



Countries: CANADA, COLOMBIA, UNITED STATES, PUERTO RICO
Availability: ISIS, FleetSIS
Major System: ELECTRICAL SYSTEM
Current Language: English
Other Languages: NONE
Viewed: 1846

Document ID: IK0800426
Revision: 2
Created: 5/17/2013
Last Modified: 6/2/2014
Author: Will (Mark) Wiley

[Less Info](#)
[Hide Details](#)
Coding Information

Copy Link	Copy Relative Link	Bookmark	Add to Favorites	Print	Provide Feedback	Helpful	Not Helpful
		View My Bookmarks				13	3

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

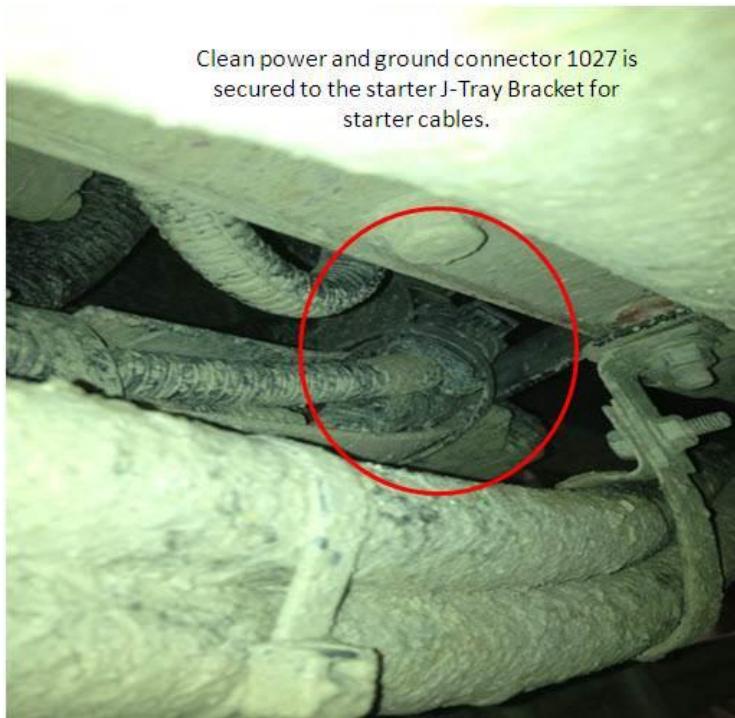


Figure 1: Connector 1027 - ECM Battery Feed on Vehicle

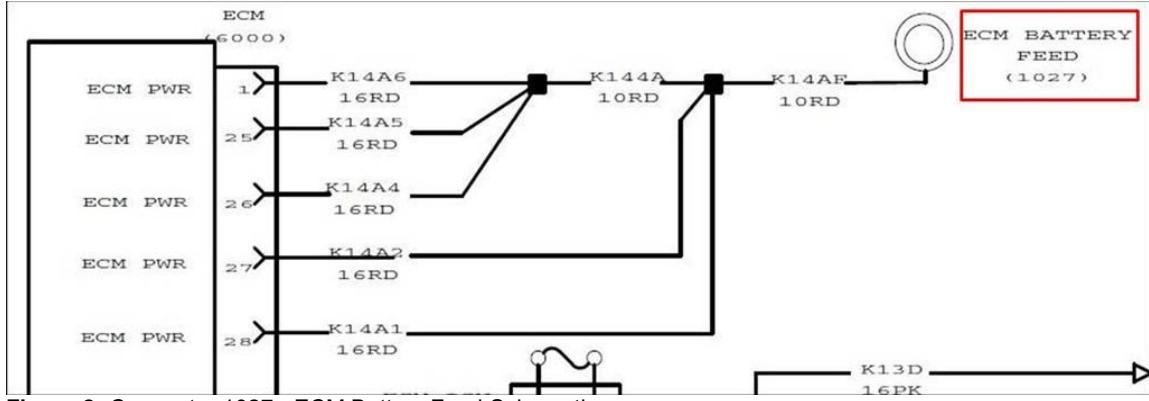


Figure 2: Connector 1027 - ECM Battery Feed Schematic

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

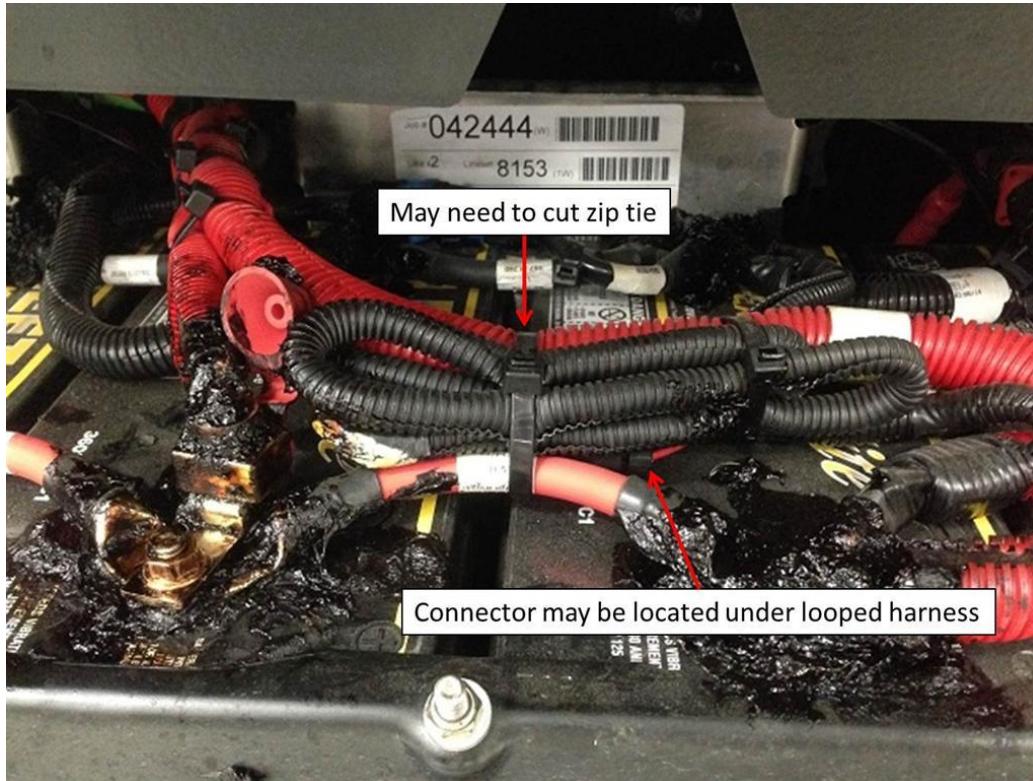


Figure 3: Battery Box

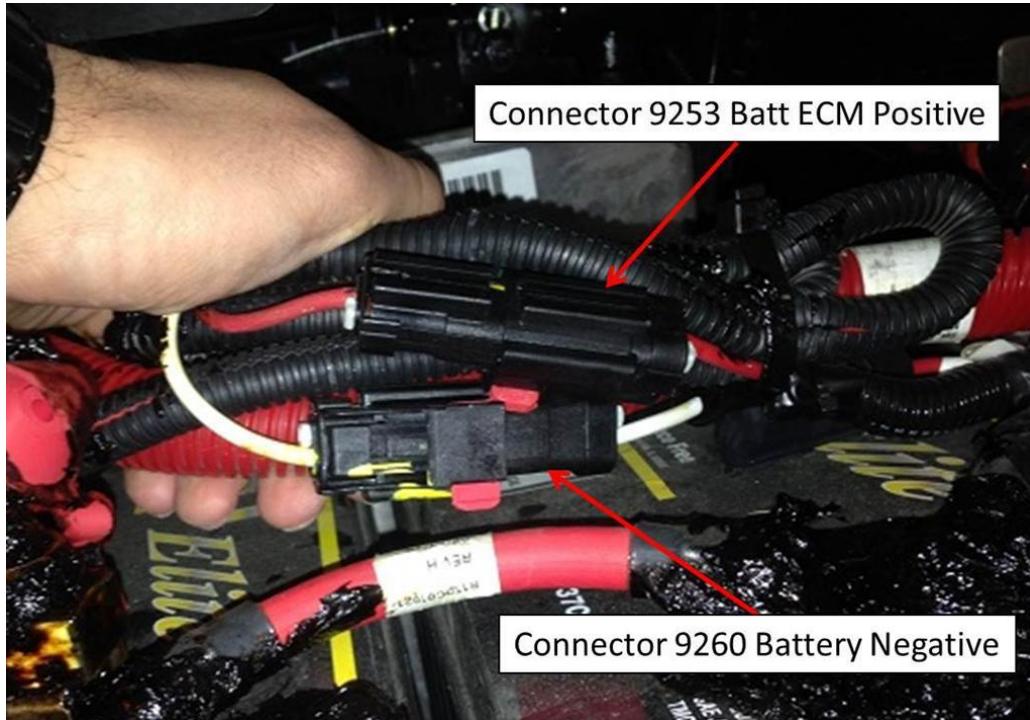


Figure 4: Connectors 9253 and 9260 on Vehicle

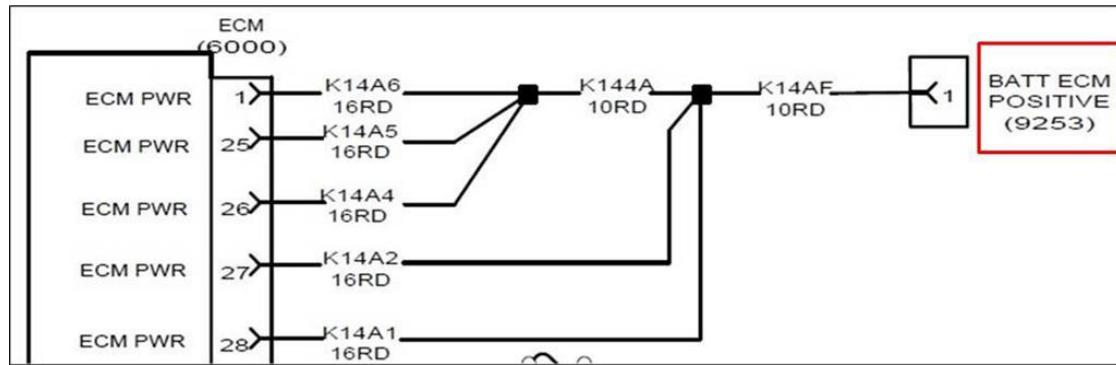


Figure 5: Connector 9253 - Batt ECM Positive Schematic

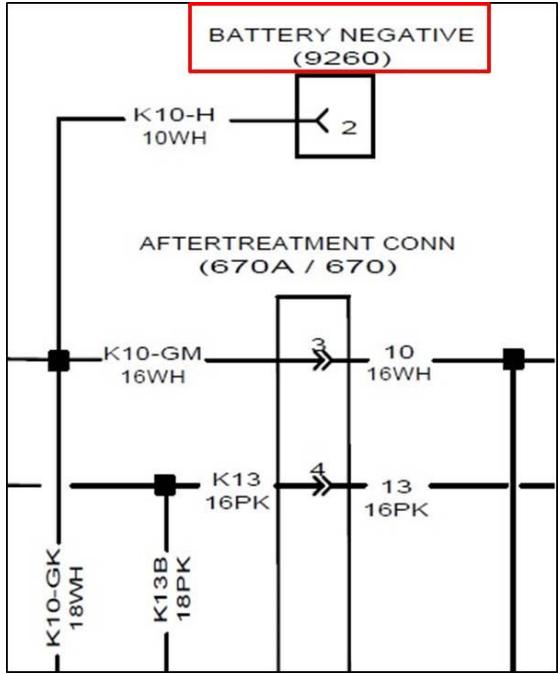


Figure 6: Connector 9260 - Battery Negative Schematic

WARRANTY INFORMATION

Warranty Claim Coding:

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

Standard Repair Time:

Description	SRT Link	Hours
Battery Ground Cable, Replace	A08-3150	0.4

[Hide Details](#)

Feedback Information	
Viewed:	1845
Helpful:	13
Not Helpful:	3
No Feedback Found	

Copyright © 2014 Navistar, Inc.