



**PREVOST**

ENREGISTRÉ - REGISTERED  
**ISO 9001 & ISO 14001**

# MAINTENANCE Mi11-16 INFORMATION



DATE : JULY 2011	SECTION : 22 - HVAC
SUBJECT : ADDITION OF A RESISTOR ON EVAPORATOR COMPARTMENT FAN SPEED CONTROL CIRCUIT WHEN REPLACING A53 OR A54 MULTIPLEX MODULE	

## *IMPORTANT NOTE*

*This procedure is needed only when proceeding to the replacement of first generation A53 (H3-41, H3-45, X3-45) or A54 (XLII MTH, H3 VIP) multiplex module with second generation module (see figure 1 for module generation identification). In this case, addition of a 3650Ω resistor parallel to circuit 131 (evaporator fan 2<sup>nd</sup> speed) is required. Without the addition of this resistor, evaporator fan might not run in second speed (fast).*


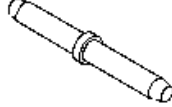

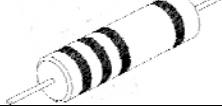
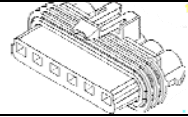
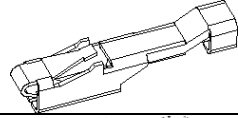


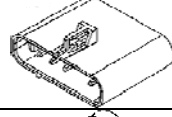

*Second generation module speed control signal voltage is higher than with first generation module (5 volts rather than 3.8 volts). 5 volts signal is too high to permit engagement of evaporator drive motor in 2<sup>nd</sup> speed (fast).*

## *IMPORTANT NOTE*

*Take note that the addition of a resistor is not needed with an evaporator fan manufactured after March 1, 2010 (date code 01 MAR 10 or later).*

## MATERIAL

Order the following parts:

Part No	Description		Qty
561565	Seal, cable		3
561783	Plug, connector cavity		1
561964	Ring terminal 22-18 AWG		1
562306	Resistor 3650 Ohms, 0.6 watts		1
562499	Heat shrinking sleeve ¼" ID clear		2 inches
562587	Wire, 18 AWG black		12 inches
564135	Connector body 6-position		1
564136	Terminal		5
564137	TPA terminal position assurance		1
564138	Common bar 6- position		1
564139	Cap		1
561840	Seal (use this seal with the resistor)		2
504637	Cable tie, nylon 13"		2

### **NOTE**

Material can be obtained through regular channels.

## PROCEDURE



### DANGER

Park vehicle safely, apply parking brake, stop engine and set battery master switch(es) to the OFF position prior to working on the vehicle.

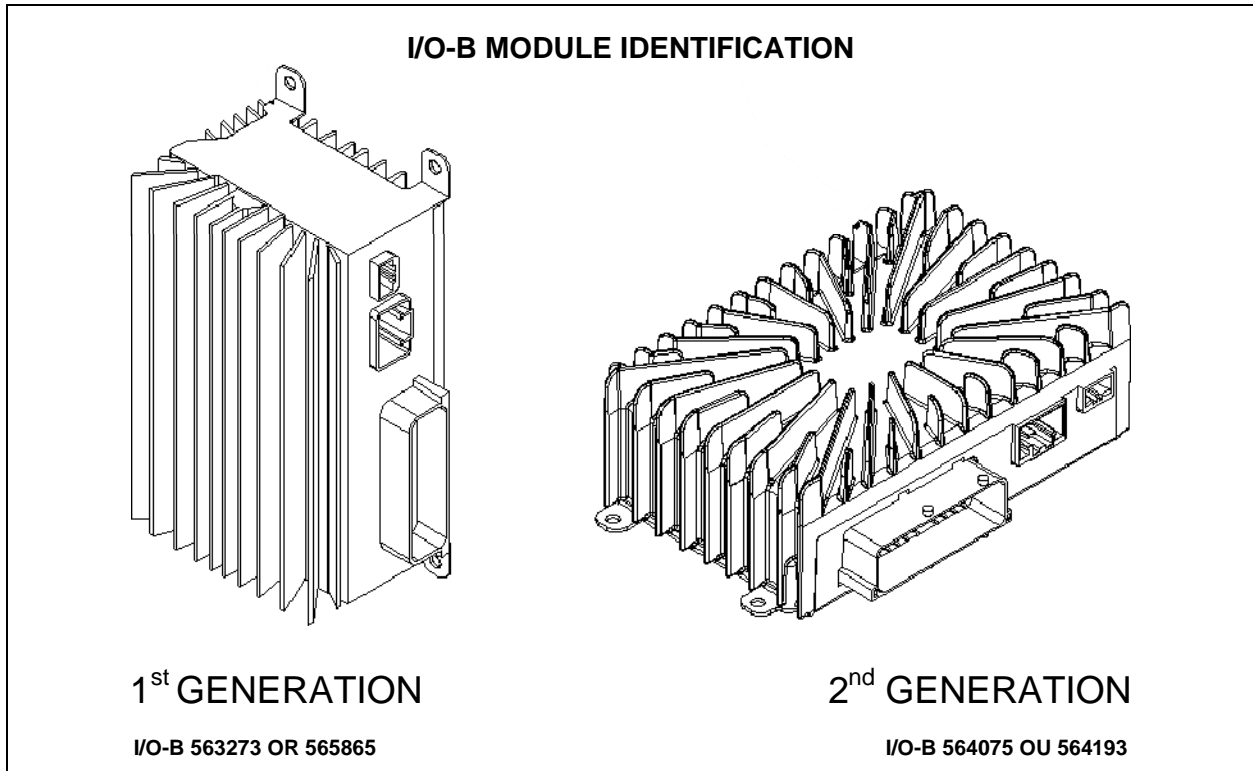
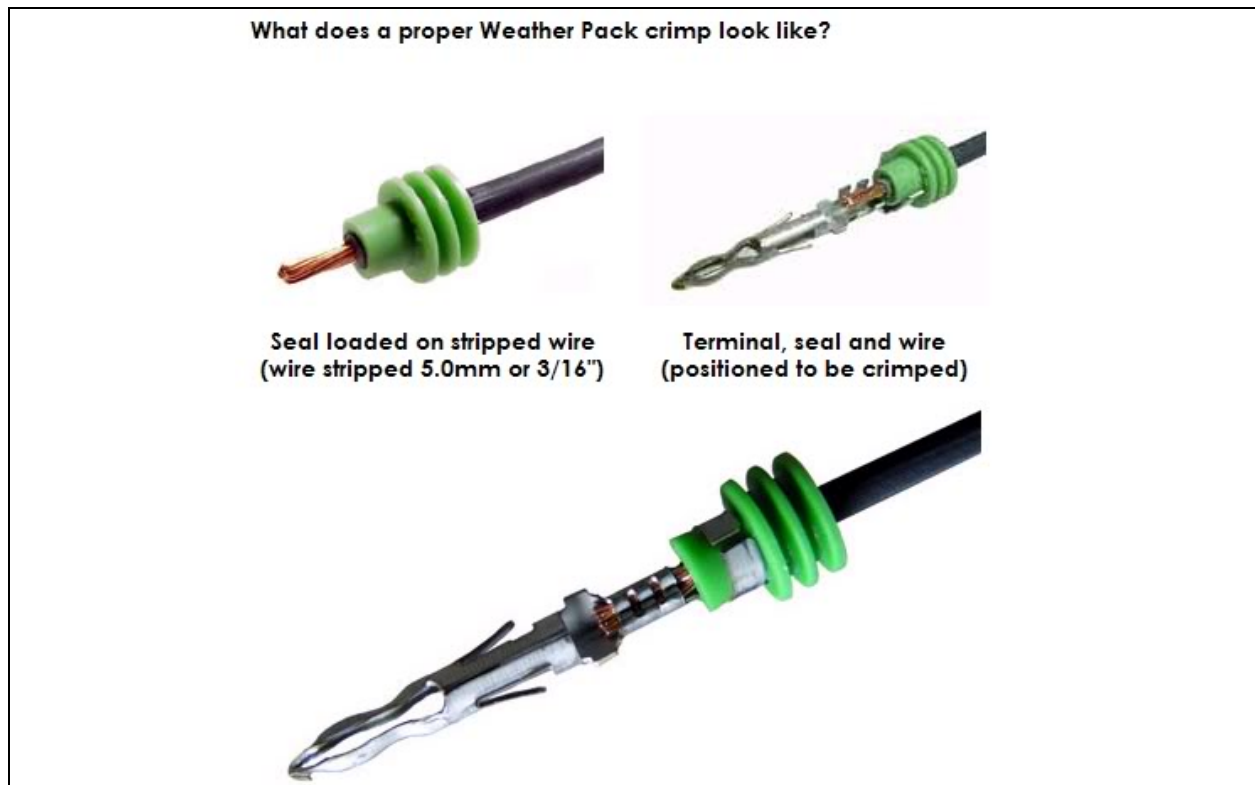


FIGURE 1

1. Inside the evaporator compartment, locate circuit 131 (orange wire) near the evaporator fan drive motor stud terminals.
2. Cut circuit 131, place a cable seal 561565 and crimp terminal 564136.



**FIGURE 2**

3. Place a cable seal 561565 on the motor white and crimp terminal 564136.
4. Crimp ring terminal 561964 to one end of black 18 AWG wire. Place a cable seal 561565 and crimp terminal 564136.
5. Place a seal 561840 to each end of resistor 562306 and crimp terminal 564136 to each end. Insert the resistor assembly in the heat shrinking tube and heat.
6. Cut the common bar 6-position 564138 in order to have one common bar 2-position and one common bar 3-position (figure 3).

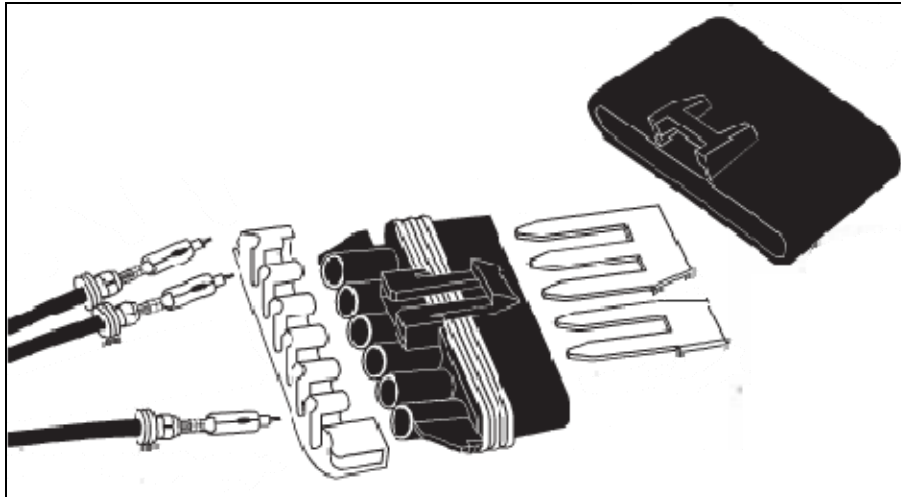


FIGURE 3

7. Perform connections as per figure 4. Insert plug 561783 into cavity #6.

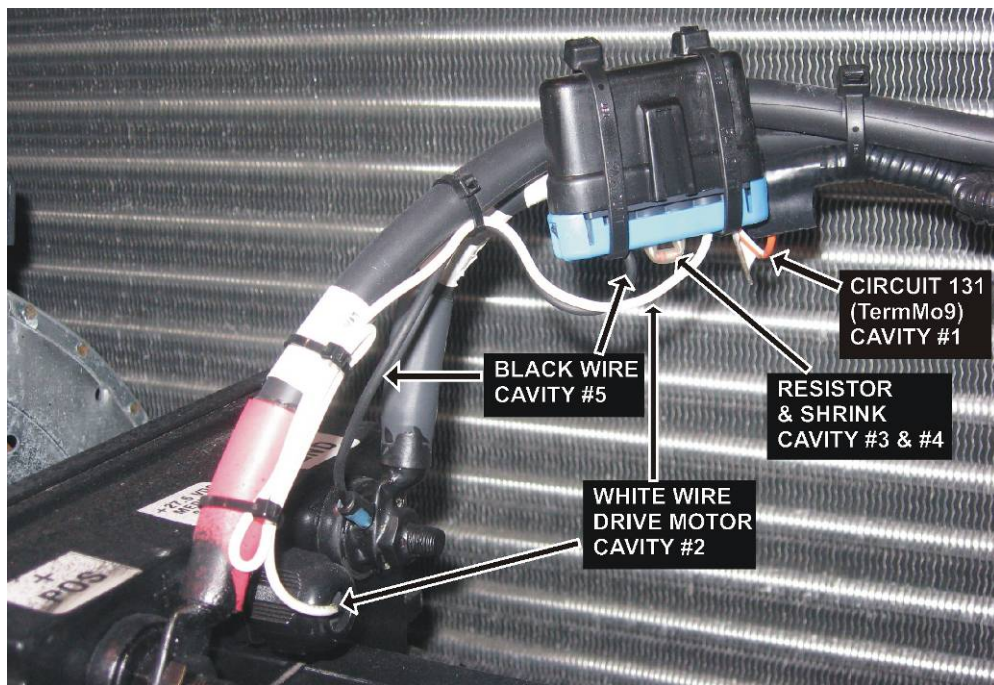


FIGURE 4

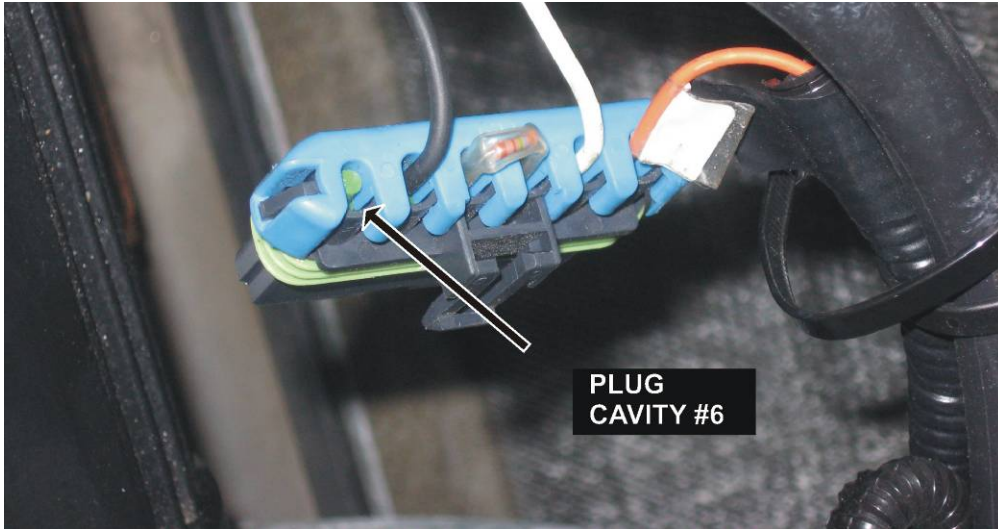


FIGURE 5

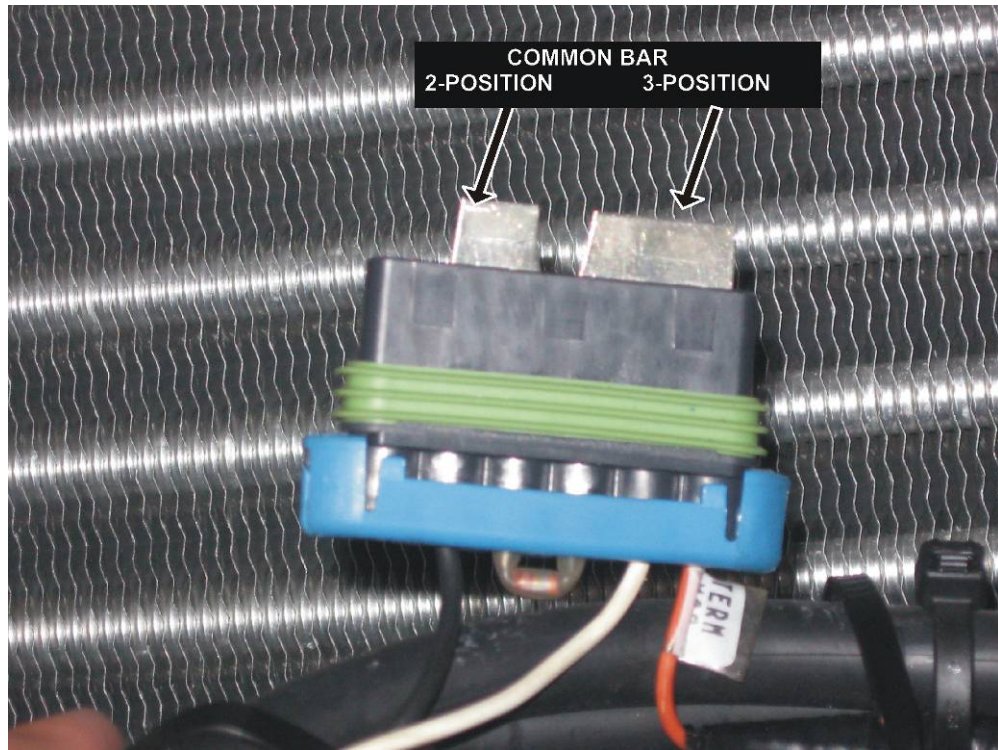


FIGURE 6

***IMPORTANT NOTICE***

*This modification is recommended by Prevest to increase your vehicle's performance. Note that no reimbursement will be awarded for carrying out this procedure.*