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Author: Caleb Iverson

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Coding Information

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Title: Complete High Pressure Turbocharger Replacement Guidelines for MaxxFo[®] 11/13, 15L and N13 Engines

Applies To: 2010 MaxxFo[®] 11/13/15 and N13 Engines

CHANGE LOG

- 2016/09/20 - Updated links to Center Section Replacement iKNOW articles and SRT links.
- 2015/04/13 - Opened up the repair for replacement of Assembly. Formatting changes.
- 2014/07/02 - Updated article with 11 and 15L parts information for reuse.
- 2014/01/13 - Updated with new oil supply line for 13L
- 2014/01/02 - Launch to field

DESCRIPTION

This plan provides information necessary for High Pressure Turbocharger **Assembly** replacement. In the case of a High Pressure Turbocharger failure, a replacement cartridge is to be used, unless there is damage to the Turbine (Exhaust Side) housing. Replacement of the Turbo Cartridge and/or Turbocharger Assembly does not require approval from Tech Services. This Article will provide a visual reference of what can be repaired and what needs to be replaced as a complete assembly.

SYMPTOMS

Diagnostic Trouble Codes & Dashboard Indicator Lights:

DTC/Light	Description	Diagnostic Path
190-0 (Stop Engine Light)	Engine Overspeed Most Severe Level	See IK1201048
731-16	Knock Detected: Cylinder Acceleration Above Normal	See IK1201012
731-18	Knock Detected: Unexpected Fueling Without Demand	See IK1201012
731 and 190-0		See IK1201048

WARNING:

Anytime oil is found in the turbine housing (exhaust side) of the High Pressure Turbocharger. The Diesel Oxidation Catalysis (DOC), Diesel Particulate Filter (DPF), and

exhaust pipe should be removed and cleaned free of oil to prevent personal injury or death.


 WARNING:
<p>To prevent personal injury or death, if oil has reached the High Pressure Charge Air Cooler (HPCAC) reference TSI 13-12-17R1 for cleaning and inspection.</p>

Customer Concerns:

- Turbo noise
- Low Power

SPECIAL TOOLS

Tool Description	Tool Number
Cleaning Management System (CMS)	12-353-01
Charge Air Cooler (CAC) Adapter Flushing Kit	09-925-01
Charge Air Cooler (CAC) Pressure Test Kit	ZTSE4341

Reference Picture	Actions
	<p>Minor damage to the Turbine housing (Exhaust Side) of High Pressure Turbo. Reference Special Requirement for proper cleaning and replacement procedure.</p>
	<p>Small nick's in the Turbine (Exhaust Side) Housing of the HP Turbo. Reference Special Requirement at the bottom of the page for proper cleaning and replacement procedure.</p>

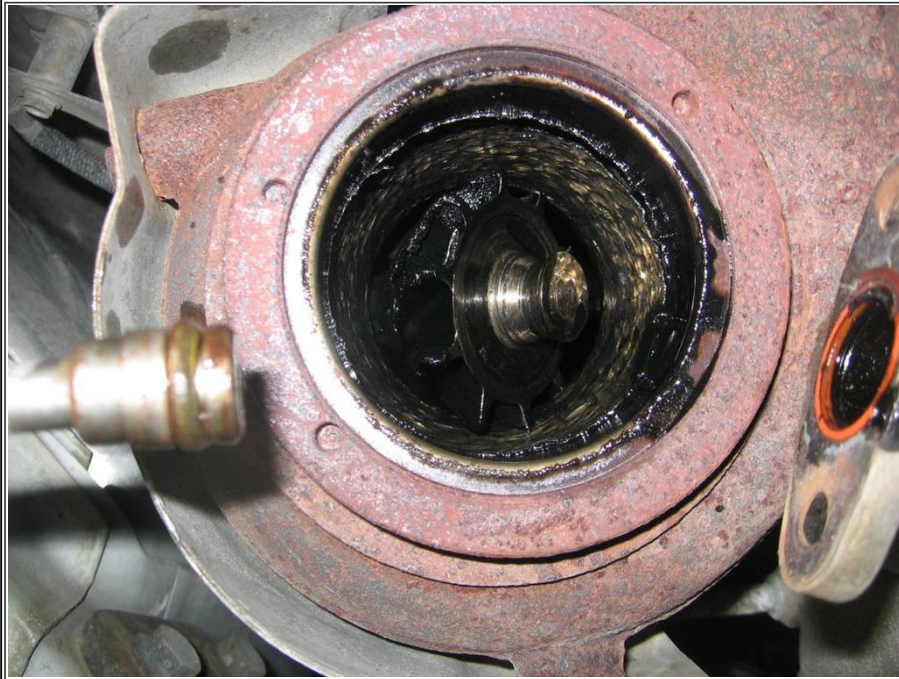


Major Damage to Turbine (Exhaust Side) Housing of the High Pressure Turbo. Turbo is recommended to be replaced as an assembly.

Damage to Turbine (Exhaust Side) Housing of HP Turbo. Turbine housing will need to be cleaned.

Special Requirement at the bottom of the page for proper cleaning and replacement procedure.

Once clean of all soot reevaluate damage to HP Turbo. If major Damage to Turbine Housing of the High Pressure Turbo is found after cleaning. Turbo is recommended to be replaced as an assembly.



Major Damage to Turbine (Exhaust Side) Housing of the High Pressure Turbo. Turbo is recommended to be replaced as an assembly.

Removal of the wastegate has resulted in broken bolts on the turbine (Exhaust) housing.

Turbo is recommended to be replaced as an assembly.

A binding or sticking wastegate is found.

Turbo is recommended to be replaced as an assembly.

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required
Kit, Turbo HP 13L	3007665C9x	1
Kit Turbo HP 11L	3007663C9x	1
Kit Turbo HP 15L	3014694C9x	1
HP Turbo Oil Supply Line (15L)	3008174C9x	1
Turbo Oil Supply Line (11/13L)	3018397C9x	1
Oil Supply Line Fitting Kit (Used to install the 11/13L turbo supply line for the first time)	2512772C9x	1
O-Ring Seal (if needed)	1820907Cx	1

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	12000 Engine
Noun:	135 Turbocharger, HP or single

Standard Repair Times:

11/13/15L Calibration Update

Description	SRT Link
Update Calibration (If needed)	Calibration Update SRTs

HP Turbo Cartridge R&R

Description	SRT Link
7600 (11/13L)	Turbocharger Center Section SRTs
8600 (11/13L)	
ProStar (11/13L)	
LoneStar (11/13L)	
5000 Series (11/13L)	
ProStar (15L)	

R&R HP Turbo Assembly

Description	SRT Link
ProStar (11/13)	Complete Turbocharger Replacement SRTs
8600 (11/13L)	
7600 (11/13L)	
5000 (11/13L)	
ProStar (15L)	

Special Requirement(s):

Turbo Cartridge Replacement

Engine	Procedure Link
11L	IK1201073
13L	IK1201242

15L	IK1201134
11/13L Turbo Oil Line Update	IK1201237

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Feedback Information

Viewed: 28358
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Staff ID	Client ID	Comments	Created Date
	DY23744	You received the following feedback From: dy23744 - Jim Wiser Email Address: jwiser@stadiumtrucks.com Job Classification: SE003, Service Manager Dealer: STADIUM INTL S & S, LLC Feedback: The title of this document includes N13's, but none of the 'special' instructions at the bottom of document, nor parts list includes N13's. This is confusing as to whether this applies to N13's or not. Please advise and thanks.	9/21/2016 6:54:40 AM

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