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Availability: ISIS, Bus ISIS, FleetISIS, Body Builder

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Other Languages: NONE

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Coding Information

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Title: Body Controller Resource Center

Applies To: Post 2007 Vehicles Built with Body Controllers

Body Controller Resource Center

[> What's New!](#)
[> Load Shedding](#)
[> Body Controller](#)
[> DLB and Codes](#)
[> Gauge Issues](#)
[> Windshield Wiper/Washer](#)
[> Lighting Systems](#)
[> Auto Start/Stop](#)
[> User Manuals](#) **NEW!**

When diagnosing any Body Controller related failure the Ignition Feed, Accessory Feed, Main Power Feed and the Grounds to the Body controller MUST BE TESTED. Missing power or ground in these locations may affect the following circuits:

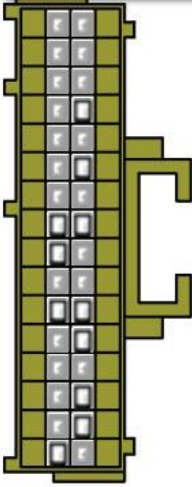
- Cruise Control Inoperative
- Wipers Inoperative / Staying on
- Switches / Switch packs Inoperative
- Gauges Inoperative / Dropping out
- Air Horn Inoperative
- Fuel Gauge Inoperative
- Abnormal Electrical Component Operation
- Air Conditioning Inoperative
- Any Electrical Circuit Tied to the Body Controller Inoperative

1600(J3)

Pins A1 and A16 need to have a check mark with the key in the run position. These are 12 volt signals. If the check marks are missing, the circuits need to be load tested with a headlight bulb inducing less then a 0.5 volts drop in the circuit.

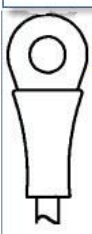
[B1]		[A1] ☒ Accessory_Signal_Input
[B2]		[A2] ☐ Front_HVAC_AC_Req
[B3]		[A3] ☐ RCD_HVAC_Ctrl_Head_Diag_Signal
[B4]		[A4] ☐ Highbeam_Signal
[B5]		[A5] ☐ Elec_City_Horn_SW_Signal
[B6]		[A6] ☐ Right_Turn_Signal_Switch
[B7]		[A7] ☐ Left_Turn_Signal_Switch
[B8]		[A8] ☐ Low_Washer_Fluid_WL_Signal
[B9]		[A9] ☐ Wiper_0_Signal
[B10]		[A10] ☐ Wiper_1_Signal
[B11]		[A11] ☐ Wiper_2_Signal
[B12]		[A12] ☐ Park_Brake_Switch_Signal
[B13]		[A13] ☐ Door_Switch
[B14]		[A14] ☐ Flash_To_Pass_Signal
[B15]		[A15] ☐ Washer_Pump_Signal
[B16]		[A16] ☒ Ignition_Signal_Input

1602(J5)
Pin E16 the ground into the B/C needs to be load tested with a headlight bulb, inducing less than 0.5 voltage drop on the circuit.



- [E1] Switch Datalink -
- [E2] Switch Datalink +
- [E3] Zero Volt Reference
- [E4] Switched_5V_Sense_Signal
- [E5] Zero Volt Reference
- [E6] Switched_5V_Sense_Signal
- [E7] Zero Volt Reference
- [E8] Switched_5V_Sense_Signal
- [E9]
- [E10]
- [E11] Headlight_Enable_Signal
- [E12] Air_Horn
- [E13]
- [E14] Brake_Switch_Signal,
- [E15] Brake_Switch_Signal,
- [E16] Chassis Ground

PowerFeed (J6)
If this checkmark is missing, check the mega fuse for cracking, corrosion, or looseness.



[1] ☒ Power_Supply_1_Signal,

1604(J2)
Pin E, the ground into the B/C needs to be load tested with a headlight bulb, inducing less than 0.5 voltage drop on the circuit.



[E] Cab Ground

[D]

[C] 0

[B] 77

[A] ☒

CHANGE LOG

01-29-2016 - Updated link to IK2600192
 7/30/2015 - Author updated for feedback purposes.
 4/7/2015 - Added DLB Version 15506 and DLB Web start article links
 2/26/2015 - Author updated for feedback purposes.
 9/23/2014 - Added link to Body Controller Service Manual.

What's New!

Document #	Title	Date
IK0800514	Diamond Logic Builder Web Start	4/7/2015
IK2700101	Diamond Logic Builder Release Version 15506	4/7/2015
IK0800417	How to Reboot a Body Controller	
IK0800414	Power Windows Stop Randomly	
IK0800415	Turn Signal Troubleshooting for 2007 and Newer HPV	
IK2600008	How to Diagnose Electrical Problems with Diamond Logic® Builder using a session	
(Back to Top)		

Load Shedding

Document #	Title	Date
IK0800092	The First Check to Make When Troubleshooting Any ESC or Body Controller Issue	01/06/2014
IK0800085	ProStar Electrical System Load Shed Feature 08XEV	01/17/2014
IK0800398	SPN 1590 FMI 19 Adaptive Cruise Control Code	12/12/2013

S08360	Load Shedding Troubleshooting Guide- ProStar and LoneStar Models Built After January 2007	12/19/2012
(Back to Top)		

Body Controller

Document #	Title	Date
IK0800092	The First Check to Make When Troubleshooting Any ESC or Body Controller Issue	01/06/2014
IK0800172	LoneStar, ProStar, 8600, and 7600 Cab Grounding	03/07/2009
IK0800098	Body Controller (BC) Lockup Due to Low Voltage. Can't Communicate to BC / ESC	01/03/2014
IK0800080	1939 Data Link Troubleshooting	06/16/2014
IK0800047	Remote Power Module (RPM) Troubleshooting on 2007 Medium Duty and ProStar	01/06/2014
S08323	Body Builder Electrical Data Book for Models Built Starting March 1, 2007	12/19/2012
(Back to Top)		

DLB and Codes

Document #	Title	Date
IK0800092	The First Check to Make When Troubleshooting Any ESC or Body Controller Issue	01/06/2014
IK0800399	How to Export DLB Fault Codes To Attach To A Case File	10/26/2012
IK0800115	How to Display Diagnostic Trouble Codes (DTC) in 2007 and Later Medium Duty and ProStar	01/14/2014
IK2600016	Changing ESC (Body Controller) Parameters in DLB	05/22/2013
IK0800279	Body Controller Software Revision 231 HVAC Improvements for Post 2007 ProStar, DuraStar, TranStar Only	08/07/2014
S08327	2007 - 2010 Body Controller Diagnostic Trouble Codes (DTC's) and Troubleshooting	08/16/2010
IK2600036	Retrieving Fault Codes with DLB	11/08/2007
IK2600192	Exporting and Importing Diamond Logic Builder (DLB) .IVA and .IVD Files and Creating and Applying Templates	07/31/2013
(Back to Top)		

Gauge Issues

Document #	Title	Date
IK0800092	The First Check to Make When Troubleshooting Any ESC or Body Controller Issue	01/06/2014
IK0800134	Secondary Instrument Cluster - Gauge Identification (Data Routing)	04/24/2008
IK0800178	ProStar / LoneStar Load Gauge Shows N/A in the LCD Display After Replacement of the EGC	03/09/2009
IK2600083	How to Program Mileage in Post-2007 Instrument Clusters (Single or Dual Clusters)	07/22/2013
IK0800130	Air Pressure Gauges and A/C Pressure Transducer Troubleshooting on Post-2007 HPV and ProStar	01/07/2014
IK1900193	Post 2010 A/C Pressure Transducer Diagnostics	07/09/2012
(Back to Top)		

Wiper / Windshield Washer

Document #	Title	Date
IK0800092	The First Check to Make When Troubleshooting Any ESC or Body Controller Issue	01/06/2014
IK1900088	Wiper Troubleshooting on 2007 HPV and ProStar	03/26/2014
IK0800185	Wipers and Aftermarket Lights Inop on Post 2007 Trucks with Body Controller	06/13/2014
S08360	Windshield Wiper/ Washer Troubleshooting Guide- ProStar and LoneStar Models Built after January 2007, Includes 2010 Model	12/19/2012
S08324	ELECTRICAL SYSTEM TROUBLESHOOTING GUIDE - 3200, 4100, 4200, 4300, 4400, 7300, 7400, 7500, 7600, 7700, 8500, 8600, CXT, DuraStar, RXT, TranStar, and WorkStar Models Built After 03/01/2007 (Wiper / Washer system only)	12/19/2012
(Back to Top)		

Lighting Systems

Document #	Title	Date

IK0800092	The First Check to Make When Troubleshooting Any ESC or Body Controller Issue	01/06/2014
IK0800412	Headlight Operation and Troubleshooting	01/02/2013
IK0800348	Combined or Separate Turn and Stop Lights	08/14/2014
IK0800059	Brake Lights Staying On	01/06/2014
IK0400056	07 and Newer Brake Light Operation on HPV with Full Power Brakes	09/19/2013
IK0400057	07 and Newer Brake Light Operation on HPV, ProStar and LoneStar with Air Brakes	10/16/2013
IK0400134	Brake Light Operation on TerraStar with HydroMax brakes	06/05/2014
(Back to Top)		

Auto Start / Stop

Document #	Title	Date
IK0800446	ISX units with Auto Start/Stop Turn on after 15mins	08/22/2013
IK0800326	ProStar with feature code 0008TSJ Auto Start Stop Troubleshooting	02/12/2014
(Back to Top)		

User Manuals

Document #	Title	Date
DLB - QS	DLB Quick Start Guide	
DLB - M1	DLB User Manual 1	
DLB - M2	DLB User Manual 2 - Advanced Logic	
S08293	Advanced Electrical Technical Information for International's High Performance Trucks	
(Back to Top)		

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