

Special Bulletin

SP22-303

Date	Expiration	Release	Page
03.2022	03.2024	1	1(7)

First Release

05-14-2022

ALTERNATOR LOOSE CONNECTORS

Prevost vehicles

DESCRIPTION




On the vehicles affected by this bulletin, the positive terminal (main power cable) may not be fully tightened at the back some the alternators.

MODEL YEAR(S) AND VEHICLES INVOLVED

<i>NOTICE TO SERVICE CENTERS</i>		
<i>Verify vehicle eligibility by checking warranty bulletin status with SAP or via ONLINE WARRANTY SYSTEM available on Service / Warranty tab of Prevost website.</i>		
Model	VIN	Fleet Number
X3-45 Commuter Model Year : 2021 - 2023	Specific vehicles within the following range From 4RKJ33492 M9737751 up to 4RKJ33490 P9738062 incl.	From 1300 up to 1595, incl.
This bulletin does not necessarily apply to all the above-mentioned vehicles, some vehicles may have been modified before delivery.		

MATERIAL NEEDED

Order the following parts:

Part No.	Description		Qty
684013	COLOR GUARD RUBBER COATING		As Req.
5001983	NUT HEX NYRT SS NSS M8X1.25		2
560811	WASHER, ELECTRICAL CONDUCTOR		3

Date	Expiration	Release	Page
03.2022	03.2024	1	2(7)

REQUIRED TOOLS

<p>3/8" TORQUE WRENCH</p> 	<p>3/8" DRIVE SOCKET, METRIC 13MM & 5/8"</p> 
<p>13MM & 5/8" CROW FOOT</p> 	<p>3/8" DRIVE RATCHET</p> 

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 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. Locate the positive alternator cable at the back of the upper RH alternator (alternator #2 Figure 1 & 2).

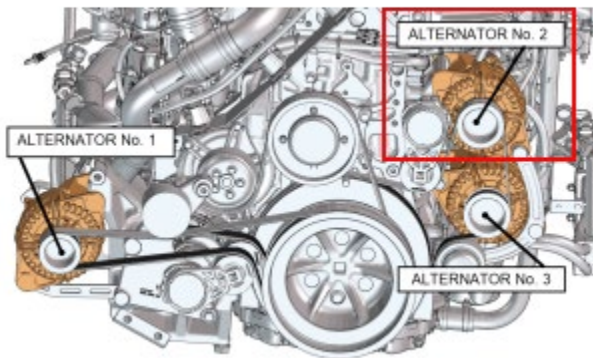


Figure 1: First alternator to be checked

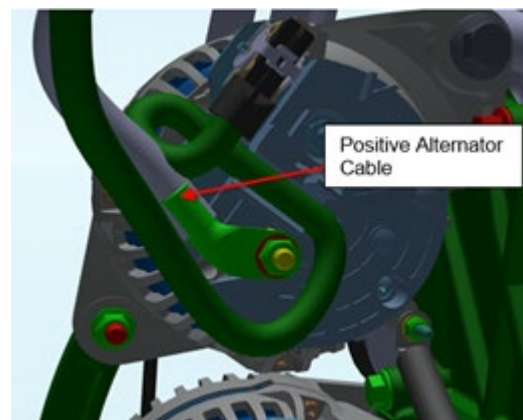


Figure 2: Problematic cable & terminal upper RH

2. Remove the terminal protective color guard (black rubber) (Figure 3).



Figure 3: Black color guard on terminal post

Date	Expiration	Release	Page
03.2022	03.2024	1	4(7)

3. Inspect the terminal and the alternator stud.
Look for any color change or heat damage (see example Figure 4).

IMPORTANT: If heat damage is present, STOP AT THIS STEP and contact the Prevost field service manager and NYCT representative to further inspect the damage, parts may need to be replaced.



Figure 4: Example of discoloration caused by heat damage

4. If no damage is detected:

- remove top nut, flat washer, power cable, stud extension, flat washer and jumper cable.
- Discard top nut and flat washer.
- Clean all the contact surfaces making sure there is no color guard left (alternator back, cable terminals and extension stud).

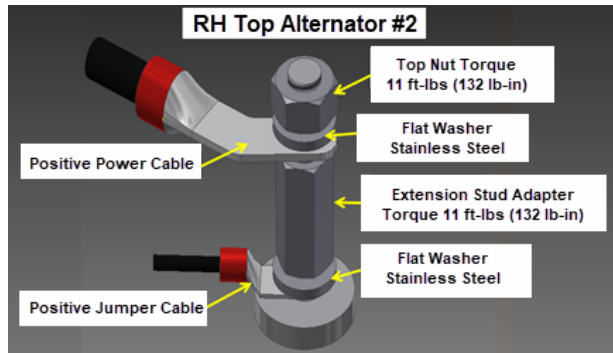
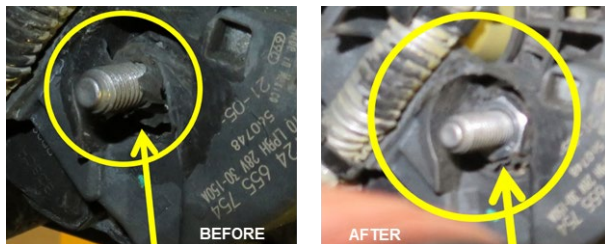


Figure 5: Torque adaptor stud + Top nut to 132 lb-in

5. Re-assemble in this order:

- Jumper cable terminal to alternator stud
- Flat Washer
- Stud extension **torque the stud extension to 132 lb-in** (Figure 5)
- Power cable terminal to stud extension.
- Flat Washer
- Top nut **torque the top nut to 132 lb-in** (Figure 5 & 6)

HOLD THE CABLE WHILE TIGHTENING TO AVOID ROTATION



Figure 6: Torque top nut to 132 lb-in

6. Re-apply color guard to the stud and terminal (Figure 7).

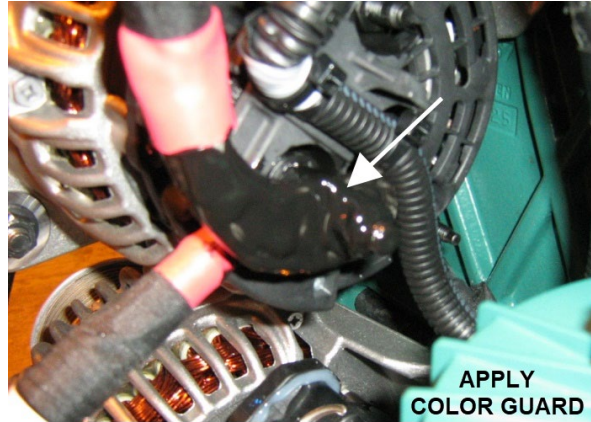


Figure 7: Color guard re-application

7. Repeat this procedure for the LH alternator (alternator # 1, Figure 8 & 9).

8. Remove color Guard (rubber coating) & inspect terminal.

IMPORTANT: If heat damage is present, STOP AT THIS STEP and contact the Prevost field service manager and NYCT representative to further inspect the damage, parts may need to be replaced.

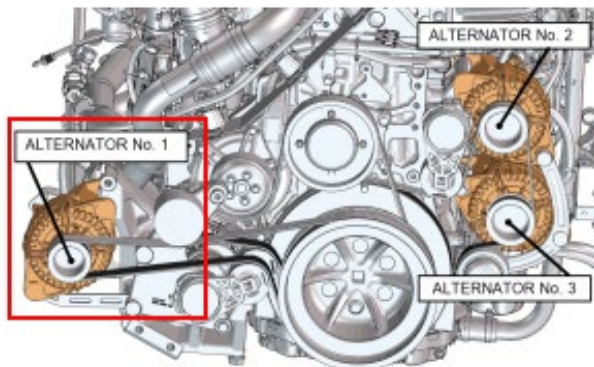


Figure 8: Second alternator to be checked

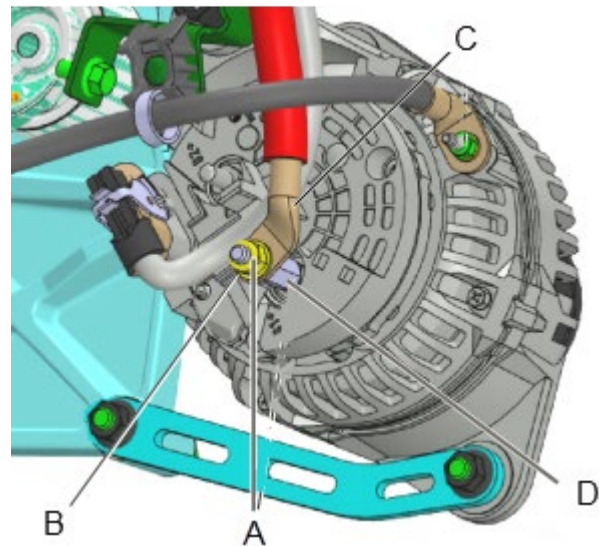


Figure 9: Problematic cable & terminal LH alternator

- A. Top Nut
- B. Flat Washer
- C. Power (positive) Cable
- D. Extension Stud (adapter)

Date	Expiration	Release	Page
03.2022	03.2024	1	6(7)

9. If no damage is detected:

- remove top nut, flat washer power cable & stud extension.
- Discard top nut and flat washer.
- Clean all the contact surfaces making sure there is no color guard left (alternator back, cable terminals and extension stud).

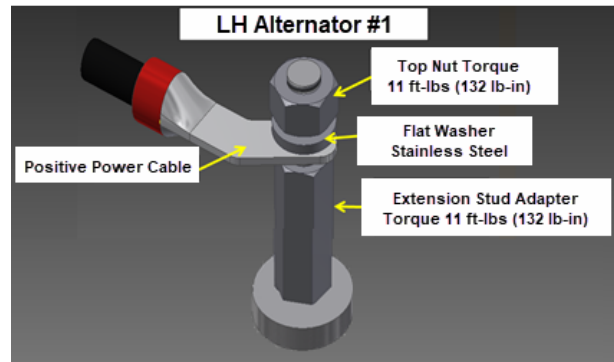
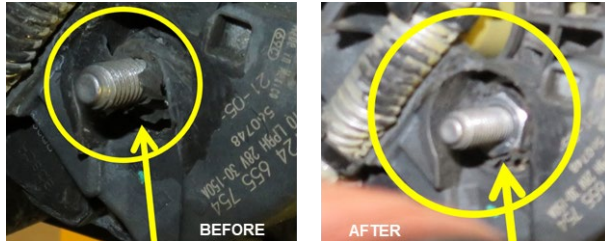


Figure 10: Torque adaptor stud & top nut to 132 lb-in

10. Re-assemble in this order:

- Stud extension **torque the stud extension to 132 lb-in** (figure 10)
- Power cable terminal to stud extension.
- Flat Washer
- Top nut **torque the top nut to 132 lb-in** (Figure 10 & 11)



Figure 11: Torque top nut to 132 lb-in

HOLD THE CABLE WHILE TIGHTENING TO AVOID ROTATION

11. Re-apply color guard to the stud and terminal (Figure 12).

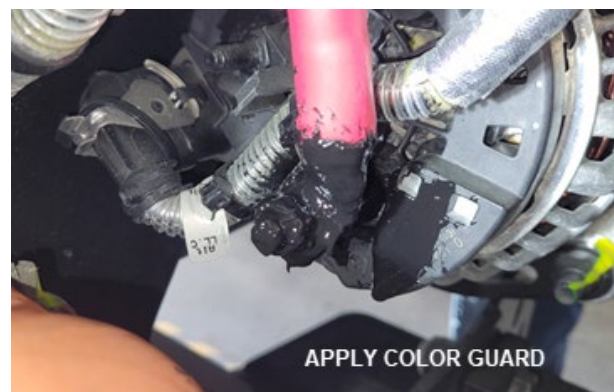


Figure 12: Color guard re-application

Date	Expiration	Release	Page
03.2022	03.2024	1	7(7)

12. **Do not** repeat this procedure for the lower RH alternator (Figure 13).

Proceed to a visual inspection and report anything suspicious and contact the Prevost field service manager and NYCT representative to further inspect the problem.

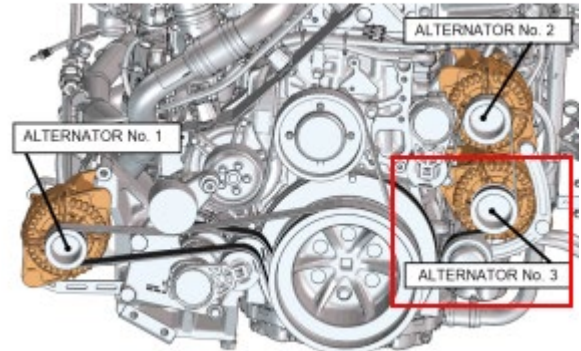


Figure 13: Lower RH alternator VISUAL INSPECTION ONLY

13. Remove the lockout/tag out devices, start the engine and confirm correct charging voltage.

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 approximately 30 minutes (0.5) hour.

OTHER

VBC Bulletin	N/A
Fail Code	06.01
Defect Code	09
Syst. Cond	B
Causal Part	560748

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