



## 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
<a href="#">510R</a>	3/9/2018	B468314	Factory firmware	<a href="#">link</a>
<a href="#">850R</a>	3/9/2018	C468210	Factory firmware	<a href="#">link</a>
1000Z+ PRO	3/25/19	B468400	Factory firmware	coming

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** below 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	<b>EE450121</b>	Adds 510R/850R (with factory firmware) universal programming functionality. Firmware version viewable in Blackbox Link 2.1.	<a href="#">link</a>
PROgrammer2	5/9/18	EE450123	Required for compatibility with 510R firmware version B468316.	<a href="#">link</a>
<b>NEW</b> PROgrammer2	3/25/19	<b>EE460126</b>	Required for 1000Z+ PRO programming. Not compatible with 510 and 850R ESCs.	coming

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.	<a href="#">link</a>

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