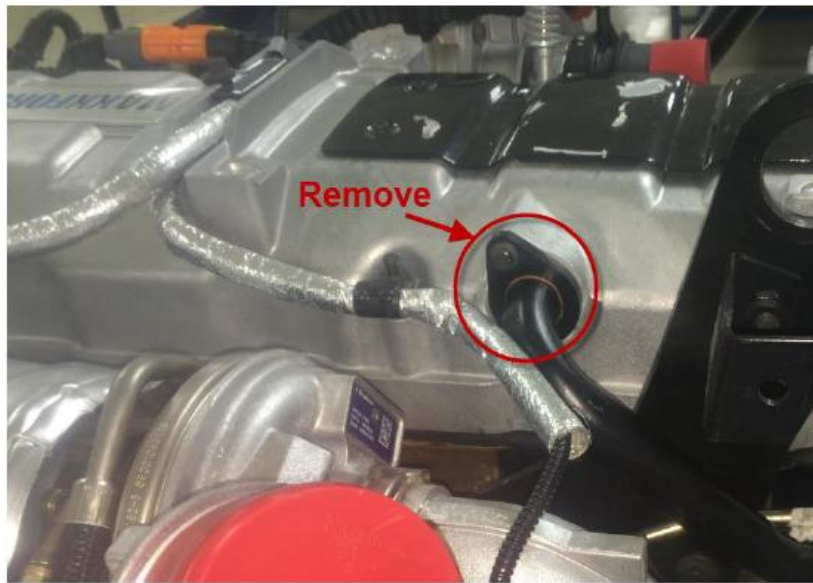
For new CCOS identification see **figure 2** in diagnostics section below

**Engine Type:** MaxxFace DT/9/10 (2013 OBD) kits

<b>Kit Selector Form</b>	<b>Kit Description</b>	<b>Part Number</b>	<b>Quantity</b>
<a href="#">Link to Form</a>	Kit, Open Breather Conversion	2513484C92	1
	Kit, Open Breather Conversion	2513485C91	1
	Kit, Open Breather Conversion	2513486C91	1
	Kit, Open Breather Conversion	25123487C91	1

### **SERVICE KIT "DIAGNOSTICS"**

--



**Figure 1: Valve cover baffling vs non-baffled**

Item 1: Original valve cover with only aluminum visible.  
Item 2: New valve cover with black stamped steel baffle visible.



**Figure 2: CCOS Part Number**

New CCOS units are part number 7092631C91 or greater

**Additional Parts (for reference, only replace/use if necessary)**

Kit Description	Part Number	Qty	Notes
Kit, Full Breather Replacement	7093618C92	1	Closed Breather Replacement
Kit, Turbo Compressor Cleaning	7091592C91	1	Turbocharger coking
Fluid, Cleaning (5 gal)	2514295C92	1	CAC Cleaning
Seal, LP Turbo	1881990C1	1	<b>WITHOUT</b> LP CAC
Seal, Crossover Tube	1858048C2	1	With LP CAC

## **WARRANTY INFORMATION**

**Warranty Claim Coding:**

<b>Group:</b>	12000 - Engine
<b>Noun:</b>	215 - Filter, Oil Separator, Crankcase Vent

**Standard Repair Times:**

Due to the variety of chassis/engine configurations, please reference the SRT link for the correct repair times and elemental step document.

**NOTE:** Use the Kit Part Number in the table below to determine which SRT(s) you can apply to the claim.

Repair	SRT	Kit Part Number	Notes
CCOS Open Conversion	<a href="#">Open Conversion</a>	2512559C9*	Contains time for breather, valve cover replacement and Turbocharger cleaning
Valve Cover Replacement	<a href="#">Valve Cover and/or Gasket, R&amp;R or Replace</a>	2512558C9*	
CCOS Replacement	<a href="#">Crankcase Breather, Replace</a>	2512557C9* 2513484C9* 2513485C9* 2513486C9* 2513487C9*	
ECM Replacement	<a href="#">ECM, I-6 Engines, Replace</a>	2513484C9*	
Engine Harness Replacement	<a href="#">Engine Harness, Replace</a>	2513484C9* 2513485C9*	
ECM Reprogram	<a href="#">ECM-Engine, Reprogram</a>	2513484C9* 2513485C9* 2513486C9* 2513487C9*	Required for all 2013 and later engines, regardless of kit used

NOTE: Follow diagnostics or repair procedures for all applicable SRTs. For example, if Low Power lead to Turbocharger and CAC cleaning, reference the symptom based diagnostics action plan.

---

## **OTHER RESOURCES**

[Master Service Information Site](#)

 Hide Details

### Feedback Information

Viewed: 75147

Helpful: 320

Not Helpful: 21

No Feedback Found

---

Copyright © 2017 Navistar, Inc.