

RCA SERVICE LETTER 2025-06-03

Date: 03 June 2025
Subject: **VP-X and G3X EFIS Backup Battery configuration update**

Affected Aircraft: Production built RCA RV10 aircraft constructed before 2025 with the following serial numbers are affected by this Service Letter.
s/n: 41661; 41662; 41691; 41695; 41710; 41748; 41848; 41931; 42037; 42073; 42363; 42393; 42439; 42453; 42455; 42474.

Required Action: Change the VP-X backup battery circuit naming and Garmin G3X annunciation labels.

Time of Compliance: RCA RV10 Pilots Operating Handbook (Doc: RCA-POH-RV10-GARMIN/VP-X) updates from rev10 onwards incorporated and made reference to these changes – Compliance with this Service Letter to coincide with update of Pilots Operating Handbook to latest revision (currently rev11)

Synopsis:
With the introduction of the Lycoming EIS (Electronic Ignition System) as an optional installation on our RV10 aircraft, it became necessary to revise the VP-X (Vertical Power Electronic Circuit Breaker System) circuit labeling as well as the Garmin G3X on screen annunciation. This was done in order to differentiate between the EFIS and EIS backup batteries. Additionally, the circuit labeling for the backup battery was not consistent across the fleet.

Accomplishing Instructions: PART 1. Vertical Power Circuit Name Update

1. Download and install the VP-X Configurator v1.6.0 from the following link and install on a laptop computer.
https://www.verticalpower.com/media/attachments/2017/07/20/vp-x_configurator_1.6.0_setup.zip
2. Gain access to the VP-X unit located under the instrument panel forward of the Primary Flight Display – ref image 1.

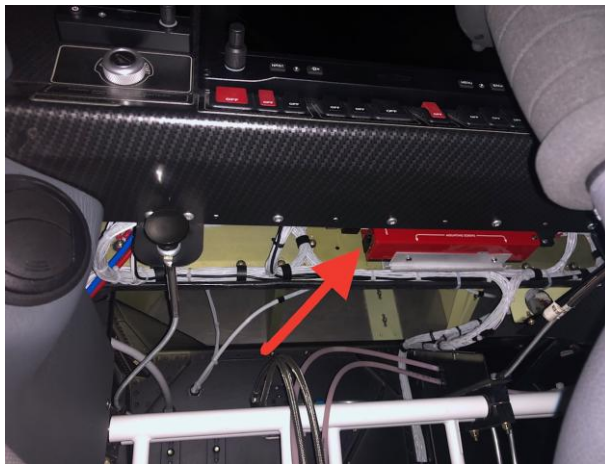


Image 1

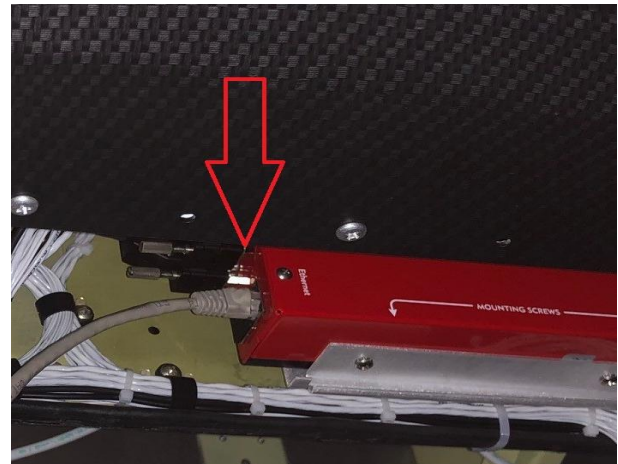
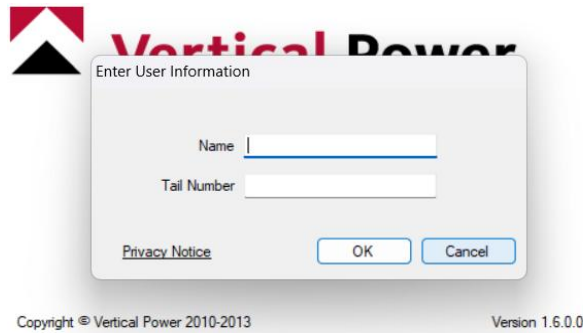


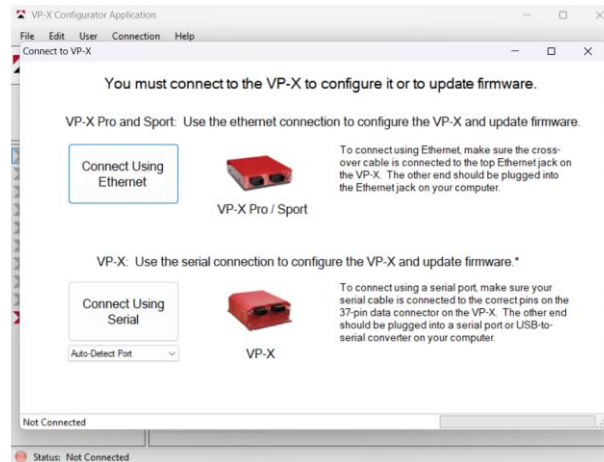
Image 2

3. Attach CAT5 crossover cable supplied with aircraft to the LAN port of the VP-X unit and connect to laptop – ref image 2.
NOTE: A standard computer Cat 5 LAN cable will not work – it must be a crossover cable.
Newer laptops are not fitted with LAN ports and will require a LAN to USB adapter.
4. Switch aircrafts BATTERY MASTER switch ON
5. Start VP-X configurator program on laptop.

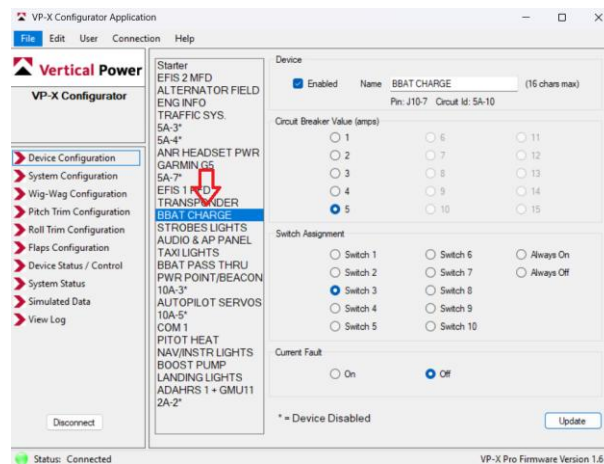
RCA Service Letter	Date Issued	Revision Date	Revision
2025-06-03	3 June 2025	...	...



6. User Information can be left blank – press OK

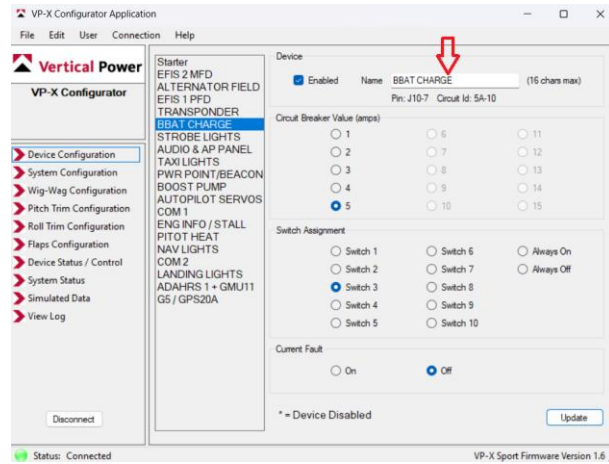


7. Connect using ethernet – NOTE: disable Wi-Fi on laptop before connection.

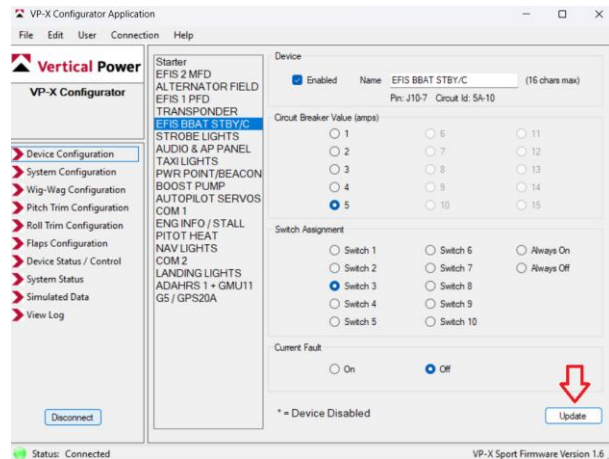


8. In the Device configuration menu, highlight the “BBAT CHARGE”, “BBAT STBY/CHARGE” OR “TCW3/6AH IBBS” circuit depending on how your aircraft was configured.

RCA Service Letter	Date Issued	Revision Date	Revision
2025-06-03	3 June 2025	...	...

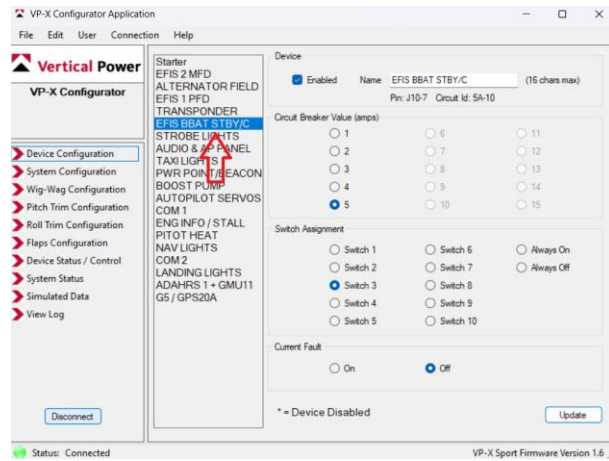


9. In the Name field on the top right of the screen, change the name to “EFIS BBAT STBY/C”

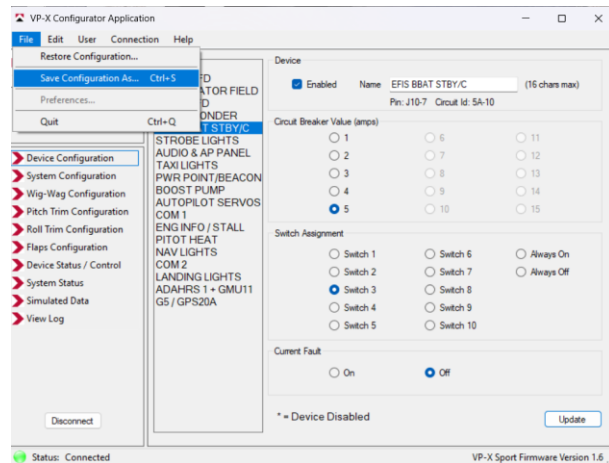


10. Press “Update” in the bottom right corner.

RCA Service Letter	Date Issued	Revision Date	Revision
2025-06-03	3 June 2025	...	...

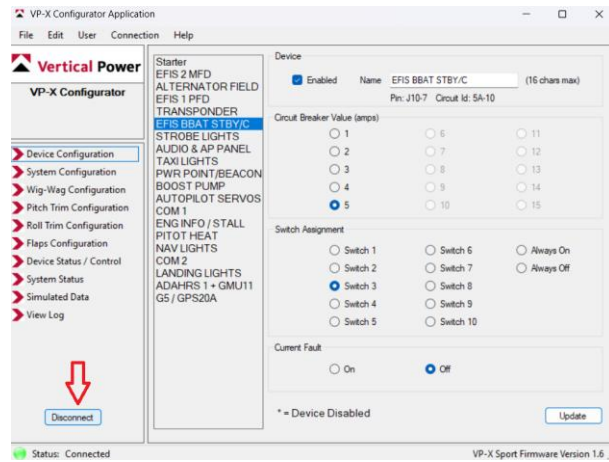


11. Name on the device menu should now say “EFIS BBAT STBY/C”

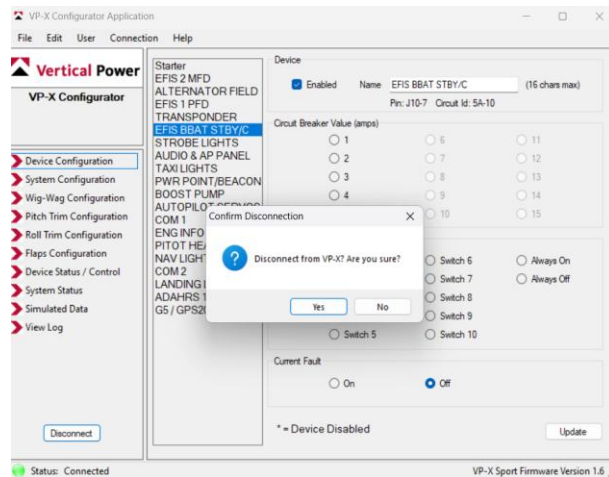


12. Press “File” and then “Save Configuration As” to store a copy of the updated configuration to your computer.

RCA Service Letter	Date Issued	Revision Date	Revision
2025-06-03	3 June 2025	...	...



13. Press “Disconnect” button



14. Press “Yes” to disconnect from the VP-X.
15. Switch aircrafts BATTERY MASTER switch OFF
16. Disconnect the LAN cable from the VP-X and remove from the aircraft.
17. Proceed to Part 2 of “Accomplishing Instructions”

RCA Service Letter	Date Issued	Revision Date	Revision
2025-06-03	3 June 2025	...	...

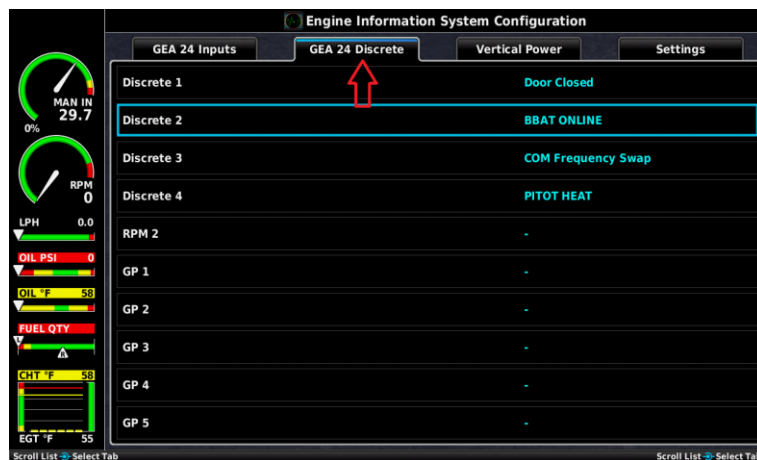
Accomplishing Instructions:

PART 2. Garmin G3X BBAT Annunciator Name Update

1. Press and hold the “Menu” button on the PFD while turning the unit on with the “BBAT switch.”
2. Once the screen has booted up in configuration mode, the “Menu” button can be released.

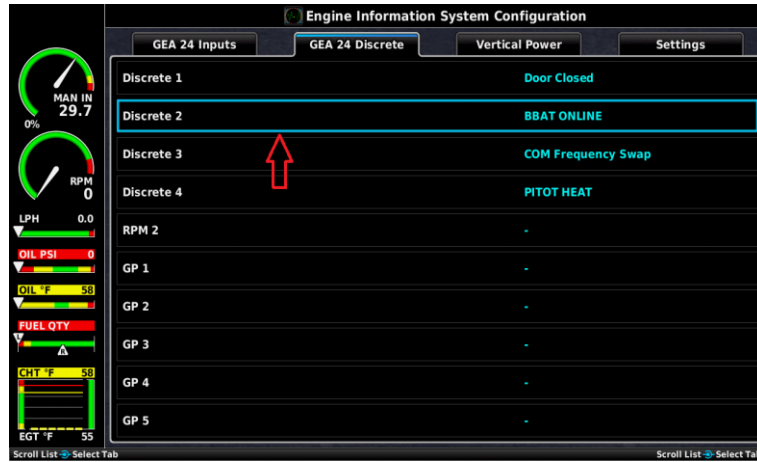


3. From the main configuration page scroll down to the “Engine and Airframe” tile and press to enter.

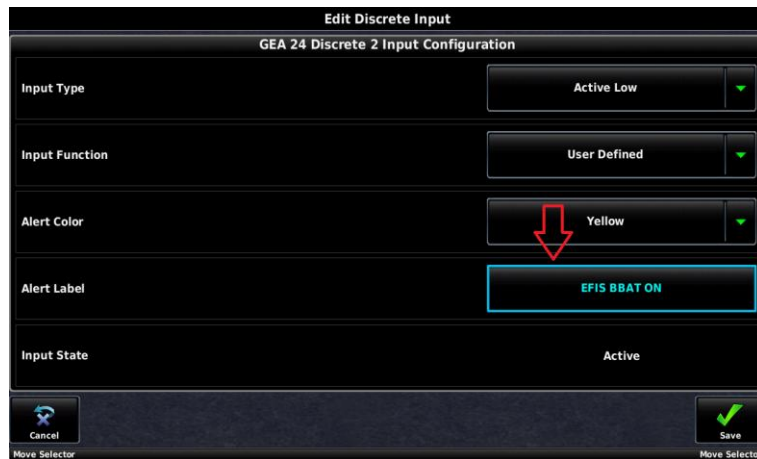


4. In the Engine Information System Configuration touch on GEA24 Discrete

RCA Service Letter	Date Issued	Revision Date	Revision
2025-06-03	3 June 2025	...	...



5. Touch on the “BBAT ONLINE” Discrete

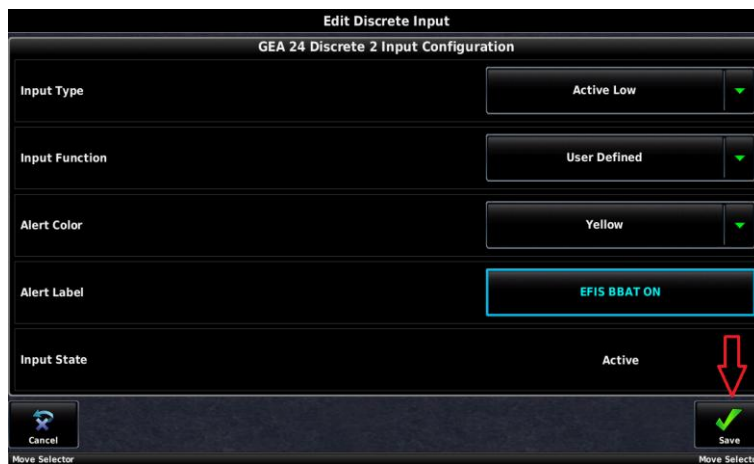


6. Touch on the “Alert Label” box to change the label text.

RCA Service Letter	Date Issued	Revision Date	Revision
2025-06-03	3 June 2025	...	...



7. Change label text to read “EFIS BBAT ON” and press enter.



8. Press “Save”
9. Press the “Back” button on the screen outer bezel.

RCA Service Letter	Date Issued	Revision Date	Revision
2025-06-03	3 June 2025	...	...



10. Press the “Save & Reboot” tile and allow the screen to reboot.



11. With the screen rebooted and operating on the backup battery, check that the “EFIS BBAT ON” yellow annunciator is showing.
12. Switch the BBAT switch OFF.
13. Make an entry in the applicable Airframe logbook noting compliance with this Service Letter.

If you are no longer in possession of this aircraft, please forward the information to the present owner/operator and notify Robin Coss Aviation (Pty) Ltd via email at info@cossaviation.com . Please include the new owners contact information and date the aircraft ownership transferred.

RCA Service Letter	Date Issued	Revision Date	Revision
2025-06-03	3 June 2025	...	...