

Authorized Field Change



AFC 12948

Date: December 2012

Subject File: ENGINE

Subject: 2007 MaxxForce® 7 Electronic Control Module (ECM) Recalibration for Vehicles Marked in AFC 12948

Model: DuraStar® and RXT

Start Date: 07 February 2007 End Date: 19 July 2010

Model: 3200, BE C Bus, BE S Bus, CE C Bus, CE S Bus, and HC C Bus

Start Date: 24 March 2007 End Date: 31 August 2010

Model: WorkHorse®

Start Date: 22 December 2008 End Date: 25 August 2010

Engine Family: 2007 MaxxForce® 7

DESCRIPTION

This AFC applies to certain bus and truck models (listed above) that were built with MaxxForce® 7 engines between 7 February 2007 through 31 August 2010. This campaign will require recalibration of the engine ECM, cleaning of the diesel oxidation catalyst (DOC), inspection for plugged exhaust back pressure (EBP) tube, and resetting the oil level. This will reduce excessive fuel dilution and DOC face-plugging issues.


AFC 12948 is applicable only to certain vehicles marked in International® Service Portal™ with AFC 12948.


PARTS INFORMATION


Table 1. [Parts Information](#)


Part Number	Description	Quantity
2593986C1	DPF Gasket (as needed)	1


SERVICE PROCEDURE

 **WARNING:** Park vehicle on hard flat surface, turn the engine off, set the parking brake, and block the wheels to prevent the vehicle from moving in both directions. Failure to do so may result in property damage, personal injury, and / or death.

 **WARNING:** If the vehicle must be raised, do not work under the vehicle supported only by jacks. Jacks can slip or fall over, potentially resulting in property damage, personal injury, and / or death.

 **WARNING:** Always wear safe eye protection when performing vehicle maintenance. Failure to do so may result in serious eye injury.

 **WARNING:** Keep flames or sparks away from vehicle and do not smoke while servicing the vehicle's batteries. Batteries expel explosive gases. Failure to do so may result in property damage, personal injury, and / or death.

 **WARNING:** Remove the ground cable from the negative terminal of the battery box before disconnecting any electrical components. Always connect the ground cable last. Failure to do so may result in property damage, personal injury, and / or death.

ECM RECALIBRATION

1. Verify ECM has latest software by referring to vehicle calibration scorecard on International[®] Service Portal[™] system.
 - a. If calibration scorecard indicates that calibration is not current, engine must be reprogrammed.
 - ECM programming method for 2007 MaxxForce[®] 7 engines is to use NETS or AutoUpgrade. For instructions, see IK2600010 - NETS Programming and Troubleshooting Guide. Use Update to Latest Calibration programming option or IK2600082 - Auto Upgrade Programming Instructions. For PocketMaxx[™]: IK3300001 - Updating Engine Calibrations with PocketMaxx[™].
 - These articles provide general information about each reprogramming method and software, with links to specific instructions for each.
- NOTE: If AutoUpgrade or PocketMaxx[™] functionality is not available, use NETS.**
2. If assistance is required, contact Vehicle Programming by creating an iKNow case file, or by calling 1-800-336-4500 and selecting options 3, 1, and 1.

EXHAUST BACK PRESSURE (EBP) TUBE INSPECTION

1. Park vehicle on flat surface, shift transmission to park or neutral, and set parking brake.
2. Install wheel chocks.
3. Open hood.
4. Remove inner fender.
5. Remove air cleaner harness.
6. Remove air cleaner and bracket.
7. Disconnect EBP sensor harness connector.
8. Remove EBP sensor.
9. Make sure all tools and parts are secured so they will not fall.
10. Start engine and check for exhaust discharge from EBP tube.
 - A. If no exhaust is observed from EBP tube, a case file must be created for the proper repair procedure.
 - B. If exhaust is observed from EBP tube, follow the remaining steps of this procedure.
11. Stop engine.
12. Install EBP sensor.
13. Torque EBP sensor to 15 lb-ft (20 N·m).
14. Reconnect EBP sensor harness connector.
15. Install air cleaner bracket and air cleaner.
16. Install air cleaner sensor harness.
17. Install inner fender.

SET ENGINE OIL LEVEL

1. Check engine oil.
 - A. If oil level is above Max or Full mark on dipstick, drain oil from engine until oil is at Max or Full mark.
2. Close hood.

DIESEL OXIDATION CATALYST (DOC) CLEANING

1. DOC cleaning is required after calibration is complete. Refer to IK1200478 - On-Vehicle DOC Cleaning MaxxForce® 7 Engines.
2. Remove wheel chocks.

LABOR INFORMATION

Operation number must appear on all claims.

Table 2. Labor Information

Operation No.	Description	Time
A40-12948-1	Inspect EBP Tube, Clean DOC, Recalibrate ECM, Adjust Oil Level	1.7 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-12948.

It is important that the coding be completed properly to assist in processing the warranty claim. Complete instructions will be found in the Warranty Policy Manual, Section 7.1.8.

As with all claim submissions, items acquired locally must be submitted in the "Other Charges" tab. The cost of any bulk items (such as a bag of cable tie straps, roll of wire, barrel of oil, or tube of silicone) should be prorated for the cost of the individual pieces / amount used during each repair.

To ensure this important improvement is made in a timely manner, all claims for G-12948 activity must be submitted by 30 December 2013 or within the normal warranty period for the vehicle, if after 30 December 2013.

