



BAHAMAS, BOLIVIA, BELIZE, CANADA, CHILE, TAIWAN, COLOMBIA, COSTA RICA, DOMINICAN REPUBLIC, ECUADOR, EL SALVADOR, TRINIDAD AND TOBAGO, UNITED STATES, URUGUAY, VENEZUELA, ARUBA, NICARAGUA, PERU, PUERTO RICO, Curaçao, GUAM, GUATEMALA, GUYANA, HAITI, HONDURAS, JAMAICA, KOREA, SOUTH KOREA, PANAMA

Countries:

Availability: ISIS

Major System: ENGINES

Current Language: English

Other Languages: NONE

Viewed: 22964

Document ID: IK1200909

Revision: 24

Created: 5/19/2013

Last Modified: 4/13/2015

Author: Jay Weston

[Less Info](#)
[Hide Details](#)

Coding Information

Copy Link	Copy Relative Link	Bookmark	Add to Favorites	Print	Provide Feedback	Helpful	Not Helpful
		View My Bookmarks				80	28

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

Applies To: 2010 MaxxFo[®] 11/13/15, 2013 MaxxFo[®] 11/13 HDOBD, 2013 N13 with SCR

CHANGE LOG

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:**

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.

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
	Minor damage to the Turbine housing (Exhaust Side) of High Pressure Turbo. Reference Special Requirement for proper cleaning and replacement procedure.
	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.

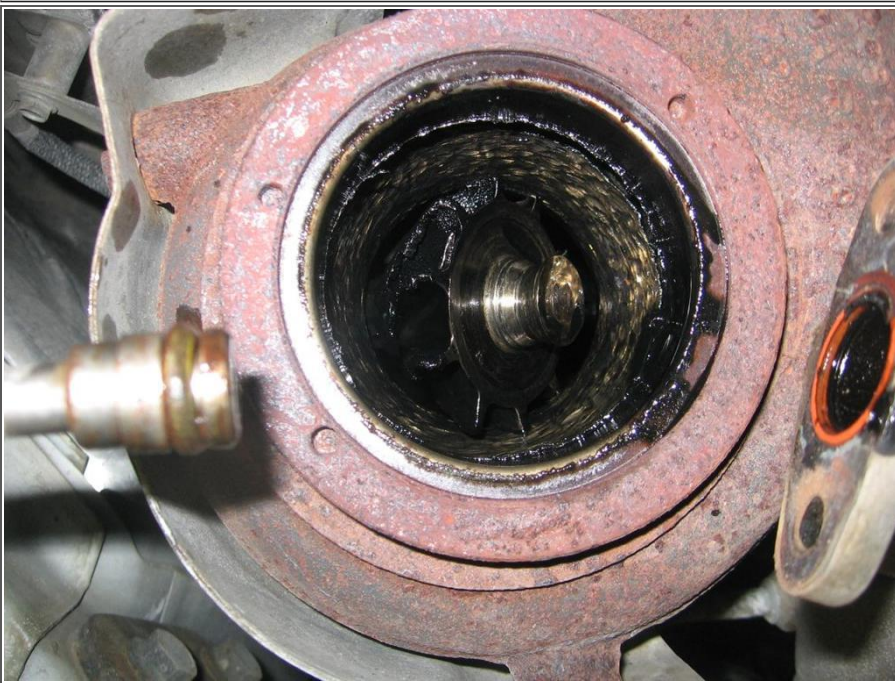


Major Damage to Turbine (Exhaust Side) Housing of the High Pressure Turbo. Turbo is recommended to be replaced as an assembly.

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	Hours
Update Calibration (If needed)	A12-3510A-20	0.2 hr.

HP Turbo Cartridge R&R

Description	SRT Link	Hours
7600 (11/13L)	N12-6135U-21	1.9 hr.
8600 (11/13L)	Q12-6135U-21	1.9 hr.
ProStar (11/13L)	R12-6135U-21	1.9 hr.
LoneStar (11/13L)	S12-6135U-21	1.9 hr.
5000 Series (11/13L)	T12-6135U-21	1.9 hr.
ProStar (15L)	Claim "T" Time	"T" Time

R&R HP Turbo Assembly

Description	SRT Link	Hours
ProStar (11/13)	R12-6135U	7.3 hr.
8600 (11/13L)	Q12-6135U	6.9 hr.
7600 (11/13L)	N12-6135U	6.9 hr.
5000 (11/13L)	T12-6135U	6.9 hr.
ProStar (15L)	R12-6135O	7.2 hr.

Special Requirement(s):

Turbo Cartridge Replacement

Engine	Procedure Link
11L	IK1201073
13L	TSI 13-12-05R2

15L	IK1201134
11/13L Turbo Oil Line Update	TSI 14-12-03

 Hide Details

Feedback Information

Viewed: 22963
Helpful: 80
Not Helpful: 28

No Feedback Found