

Category: Heater

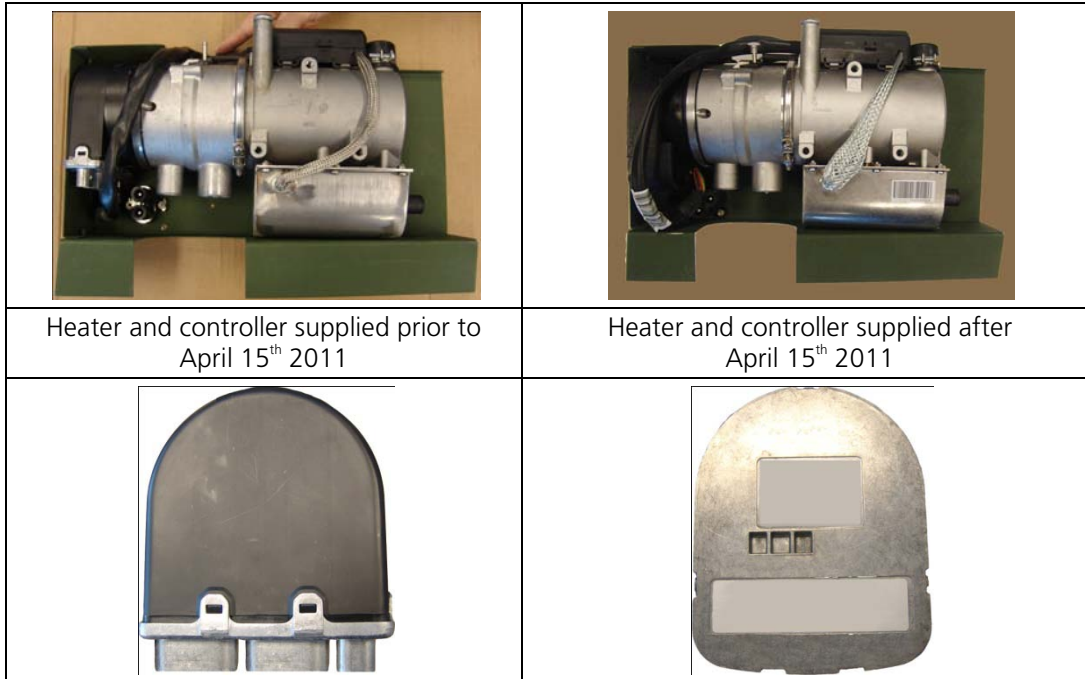
Document Number: PI057BC

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Description: **HMMWV New Generation Cold Start Heater Required Modifications**

Overview

1. Heaters supplied after April 15, 2011 have an updated control unit. Refer to the images below.



2. In the event that an old style heater or controller is replaced with the newer model, minor modifications to the heater harness and shield are required. This bulletin outlines these changes.

Description of Change

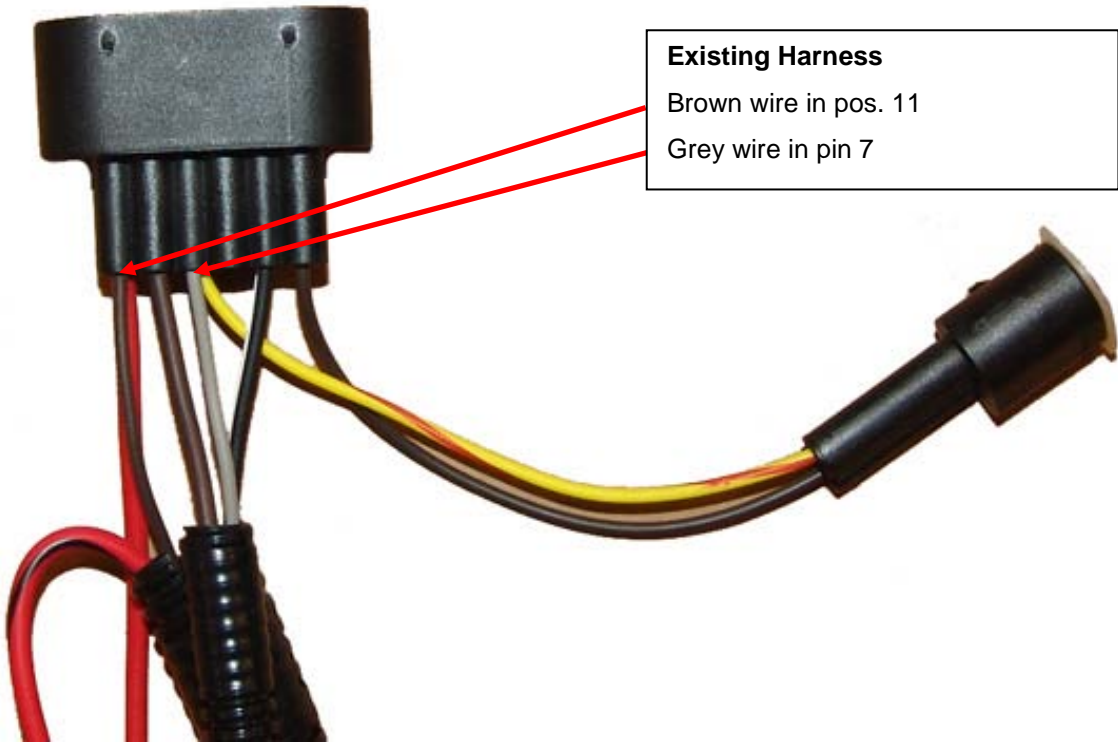
1. When an older style heater or controller is replaced during service / repair, the heater operation indicator light (on dash) will not illuminate properly without making the necessary harness modifications outlined below.
2. When an older style heater or controller (see above) is replaced during service / repair, the size / shape of the new controller requires the relocation of the circuit breaker.

Cause:

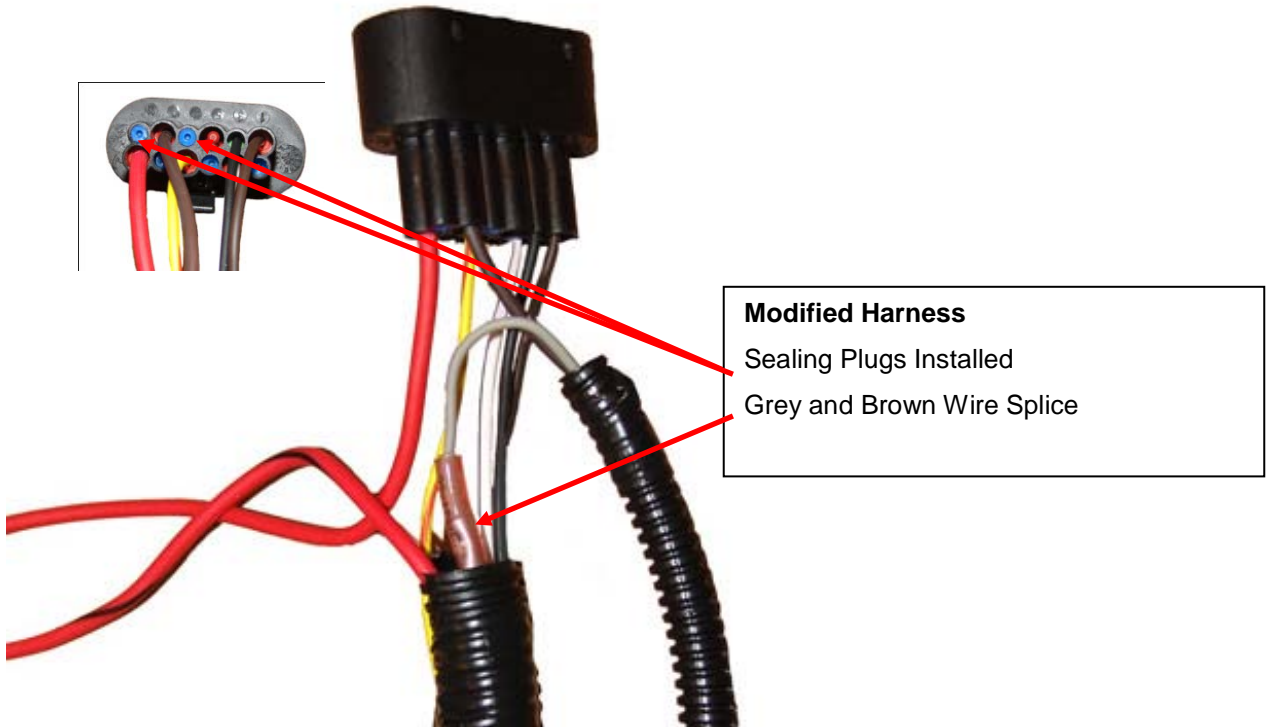
1. The indicator light negative circuit was previously connected to the Webasto controller, seeking a ground through the brown wire (pin 11). The new generation of controller does not have a direct connection to chassis ground through pin 11.
2. Because of the new controller's physical differences from the previous controller, the circuit breaker assembly now interferes and must be relocated.

Remedy

Control light ground circuit is achieved by removing the brown wire (pin 11) and grey wire (pin 7) from the connector housing and splicing them together. This fix works on both the old and new version of the heater controller (backward / forward compatible).



Existing Harness
Brown wire in pos. 11
Grey wire in pin 7



Modified Harness
Sealing Plugs Installed
Grey and Brown Wire Splice

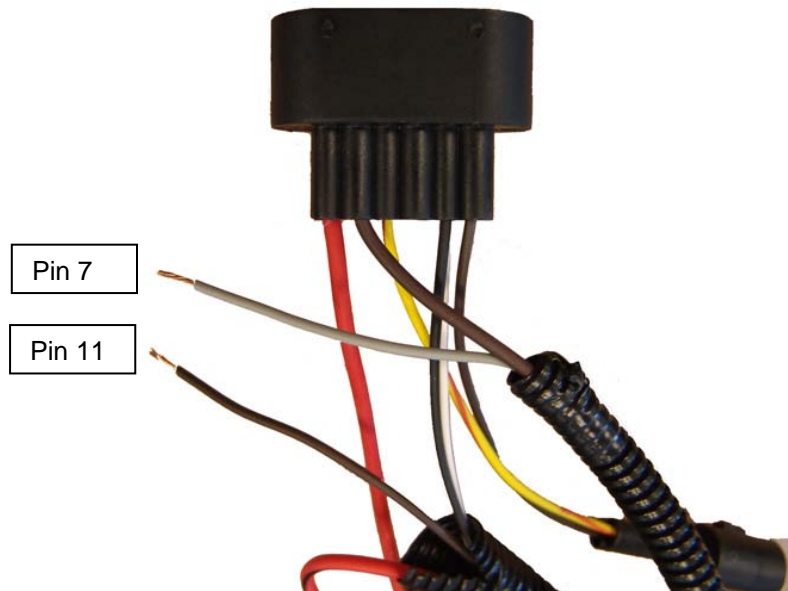
Wire Harness Modification

Purpose: To change harness per customer requirements from Rev. A11 to Rev. A12

Step 1) Remove 18G brown wire from pin 11 and Grey wire from pin 7



Step 2) Remove terminals from the brown and grey wires that were removed from the connector.



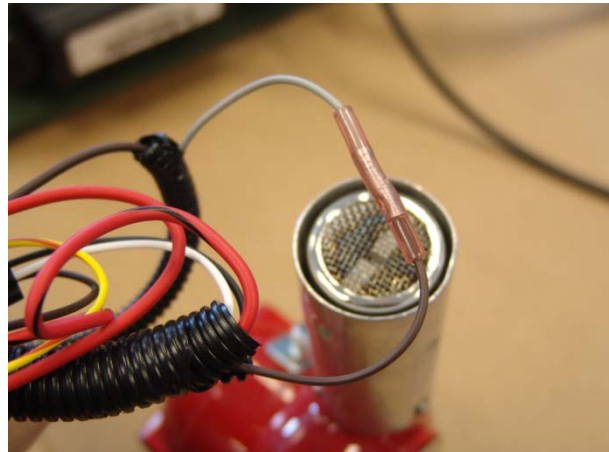
Step 3) Install sealing plugs into empty cavities 7 and 11.



Step 4) Using an 18-20 AWG weather tight butt connector (Webasto P/N: 5000424A) crimp the brown and grey wires previously removed from connector positions 7 and 11 together. Carefully heat both ends of the crimped butt splice connector until the heat shrink properly forms around the wires.



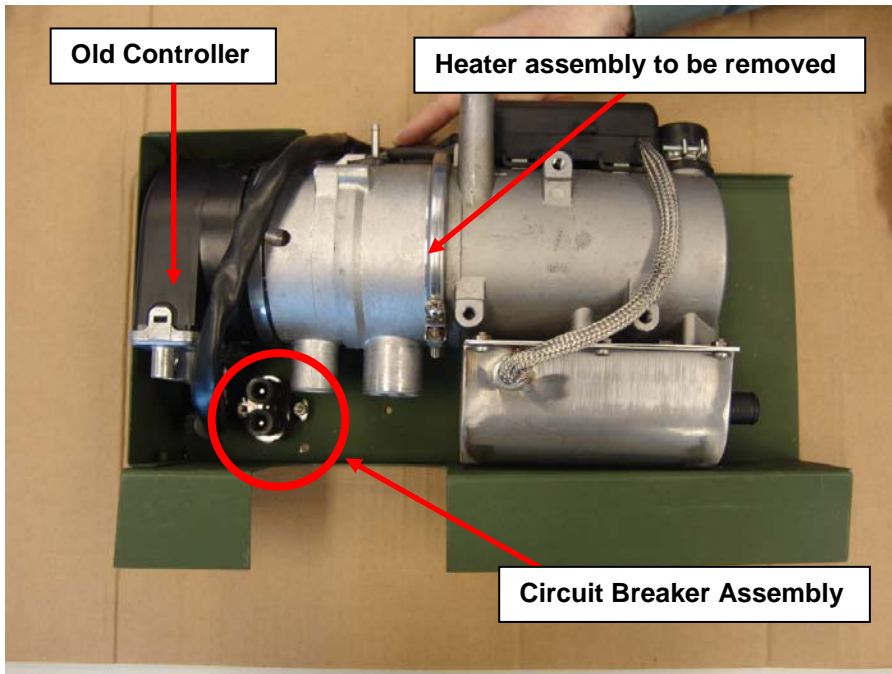
Webasto P/N: 5000424A



Circuit Breaker Relocation

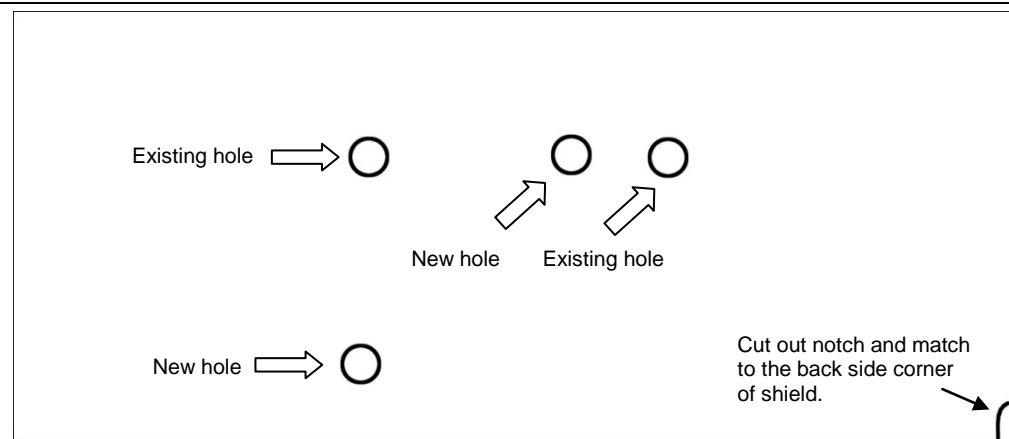
Purpose: When a new heater or controller is used with an existing application the circuit breaker assembly interferes with the new controller. Relocation of the circuit breaker assembly is necessary to allow for physical room for the new controller.

Step 1) Remove the old heater and circuit breaker assembly.

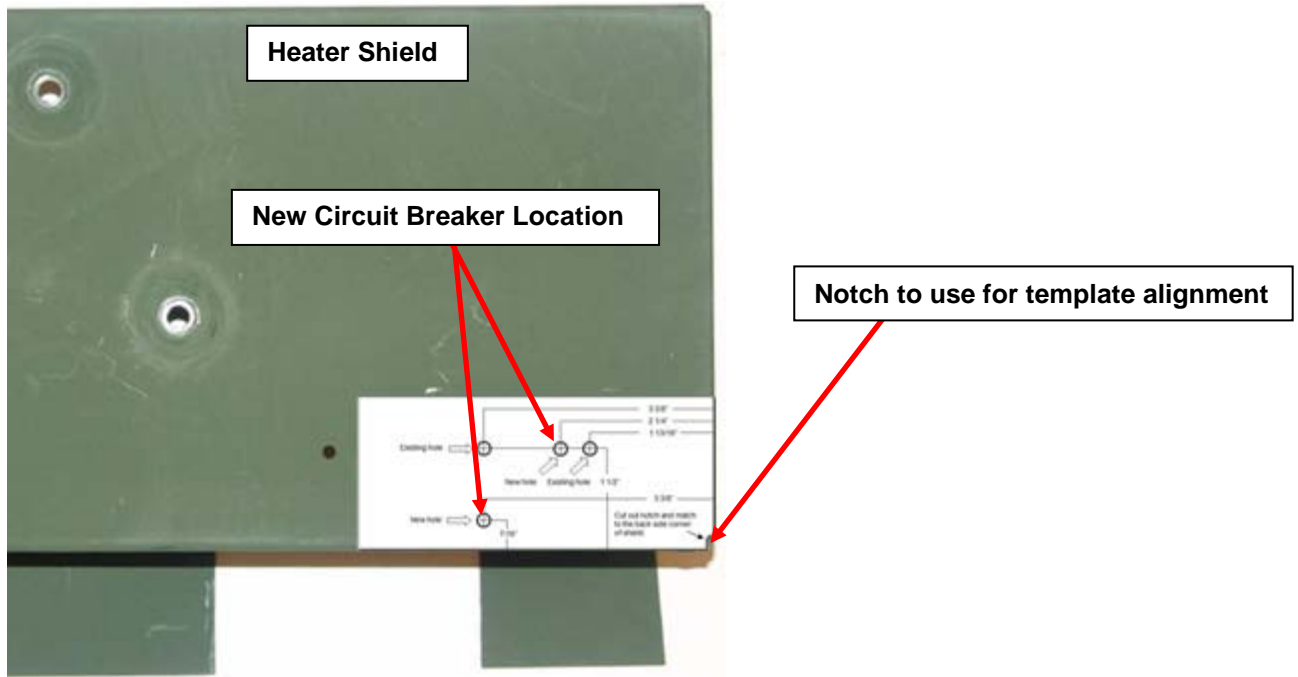


Step 2) Drill two holes using the template below to assist with the new locations. Ensure to clean out any leftover debris and mount the circuit breaker assembly using the existing hardware.

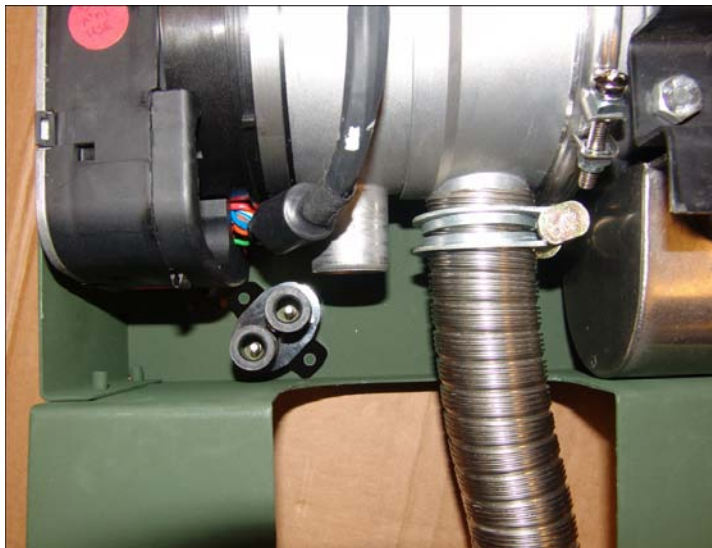
Print this page and cut out the template below. Make sure that your printer is set to **NO SCALING**. Align the existing holes and the notch in the bottom corner. Mark the new locations to be drilled. Remove template and drill two 3/16" holes.



CUT OUT THIS TEMPLATE



Step 3) Install the new heater and circuit breaker.



Circuit breaker rework is now complete.

NOTE: After the wire harness modification and the circuit relocation have been completed, the application is backwards compatible with a new or old cold start heater with either controller.

Additional parts and service information is located in the Parts / Service manual found on http://www.techwebasto.com/heater_military.htm

If you have any questions, contact our technical support team at (800) 860-7866 or via email at: info-us@webasto.com.