



Factory Installed Firmware

Factory firmware can be found below and re-installed using the Blackbox Link 2.1 PC program.

Model	Date	File Name	File Description	Firmware & Manual
510R	3/9/2018	B468314	Factory firmware	link
850R	3/9/2018	C468210	Factory firmware	link
NEW 1000Z+ PRO	3/25/19	B468400	Factory firmware	link

These files are compressed files. To download and use zip files, see this link:

<https://www.wikihow.com/Open-a-.Zip-File-Without-Winzip>

Firmware Updates

Firmware updates can be found below and installed using the Blackbox Link 2.1 PC program.

If you want to reinstall 510R and 850R factory firmware, first install PROgrammer2 version **EE450121** under **Firmware Updates** before re-installing. To reinstall 1000Z+ PRO factory firmware, first install PROgrammer2 version **EE460126**

PROgrammer2 #27027				
Model	Date	File Name	File Description	Firmware & Manual
PROgrammer2	3/19/18	EE450121	Adds 510R/850R (with factory firmware) universal programming functionality. Firmware version viewable in Blackbox Link 2.1.	link
PROgrammer2	5/9/18	EE450123	Required for compatibility with 510R firmware version B468316.	link
NEW PROgrammer2	3/25/19	EE460126	Required for 1000Z+ PRO programming. Not compatible with 510 and 850R ESCs.	link

510R ESC #27004				
Model	Date	File Name	File Description	Firmware & Manual
510R	5/9/18	B468316	Adds "Instant" release option to the Turbo "4K Release Rate" menu in Expert mode. Requires installation of PROgrammer2 firmware version EE460123.	link

850R ESC #27007				
Model	Date	File Name	File Description	Firmware & Manual
NEW 850R	3/25/19	C468212	Improved drivability, improved BEC protection, bug fixes. Compatible with PROgrammer2 firmware C468210.	link