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Countries:

Availability: ISIS, Bus ISIS, FleetISIS, Body Builder

Major System: ELECTRICAL SYSTEM

Current Language: English

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

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Coding Information

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Title: The First Check to make when Troubleshooting any Body Controller or ESC Issue

Applies To: All Vehicles with ESCs or Body Controllers

Change Log

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

12/14/2015 - Added Gen4 BCM information.
04/01/2015 - Updated link to ProStar Circuit Diagram.

Description

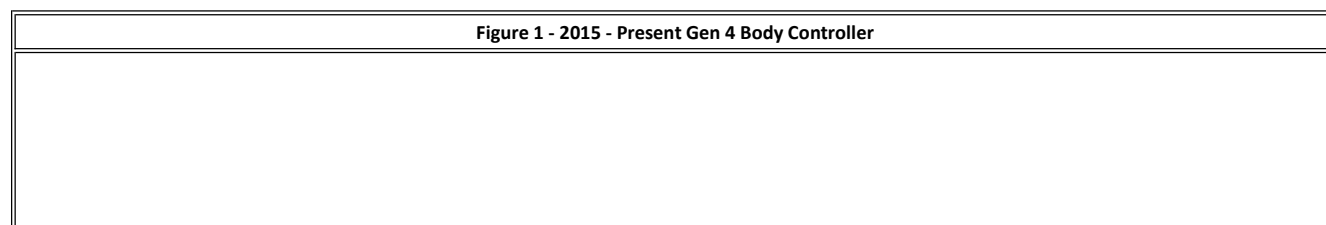
This outlines how to verify the 2015-Current Body controller, the 2007-2015 Body Controller, and pre-2007 ESC is receiving proper voltage and ground inputs to power up properly.

Troubleshooting

1. Hook up DLB and monitor these pins in DLB. There should be a check mark next to both the **ignition**, **accessory** and **power feed** signals. Don't go by the voltage number reading in DLB, it isn't accurate. Only look for the check marks. You will probably see that one of these three signals is not getting a check mark beside it.
2. Hook up your break out box to the 1600 connector of the Body Controller and check the voltage on all 3 power pins with a multimeter. For pin numbers, see below.
3. If both 1600 connector pins have voltage, but the problem persists, then you need to load test the two 1600 connector pins through the breakout box with a headlamp using the Body Controller ground circuits.
4. Load test the main battery circuit to the Body Controller J8 (Gen 4 BCM) or J6 (Gen II BCM or ESC) power feed stud.
5. Remove Mega-Fuse. Clean it thoroughly and inspect for cracks. Ohm the fuse end to end to insure it is not cracked internally as this has been known to be a problem.

Body Controller Signals to Watch

Figure 1 - 2015 - Present Gen 4 Body Controller



International® Diamond Logic® Builder

File Edit View Advanced Logic Tools Diagnostics Help

Select Advanced Logic Features Faults Connectors Signals Center Panel Cluster Campaign Messages

ESC RPM 1 RPM 2 RPM 4 RPM 7

Power_Feed (ESC J8) Mating View Shown

When in Diagnostic Mode - Key ON

Currently the J8 Power Supply Connector does NOT show a check mark. (as of 12/14/2015)

Do not replace the BCM for this. It is an issue with DLB software.

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File Edit View Advanced Logic Tools Diagnostics Help

Select Advanced Logic Features Faults Connectors Signals Center Panel Cluster Campaign Messages

ESC RPM 1 RPM 2 RPM 4 RPM 7

1600 (ESC J3) Mating View Shown

You must be in Diagnostic Mode with the Key ON to check this

[A1] ☒ Accessory_Signal_Input

[A2] ☐ AC_Request

[A3] ☐ RCD_HVAC_Ctrl_Head_Diag_Signal

[A4] ☐ Highbeam_Signal

[A5] ☐ Elec_City_Horn_SW_Signal

[A6] ☐ Right_Turn_Signal_Switch

[A7] ☐ Left_Turn_Signal_Switch

[A8] ☐ Wiper_0_Signal

[A9] ☐ Wiper_1_Signal

[A10] ☐ Wiper_2_Signal

[A12] ☐ Park_Brake_Switch_Signal

[A13] ☐ Door_Switch

[A14] ☐ Flash_To_Pass_Signal

[A15] ☐ Washer_Pump_Signal

[A16] ☒ Ignition_Signal_Input

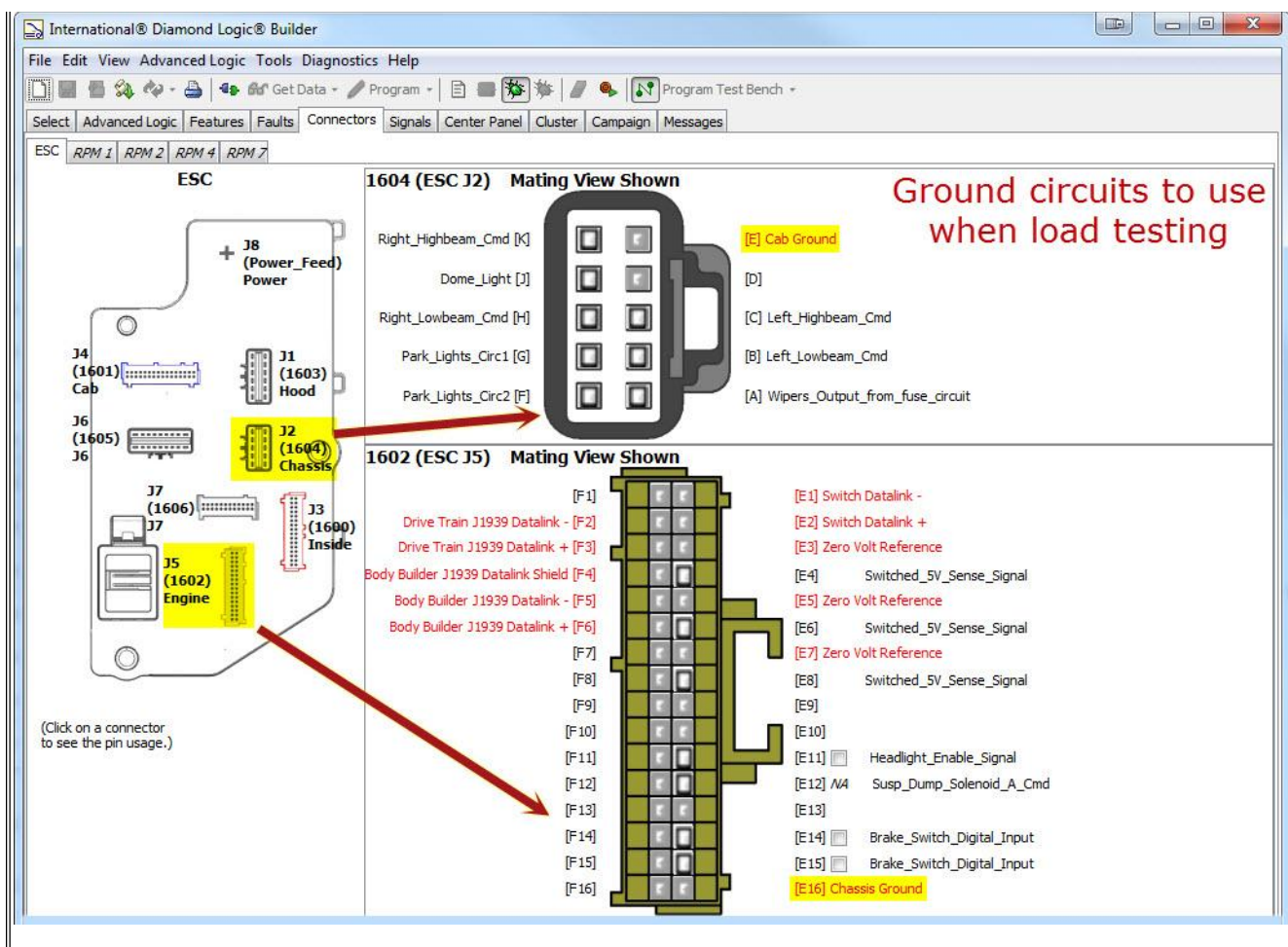
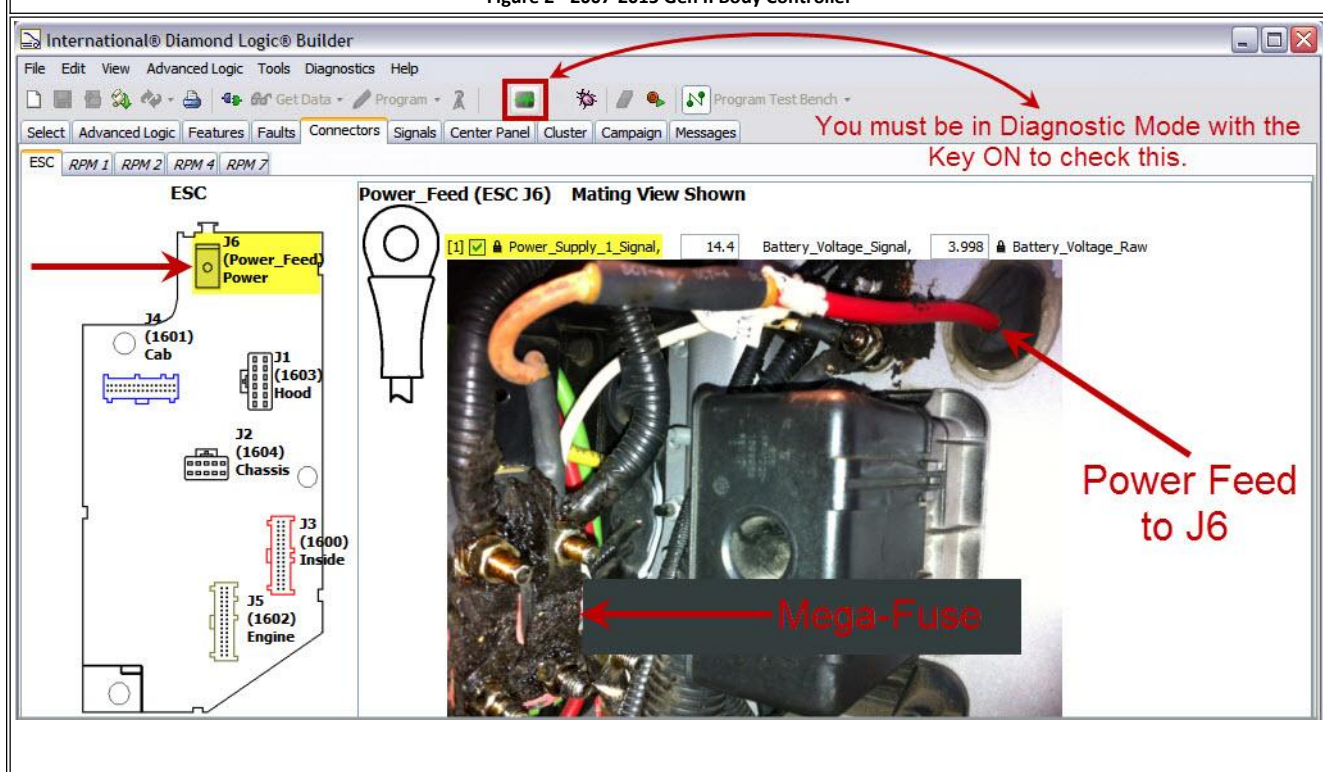
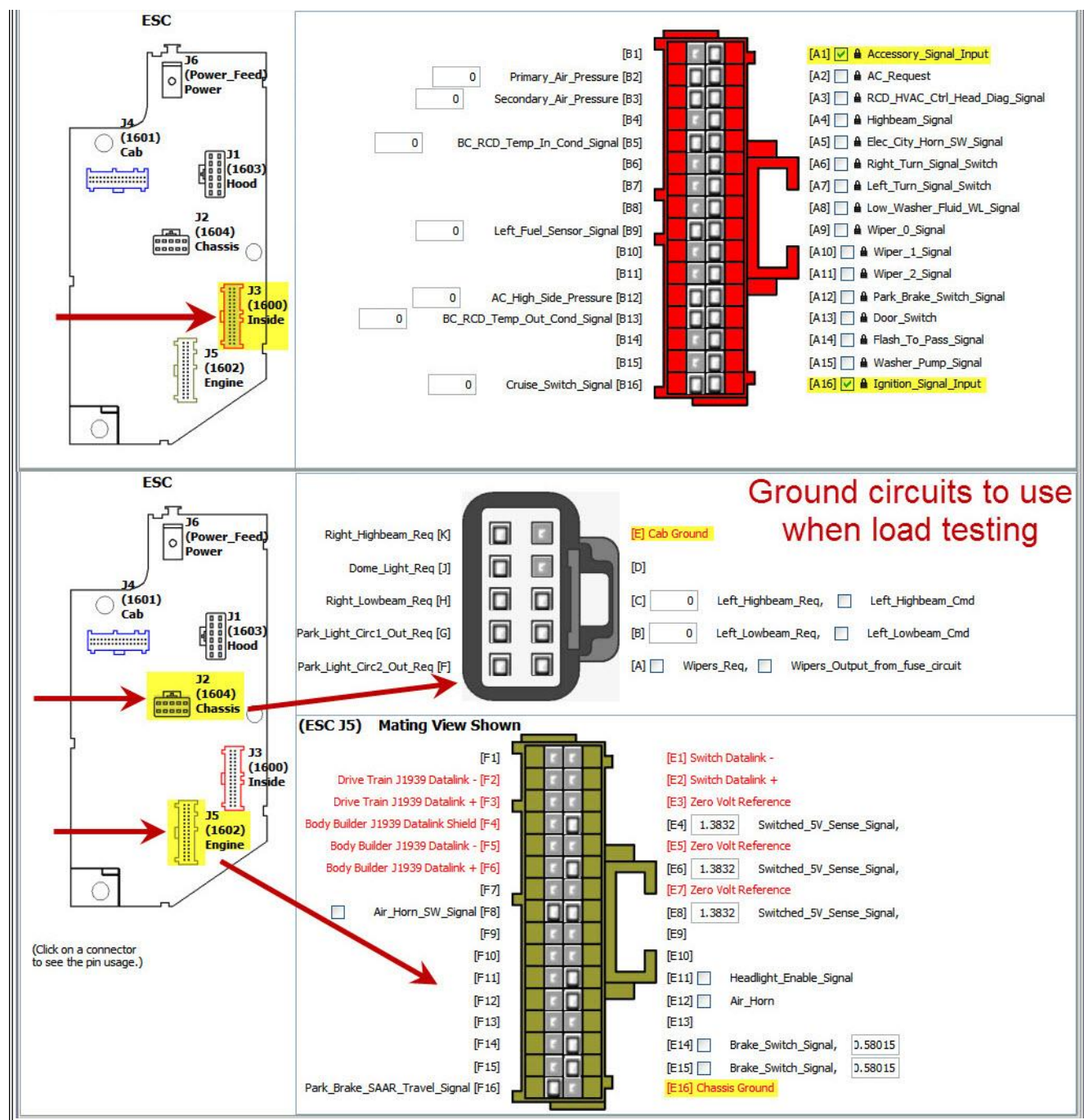


Figure 2 - 2007-2015 Gen II Body Controller



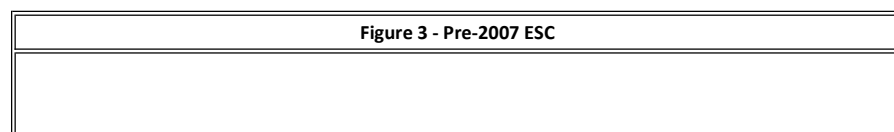


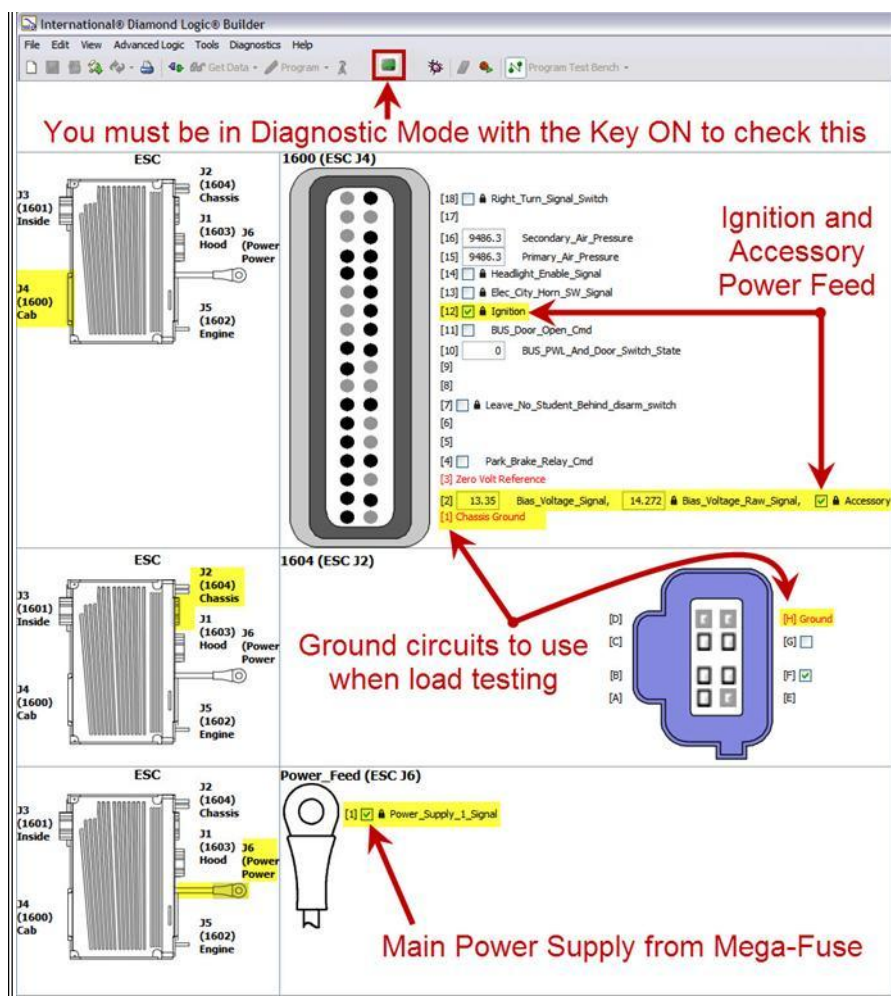
Body Controller Circuit Diagrams

- [ProStar / LoneStar](#)
- [DuraStar / WorkStar / TranStar](#)
- [TerraStar](#)

ESC Signals to Watch

- The ESC works the same way as the Body Controller. Here are the Connector and Pin locations for the ESC





ESC Circuit Diagrams

- [All Models with ESC](#)

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