

Authorized Field Change

AFC G-07912R

Date: January, 2008

Subject File: ENGINE

Subject: Inspect Drive Gear and/or Replace Power Steering Pump On MaxxForce 7 Engines

Model: 4300, CE Bus, BE Bus

Start Date: 04/04/2007 End Date: 05/02/2007

Engine Family: MaxxForce 7

DESCRIPTION

A small number of pre-production power steering pump drive gears were released to the power steering pump supplier that could result in the wrong gear being installed on the Maxxforce 7 engines. The center distance between the driving and driven gears may not be adequate for the gears to mesh without interference. This leads to stress, fatigue and spalling of the PS Pump gear teeth. It can eventually lead to low oil pressure symptoms resulting from metal in the oil pan, and eventually engine failure.

PARTS INFORMATION

Based upon the Inspection results, if only the power steering pump requires replacement, use the parts table below to determine the pump needed.

Table 1 [Table 1 Power Steering Pump Replacement Information](#)

Part Number	Description	Quantity
3811259C91	Power Steering Pump for (Air Brake Chassis)	1
3811260C91	Power Steering Pump for (Hydraulic Brake Chassis)	1

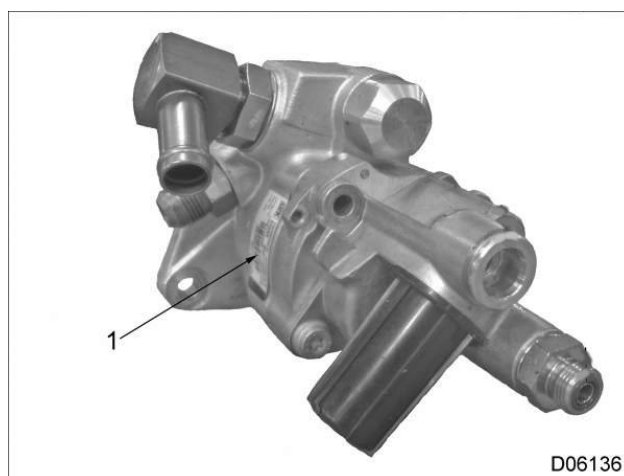


Figure 1 Illustration of Part Number Location

1. Part Number and Pump Description Location

INSPECTION PROCEDURE

! WARNING – To prevent personal injury or death, shift transmission to park or neutral, set parking brake, and block wheels before doing diagnostic or service procedures.

! WARNING – To prevent personal injury or death, make sure the engine has cooled before removing components.

! WARNING – To prevent personal injury or death, do not let engine fluids stay on your skin. Clean skin and nails using hand cleaner and wash with soap and water. Wash or discard clothing and rags contaminated with engine fluids.

1. Inspect Power Steering Pump Label: if no lot code label is found on the pump or it has an '06 build year, replace the pump (see Figure 2).
2. If Label has a lot code with 07 build year, no repair is needed (see Figure 2).



Figure 2

INSPECTION PROCEDURE (CONT.)

REMOVE POWER STEERING PUMP

- A. If pump replacement is required, inspect the drive gear teeth after removal of the power steering pump.
- B. If no gear tooth wear is found, only replace the power steering pump.
- C. If there is a indication that the tip of the teeth has wear that appears to be metal movement, or rolling over the tip of the tooth, open a tech service case file and you will be provided further instructions.

GOVERNMENT REGULATION: Engine fluids (oil, fuel, and coolant) may be a threat to the environment. Recycle or dispose of engine fluids according to applicable regulations. Never put engine fluids in the trash, on the ground, in sewers or bodies of water.

Operation number must appear on all claims.

Table 2 Labor Information

Operation No.	Description	Time
A40-07912-1	Inspection only, for date code on Power Steering Pump	0.2 Hr.
A40-07912-2	Replacement of Power Steering Pump only	1.6 Hrs.
A40-07912-3	Remove and Replace Power Steering / Fuel Pump Gears and Pump with Automatic Transmission	5.0 Hrs.
A40-07912-4	Remove and Replace Power Steering / Fuel Pump Gears and Pump with Manual Transmission	5.3 Hrs.
A40-07912-5	Add on for Rear Gear Replacement with a PTO	0.5 Hr.

ADMINISTRATIVE PROCEDURE

Expense is to be charged to Warranty. Claims are to be submitted in the normal manner, making reference to Authorized Field Change Number G-07912

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Manual, Section 7-1. Special attention should be given to Items 39 through 44.

To assure this important improvement is made in a timely manner, all claims for G-07912 activity must be submitted by January 31, 2009 or within the normal warranty period for the vehicle, if after January 31, 2009.

	GROUP	NOUN	C	WARR.	TP	PAD
GROUP Enter number G—						
NOUN Leave blank						
C (CAUSE) Enter either 1, 2, 3. (see below)						
1. Inspected (No repair required).						
2. Inspected and repaired.						
3. Defective part from parts stock.						
WARRANTY (Warranty Code) Enter 40.						
TYPE PART Enter P for type part causing failure.						
PAD Enter 100						

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