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Coding Information

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Title: Open Crankcase Breather
Applies To: 2010 + MaxxForce DT, 9 & 10 Engines

CHANGE LOG

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
 2016/03/08 - Added link for kit selection form
 2016/03/05 - 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: MaxxForce DT/9/10 (2010-2012) kits

Kit Selector Form	Kit Description	Part Number	Qty	Baffled Valve Cover (figure 1)	New CCOS (figure 2)
Link to Form	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: MaxxForce DT/9/10 (2013 OBD) kits

Kit Selector Form	Kit Description	Part Number	Quantity
Link to Form	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"

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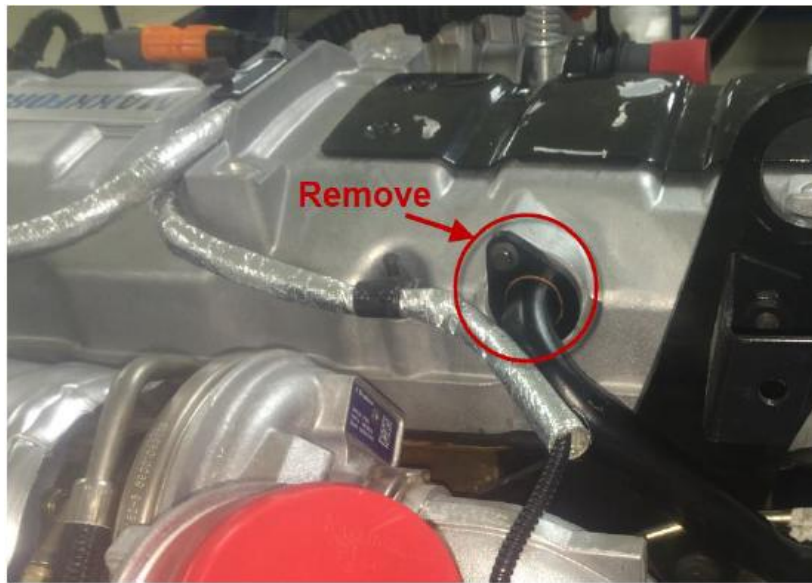


Figure 1: Valve cover baffling vs non-baffled

Item 1: No baffle

Item 2: Stamped steel baffle



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	WITHOUT LP CAC
Seal, Crossover Tube	1858048C2	1	With LP CAC

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	12000 - Engine
Noun:	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	Open Conversion	2512559C9*	Contains time for breather, valve cover replacement and Turbocharger cleaning
Valve Cover Replacement	Valve Cover and/or Gasket, R&R or Replace	2512558C9*	
CCOS Replacement	Crankcase Breather, Replace	2512557C9* 2513484C9* 2513485C9* 2513486C9* 2513487C9*	
ECM Replacement	ECM, I-6 Engines, Replace	2513484C9*	
Engine Harness Replacement	Engine Harness, Replace	2513484C9* 2513485C9*	
ECM Reprogram	ECM-Engine, Reprogram	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](#)



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