

Authorized Field Change



AFC 13904

Date: January 2013

Subject File: Engine

Subject: Body controller software update and MaxxForce® 13 Electronic Control Module (ECM) recalibration for certain vehicles marked in Service Portal™ with AFC 13904 to update the cruise control software and provide engine protection against increase in engine RPM while vehicle is idling (only in parked state or if vehicle is not moving).

Model: LoneStar®, ProStar®, and TranStar®
Start Date: 29 March 2012 End Date: 31 December 2012
Engine Family: MaxxForce® 13

DESCRIPTION

Cruise Control

Certain vehicles may experience cruise control disengaging while driving. An updated body controller software version has been released. The new software data version level is 169. This AFC is applicable only to certain vehicles marked in Service Portal™ with AFC 13904.


ECM Recalibration


Certain 2010, 2011, and 2012 MaxxForce® 13 engines may experience increase in engine RPM while idling (only in parked state or if vehicle is not moving). To prevent engine damage, this campaign will require recalibration of the engine ECM to software level 3.12, which will reduce back pressure setpoints and increase RPM setpoints. The software is applicable only to certain vehicles marked in Service Portal™ with AFC 13904.


PARTS INFORMATION


No parts are required for this AFC.


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.

 **WARNING:** Always make sure engine has cooled before removing components. Failure to do so may result in property damage, personal injury, and / or death.

CRUISE CONTROL UPDATE

1. Program body controller using [Diamond Logic Builder® \(DLB\)](#). For instructions, see [IK1600174 - Body Controller Software Version \(Kernel\)](#).

ECM RECALIBRATION

1. Check to see if ECM has latest software by referring to vehicle calibration scorecard in Service Portal™ system. If calibration scorecard indicates that calibration is not current, engine must be reprogrammed to raise calibration to 3.12.

ECM RECALIBRATION (CONT.)

2. Program ECM using NETS or AutoUpgrade. For instructions, see [IK2600010 - NETS Programming and Troubleshooting Guide](#). Use the Update to Latest Calibration programming option or follow [IK2600082 - AutoUpgrade Programming Instructions](#).
 - These articles contain general information about each reprogramming method and software, with links to specific instructions for each.

NOTE: If AutoUpgrade functionality is not available, use NETS.

3. If assistance is needed, contact Vehicle Programming by creating an iKNOW case file or calling 1-800-336-4500, options 3, 1, 1.

LABOR INFORMATION

Operation number must appear on all claims.

Table 1. Labor Information

Operation No.	Description	Time
A40-13904-1	ECM Re-Flash	0.4 hrs
A40-13904-2	Body Controller Update	0.2 hrs

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-13904.

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-13904 activity must be submitted by 31 January 2014 or within the normal warranty period for the vehicle, if after 31 January 2014.

