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Coding Information

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

CHANGE LOG

2016/01/28 - Simplified kit decision process
 2015/12/10 - Corrected Coding for Fleets
 2015/12/1 - Corrected kit part numbers for 2010 emissions engines
 2015/11/19 - Updated ESN ranges for I-367 parts kit, changed note for I-367 Standard Torque
 2015/11/09 - Author updated, formatting/grammar revisions, consolidated PDF, removed "performance" diagnostics (added links to manuals)
 2015/09/03 - added note in step 4 about breather kit details
 2015/08/25 - Fixed some formatting issues.
 2015/07/27 - Added Australia, Ireland, New Zealand, Russia and Puerto Rico country codes

DESCRIPTION

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

See engine components (2010 engines) or ESN range (2013 engines) below to determine proper kit.

Engine Type: MaxxForce DT/9/10 (2010-2012) kits
 ESN between 3300001 and 3335658 or between 3400000 and 3499999

Kit Num.	Kit Description	Part Number	Qty	Baffled Valve Cover	New CCOS
2010_1	Kit, Open Breather Conversion	2512556C91	1	Yes	Yes
2010_2	Kit, Open Breather Conversion	2512557C91	1	Yes	No
2010_3	Kit, Open Breather Conversion	2512558C91	1	No	Yes
2010_4	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

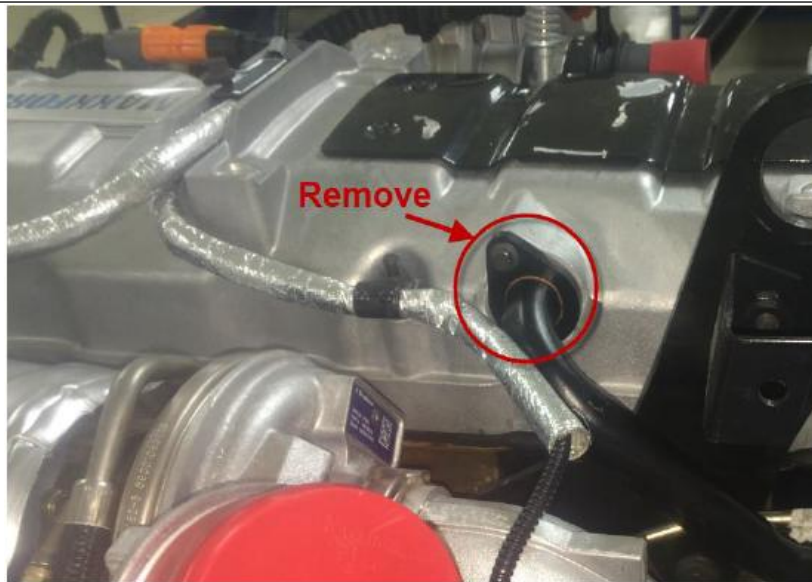
Engine Type: MaxxForce DT/9/10 (2013 OBD) kits
 ESN between 3336436 and 3339999 or between 3500000 and 3529999

Kit Num.	Kit Description	Part Number	Qty	ESN Range
2013_1	Kit, Open Breather Conversion	2513484C92	1	3500000 - 3518458
2013_2	Kit, Open Breather Conversion	2513485C91	1	3518459 - 3519972
2013_3	Kit, Open Breather Conversion	2513486C91	1	3519973 - 3520987
2013_4	Kit, Open Breather Conversion	2513487C91	1	3520988 - 3526177 or 3336436 - 3339999

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

Kit Description	Part Number	Qty	Notes
Kit, Turbo Super Cartridge (HP)	2512354C91	1	In event of failed turbo
Kit, Low Pressure Turbocharger	1889487C93	1	"Standard" Torque (w/o LP CAC)
Kit, Low Pressure Turbocharger	1889489C94	1	"High" Torque (w/LP CAC)
Kit, Turbo Compressor Cleaning	7091592C91	1	
Fluid, Cleaning (5 gal)	2512460C1	1	CAC Cleaning
Tube Assy, Turbo Oil Supply	1885590C93	1	Replace ANYTIME tube is removed
Seal, LP Turbo	1881990C1	1	WITHOUT LP CAC

Seal, Crossover Tube	1858048C2	1	With LP CAC
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SERVICE KIT "DIAGNOSTICS"**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

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.

Step	Repair	Model	Engine	SRT
	Valve Cover Replacement	All	All	Valve Cover and/or Gasket, R&R or Replace
	CCOS Replacement	All	All	Crankcase Breather, Replace
	ECM Replacement	All	All	ECM, I-6 Engines, Replace
	Engine Harness Replacement	All	All	Engine Harness, Replace
	ECM Reprogram	All	All	ECM-Engine, Reprogram

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](#)

[IK1200938 - HP Turbo Center Section Replacement Procedure](#)

[IK1201238 - LP Turbo Center Section Replacement Procedure](#)

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	You received the following feedback From: u01e057 - Michael Sokolowski Email Address: SMTP:{Michael.Sokolowski@Navistar.com} Michael.Sokolowski@Navistar.com Feedback: Would be helpful to include the newer build ESNs, even if it's clarifying they are already equipped with open breathers. EX: 334XXXX	
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