



Countries: CANADA, UNITED STATES **Document ID:** IK0400056
Availability: ISIS, Bus ISIS, FleetISIS **Revision:** 2
Major System: BRAKES **Created:** 1/9/2009
Current Language: English **Last Modified:** 1/15/2013
Other Languages: [Français](#), [Español](#), **Author:** Joe Christopher
Viewed: 3375

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

Coding Information

Copy Link 	Copy Relative Link 	Bookmark View My Bookmarks	Add to Favorites 	Print 	Provide Feedback 	Helpful 700	Not Helpful 835
----------------------	-------------------------------	--	-----------------------------	------------------	-----------------------------	---------------------------	-------------------------------

Title: 07 and Newer Brake Light Operation on HPV with Full Power Brakes

Applies To: HPV Brake Light Full Power Brakes

DESCRIPTION

12 volts is at pin 2 of brake switch connector (4037), when brakes are applied voltage passes thru brake switch connector (4037) out of pin 1 to Full Power Brake connector (9511) pin 10, when Full Power Brake ECU sees this voltage it sends ground signal from Full Power connector (9511) pin 3 to Body Controller connector (1602) pin E14 which drops the circuit close to zero volts, This circuit without brakes applied will have 10 volts (+/- 1.5 v). When Body Controller sees voltage drop at connector (1602) pin E14 it will turn on the brake lights.

SYMPTOMS

- Brake lights stay on
- Brake lights not working

POSSIBLE DIAGNOSTIC TROUBLE CODES

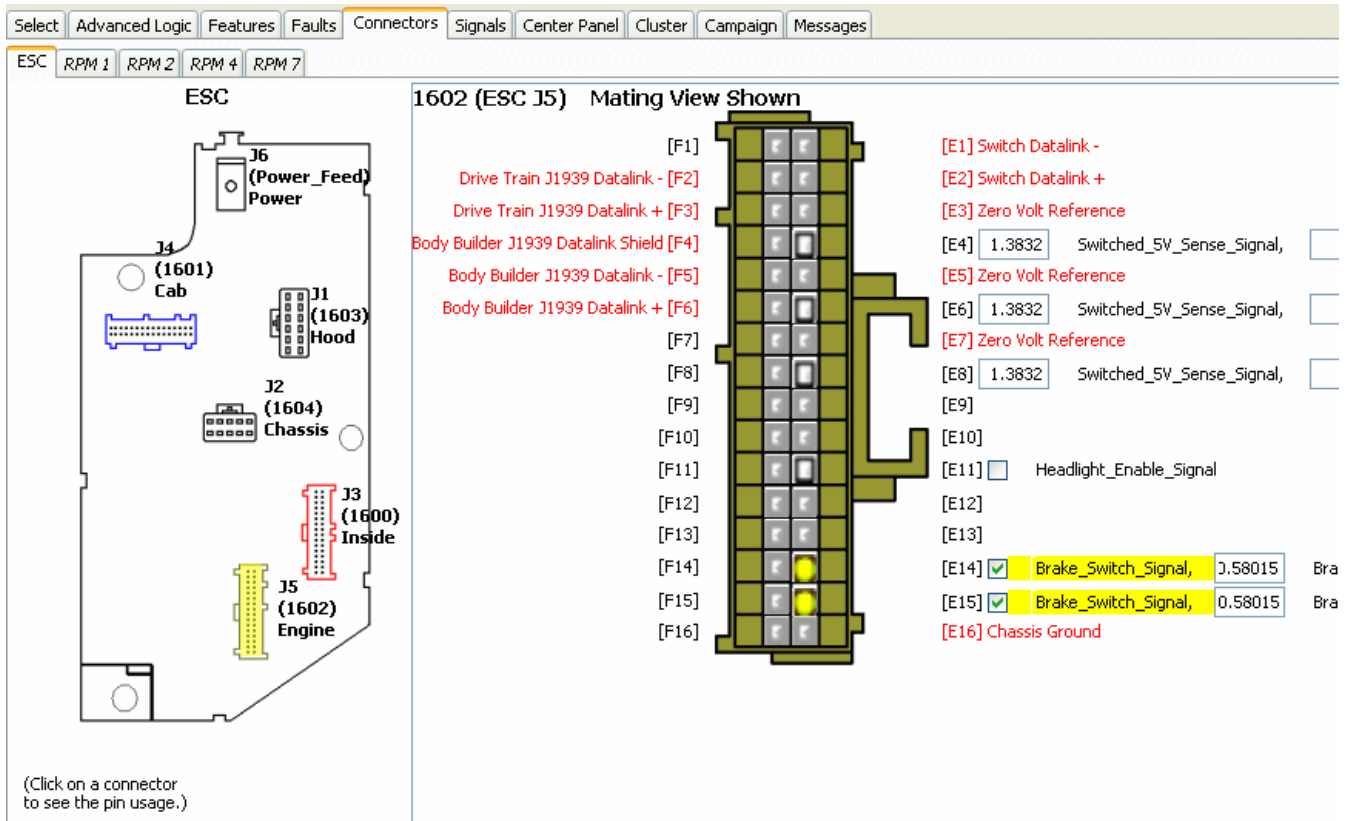
DTC	MODULE	DESCRIPTION
597 0	Body Controller	Brake Switch reading above normal range
597 1	Body Controller	Brake Switch reading below normal range
597 2	Body Controller	Brake Switch inputs do not match
597 7	Body Controller	Brake Switch stuck open or closed

PARTS INFORMATION

Part #	Description	Qty.
2587201C91	Brake Switch	1

SIGNALS TO WATCH

Brake Analog Switch Raw Signal - 1602 Pin E14

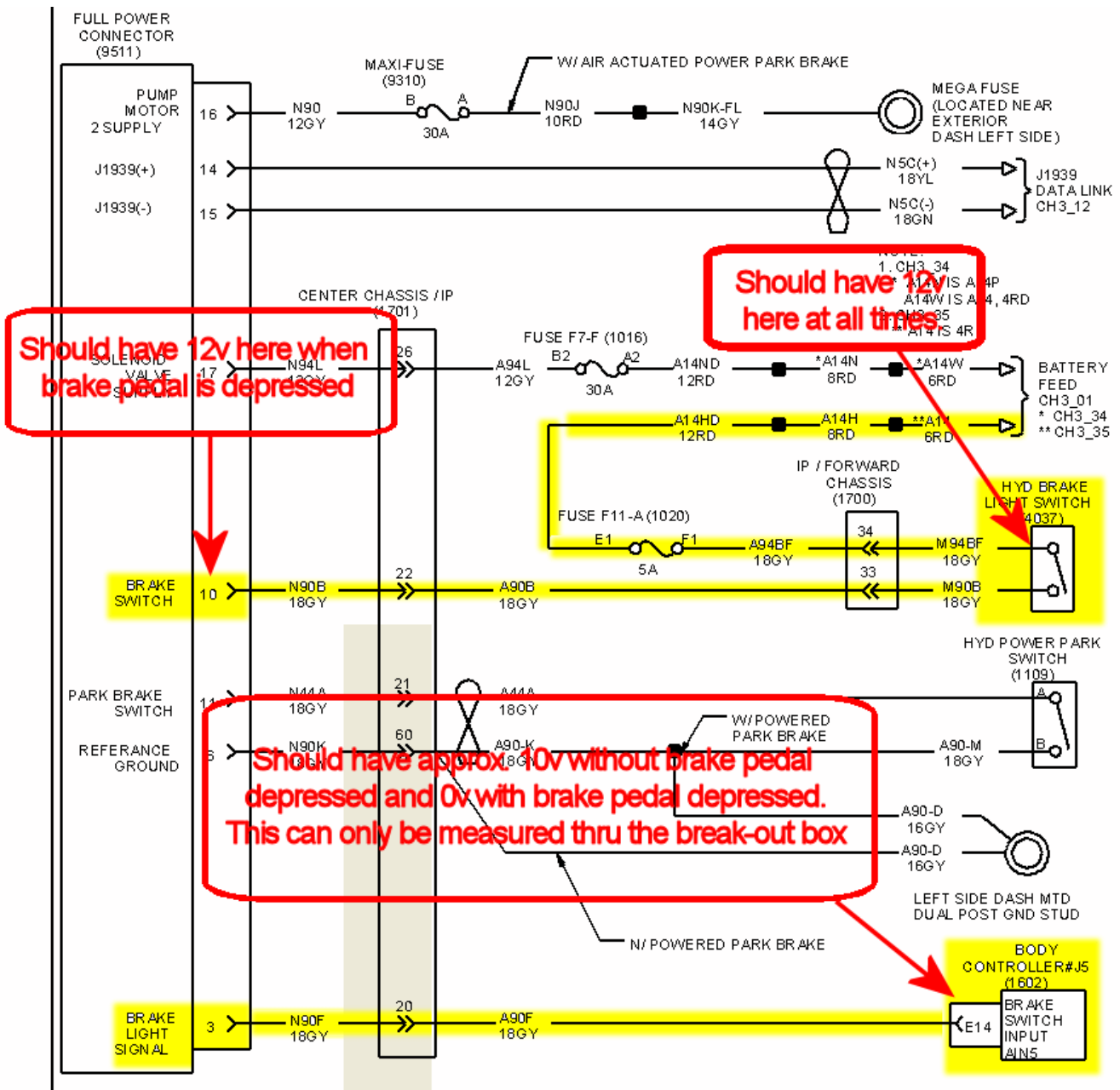


TROUBLESHOOTING

1. Check at brake switch (4037) pin 2 for 12 volts (if voltage is low or missing check for short or open on circuit A94BF/M94BF)
2. When brakes applied check at brake switch (4037) pin 1 for 12 volts (if voltage is lower than 10 volts or missing then replace brake switch)
3. When brakes applied check at Full Power ECU connector (9511) pin 10 for 12 volts (if voltage lower than 10 volts or missing then check circuit A90B/N90B for short or open circuit)
4. When brakes not applied check at Body Controller connector (1602) pin E14 for 10 volts (if voltage missing make sure accessory, ignition and main power circuit to body controller are good, also check circuit N90F/A90F for short to ground)
5. When brakes applied check at Body Controller connector (1602) pin E14 for close to 0 volts (if voltage is 2 volts or higher check circuit N90F/A90F for short to power)

CIRCUIT DIAGRAMS

evalue.internationaldelivers.com/service/s08/s08337_155.xml



Hide Details

Feedback Information

Viewed: 3374
 Helpful: 700
 Not Helpful: 835

No Feedback Found