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Coding Information

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**Title: Cummins ISX 15L with Multiple ECM Faults**

**Applies To: 2013 LoneStar, ProStar, TranStar, and 9900i with Cummins ISX 15L**

## **CHANGE LOG**

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

5/20/2014 - Updated article format to include Symptom and Warranty Information sections, inserted new pictures and added connectors 9253 and 9260.

## **DESCRIPTION**

If experiencing multiple faults related to the Aftertreatment, DEF, or SCR on a vehicle with a Cummins ISX 15L, locate the ECM power and ground wires and inspect the connections.

1. For vehicles built before September 23, 2013, inspect connector 1027 - ECM Battery Feed, which is secured to the J-Tray Starter Bracket (IMPORTANT!). Also inspect connector 9253 - Batt ECM Positive and connector 9260 - Battery Negative, located in the battery box.
2. For vehicles built on or after September 23, 2013, the 1027 connector was removed. Inspect connector 9253 - Batt ECM Positive and connector 9260 - Battery Negative.

## **SYMPTOM**

If three (3) or more of the fault codes listed below are active, continue to the repair procedure.

Fault Codes and Dashboard Indicator Lights:

SPN	FMI	Cummins FC	Lamp	Description
3216	2	3228	Amber	Aftertreatment Intake NOx Sensor - Data Erratic, Intermittent, or Incorrect
3361	2	2976	Amber	Aftertreatment Diesel Exhaust Fluid Dosing Unit Temperature - Data Erratic, Intermittent, or Incorrect
5848	9	3911	Amber	Aftertreatment 1 SCR Intermediate NH3 Sensor - Abnormal Update Rate
3216	9	3232	Amber	Aftertreatment 1 Intake NOx Sensor - Abnormal Update Rate
3226	9	2771	Amber	Aftertreatment 1 Outlet NOx Sensor - Abnormal Update Rate
5743	4	4165	Amber	Aftertreatment Selective Catalytic Reduction Temperature Sensor Module - Voltage Below Normal or Shorted to Low Source

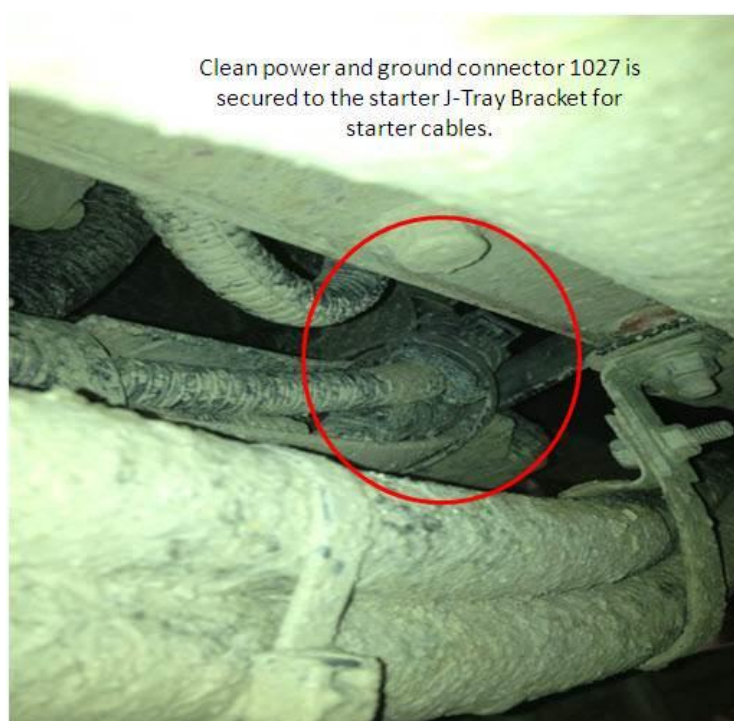
5743	9	4152	Amber	Aftertreatment Selective Catalytic Reduction Temperature Sensor Module - Abnormal Update Rate
639	9	285	Amber	SAE J1939 Multiplexing PGN Timeout Error - Abnormal Update Rate
5742	4	4162	Amber	Aftertreatment Diesel Particulate Filter Temperature Sensor Module - Voltage Below Normal or Shorted to Low Source
5742	9	4151	Amber	Aftertreatment Diesel Particulate Filter Temperature Sensor Module - Abnormal Update Rate
3031	9	4572	Amber	Aftertreatment 1 Diesel Exhaust Fluid Tank Temperature - Abnormal Update Rate

## **REPAIR PROCEDURE**

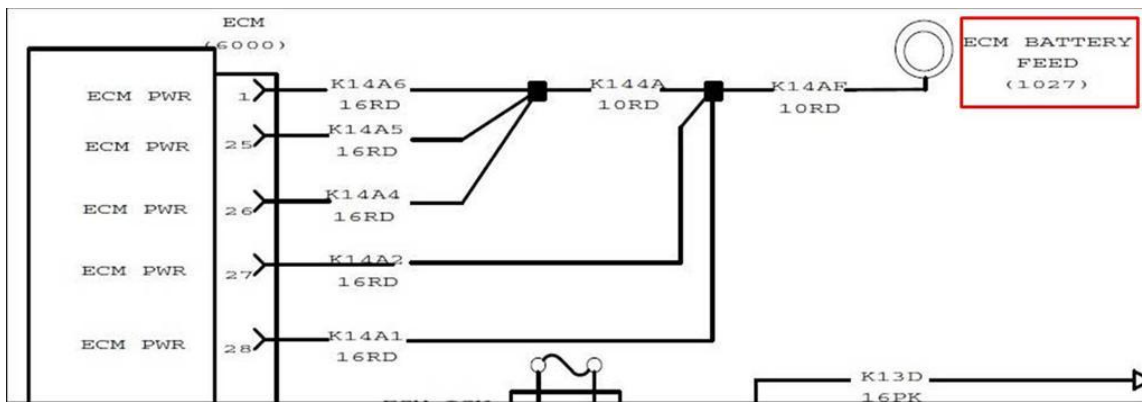
### **\*\*IMPORTANT\*\*IMPORTANT\*\*IMPORTANT\*\***

*For vehicles built before September 23, 2013:*

1. Locate connector 1027 - ECM Battery Feed on the J-Tray Starter Bracket, as shown in Figure 1 below
2. Disconnect connector 1027
3. Check the terminals for damage, bent pins, or corrosion
4. If damage is found, follow the repair procedure in iKNow Article [Proper Wire Repair](#) and remove the connector from both circuit
5. Make sure it is fully seated and the pins are not damaged



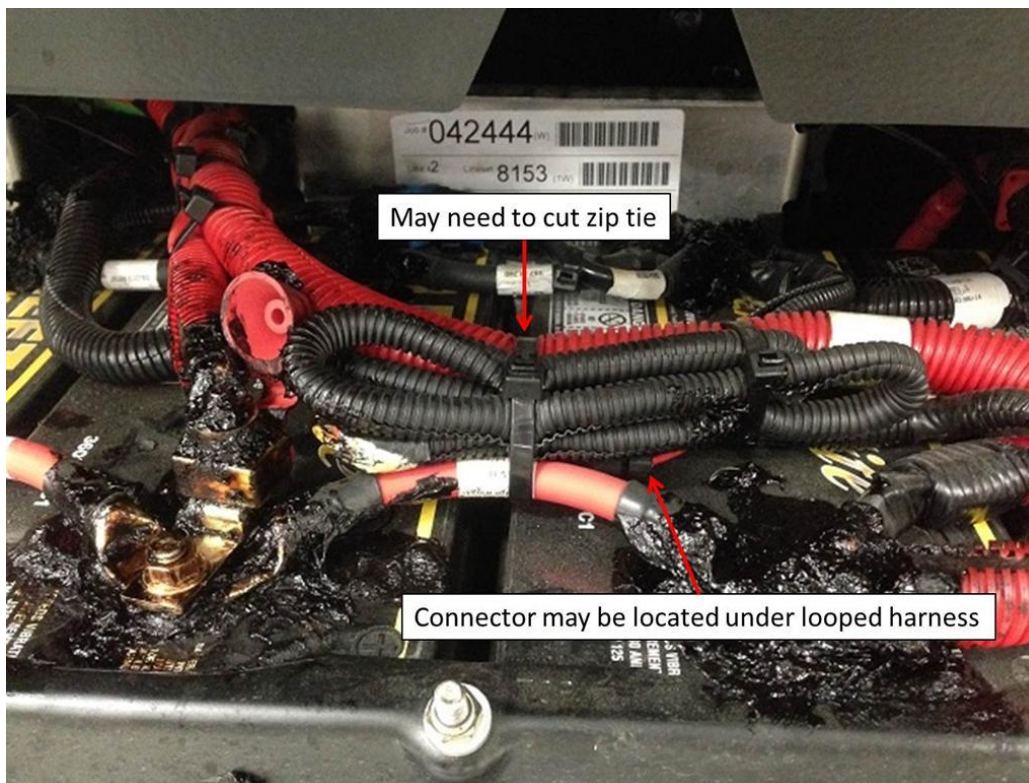
**Figure 1:** Connector 1027 - ECM Battery Feed on Vehicle



**Figure 2:** Connector 1027 - ECM Battery Feed Schematic

For ALL vehicles:

1. Locate connector 9253 - Batt ECM Positive and connector 9260 - Battery Negative in the battery box, shown in Figures 3 and 4 below
2. Disconnect connector 9253 and connector 9260
3. Check the terminals for damage, bent pins, or corrosion
4. If damage is found, follow the repair procedure in iKNow Article [Proper Wire Repair](#) and remove the connector from both circuits
5. Make sure it is fully seated and the pins are not damaged



**Figure 3:** Battery Box

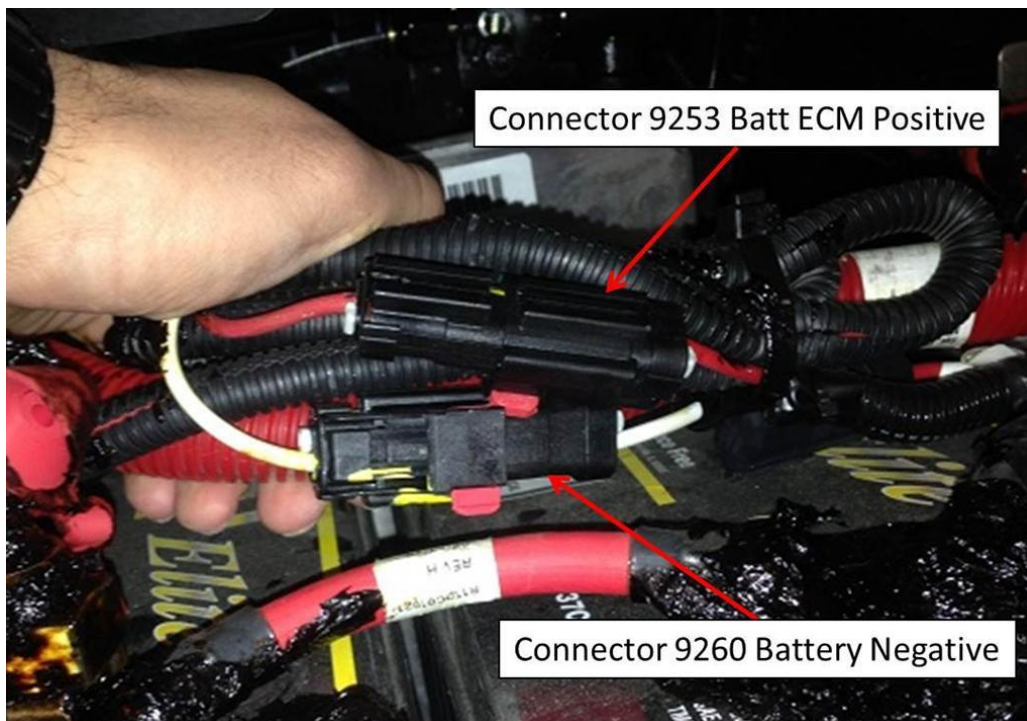


Figure 4: Connectors 9253 and 9260 on Vehicle

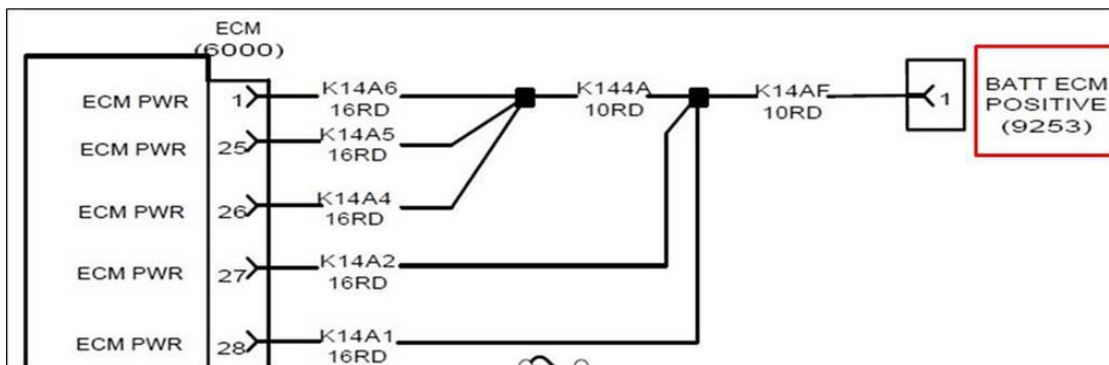
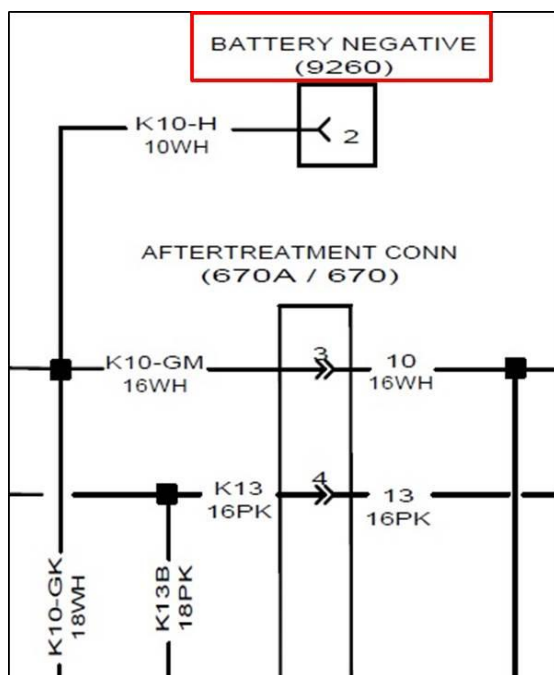


Figure 5: Connector 9253 - Batt ECM Positive Schematic



**Figure 6:** Connector 9260 - Battery Negative Schematic

### WARRANTY INFORMATION

Warranty Claim Coding:

<b>Group:</b>	08550 - Batteries
<b>Noun:</b>	743 - Clean Power Cable (Battery to Engine Connection)

Standard Repair Time:

Description	SRT Link	Hours
Battery Ground Cable, Replace	<a href="#">A08-3150</a>	0.4

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