



# TechTopics

## ABS Warning Light Stays "On" Permanently:

This information is specific to Haldex ITCM ECU in Trailer Configurations



ABS Warning Lights should come "ON" for 3 seconds and then go "OFF" when the trailer is provided permanent power. If the ABS lamp stays "ON", there is an ABS fault.

First, check for Diagnostic Fault Codes. After the problem is repaired, clear all stored faults, reset trailer power and test again.

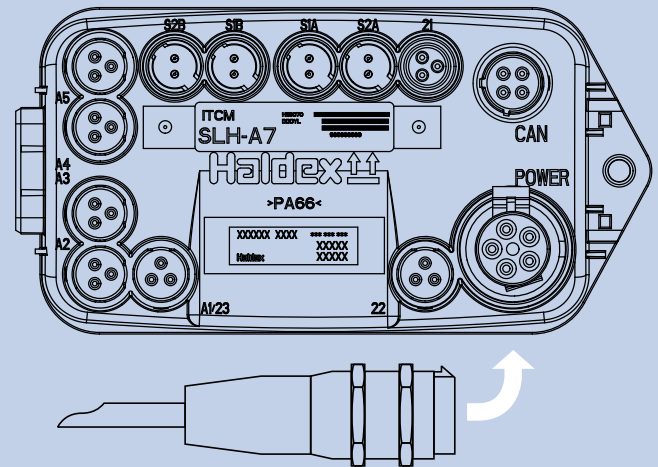
If the fault is sensor-related, you may need to spin the affected wheels after fixing the fault. Remember to reset trailer power.

The ABS light could be wired incorrectly. See **Figure 1**. Remove the main wire harness 5 Pin Connector at the ECU (Electronic Control Unit) and verify continuity between Pin "D" and the ground. See **Figure 2**. The remaining light wire must be grounded to trailer chassis or connected to the SAE J560 7-Way Connector ground wire. Check for continuity between ABS Light wire and ground. Repair as necessary and retest.

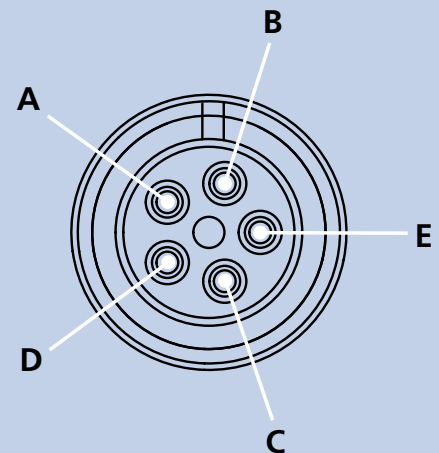
If the solenoid does not "CLICK" when permanent power is applied, or the diagnostic tool shows nothing on the display, there might not be enough voltage in the permanent power circuit for the ABS. Ensure the blue wire at ABS power cable is producing at least 10 volts.

Another indicator of a permanent power issue is the solenoid clicking when brakes are applied. This occurs because the stop lamp power acts as a backup ABS circuit when permanent power is not providing enough voltage to activate the ABS.

**Figure 1** ABS Power Cable connection:



**Figure 2** Pin Out for ABS power:



- A** Stop Light (Red)
- B** Permanent (Blue)
- C** Not Used
- D** Trailer Light (Green/White)
- E** Ground (White)