

# Special Bulletin

# SP22-301A

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Revision: A                      Connection points on top of the fuses added to the procedure                      03-01-2022

## LOOSE CONNECTIONS ON ALTERNATOR CABLES – MAIN POWER COMPARTMENT

Prevost vehicles

### DESCRIPTION

On the vehicles affected by this bulletin, perform the following procedure to remedy four (4) potentially loose connections in the main power compartment.

### MODEL YEAR(S) AND VEHICLES INVOLVED

<b>NOTICE TO SERVICE CENTERS</b>		
<i>Verify vehicle eligibility by checking warranty bulletin status with <b>SAP</b> or via <b>ONLINE WARRANTY SYSTEM</b> available on Service / Warranty tab of Prevost website.</i>		
<b>Model</b>	<b>VIN</b>	<b>Fleet Number</b>
X3-45 Commuter Model Year: 2021 - 2022	Specific vehicles within the following range From 4RKJ33492 <u>M9737751</u> up to 4RKJ33499 <u>N9737957</u> incl	From 1300 up to 1548, incl.
<b>This bulletin does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery.</b>		

### MATERIAL NEEDED

The following parts:

<b>Part No.</b>	<b>Description</b>	<b>Qty</b>
504637	CABLE TIE, NYLON	4
5001341	WASHER, FLAT	4
5001787	NUT, NYRT SS M8-1.25X9.5	4

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### REQUIRED TOOLS

<b>YELLOW TORQUE SEAL</b> 	<b>RATCHET AND SOCKET SET – METRIC</b> 
<b>TORQUE WRENCH</b> 	

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

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### 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!**



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## 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 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. In the main power compartment, remove the three (3) nylon ties identified on Figure 1.



Figure 1: three cables, two connection points

2. Unscrew and discard two (2) nuts identified on Figure 2. Clean any residue of torque marks on the studs, lugs and fuse bus bars.

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Figure 2

3. Inspect the lugs, the studs and the fuse bus bars for damages. **If heat damage is evident, STOP AT THIS STEP** and contact immediately the Prevost field service manager and NYCT representative to further inspect the damage.

Example of damage: wear, heat effect, damaged parts, no coating on bus bars where the terminal sit or glue residue, among others.



Figure 3: cable lug in good condition, no heat effects

4. **FIRST CONNECTION POINT** (Figure 4). Reinstall the components in the proper sequence i.e. fuse bus bar, cable lug F101, cable lug ALTLL, washer and then the nylon insert nut (Figure 5).

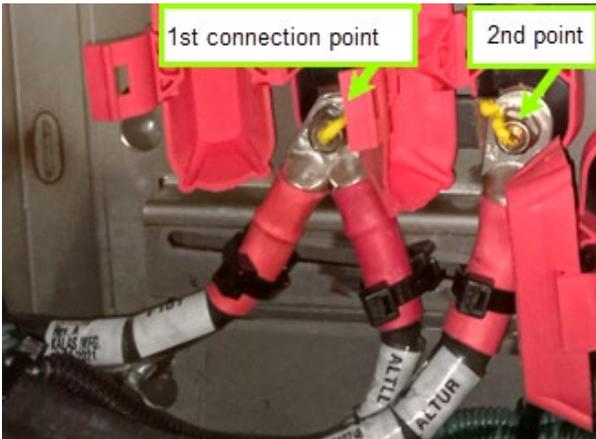


Figure 4: connection point: 1st & 2nd

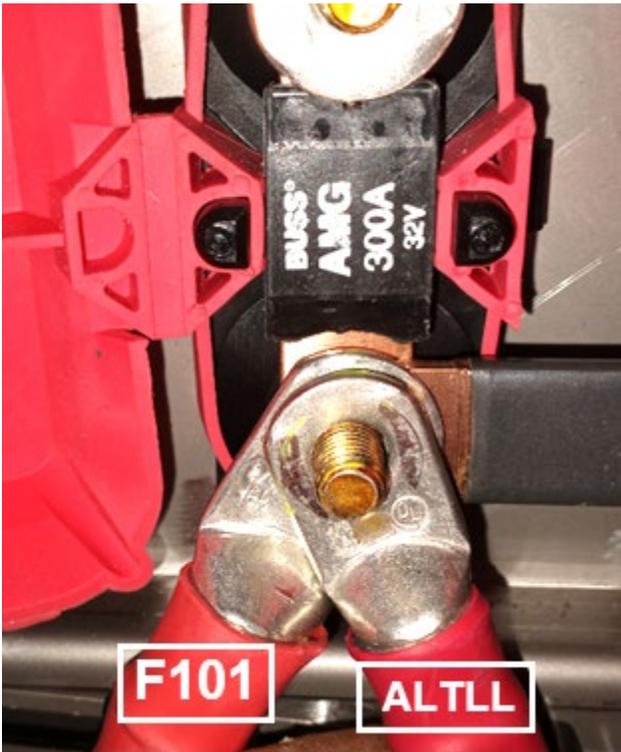


Figure 5: 1st connection point

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- Secure the two (2) cable lugs using one (1) washer no 5001341 and a nylon insert nut no 5001787. Tighten to a torque of 100 lbs-in.

**IMPORTANT FOR LARGE CABLES:** hold firmly the lug on the fuse during tightening as seen on Figure 6. Make sure contact between lug and bus bar is perfectly flat (Figure 7).

**NOTE:** Make sure there is no gap between the two terminal lugs. Make sure the 2 cables are sitting flat.



Figure 6

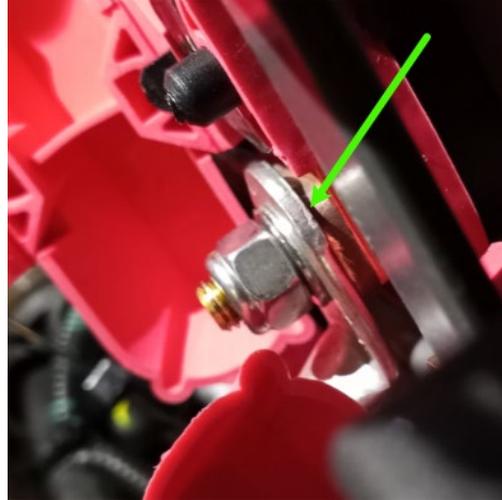
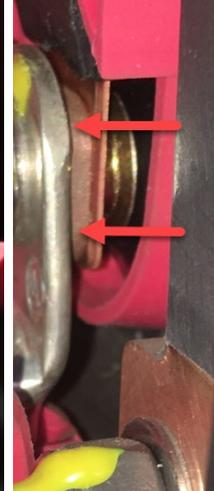


Figure 7: cable lug flat on bus bar



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6. **2<sup>ND</sup> CONNECTION POINT** (Figure 8). Reinstall the components in the proper sequence i.e., fuse bus bar, cable lug ALTUR, washer and then the nylon insert nut (Figure 6).



Figure 8: 2nd connection point

7. Secure the cable lug using one (1) washer no 5001341 and a nylon insert nut no 5001787. Tighten to a torque of 100 lbs-in.

**IMPORTANT FOR LARGE CABLES:** hold firmly the lug on the fuse during tightening as seen on Figure 6. Make sure contact between lug and bus bar is perfectly flat (Figure 7).

8. The cables arrangement in the passthrough should look as seen on Figure 9.



Figure 9

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9. Make sure that the three (3) cables are properly secured to the studs. No movement or rotation is allowed. Push/pull lightly on the cables, you should not feel any loose, the whole fuse block should move with the cables.

10. Install three (3) nylon ties no. 504637 as shown on Figure 10.

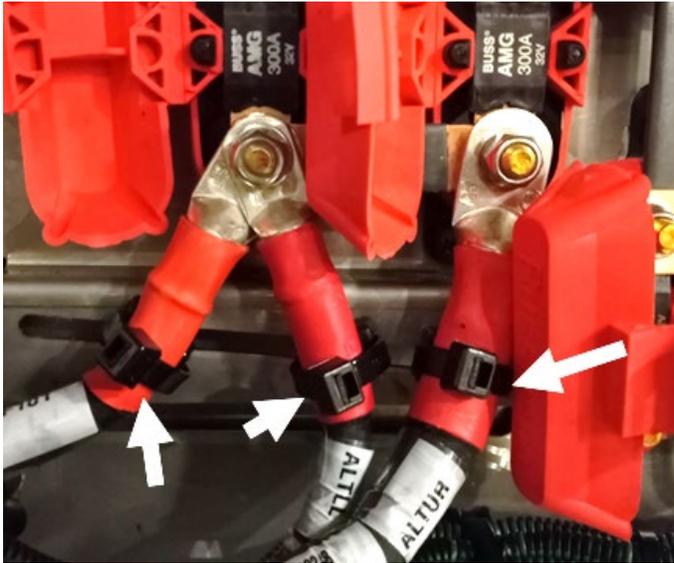


Figure 10

11. Inspect once again the contact between lugs and fuse bus bars.

- If OK, apply yellow torque seal marks.
- If not OK, redo the sequence, check and finally apply yellow torque seal marks .

12. **3<sup>RD</sup> & 4<sup>TH</sup> CONNECTION POINTS.** Repeat the same process for the 3<sup>rd</sup> & 4<sup>th</sup> connection points located on top of the same two (2) fuses. See Figure 11.

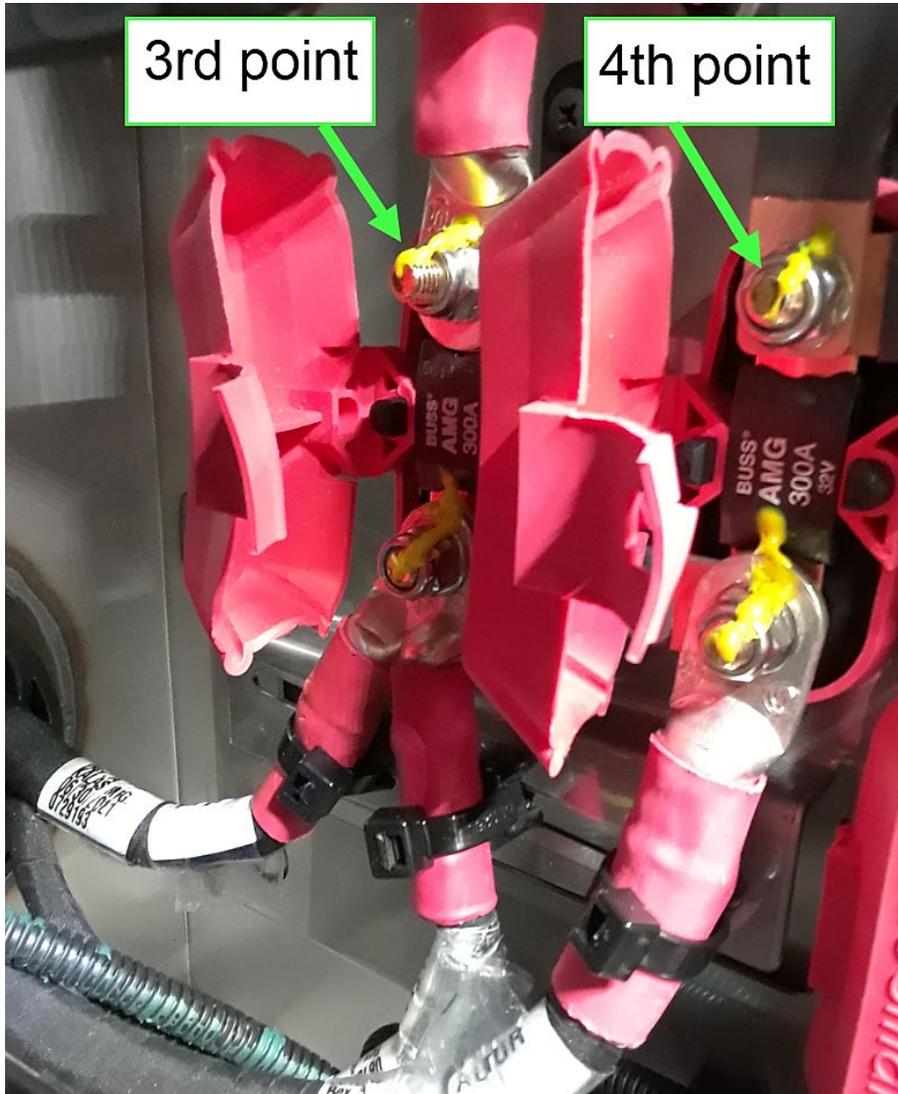


Figure 11: connection point: 3rd & 4th

13. Remember to report any other loose connections of **power cables** with VIN to Prevost field service manager and NYCT representative.

14. Remove the lockout/tag out, start the engine and confirm charging voltage.

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## PARTS / WASTE DISPOSAL

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

## ESTIMATED TIME

The time required to perform this special bulletin is  $\frac{3}{4}$  hour (0.75 h).

## OTHER

VBC Bulletin	N/A
Fail Code	06.21
Defect Code	09
Syst. Cond	B
Causal Part	5001787

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