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Document ID: IK1200438

Availability: ISIS, FleetSIS

Revision: 2

Major System: ENGINES

Created: 1/23/2010

Current Language: English

Last Modified: 7/28/2015

Other Languages: [Français](#), [Español](#),

Author: Jay Weston

Viewed: 5444

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Coding Information

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Title: 2007 MaxxForce® 11/13L DTC 6315, 6317, and 6318

Applies To: 2008 - 2009 MaxxForce® 11 and 13 Engines

CHANGE LOG

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

7/28/2015 - Fixed some article formatting
6/23/2015 - Updated Article Heading and fixed broken links
10/16/2014 - Initial Article Release

DESCRIPTION

MaxxForce® 11 / 13 engines may set DTCs 6315, 6317, and 6318 when connected to by a EST (Engine Service Tool). When connected to the vehicle with a EST(Engine Service Tool) and viewing parameters or signals it is possible that DTC's 6315, 6317, and / or 6318 may set as "active". This is due to the tool requesting information from the engine controllers individually, witch causes the communication on the J1939 between the modules to pause are be delayed.

SYMPTOM(s)

DTC's 6315, 6317, and / or 6318 Active or Inactive when connected to the ECM by EST (Engine Service Tool). Faults will cause an amber warning light while connected but may become inactive when service tool is disconnected and the ignition key is cycled. The Amber Warning Light will go out at that time.

Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):

DTC/Light	Description
6315	ACM CAN Message not received from ECM
6317	EIM CAN Message not received from ACM
6318	EIM CAN Message not received from ECM

SPECIAL TOOL(s) / SOFTWARE

Tool Description	Tool Number	Comments	Instructions
EST (Engine Service Tool)			

SERVICE PARTS INFORMATION

Kit Description	Part Number	Quantity Required	Notes
NA	NA	NA	

DIAGNOSTIC STEP(s)

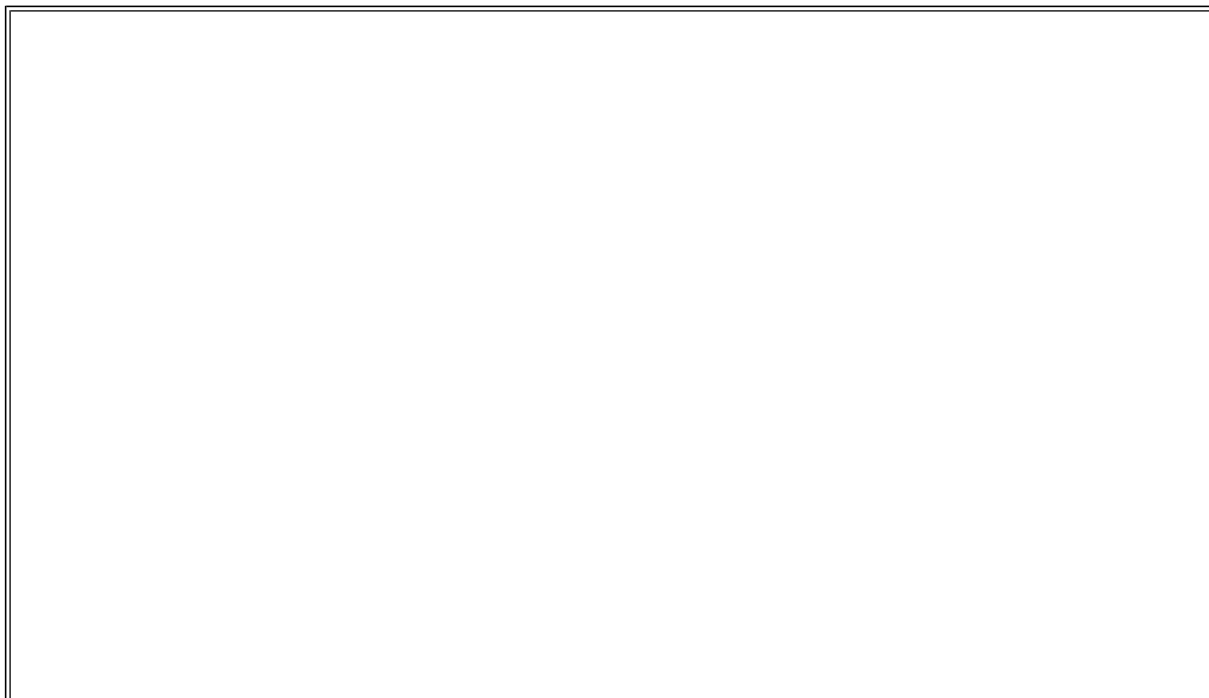
Step	Action	Decision
1.	DIAGNOSTIC: Are the DTC's Active Are one or all the DTC's active that are in the Table above?	Yes. Proceed to Step 2
		No. Diagnostics Complete

Step	Action	Decision
2.	DIAGNOSTIC: Confirm the complaint An interview with the drive will need to be performed. Is the complaint a Crank No Start?	Yes. Proceed to Step 3.
		No. Fault codes are considered normal when connected to the truck via EST (Engine Service Tool). Diagnostics Complete.

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Step	Action	Decision
3.	DIAGNOSTIC: Load Test Circuit Load testing the VIGN (Vehicle Ignition) circuit is need to verify the ECM is seeing KO (Key On). Load Test VIGN circuit from Pin 36 of the E2 connector on the ECM using a head light. Did the Circuit Pass the Load Test?	Yes. Proceed to Hard Start Not Start Diagnostics.
		No. Overlay circuit from the 1702 Pin 37 to E2-36 bypassing the 21 way connector.

VIGN Circuit



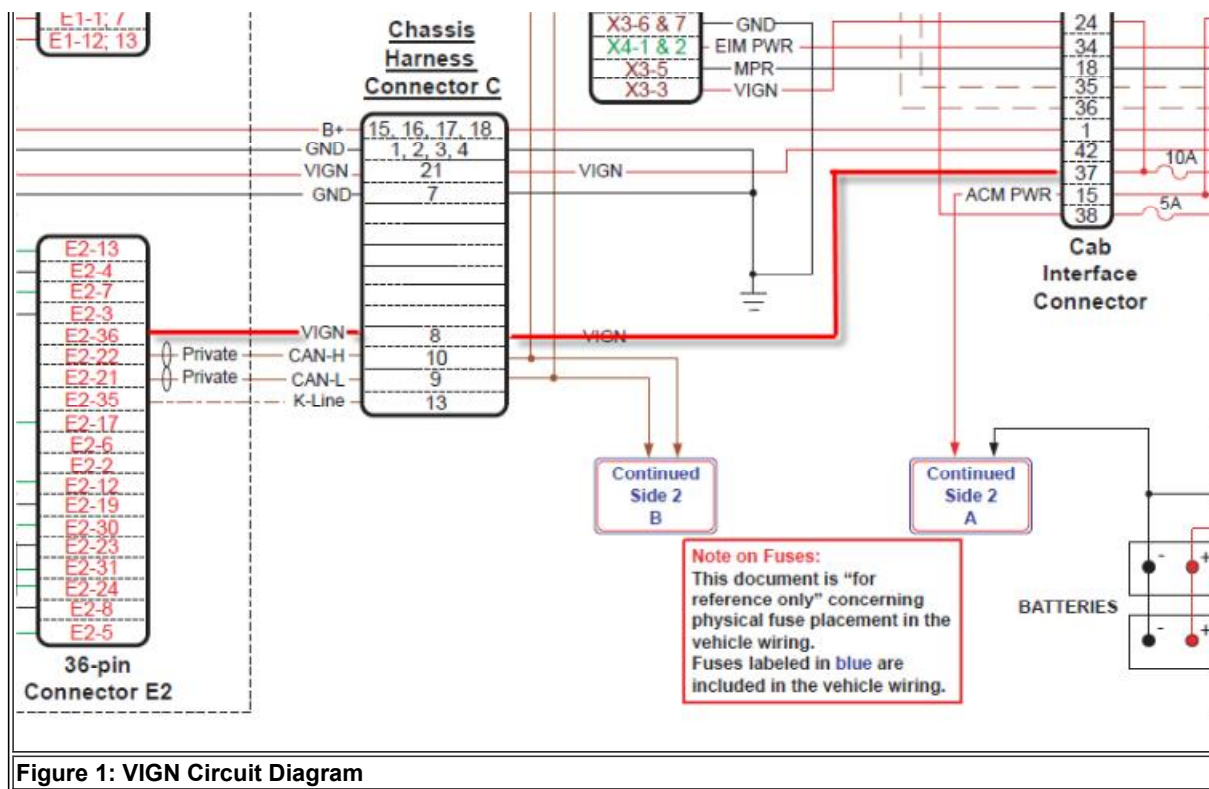


Figure 1: VIGN Circuit Diagram

ECM Connector Locations

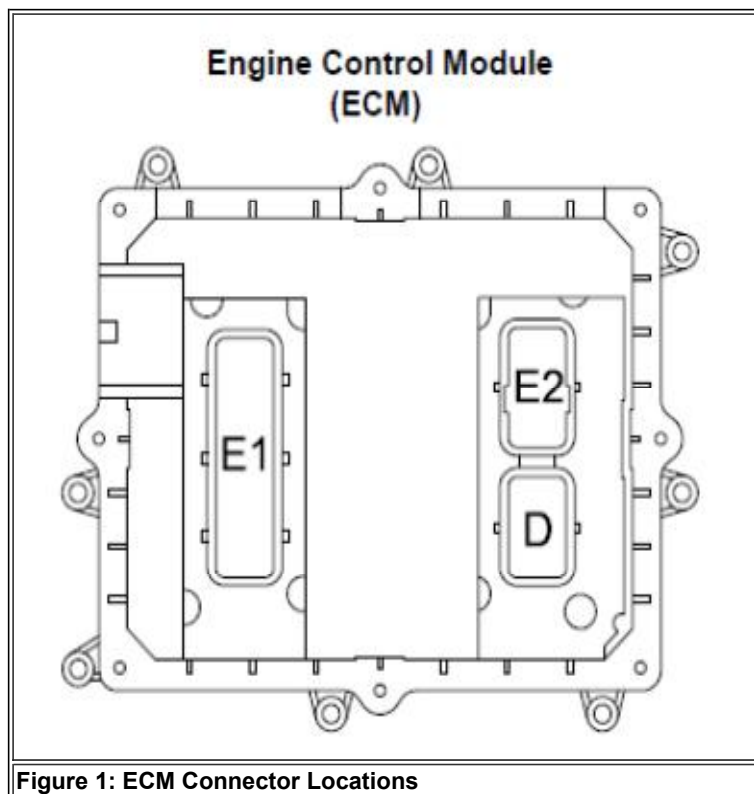


Figure 1: ECM Connector Locations

Additional Information

Verifying the controllers communicate:

To detect if a controller is communicating check the sensors that the controller detects.
All the sensors that are detected by the ECM.

- Engine Retarder
- ECT - Engine Coolant Temp
- ECT2 - Engine Coolant Temp 2
- MAT - Manifold Air Temp
- MAP/IAT2 - Manifold Air Pressure/ Intake Air Temp 2
- EOP - Engine Oil Pressure
- EOT - Engine Oil Temp
- FRP - Fuel Rail Pressure
- EFP - Engine Fuel Pressure
- CMP - Camshaft Position Sensor
- CKP - Crankshaft Position Sensor
- EGRV - Exhaust Gas Recirculation Control Valve
- EGRP - Exhaust Gas Recirculation Position
- BCS - Boost Control Solenoid
- ITV - Intake Throttle Valve
- FPCV - Fuel Pressure Control Valve
- CMV - Coolant Mixer Valve
- ELS - Exhaust Lambda Sensor

All the Sensor that the EIM Detects.

- CSR - Cold Start Relay
- CSS - Cold Start Solenoid
- Glow Plug
- IAT - Intake Air Temp
- Engine Fan Control
- ECL - Engine Coolant Level
- APS/IVS - Accelerator Position Sensor/Idle Validation Switch

All the Sensors that the ACM Detects.

- EGT1 - Exhaust Gas Temperature 1
- EGT2 - Exhaust Gas Temperature 2
- EGT3 - Exhaust Gas Temperature 3
- EGD - Exhaust Gas Differential Pressure Sensor
- AFP - Aftertreatment Fuel Pressure Sensor
- AFS - Aftertreatment Fuel Supply Valve
- AFD - Aftertreatment Fuel Drain Valve
- AFI - Aftertreatment Fuel Injector

WARRANTY INFORMATION

Warranty Claim Coding:

Group:	As Repaired
Noun:	As Repaired

Standard Repair Time(s):

Not Applicable

Step	Description	Chassis	Engine	SRT	Hours

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OTHER RESOURCES

[Master Service Information Site](#)



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