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Coding Information

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Title: Converting Long Block to Needed Configuration

Applies To: EPA 2010+ MaxxForce DT, 9, 10

CHANGE LOG

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

4/27/15 - Initial Article Release

DESCRIPTION

This document will guide the user through converting a long block from one configuration to another. In an attempt to efficiently use long block stock, Navistar will ship a long block in a different configuration to a dealer. It can be easily converted to the needed configuration by changing the flywheel housing and/or oil sump. These long blocks can be used to replace only the MaxxForce DT/9/10 engines.

If the parts that are on the current engine are still useable then they should be transferred over to the new engine. Otherwise, new parts should be ordered.

The table below should be used to determine what configuration must be installed. Match the long block part number to the correct changes in each respective row of the table. The flywheel and sump configurations and their respective parts can be found below in the Service Parts section of the article.

The "Long Block Part Number" is what will be shipped to the dealer and the "Reclass to" column describes the part number of the needed configuration.

Long Block Part Number	Description	Existing Flywheel	New Flywheel	Existing Sump	New Sump	Reclass to:
1889645C92	ENGINE STRIPPED LONG BLOCK 570	SAE #1A	SAE #2 BUS	Front	No change	1889644C92
1889646C92	ENGINE STRIPPED LONG BLOCK 570	SAE #1	SAE #2 BUS	Rear	Front	1889644C92
1889648C92	ENGINE STRIPPED LONG BLOCK 570	SAE #1A	SAE #2 BUS	Rear	Front	1889644C92
7079598C91	ENGINE STRIP LONG BLK FRT SUMP	SAE #1	SAE #2 BUS	Front	No change	7079599C91
7079600C91	ENGINE STRIP LONG BLK FRT SUMP	SAE #1	SAE #2 BUS	Front	No change	7079599C91
7079601C91	ENGINE STRIP LONG BLK FRT SUMP	SAE #1	SAE #2 BUS	Rear	Front	7079599C91
7079603C91	ENGINE STRIP LONG BLK FRT SUMP	SAE #1A	SAE #2 BUS	Rear	Front	7079599C91

SYMPTOM(s)

Not Applicable

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
Wacker® T – 442 RTV sealant	Obtain Locally		
Dial indicator set	Obtain Locally		
Guide pins	Obtain Locally		
H-bar puller	Obtain Locally		
Loctite 569 Hydraulic Sealant	Obtain Locally		
Loctite 5127	Obtain Locally		
Rear Seal Installer	ZTSE4637		
Slide Hammer Puller Set	ZTSE1879		

SERVICE PARTS INFORMATION

PLEASE NOTE: The only part differences between each kit are highlighted. If the parts listed here that are on the current engine are still useable then they should be transferred over to the new engine. Otherwise, new parts should be ordered.

The following are configurations for both received and needed engine long blocks:

FLYWHEEL:

For SAE #1 Flywheel configuration:

Kit Description	Part Number	Quantity Required	Notes
BOLT,HEX FLG M12X50*EM	1820606C1	8	
HOUSING ASSY,FLYWHEEL	1875323C94	1	
PLATE,COVER	686702C2	1	
BOLT,HEX FLANGE M6X16*	1817953C1	2	
ADHESIVE,BULK	4305624R1	1	

For SAE #1A Flywheel configuration:

Kit Description	Part Number	Quantity Required	Notes
BOLT,HEX FLG M12X50*EM	1820606C1	8	
HOUSING ASSY,FLYWHEEL	1875325C92	1	
PLATE,COVER	686702C2	1	
BOLT,HEX FLANGE M6X16*	1817953C1	2	
ADHESIVE,BULK	4305624R1	1	

For SAE #2 BUS Flywheel configuration:

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Kit Description	Part Number	Quantity Required	Notes
BOLT,HEX FLG M12X50*EM	1820606C1	8	
HOUSING ASSY,FLYWHL#2	1875324C93	1	
PLATE,COVER	686702C2	1	
BOLT,HEX FLANGE M6X16*	1817953C1	2	
ADHESIVE,BULK	4305624R1	1	

OIL PAN:

For REAR Oil Sump configuration:

Kit Description	Part Number	Quantity Required	Notes
GASKET,OIL SUCTION TUB	1841296C1	1	
TUBE ASSY,SUCTION REAR	1843690C1	1	
GASKET,OIL PAN	1836197C1	1	
BOLT,HEX FLG M8X35MM *	1817978C1	2	
BOLT,HEX FLG SPECIAL-M	1823281C1	18	
BOLT,M10X70 HEX *EMD12	1820916C1	1	
STIFFENER,OIL PAN RAIL	1840135C2	2	
STIFFENER,OIL PAN END	1840136C1	2	
LUB,ENG OIL(QTY IN QTS	1876871C1	34	
PAN ASSY,OIL W/HEATER	7078044C91	1	
GASKET,LIQUID(325+/-75	1830855C1	1	

For FRONT Oil Sump configuration:

Kit Description	Part Number	Quantity Required	Notes
GASKET,OIL SUCTION TUB	1841296C1	1	
TUBE ASSY,FR SUMP SUCT	1843449C2	1	
GASKET,OIL PAN	1836197C1	1	
BOLT,HEX FLG M8X35MM *	1817978C1	2	
BOLT,HEX FLG SPECIAL-M	1823281C1	18	
BOLT,HEX FLG M10X1.5X2	1817965C1	1	
STIFFENER,OIL PAN RAIL	1840135C2	2	
STIFFENER,OIL PAN END	1840136C1	2	
LUB,ENG OIL(QTY IN QTS	1876871C1	34	
PAN ASSY,OIL W/HEATER	7078044C91	1	
GASKET,LIQUID(325+/-75	1830855C1	1	

DIAGNOSTIC STEP(s)

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Not Applicable

REPAIR STEP(s)

Please refer to the engine's Service Manual for removal and installation instructions.

[Master Service Information](#)

WARRANTY INFORMATION

Warranty Claim Coding:

File a separate warranty code 55 Service Parts claim to charge the flywheel housing and/or the oil sump. Reference the engine replacement warranty claim number in the CCC section and also this iKnow article number (IK1201290). For the supporting document, attach a copy of your Repair Order to iClaim.

For replacement of one or both parts, code as:

Group:	12000 - ENGINES
Noun:	051 - Crankcase

Standard Repair Time(s):

Step	Description	Chassis	Engine	SRT	Hours
1	FLYWHEEL HOUSING, REPLACE	All Models	MaxxForce DT/9/10	A12-2180	2.1
2	OIL PAN AND/OR GASKET, REPLACE	HC Bus	EPA 2010 MaxxForce DT/9/10	E12-4591T	1.7
2	OIL PAN AND/OR GASKET, REPLACE	CE/BE	EPA 2010 MaxxForce DT/9/10	GY12-4591T	1.7
2	OIL PAN AND/OR GASKET, REPLACE	RE	EPA 2010 MaxxForce DT/9/10	I12-4591T	1.7
2	OIL PAN AND/OR GASKET, REPLACE	4300, 4400	EPA 2010 MaxxForce DT/9/10	KL12-4591T	1.7
2	OIL PAN AND/OR GASKET, REPLACE	7300, 7400, 7500	EPA 2010 MaxxForce DT/9/10	M12-4591T	1.7
2	OIL PAN AND/OR GASKET, REPLACE	RE/MOTORHOME	EPA 2010 MaxxForce DT/9/10	NH12-4591T	2.2

Include only one SRT for each step (i.e. one from 1, one from 2).

OTHER RESOURCES

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