



Countries: CANADA, UNITED STATES **Document ID:** IK1201334
Availability: ISIS, IsSIR **Revision:** 3
Major System: ENGINES **Created:** 4/19/2016
Current Language: English **Last Modified:** 4/21/2017
Other Languages: NONE **Author:** Allan Hertko
Viewed: 1429

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Coding Information

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Title: MaxxForce 13L 2010-2013 (Non-SCR) Long Block Plus Part# 5010885R91

Applies To: 2010 to 2013 MaxxForce 13L EGR (Non SCR) ProStar 122 Configuration

CHANGE LOG

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

5/23/2016 - Initial Article Release
 5/26/2016- Added Procedure List
 7/6/2016- Added Fuel Injector IQA Link
 7/14/2016- Added ESN attachment
 11/1/2016- Updated SRT Labor Operation

DESCRIPTION

The Long Block Plus Service Engine **5010885R91** is a remanufactured engine. The Long Block Plus can be used for in-warranty and customer pay engine replacements for Prostar 122. The Long Block Plus engine is assembled with new and remanufactured components. Every Long Block Plus engine comes equipped with jake brake assemblies.

Remanufactured components: Water distribution housing, jake brake assemblies, cylinder head, cylinder liners, crankshaft, camshaft, oil pan, flywheel housing, and engine crankcase.

New components: (6) Fuel injectors, HPFP assembly, exhaust manifold, connecting rod and main bearings, LP/HP turbo assemblies, breather, water pump, thermostats, pulleys, with updated fan drive and brackets.

Components to be transferred: Engine wiring harness, EGR components; cooler, heat shields, inlet, outlet, cross-over tubes. Inlet elbow to water distribution housing, inlet hose to oil cooler, (CCV) coolant control valve, (EBPVA) exhaust back pressure valve, (ITV) intake throttle valve, (ACV) air control valve, (DSI) downstream injector, module, lines, dipstick tube/adaptor, **flywheel** and air compressor.

PROCEDURE

1. Check the Health Report for EGR and low coolant faults.
2. Inspect and pressure check the EGR cooler assembly before installation.
3. Inspect the original engine for reusable components for wear and damage prior to transferring and installation.
4. Follow the MaxxForce 13 liter engine service manual for proper torque procedures and values.
5. Use long block plus gasket kit **2515613C91**.
6. For vehicle's that have not been updated, install fan drive retrofit kit **2515591C91**.
7. Program the injector **IQA's** and update the ECM to the latest calibration.
8. Calibrate the O2 sensor.
9. Prime the fuel system with **Fuel Priming Tool 12-922-01**.
10. Fill the engine to the correct oil level;
11. Fill the cooling system with the **Cooling Management Cart KL5007NAV**
12. Please update the case file with "new" installed ESN, this will be used for tracking warranty and quality concerns.

[ESN Fuel Injector IQA File Link](#)



WARNING:

Prior to engine start up the technician must add the correct amount of oil to the engine. To prevent fuel system concerns the fuel system must be primed with Fuel Priming Tool 12-922-01.



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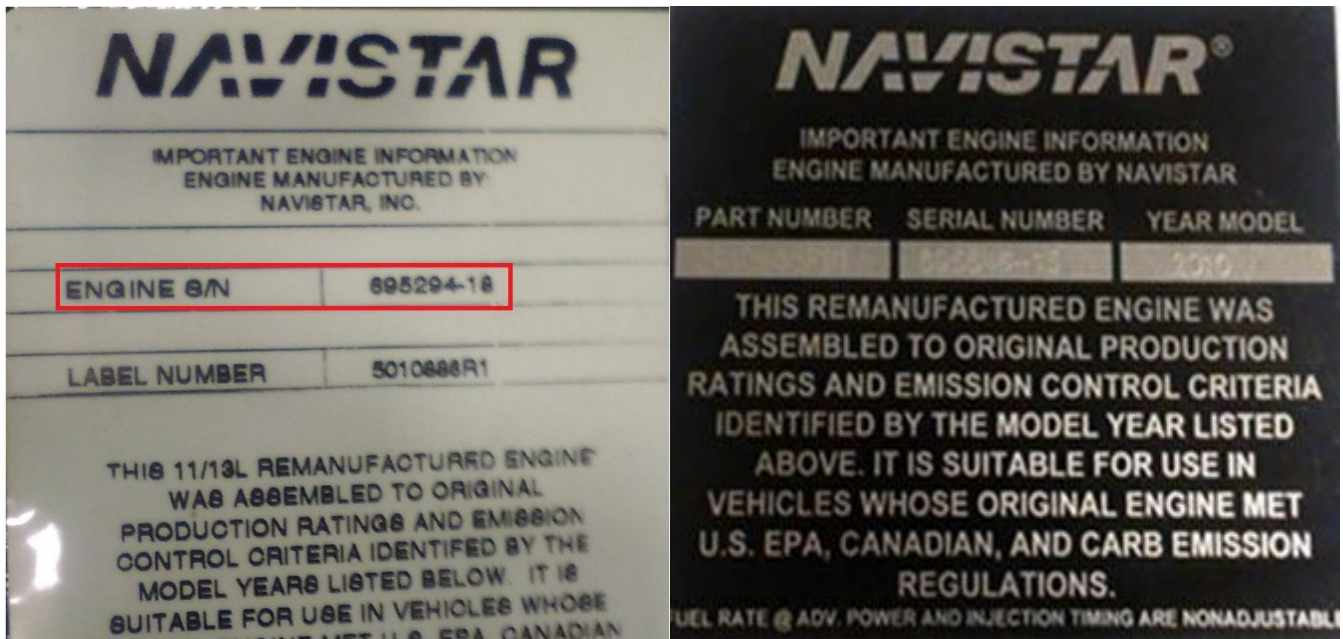
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Original "Sticker" ESN

Updated "Metal" ESN



Repair	Model	Engine	SRT	Hours
R&I Components/Transfer	ProStar 2010 to 2013 (Non-SCR)	MaxxForce 13L	R12-1051U-8	3.4

Parts

Long Block Assembly 5010885R91
 Long Block Plus Gasket Kit 2515613C91
 Fan Retrofit Kit 2515591C91

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