



**MAINTENANCE  
INFORMATION**

**MI13-46**

DATE :	JUNE 2013	SECTION: 06-Electrical
SUBJECT :	DIODE ADDITION TO 24CO CIRCUIT	


***IMPORTANT NOTICE***

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

**APPLICATION**

**NOTICE TO SERVICE CENTERS**

**Verify vehicle eligibility by checking warranty bulletin status with SAP or Vehicle Warranty Information tool found on PrevoSt-Systems tab of the Volvo Trucks Dealer Portal**

Model	VIN
H3 Coaches Model Year: 2011 - 2013	 <p>2PCH33498AC711573, 2PCH33496AC711605, 2PCH33495AC711627, 2PCH33496AC711636, 2PCH33499BC711695</p> <p>And from 2PCH33496BC711721 to 2PCH33494DC712164 incl.</p>
H3-45 VIP Converted Coach Shells Model Year : 2011 - 2013	<p>From 2PCVS3494BC711772 to 2PCVS3495DC712155 incl.</p>
X3-45 Coaches Model Year: 2011 - 2013	<p>2PCG33498AC729907, 2PCG33491AC729926, 2PCG33499BC729965, 2PCG33491BC729992</p> <p>And from 2PCG33491BC735002 to 2PCG33495DC735300 incl.</p>
X3-45 VIP Converted Coach Shells Model Year : 2012 - 2013	<p>From 2PCBS3499CC735070 to 2PCBS3496DC735299 incl.</p>
XL2-45 Entertainer Converted Coach Shells Model Year : 2011 - 2013	<p>2PCYS3495BC729971</p> <p>And from 2PCY33498BC735003 to 2PCYS3491DC735298 incl.</p>

**This bulletin does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery. The owners of the vehicles affected by this bulletin will be advised by a letter indicating the Vehicle Identification Number (VIN) of each vehicle concerned.**

## DESCRIPTION

On some post EPA 2010 vehicles, it is possible for the combined charging and starting system F81 fuse to blow unexpectedly.

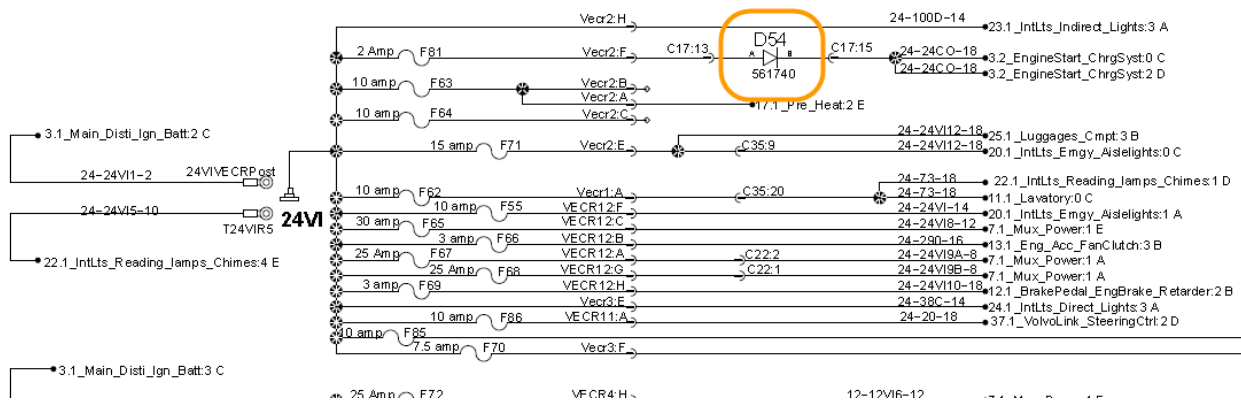
To avoid this situation, a 3 amp diode can be added to the corresponding 24CO circuit to prevent electrical back-flow to the fuse.

The following procedure describes the steps to follow to perform this modification.

## MATERIAL

Part No.	Description	Qty
561740	3 amp. diode	1
562499	Heat Shrink Tubing (Bulk)	10cm (4 inches)

<b>NOTE</b>
<i>Material can be obtained through regular channels.</i>



Partial wiring diagram shown as reference (complete wiring diagram of the circuit can be found under # D061140p5.1r7 on the [Prevost Technical Publication](#) web site).

## 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.

1. Locate the rear junction box in the power distribution compartment at the back of the vehicle (on X series, it is necessary to remove electrical compartment cover to access the box).

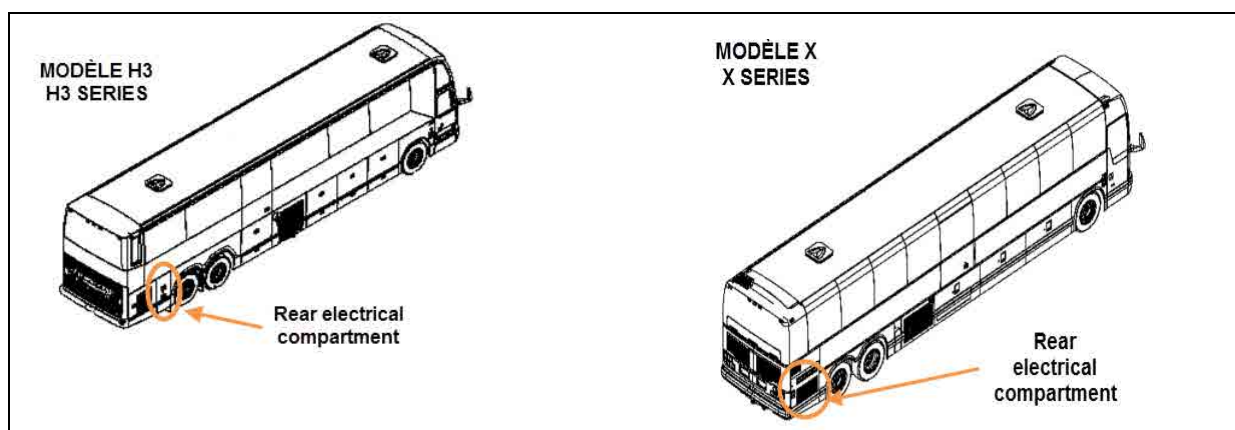


Fig. 1 Rear electrical compartment on H and X series vehicles.



Fig. 2 Electrical compartment cover (X series vehicles)

NOTE: The junction box is mounted vertically on H series and horizontally on X series (H series shown below).

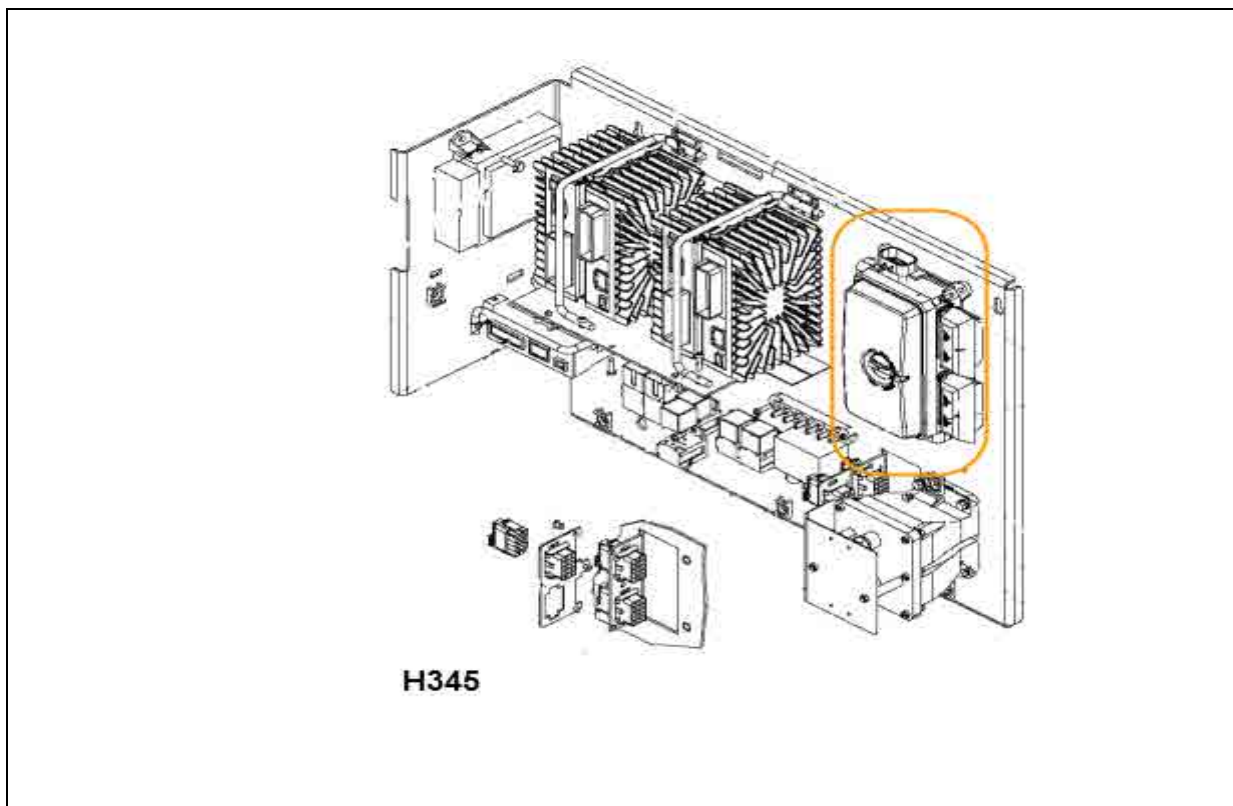


Fig.3 Junction box identification.

2. Locate the junction box red C17 connector.



Fig.4 C17 connector on H serie vehicles.

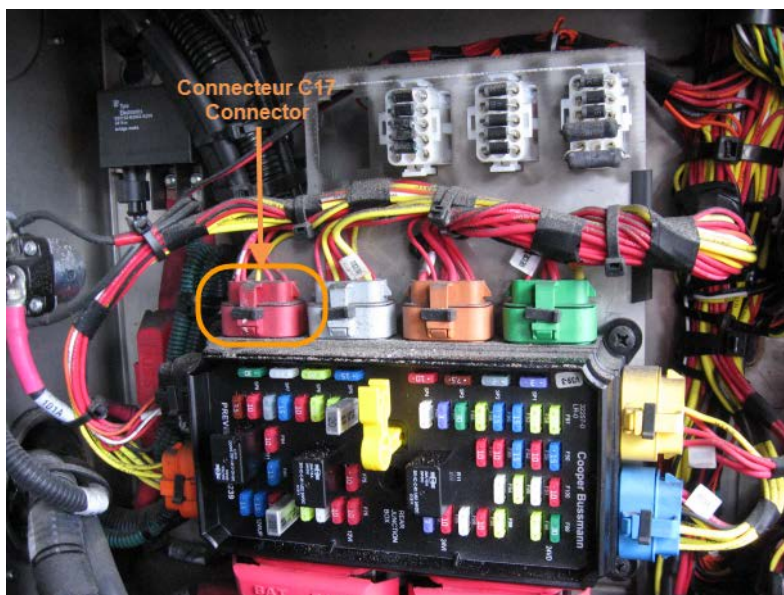


Fig.5 C17 connector on X series vehicles (junction box cover removed).

3. Locate the 24CO red wire at the back of the connector (wires are factory identified on their insulation sleeve).



Fig.6 24CO Wire identification on H series (Left) and X series (Right) vehicle.

**NOTE: H and X series vehicles have identical connectors but the 24CO wire is not in the same cavity.**

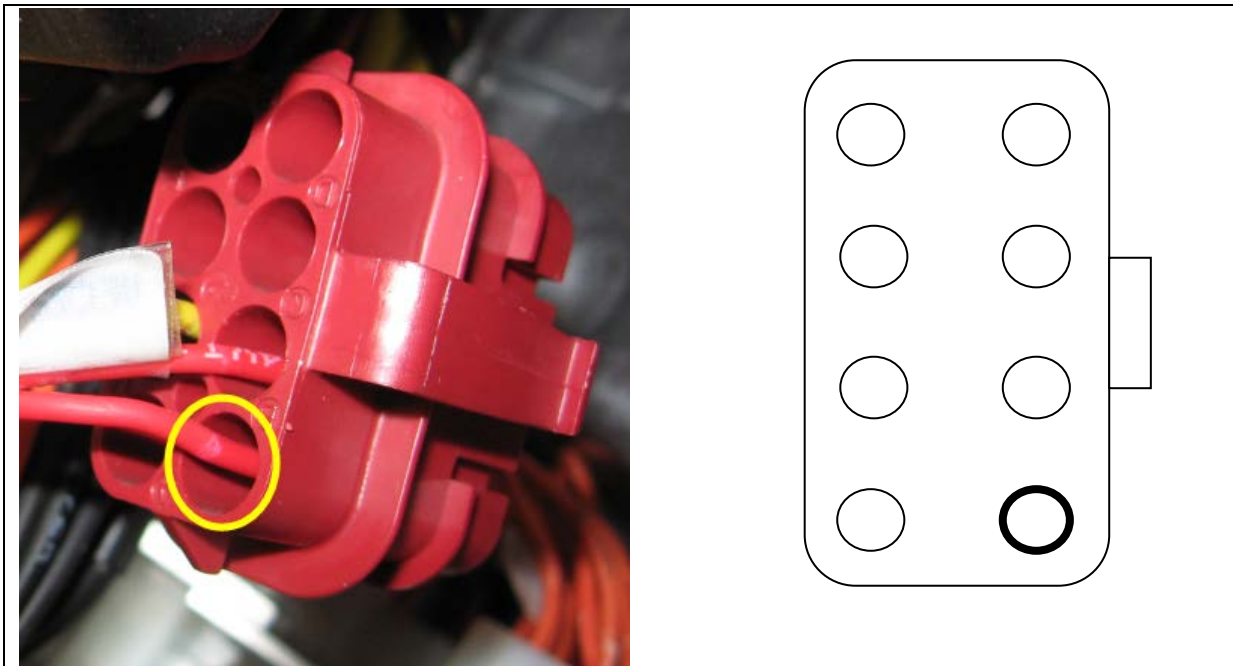


Fig.7 24CO Wire position in the C17 connector H series (Back view).

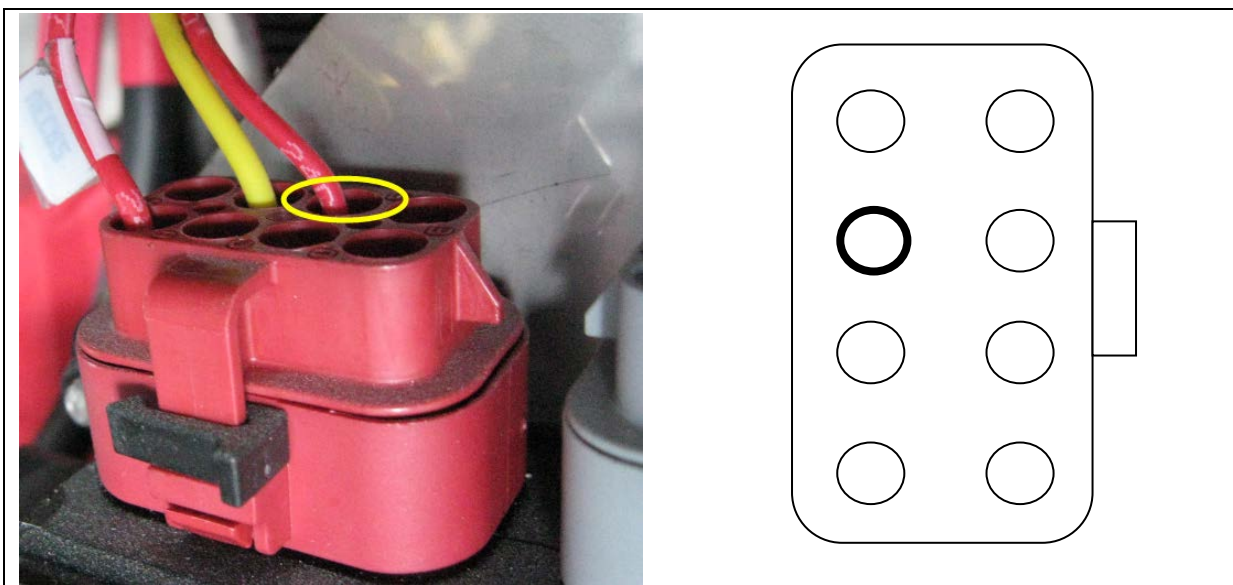


Fig.8 24CO Wire position in C17 connector X series (Back view).

- Cut the 24CO wire at a minimum of 10cm (4 inches) from the connector and strip the protective insulation on both ends (It is not required to unplug the connector but It may be necessary to remove one or more nylon cable tie(s) from the wire harness to get sufficient wire free length).

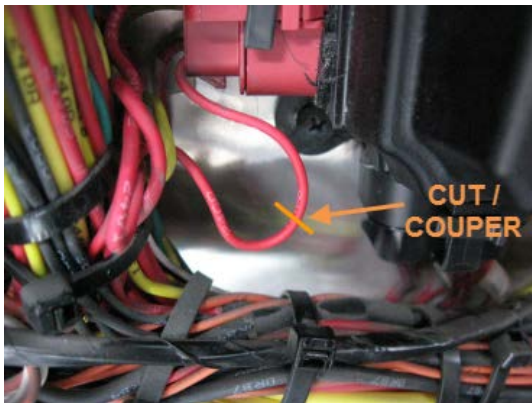


Fig.9 Cut and strip both ends of the wire.

- Insert a 10cm (4inches) length of shrink tubing (#562499 or equivalent) over the harness end of the 24CO wire.
- Solder a 3amp diode between the ends of the stripped wire.

**NOTE: The diode must be soldered with the white strip opposite to the Junction box connector.**

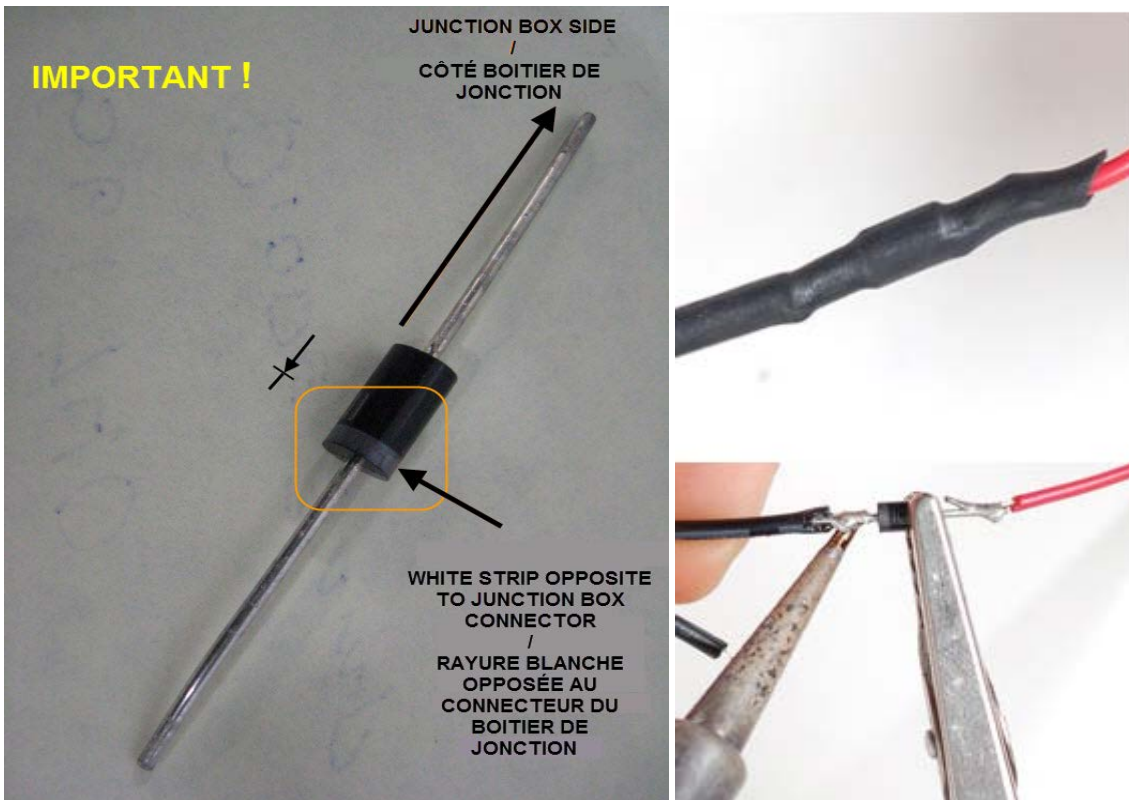


Fig.10 3amp diode installation.

7. Slip the heat shrink tubing over the diode and apply heat to insulate the wire/diode assembly.
  
8. Reinstall nylon cable tie(s) as required, set the vehicle master switch to the ON position and check for proper vehicle function.

**Waste disposal:**

Discard according to applicable environmental regulations (Municipal/State[Prov.]/ Federal)

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