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Title: Turn Signal Troubleshooting for 2007 and newer HPV, ProStar and Lonestar

Applies To: ProStar, LoneStar, All HPV

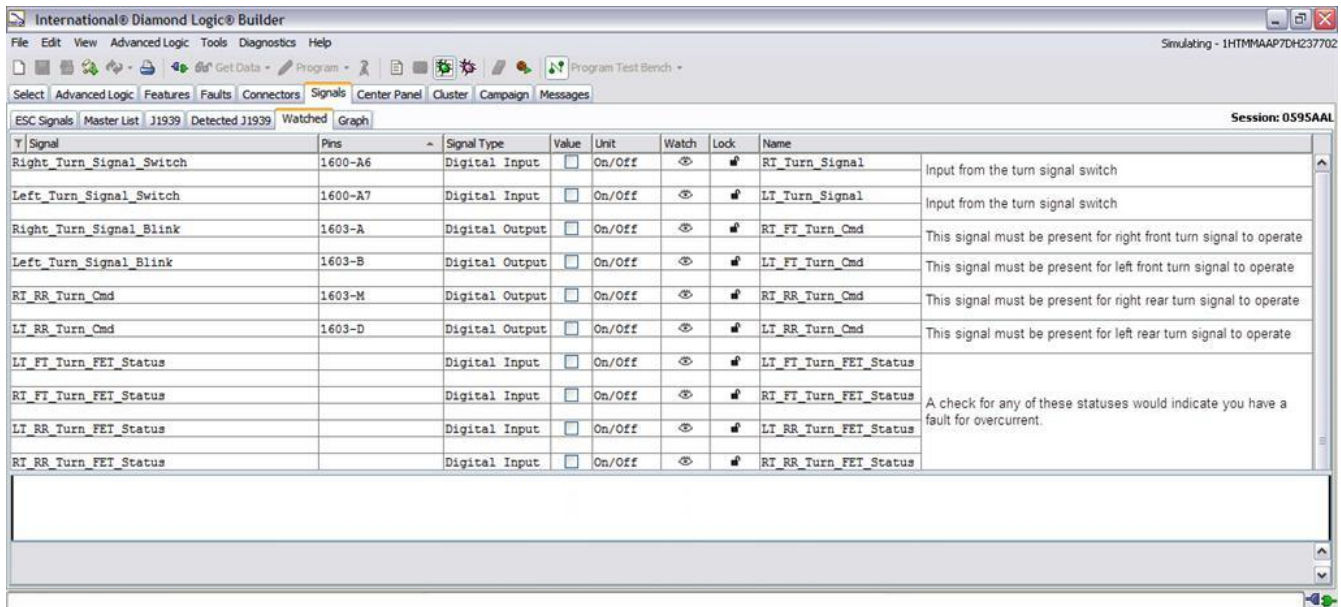
DESCRIPTION

This system utilizes the Body Controller (BC) to illuminate the turn signal lamps and hazard flashers. Turn signal and hazard activation is accomplished using switched inputs sent directly to the BC. As the BC monitors the turn signal switch inputs, it will also provide direct control of the turn and hazard lamp output circuits. Therefore, conventional mechanical type flasher units are not necessary. The BC contains software parameters that provide for a circuit output cycling timer, which will control flashing of the turn signal and hazard lamps. Flashing of the individual lamps are timer controlled and maintains a cycle rate of 90 times per minute anytime a turn or hazard switch request signal is received. The software timer is activated anytime the turn signal lamps or hazards are to be illuminated, and will provide a timed ON/OFF output cycle which is used to illuminate and extinguish the individual turn signals or hazard lights.

SYMPTOMS

- Turn signal lights inop

SIGNALS TO WATCH



TROUBLESHOOTING

1. The first step is to check and record the DTC's using DLB, not the cluster. For information on doing this properly see [IK2600036](#)
2. Make sure that the Body Controller is powered up properly. For information on this follow [IK0800092](#)

NOTE: Always refer to the Service Portal for the most accurate wiring schematics by Model and Build Date.

Signal	B/C Pin	SPN	FMI	Description	Action

Right_Turn_Signal_Blink	1603-A	2370	5	Right Front Turn Signal Lamp Undercurrent	Open circuit from 1603-A to turn signal lamps, or an open ground circuit.
Right_Turn_Signal_Blink	1603-A	2370	6	Right Front Turn Signal Lamp Overcurrent	Shorted circuit from 1603-A to turn signal lamps, or a poor ground circuit.
Left_Turn_Signal_Blink	1603-B	2368	5	Left Front Turn Signal Lamp Undercurrent	Open circuit from 1603-B to turn signal lamps, or an open ground circuit.
Left_Turn_Signal_Blink	1603-B	2368	6	Left Front Turn Signal Lamp Overcurrent	Shorted circuit from 1603-B to turn signal lamps, or a poor ground circuit.
RT_RR_Turn_Cmd	1603-M	2374	5	Right Rear Turn Signal Lamp Undercurrent	Open circuit from 1603-M to turn signal lamps, or an open ground circuit.
RT_RR_Turn_Cmd	1603-M	2374	6	Right Rear Turn Signal Lamp Overcurrent	Shorted circuit from 1603-M to turn signal lamps, or a poor ground circuit.
LT_RR_Turn_Cmd	1603-D	2372	5	Left Rear Turn Signal Lamp Undercurrent	Open circuit 1603-D to turn signal lamps, or an open ground circuit.
LT_RR_Turn_Cmd	1603-D	2372	6	Left Rear Turn Signal Lamp Overcurrent	Shorted circuit from 1603-D to turn signal lamps, or a poor ground circuit.

3. If codes are present, follow the troubleshooting listed above. Clicking on the description of the fault will show the circuits that are related to that output.

4. If no codes are present, verify the inputs from the turn signal switch to the Body Controller are present. Values shown below are measured with a breakout box installed.

B/C Pins	Key off voltage	Key on voltage	Right turn signal on	Left turn signal on	Hazards on
1600-A6	5v +/- 0.5v	10v +/- 1v	0v (Check mark present in DLB)	5v key off / 10v key on	0v (Check mark present in DLB)
1600-A7	5v +/- 0.5v	10v +/- 1v	5v key off / 10v key on	0v (Check mark present in DLB)	0v (Check mark present in DLB)

5. Unplug the 1603 connector. Verify all terminals are seated properly, and that they are not spread causing a loose connection.

6. Hook up the breakout box to the 1603 connector to the Body Controller only. Leave the truck light harness disconnected from the breakout box harness.

- Verify the Body Controller output is present at the breakout box, with the truck light harness disconnected from breakout box harness.
- If no output is present, inputs are correct, and the Body Controller has proper power and ground, suspect failed Body Controller output
- If output is present, proceed to checking the wiring.

CIRCUIT DIAGRAMS

- [Turn Signal Input Circuit Diagram](#)

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