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Coding Information

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Title: Air Powered (SAAR) Park Brake Troubleshooting (Service "P" Light Coming on)

Applies To: All HPV with Air Powered Park Brake (SAAR)

CHANGE LOG

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

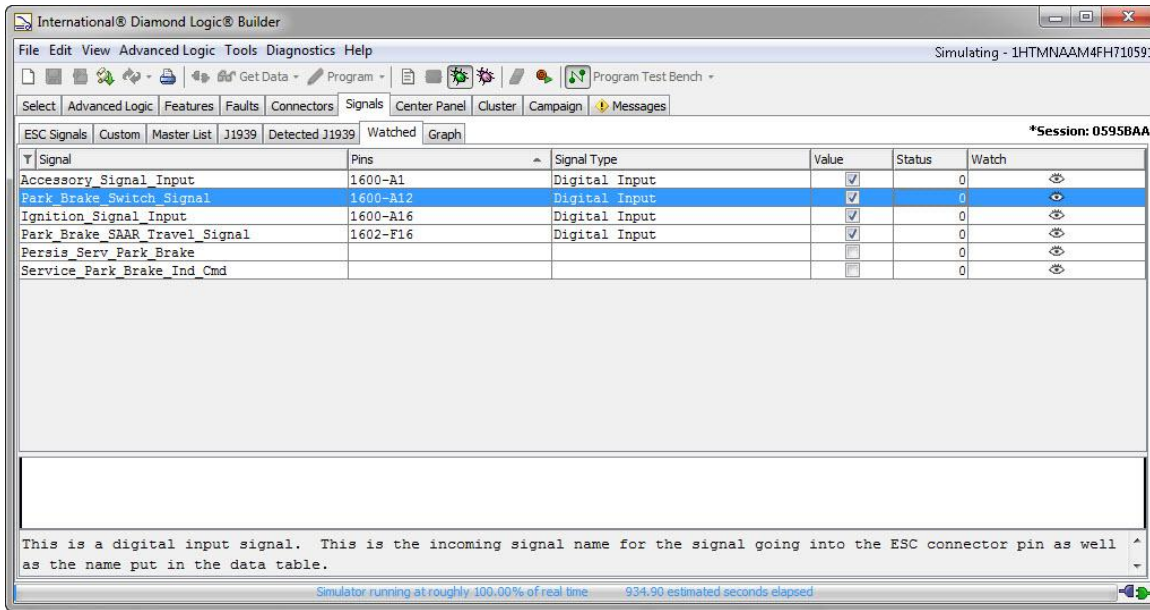
04/16/2015 - Added BC session

DESCRIPTION

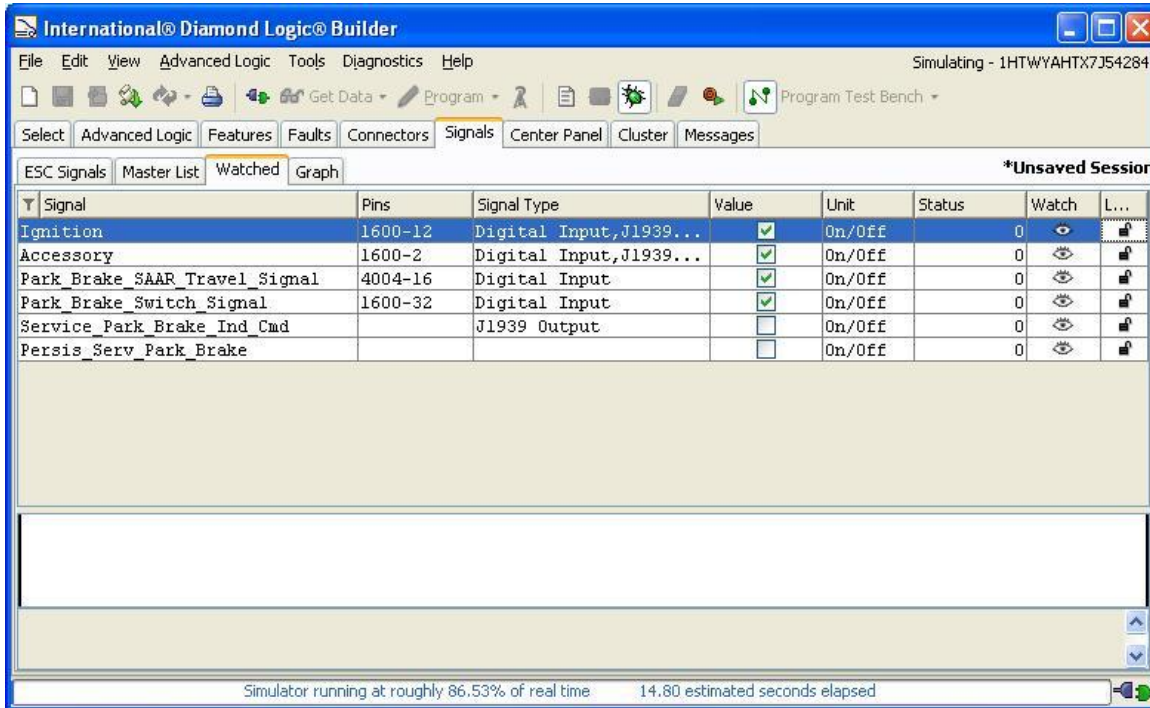
The SAAR parking brake is an air powered parking brake for hydraulic brake vehicles. Unlike the hydraulic powered parking brake (SAHR) used on school buses, the air SAAR parking brake is controlled by the ESC.

SIGNALS TO WATCH

BCM session



ESC session



TROUBLESHOOTING

NOTE:

On the Pre-2007 trucks with ESC's, the Service P light would go out whenever the DTC went inactive. On the Post-2007 trucks with Body Controllers(BC), the Service P light will stay on even after the code goes inactive. So in order to get the light to go out, you need to clear all inactive codes.

1. Is this a problem with the auto-apply only? The auto-apply portion of this parking brake is hard wired and has nothing to do with the ESC or BC. There is a switch in the shifter that grounds a solenoid which dumps the air out of the SAAR can, allowing the spring to apply the park brake. See the circuit diagrams below.
- 2.

Does the parking brake actually work? Does it apply and release with the switch? If the parking brake is actually working with the switch, that tells you that the mechanical and air part of the system is working properly and you have an electrical problem.

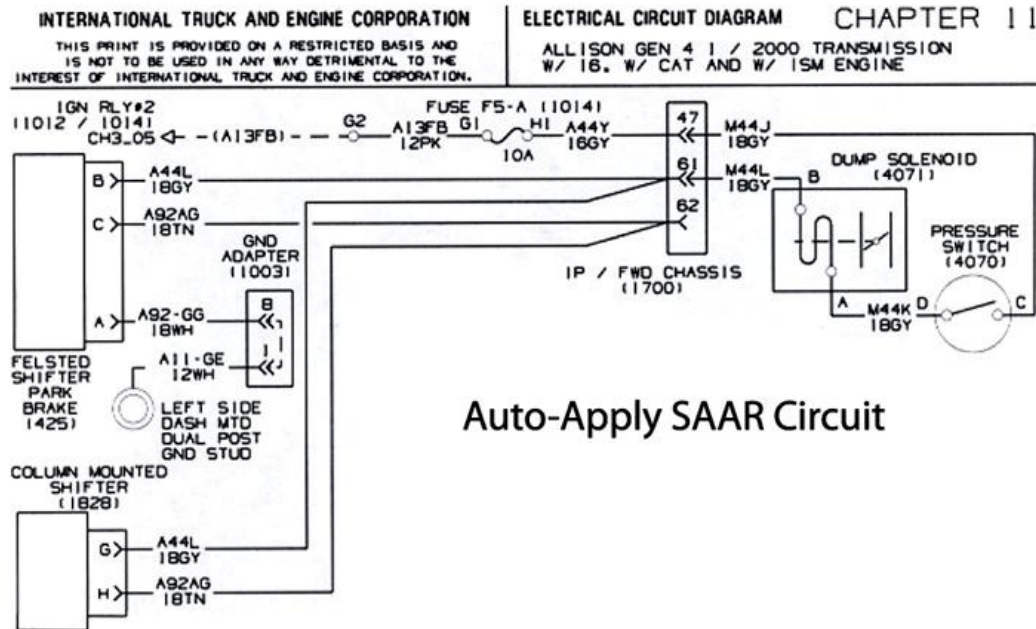
3.

Monitor the [Park_Brake_SAAR_Travel_Signal](#) and [Park_Brake_Switch_Signal](#) in DLB. If the Service P light is coming on, it's because these 2 signals do not agree. You need to figure out which one is wrong and then troubleshoot that circuit.

CIRCUIT DIAGRAMS

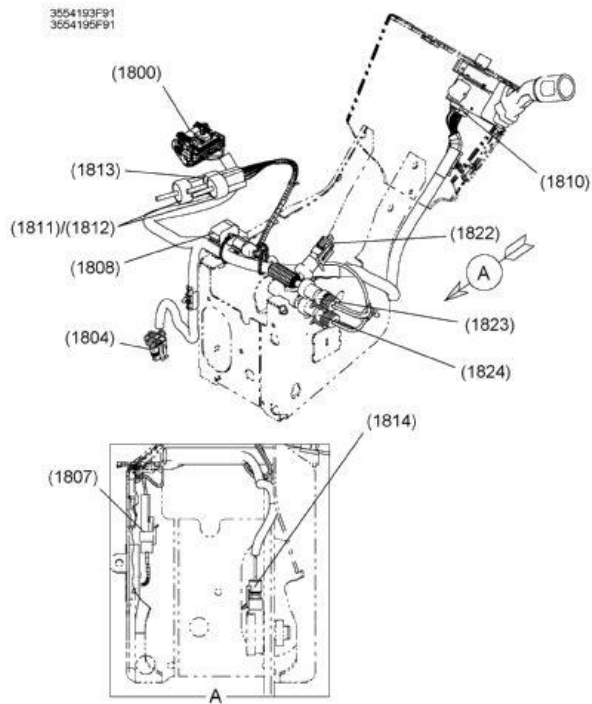
- For Travel Switch wiring on pre-2007 [click here](#)
- For Travel Swith wiring on post-2007 [click here](#)
- For electrical circuit diagrams on pre-2007 [click here](#)
- For electrical circuit diagrams on post-2007 [click here](#)

The diagram pictured here, only shows the Auto-apply portion of the park brake wiring. Not all trucks with air powered park brakes have this



feature.

COMPONENT LOCATIONS



Air Park Brake Switch Location (Steering Column Support View)

- (1813) PARK INDICATION PRESSURE SWITCH
- (1800) DRIVER CONTROL MODULE (DCM) CONNECTOR

For more component locations, [click here](#).

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