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Coding Information

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

CHANGE LOG

2016/04/18 - 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
 2015/12/1 - Corrected kit part numbers for 2010 emissions engines
 2015/11/10 - Updated FSB MaxxForce DT, 9 and 10 kit information for L267 Standard Torque

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"

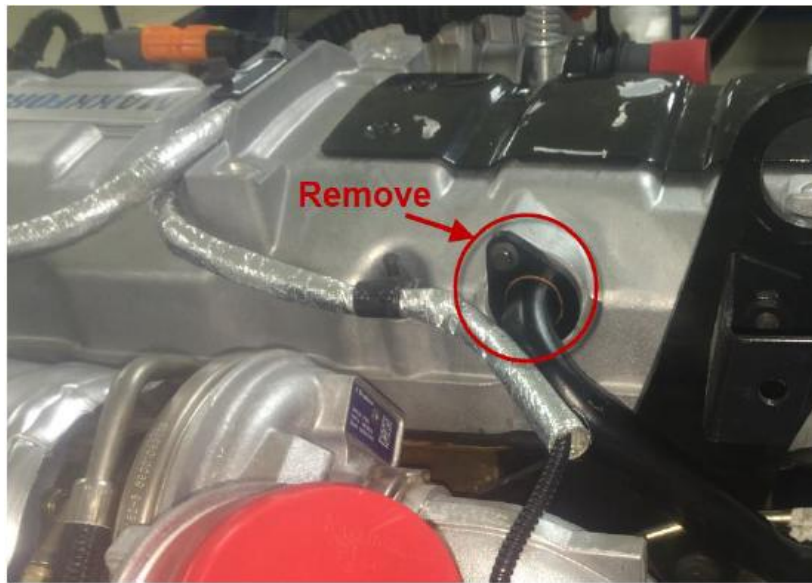


Figure 1: Valve cover baffling vs non-baffled

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.

Repair	Model	Engine	SRT	Kit Part Number	Notes
CCOS Open Conversion	All	2010-2012	Open Conversion	2512559C9*	Contains time for breather, valve cover replacement and Turbocharger cleaning
Valve Cover Replacement	All	2010-2012	Valve Cover and/or Gasket, R&R or Replace	2512558C9*	
CCOS Replacement	All	All	Crankcase Breather, Replace	2512557C9* 2513484C9* 2513485C9* 2513486C9* 2513487C9*	
ECM Replacement	All	2013 and later	ECM, I-6 Engines, Replace	2513484C9*	
Engine Harness Replacement	All	2013 and later	Engine Harness, Replace	2513484C9* 2513485C9*	

ECM Reprogram	All	2013 and later	ECM-Engine, Reprogram	2513484C9* 2513485C9* 2513486C9* 2513487C9*	Required for all 2013 and later engines, regardless of kit used
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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

Viewed: 30366

Helpful: 197

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Staff ID	Client ID	Comments	Created Date
	DY22084	You received the following feedback From: dy22084 - Andrew Mortimer Email Address: amortimer@rwcgroup.com Job Classification: SE008, Service Technician Dealer: RWC GROUP Feedback: IN 2010 MAXXFORCE DT/9/10 MANUAL FOLLOWING SYMPTOM OF OIL IN INTAKE 7.2 STEP 5 HAS ME CHECK VALVE COVER FOR BAFFLE AND CHANGING IT BEFORE CHECKING BREATHER ON STEP 6. STEP 6 REFERENCES IK1201117. THAT IKNOW STATES THAT THE KIT FOUND PER THE EMBEDDED LINK WILL BE ALL THATS NECESSARY. WILL I NEED THE VALVE COVER OR DOES IT COME IN THE KIT BY USING THE FORM? IN MY CASE VIN CB399422, ESN 3310615, NO STEEL BAFFLES AND OLD PN ON BREATHER. I DONT WANT TO ORDER A VALVE COVER IF IT COMES IN THE KIT.	4/21/2016 1:58:55 PM
U01C166		You received the following feedback From: U01C166 - Randy Geweniger Email Address: SMTP:{Randy.Geweniger@Navistar.com} Randy.Geweniger@Navistar.com Feedback: Please add a Note (Highlighted in RED) that informs the technician to install the complete crankcase breather and not just the top. due to the oil jet in the bottom housing is a different size that increases the crankcase breather speed over stock.	4/27/2016 10:29:48 AM

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