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Coding Information

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Title: Open Crankcase Breather

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

CHANGE LOG

- 2016/05/20 - 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
- 2016/02/05 - Rearranged layout
- 2016/01/28 - Simplified kit decision process
- 2015/12/10 - Corrected Coding for Fleets
- 2015/11/11 - Corrected kit part numbers for 2010 emissions engines

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

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
 ESN between 3300001 and 3335658 or between 3400000 and 3499999

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

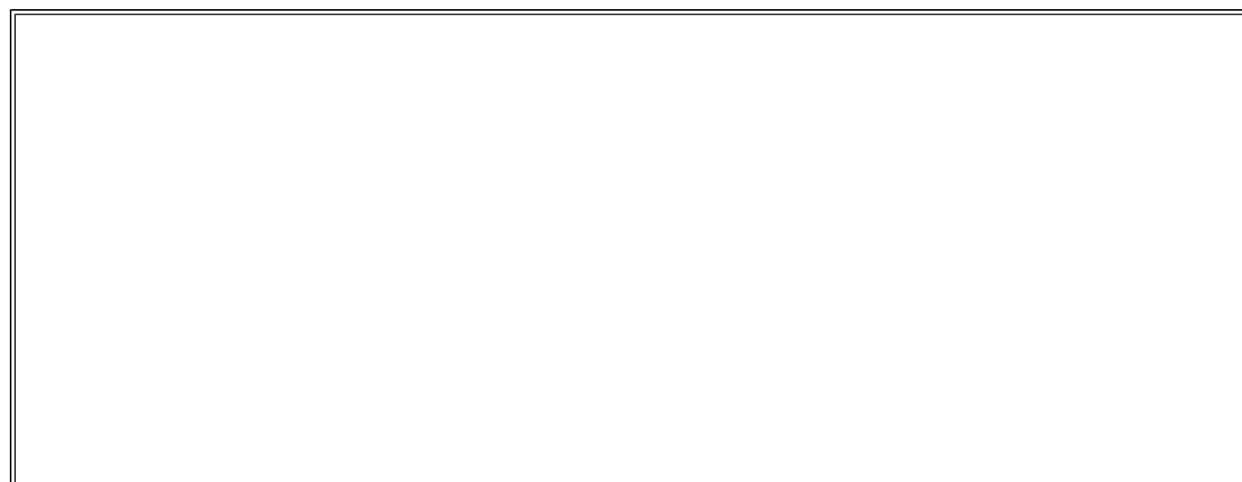
For baffled valve cover identification see **figure 1** in diagnostics section below

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

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

Kit Selector Form	Kit Description	Part Number	Qty	ESN Range
Link to Form	Kit, Open Breather Conversion	2513484C92	1	3500000 - 3518458
	Kit, Open Breather Conversion	2513485C91	1	3518459 - 3519972
	Kit, Open Breather Conversion	2513486C91	1	3519973 - 3520987
	Kit, Open Breather Conversion	2513487C91	1	3520988 - 3526177 or 3336436 - 3339999

SERVICE KIT "DIAGNOSTICS"



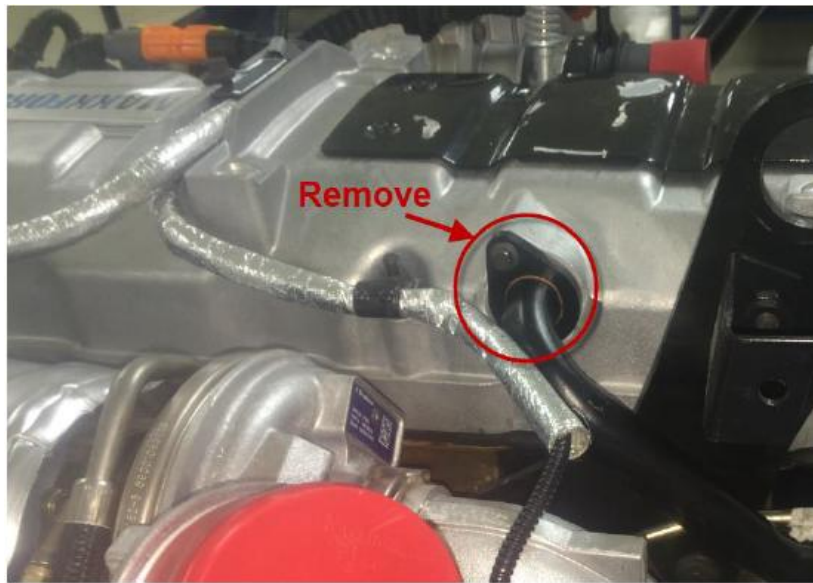


Figure 1: Valve cover baffling vs non-baffled

Item 1: No baffle
Item 2: Stamped steel baffle



Figure 2: CCOS Part Number

New CCOS units are part number 7092631C91 or greater

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

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*	Required for all 2013
		2513486C9*	and later engines,
		2513487C9*	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](#)

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

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

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Feedback Information

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Staff ID	Client ID	Comments	Created Date
	DY40246	You received the following feedback From: dy40246 - Efrain Lopez Email Address: lopeze@rushenterprises.com Job Classification: SE008, Service Technician Dealer: RUSH TRK CTR OF UT Feedback: the part numbers that are listed for the open crankcase breather are miss leading. I have ordered the part # 2512556c91 to receive the whole kit which it says contains and valve cover and CCOS but I only receive the Duct for the air filter cleaner and the tube that attaches to the exhaust port on the CCOS, and I have ordered kit # 2512559c91 and have received the whole kit, including the valve cover and CCOS, which on the IK article it says that none of the should come in the kit. I just advise on fixing this problem to stop the confusion going on when ordering these kits. thank you.	6/23/2016 10:23:01 AM
U01E786		You received the following feedback From: u01e786 - Greg Diehl Email Address: SMTP:{Gregory.Diehl@Navistar.com} Gregory.Diehl@Navistar.com Feedback: Should this know letter contain the part numbers for closed breather systems for engine serial numbers that are not eligible to be updated to an open breather system?	6/29/2016 8:45:25 AM
U00TEA1		You received the following feedback From: U00TEA1 - Tom Abbott Email Address: SMTP:{Thomas.Abbott@navistar.com} Thomas.Abbott@navistar.com Feedback: The part number for the closed crankcase breather replacement (Kit, full breather replacement) is 7093618C92 per Ben Krejcie. This part goes on vehicles in which the open breather replacement is not appropriate.	6/29/2016 12:39:20 PM