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Coding Information

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Title: ECM Diagnostics with the Programming Station

Applies To: Post 2010 MaxxForce 11/13L Engines

CHANGE LOG

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

10/22/2015 - Author updated for feedback purposes.
 8/22/2014 - Fixed link to Control Module Programming Station Tool Instructions

Description

The programming station can be a useful diagnostic aid for checking ECM related faults. With the tool connected, it will send separate the vehicle level wiring from the ECM. The tool supplies the ECM with dedicated power, ground, and data link wiring.

Connections

Leave the ECM on the engine. Then connect the programming station to the ECM, first disconnect C2 from the ECM, then C1. Connect the ECM interface harness part number (12-801-01-02) to C1 of the ECM. Connect the ECM interface harness to the programming station(12-801-01-01), and the 12 volt power supply(12-801-01-08) to the programming station. Now, connect your desired interface to the 9 pin connector on the programming station. Reconnect C2.



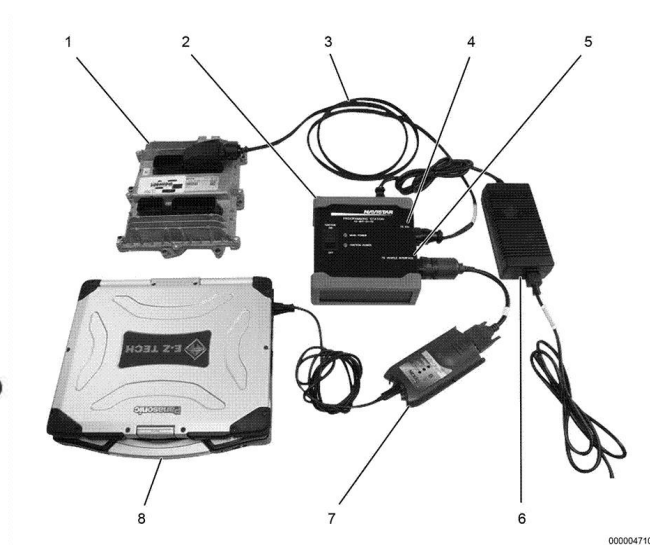
0000047124



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Fault Codes

With the harness connected to C1 of the ECM, no additional fault codes will be induced. If the fault code is still present with C2, E1 and E2 connected, then disconnect the ECM connector that is associated with that circuit. If the code goes away, then the problem is not the ECM and pin point circuit diagnostics are necessary. See the table below for a list of fault codes that will be present with C2, E1, and E2 disconnected.

Expected fault codes with all ECM connectors disconnected

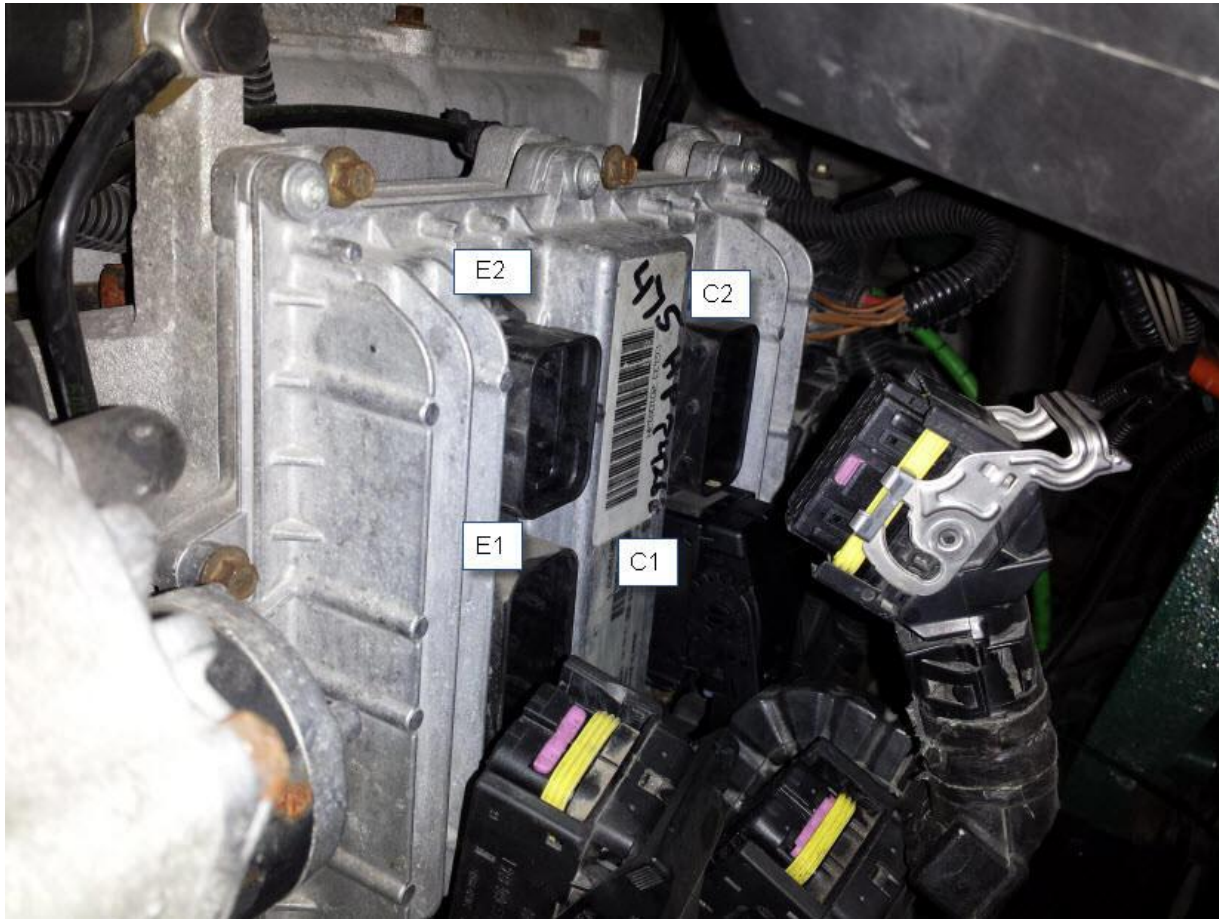
SPN	FMI	Description
157	3	FRP Signal Out of Range High
633	5	FPCV Open Load/Circuit
3246	3	DPFOT Signal Out of Range High
3251	4	DPFDP Signal Out of Range Low
3479	6	AFT Fuel Doser Valve High Side Short Circuit
3480	3	AFTFP1 Signal Out of Range High
4077	3	AFTFP2 Signal Out of Range High
4765	3	DOCIT Signal Out of Range High

4766	3	DOCOT Signal Out of Range High
5543	5	EBPC Open Load/Circuit

ECM Communications

If ServiceMaxx was unable to obtain a connection with the ECM connected to the factory harness, and connecting by connecting the programming station, connection can now be obtained, then the ECM is not the issue. Likewise, if you are unable to program the ECM while connected to the truck's wiring, but can while connected to the programming station, then the ECM is not the issue.

ECM Connector Locations



Additional Resources

[Control Module Programming Station Tool Instructions](#)

[MaxxForce 11/13L Wiring Diagram](#)

[MaxxForce 11/13L Engine Diagnostic Manual](#)

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