



**Countries:** CANADA, UNITED STATES, PUERTO RICO  
**Availability:** ISIS, NotSIR  
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Coding Information

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**Title:** Hydraulic Power Brake cap/grounds diagnostics and repair procedure

**Applies To:** All Hydraulic HPB units

## **CHANGE LOG**

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

1/17/2017 - Initial Article Release

## **DESCRIPTION**

This document will guide the user through procedures to perform on Wabco HPB to aid in diagnostics and proper repairs before HCU replacements.

## **SYMPTOM(s)**

Park brake will not release, Multiple ABS fault.

**Diagnostic Trouble Code(s) & Dashboard Indicator Light(s):**

DTC/Light	Description
SPN 2581 FMI 4 Wabco 60-4	Pump motor operates when not expected
SPN 2581 FMI 6 Wabco 60-6	Pump motor operates when not expected
SPN 2581 FMI 10 Wabco 60-10	Extended accumulator charging time
SPN 2580 FMI 4 Wabco 57-4	Pump motor operates when not expected
SPN 2580 FMI 6 Wabco 57-6	Pump motor operates when not expected
SPN 2580 FMI 10 Wabco 57-10	Extended accumulator charging time

**Customer Observations or Concerns:**

Multiple dash light, Park brake will not release


## **SPECIAL TOOL(s) / SOFTWARE**

Tool Description	Tool Number	Comments	Instructions
N/A			
N/A			

**SERVICE PARTS INFORMATION**

Kit Description	Part Number	Quantity Required	Notes
N/A			
N/A			

**DIAGNOSTIC STEP(s)**

 <b>WARNING:</b>
<p>To prevent unexpected movement of the vehicle and possible serious personal injury or death, park the vehicle on a flat, level surface, set the parking brake, turn the engine off and chock the wheels to prevent vehicle from moving in both directions.</p>

Step	Action	Decision
#1	<b>DIAGNOSTIC:</b> Are any of the faults listed in DTC's section of article present?	<b>Yes.</b> Proceed to step 2
		<b>No.</b> Continue to repair steps.

Step	Action	Decision

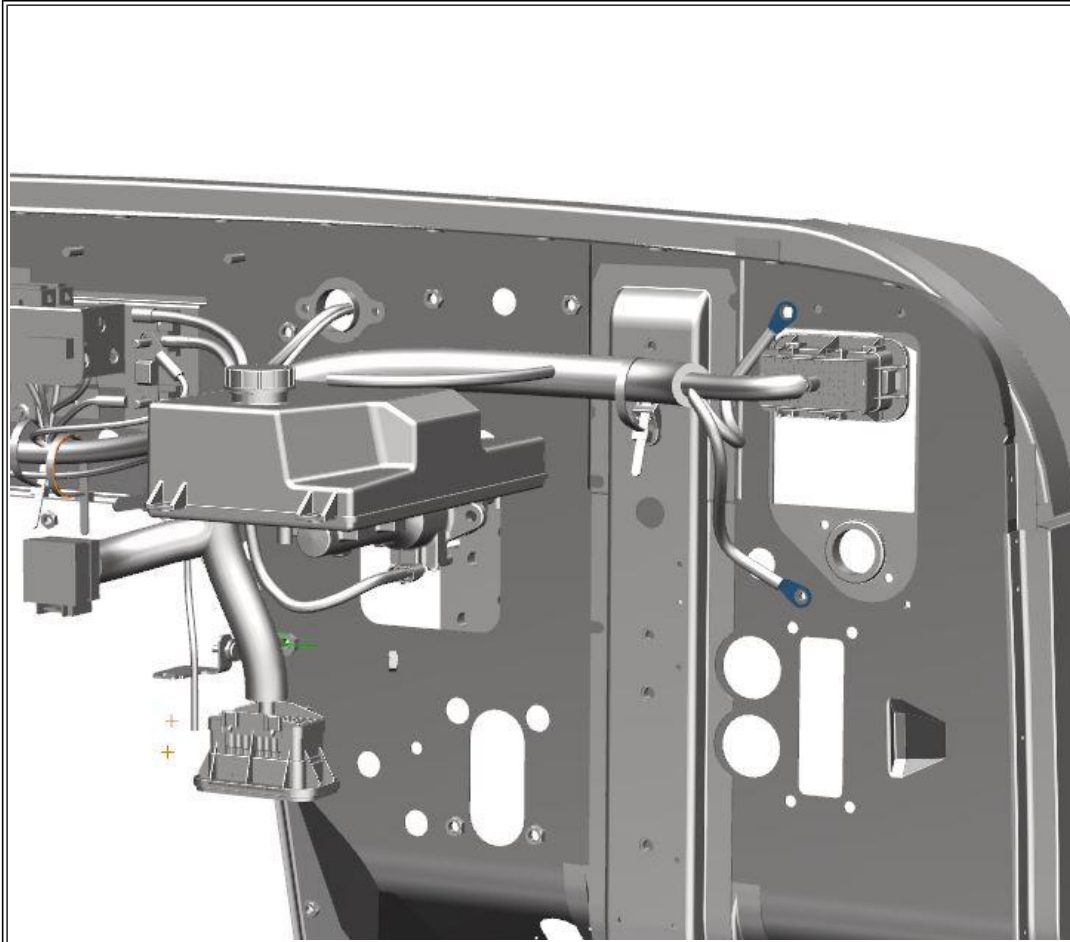
<b>#2</b>	<p><b>DIAGNOSTIC:</b></p> <p>Remove Brake Fluid Reservoir Cap. Was there a hissing noise when the cap is removed?</p>	<p><b>1. Yes</b></p> <p>Replace the cap and proceed to repair procedure section of this article.</p>
		<p><b>2. No</b></p> <p>Proceed to step 3.</p>

Step	Action	Decision
<b>#3</b>	<p><b>DIAGNOSTIC:</b></p> <p>With the cap removed deplete the accumulators using Toolbox Software diagnostics or by disconnecting the battery or pulling the fuses then press brake pedal minimum of 30 times.</p> <p>Reconnect the battery or fuses if disconnected and measure the time it takes for the pumps to run and shut off.</p> <p>Did the pumps Run longer than 60 seconds?</p>	<p><b>1. Yes</b></p> <p>Replace the HCU unit and follow repair steps</p>
		<p><b>2. NO</b></p> <p>Proceed to step 4</p>

Step	Action	Decision
<b>#4</b>	<p><b>DIAGNOSTIC:</b></p> <p>Did the pump shut off before 60 seconds and/or did the failure disappear?</p>	<p><b>1. YES</b></p> <p>Replace Cap and proceed to repair steps section of this article</p>
		<p><b>4. NO</b></p> <p>Contact Meritor Ontrac 1-800-535-5560 for further assistance</p>

## **REPAIR STEP(s)**

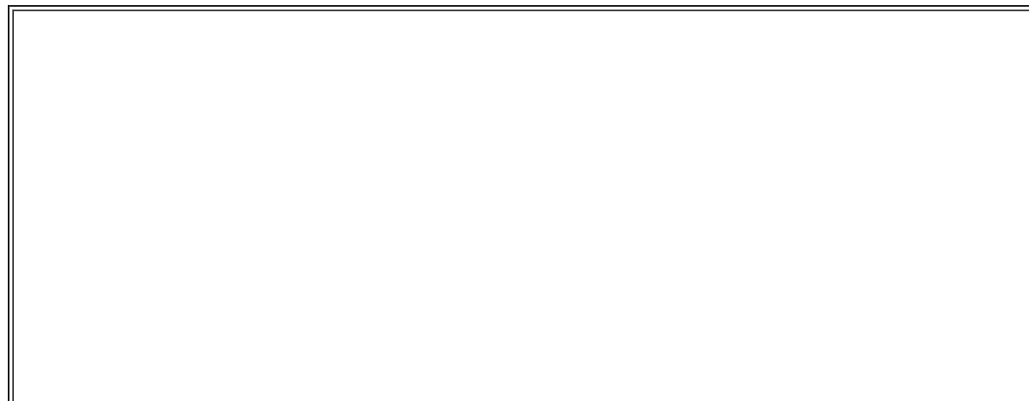
1. Locate bulkhead ground studs. Reference Figure 1 highlighted in blue

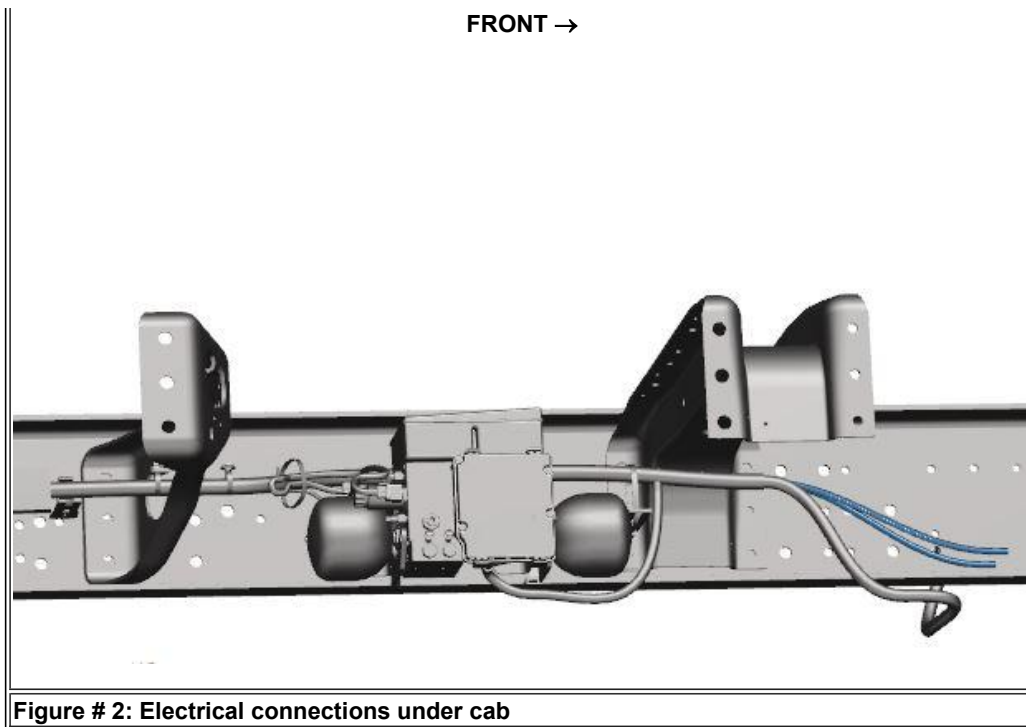


**Figure 1 #: Bulk Head Ground Studs**

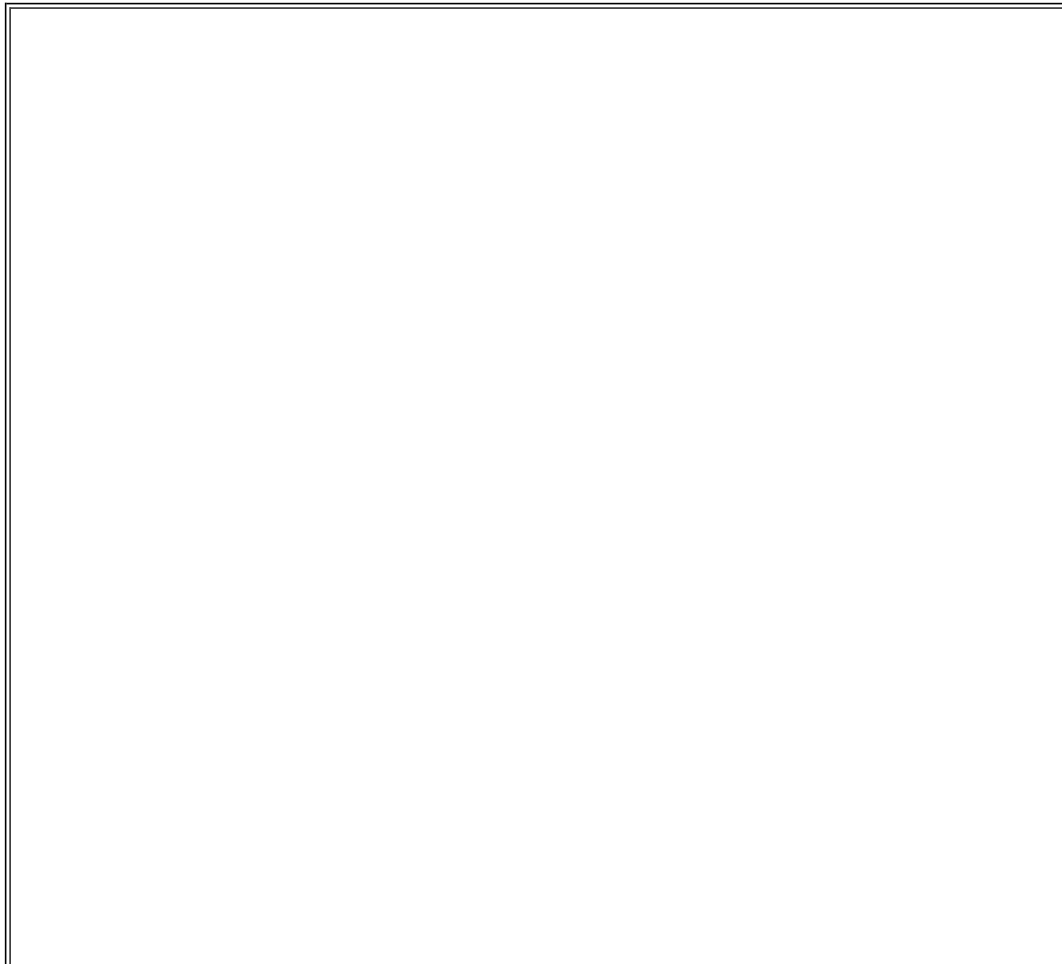
2. Remove and clean ground connections and terminals.

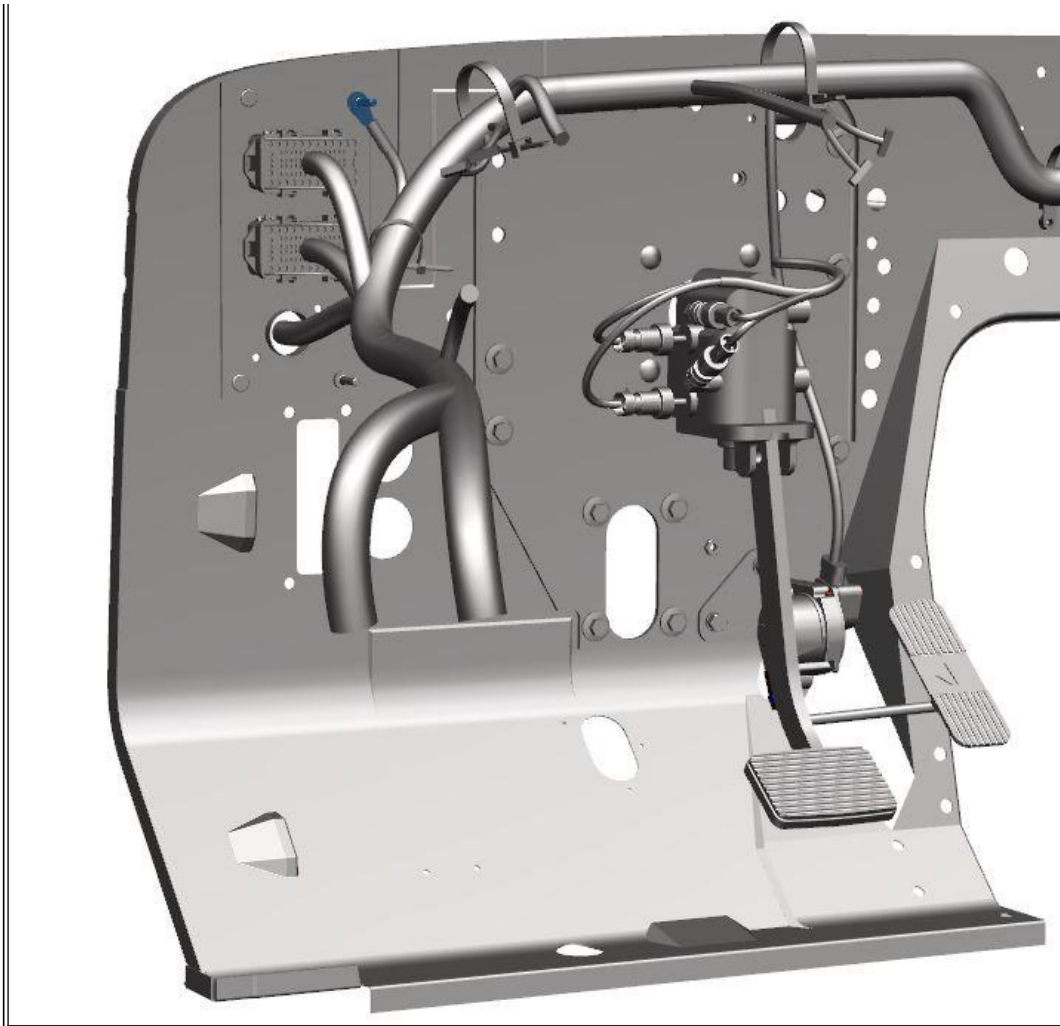
3. Locate under cab electrical connections clean and inspect. If locks are broken on connectors replace or repair connectors. Reference Figure 2 highlighted in blue





4. Locate inside ground stud remove clean and inspect Figure 3 highlighted in blue

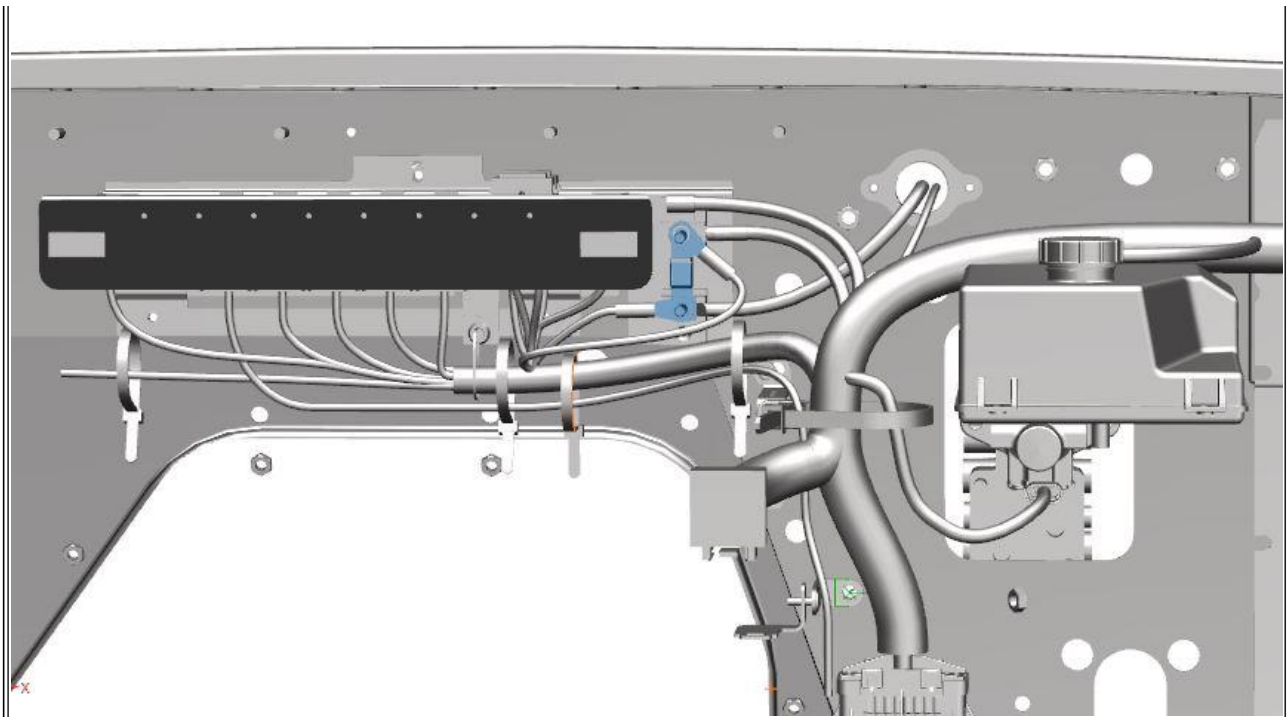




**Figure # 3: Inside Cab Ground Stud**

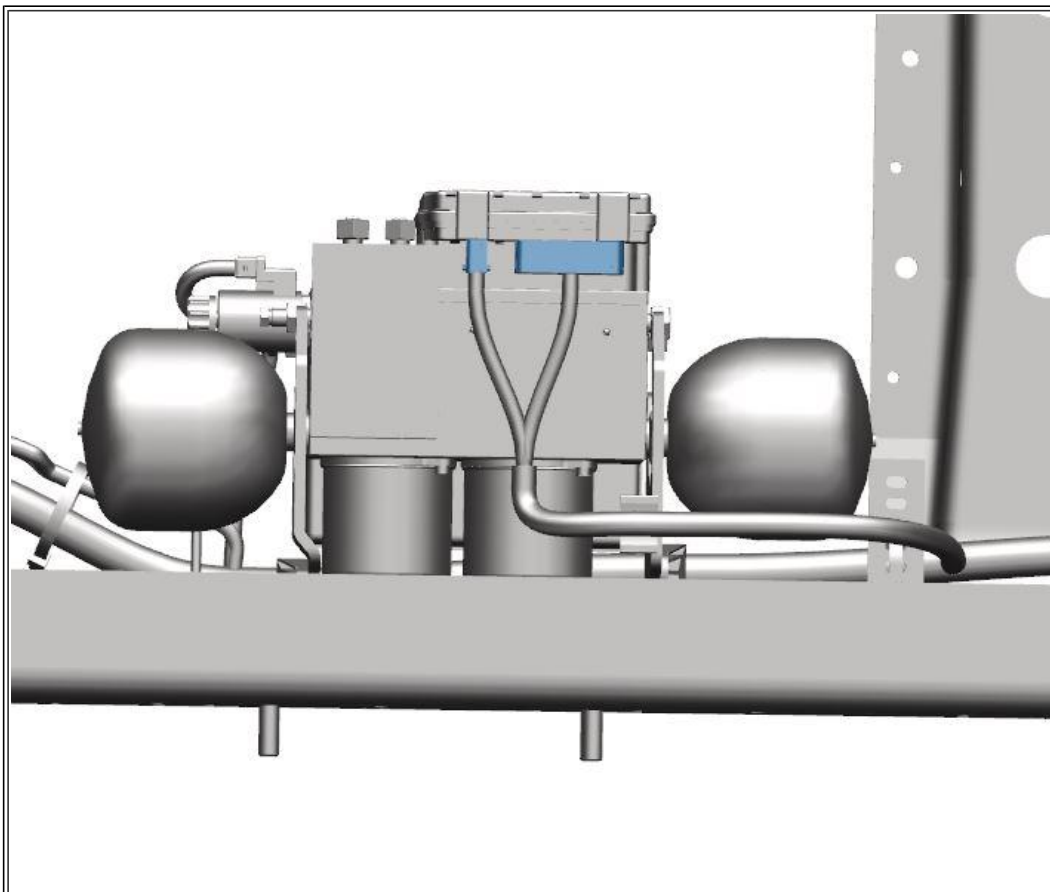
5. Remove and clean battery connections

6. Remove and clean power feed wires pay close attention to bus fuse replace if needed. Reference Figure 4 highlighted in blue



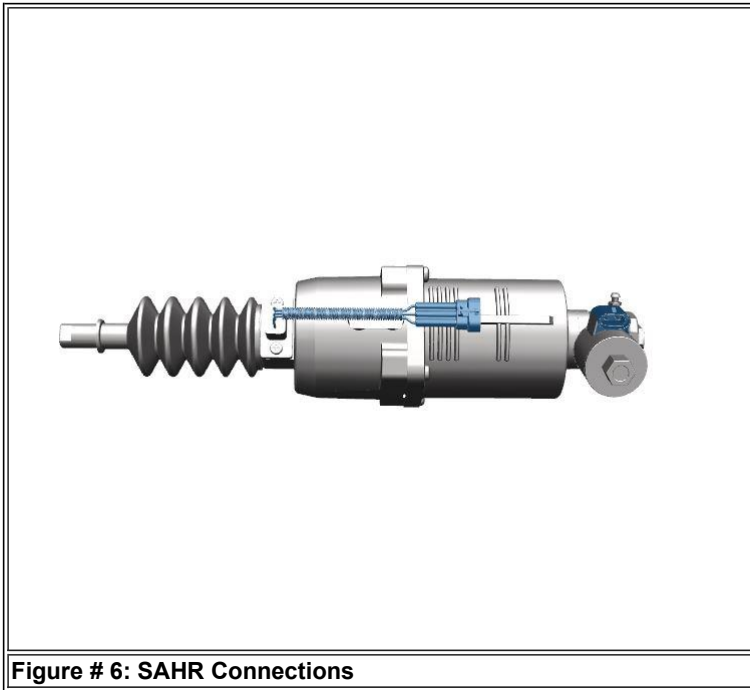
**Figure # 4: Main Power Feed and Bus Fuse**

7. Inspect clean and repair 31 and 2 pin connectors at HCU Reference Figure 5 highlighted in blue



**Figure # 5: HCU connections**

8. Inspect SAHR canister connections. If terminals are damaged or corroded replace connector and terminals Reference Figure 6 highlighted in blue



9. If park brake faults are present follow adjustment and operational checks in [TSI-08-04-01](#)

10. After repairs are complete wiggle test connections while ignition key is on test drive vehicle and make certain no other faults present in ECU

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## **WARRANTY INFORMATION**

### **Warranty Claim Coding:**

NA

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### **Standard Repair Time(s):**

Refer to the [SRT Manual](#) for Repair Times

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## **OTHER RESOURCES**

<http://www.meritorwabco.com/literature/Hydraulic-Power-Brake>

[Master Service Information Site](#)

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