

PREVOST

WARRANTY BULLETIN

WB23-01

DATE :	February 2023	SECTION :	06 ELECTRICAL
EXPIRATION:	February 2025		
SUBJECT :	IMPROPER VEC(F) POWER DISTRIBUTION		


First Release

02-20-2023

APPLICATION

NOTICE TO SERVICE CENTERS

*Verify vehicle eligibility by checking warranty bulletin status with **SAP** or via **ONLINE WARRANTY SYSTEM** available on Service / Warranty tab of Prevost website.*

Model	VIN	
H3-45 Coaches Model Year: 2023	2PCH33491PC721337, 2PCH33493PC721338, 2PCH33493PC721341, 2PCH33495PC721342, 2PCH33499PC721344, 2PCH33490PC721345, 2PCH33492PC721346, 2PCH33494PC721347, 2PCH33498PC721349, 2PCH33494PC721350, 2PCH33496PC721351	<small>V.I.N. ██████████ PREVOST CAR INC. 575 CLARE BORCHERTER, QUE., CANADA</small>

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

The vehicles affected by this bulletin may have been equipped with an improper front VEC unit, specifically, the multiplex modules AE41 & AE42 are possibly feed from the VEC with 12VD instead of 24V WUP.

Therefore, all listed vehicles must have their front VEC verified following the procedure below and replaced as needed.

MATERIAL

Order the following part as required (proceed to verification before ordering):

Part No.	Description	Qty
560531	DVEC DIST. MODULE FRONT JUNCTION BOX ISM	1

NOTE

Material can be obtained through regular channels.

SAFETY PRECAUTIONS

- Eye protection should always be worn when working in a shop.
- Rules for Personal Protection Equipment should always be respected. Wear your PPE including but not limited to the following:



Safety First!



PROCEDURE



DANGER

Park vehicle safely, apply parking brake, stop the engine. Prior to working on the vehicle, set the ignition switch to the OFF position and trip the main circuit breakers equipped with a trip button. On the Commuter type vehicles, set the battery master switch (master cut-out) to the OFF position.

Lockout & Tag out (LOTO) must be performed during set-up, maintenance or repair activities. Refer to your local procedure for detailed information regarding the control of hazardous energy.

1. Open the vehicle front electrical compartment (front junction box) and locate the VEC unit (figure 1).
2. Open the VEC cover and validate the **Prevost part number** located at the right of the unit (position 1 in figure 2) part number must be **560531**.
3. Power up the vehicle electrical system and check that:
 - F34 fuse is a 5A fuse (position 2 figure 2).
 - F34 fuse circuit is powered by 24V Wake-up (wake-up = must stay powered for 15 min after ignition shut-off).
4. If the VEC fails the tests at step 3, it must be replaced (order new VEC part # 560531).

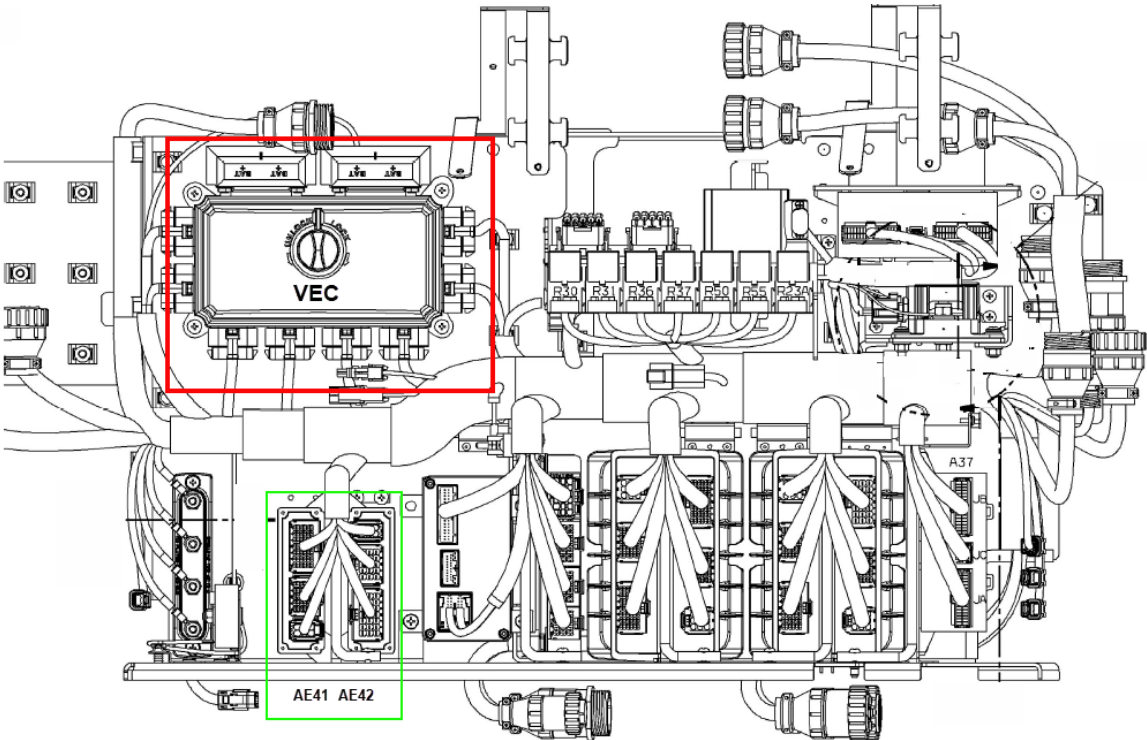


Figure 1 : VEC unit location in front junction box (also shown AE41 & AE42 affected modules).

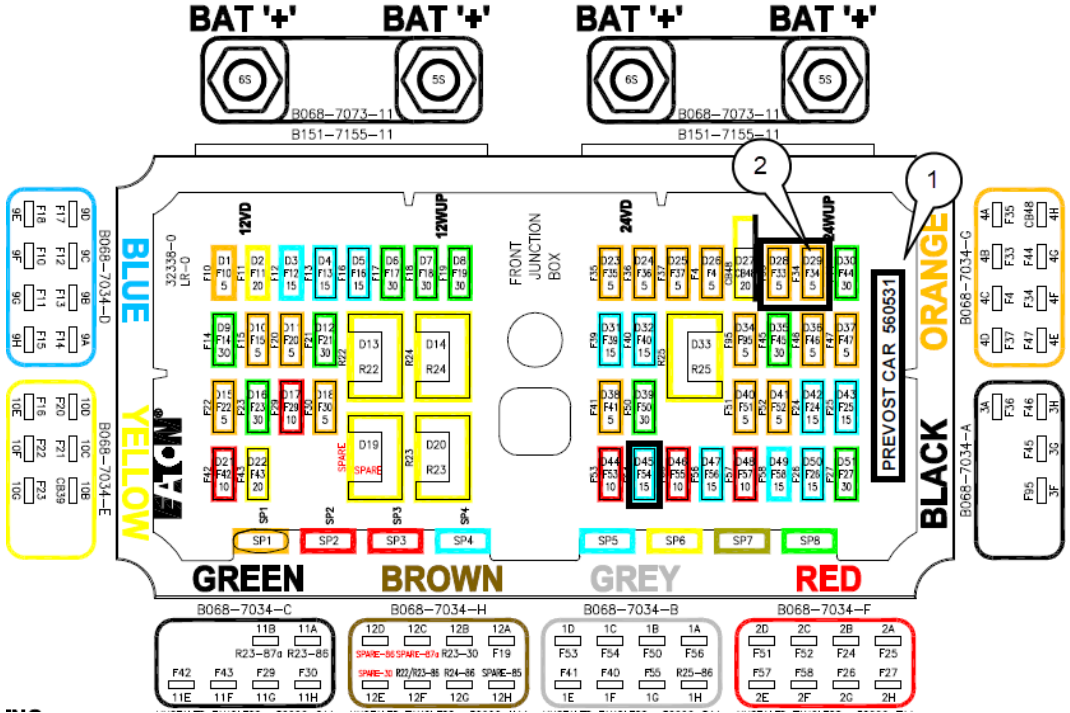


Figure 2: Prevost part number (1) and F34 fuse (2) position in VEC unit

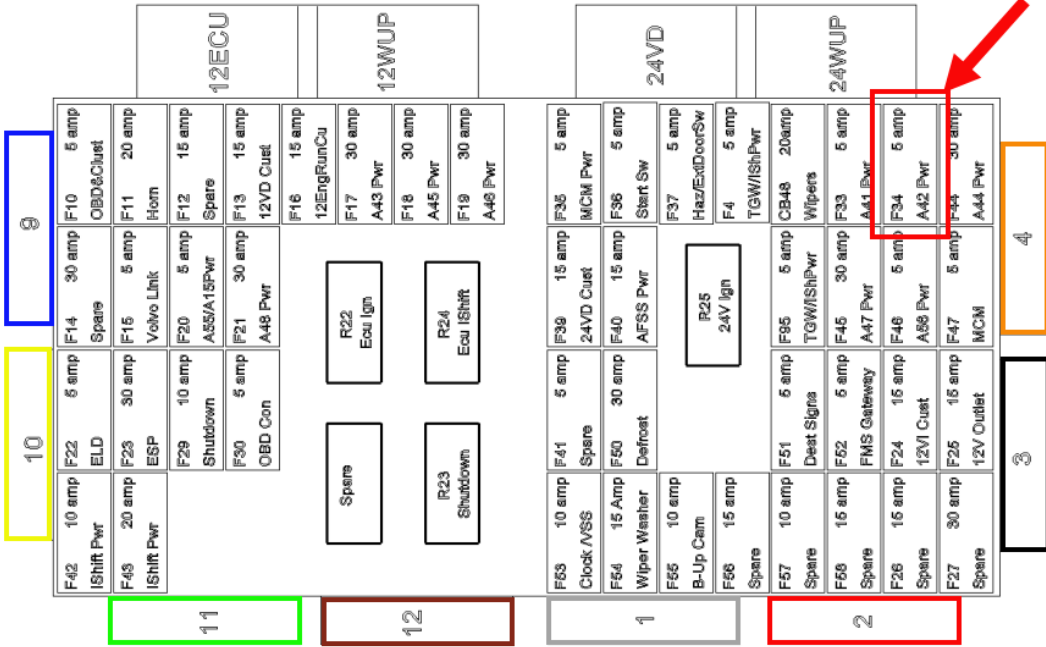
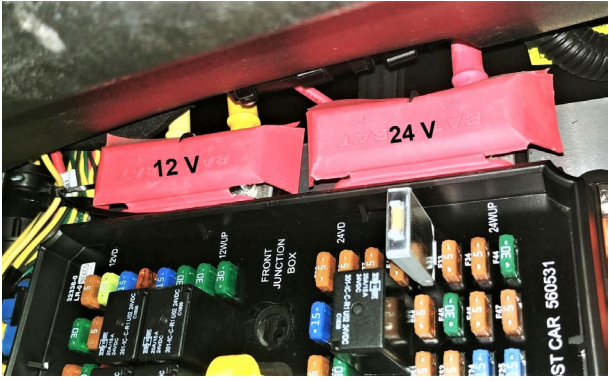
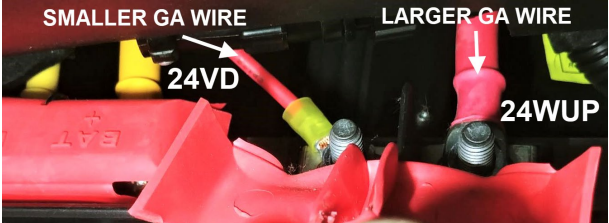
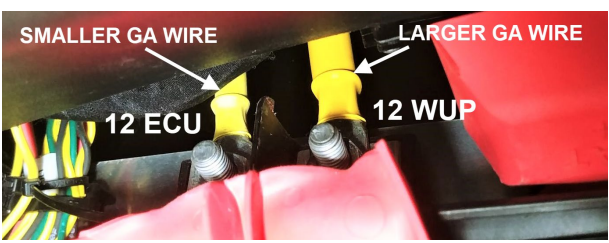


Figure 3: Other view of the F34 fuse position in VEC

FRONT VEC REPLACEMENT

1. Set the ignition switch to the OFF position, turn the main electrical shut off switch to off and trip the main circuit breakers equipped with a trip button.
2. Disconnect the 12 & 24 Volt power cables from the VEC.
 - Disengage from the cables the two top (red) rubber protector on top of the VEC unit, this will expose the 4 connections.
 - Remove the nuts securing the cables round terminals to the VEC studs (do not discard).

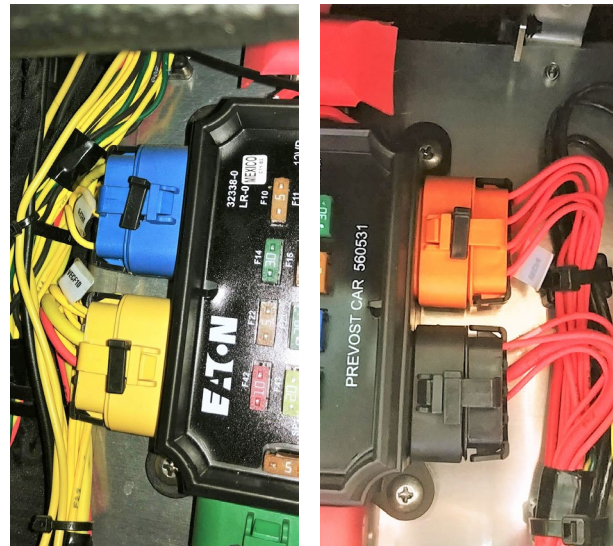
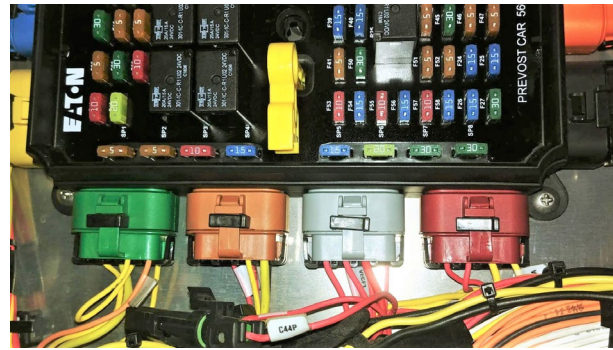
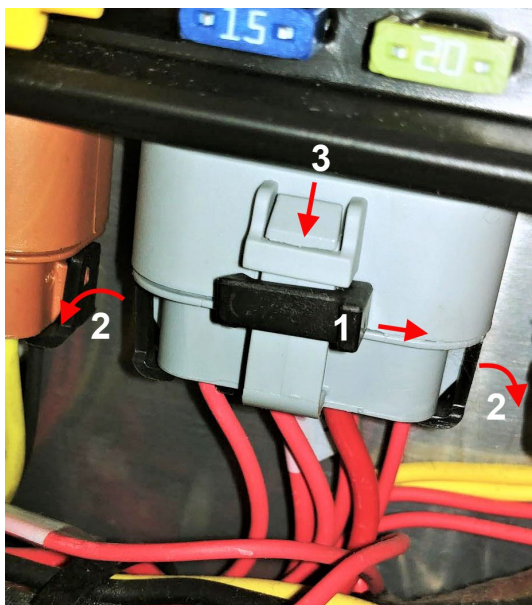
3. Disconnect the 8 connectors from the VEC

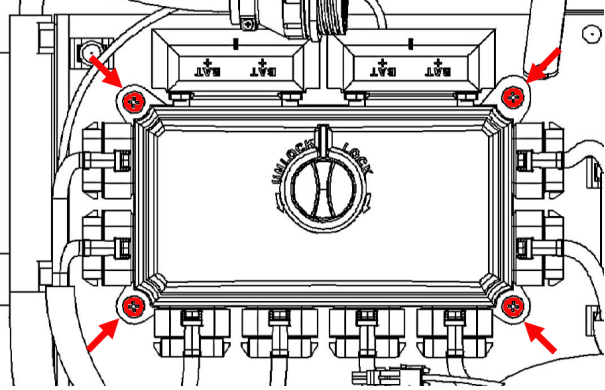
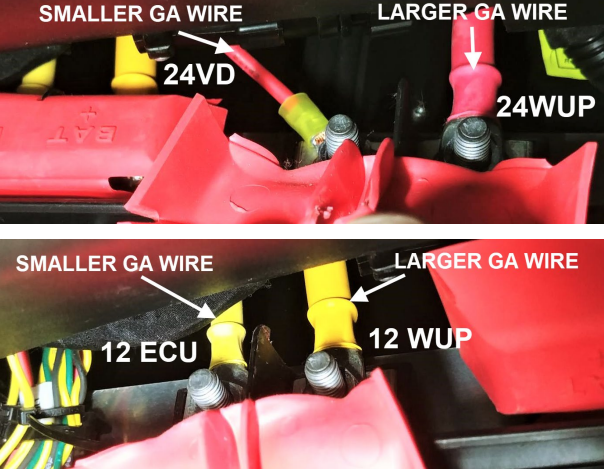
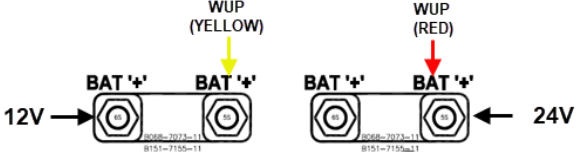
- Remove the 4 lower connectors (from left to right: green, brown, gray & red).
- Remove the 2 left connectors (blue top & yellow bottom).
- Remove the 2 right connectors (orange top & black bottom).

NOTE

Each connector is secured using 3 different locking mechanisms

- Lock 1 must be removed first (slide to right & do not lose).
- Lock 2 must then be disengaged on both sides of the connector.
- Finally the center lock 3 can be disengaged and the connector removed.



<p>4. Unscrew the 4 Phillips head screws (each corners) holding the VEC to the vehicle.</p>	
<p>5. Reverse this procedure to install a new VEC module.</p> <ul style="list-style-type: none"> • Make sure that the new module part number is 560531. • Make sure that the new module F34 fuse is 5A. • Make sure that the power cables are reconnected at their original location (VEC studs) <ul style="list-style-type: none"> - Yellows = 12V (left connection) - Reds = 24V (right connection) - WUP = larger GA wire (12 & 24V) - VEC screw connections torque 216 lb-in (24 Nm) 	 
<p>6. Once reinstalled, reset the power and check to make sure that there is 24V WUP at the F34 fuse.</p>	

PARTS / WASTE DISPOSAL

All replaced parts must be returned to Prevest according to the Return Shipping Instructions available on <https://www.prevestcar.com/content/warranty-documents> for full reimbursement. A copy of the warranty claim form must be enclosed with the shipment.

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

WARRANTY

This modification is covered by Prevost's normal warranty. We will reimburse you the parts and one hour (1.0) of labor upon receipt of the parts and a warranty claim. Please submit claim via our Online Warranty System, available at www.prevostcar.com (under Service \ Warranty section). Use Claim Type: "Bulletin/Recall" and select "Warranty Bulletin WB23-01".

OTHER

VBC Bulletin	N/A
Fail Code	06.21
Defect Code	09
Syst. Cond	B
Causal Part	560531

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