



Countries: AUSTRALIA, CANADA, UNITED STATES, PUERTO RICO, NEW ZEALAND
Availability: ISIS, Bus ISIS
Major System: ENGINES
Current Language: English
Other Languages: NONE
Viewed: 8703

Document ID: IK1201117
Revision: 5
Created: 4/18/2014
Last Modified: 3/16/2015
Author: Matthew Lazarz

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Coding Information

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Title: Open Crankcase Breather

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

CHANGE LOG

Please refer to the change log text box below for recent changes to this article:

02/18/2015 - Added Australia, New Zealand, and Puerto Rico to country coding.
 3/16/2015 - Changed SRT description, moved Install note above step 4 into step 4.

Title: Open Crankcase Breather

Purpose: Open breather application guidelines.

Applies To: 2010 I-6 MaxxForce DT, 9 & 10 Engines

This article provides guidelines as to when installation of an open breather system is applicable.

Action	Decision
Complaint	A: Low Power: Proceed to section 1
	B: Oil leak at CAC pipes: Proceed to section 2
	C: Shutdown at or below 20°F: Proceed to section 3

Section/Step	Action	Decision
1/1	Is boost >10PSI below Specification?	Yes: Proceed to Section 1 Step 2
		No: Complete Engine Run / Start Symptoms , open breather kit is not required

Section/Step	Action	Decision

1/2	Remove <u>only</u> the air inlet duct from the low pressure turbocharger.	Yes: Clean turbo coking per IK1200656 then proceed to Section 4
	Visually inspect for severe turbo coking, is coking present?	No: Complete Engine Run / Start Symptoms

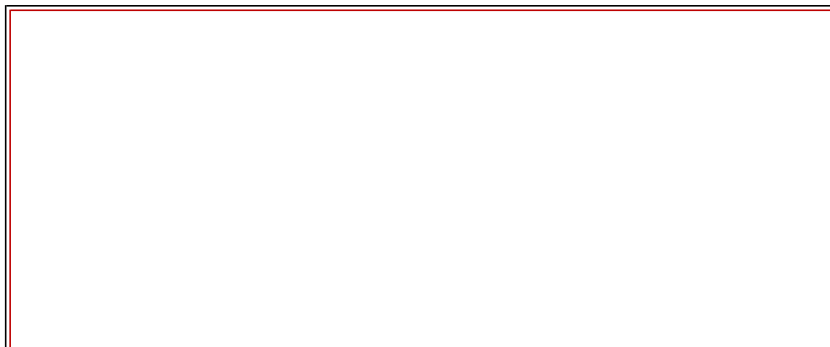
Section/Step	Action	Decision
2/1	Is there impeller contact with the HP turbo housing?	Yes: Proceed to Section 2 Step 2
		No: Proceed to Section 2 Step 3

Section/Step	Action	Decision
2/2	Is the contact with the intake or exhaust housing? Note: the turbocharger oil feed line is not reusable if removed it must be replaced	Exhaust housing: iApproval case file for whole turbo replacement will be needed. Clean system of oil contamination per Section 2 Step 3 . Once completed proceed to Section 4
		Intake housing: Replace turbo center section per IK1200938 . Clean system of oil contamination per Section 2 Step 3

Section/Step	Action	Decision
2/3	Clean system of oil contamination from CAC per IK1201175	Once completed proceed to Section 4

Section/Step	Action	Decision
3/1	Has CAC or ETV icing been found?	Yes: Proceed to Section 4
		No: Complete Engine Run / Start Symptoms

Section	Action	Decision
4	Install open breather kit using the ESN range guide below. Identify engine emissions year using Service Maxx as shown in Figure 1	2010 Emissions DT, 9 or 10 Engine
		2013 HD-OBDDT, 9 or 10 Engine



ServiceMaxx
File View Sessions Tests Procedures Tools Help

Vehicle Information

Engine Type: MaxxForce DT/9/10 (2010 - 2012)
 Software Identification: 466HM2U8
 ACM Software Identification: ...
 Engine Family Rating Code: E40F
 Vehicle Identification Number: 1S1MENGENVINI6ENG
 Engine Serial Number: 466HM2U3000000
 Transmission Type:
 Rated Power: 8,787 hp
 Total Miles: 45,728,643.1 miles
 Total Fuel Used: 450,969,470 gal
 Total Engine Hours: 41,469,848.1 hr

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Figure #1: Service Maxx Engine ID

Item 1: 2010 Emissions DT, 9 or 10 Engine

Item 2: 2013 HD-OBD DT, 9 or 10 Engine

Possible Part Numbers Needed

Part Number	Part Description	Quantity
2512354C91	HP Turbocharger Center Cartridge	1
1881990C1	Pipe Seal/ Crossover Tube Seal (inter-stage cooler not equipped, If needed)	1
1858048C2	Inter-stage Cooler Outlet O-Ring (ISC equipped, If needed)	1
7091592C91	KIT, Turbocharger Compressor Cleaning	1
2512460C1	Fluid, EGR Cleaning	1

1885590C92	TUBE ASSY TURBO OIL SUPPLY	1
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Standard Repair Times (SRT)

Description	Model	SRT Link
12 - VALVE COVER(S) AND/OR GASKET (I-6 ENGINES), R & R AND/OR REPLACE	4300 4400	[KL12-1564T-20]
	7300, 7400, 7500	[M12-1564T-20]
12 - CRANKCASE BREATHER (ENGINE MOUNTED), REPLACE	4300 4400	[K12-9215T]
	7300, 7400, 7500	[M12-9215T]
12 - Air Cleaner AIR INLET HOSE/Piping, Replace	All Models	[A15-180]
12 - TURBOCHARGER H.P CENTER SECTION, REPLACE (Note the turbo oil supply line must be replaced)	4300 4400	[KL12-6135T-24]
	7300, 7400, 7500	[M12-6135T-24]
12 - CAC Cleaning, Perform	4300 4400	[A09-3925A]
	7300, 7400, 7500	[A09-3925A]
12 - Charge Air Cooler, Replace	4300 4400	[KL09-3925T]
	7300, 7400, 7500	[A09-3320]

Warranty Coding

Group	Noun	Noun Description
12000	215	Filter, Oil Seperator, Crankcase Vent

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Feedback Information

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