Copy files to root directory of microSD card (filesystem FAT32), insert into On-board computer (contacts on top) and run the update process.

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Do not downgrade firmware that was installed by the manufacturer! You may get a brick

Each device has its own firmware and is updated separately from different menus. The order in which the firmware is updated does not matter.

- 1. Description of the On-Board Computer update menu.
- 2. Description of the Controller update menu.
- 3. Description of the uLight controller update menu.

To check the current firmware version, go to the **Device Information** menu, each device has a separate menu.

- 1. Information about the firmware version of the On-Board Computer.
- 2. Information about the firmware version of the Controller.
- 3. Information about the firmware version of the uLight controller.

The list of actual firmware to be downloaded:

v0.59B v0.58B Fixed 0V throttle issue. Fixed charge statistics reset. Added kmh/mph switch. Added more parameters to info. lines on main screen. Added hotkey mode for compatibility with controller speed functions. Fixed contrast setting. Added driving range, calculated from WH usage. A lot of tiny fixes.	v0.7.12 Torque PAS fixes Fixed configuration import for advanced modes Added configuration selector from 1 to 9 Import will show first line of configuration, you can put a comment	18 March 2020 HOTFIX for display speed sensor 11 March 2020
	here Fixed N mode Fixed motor wiggle at charger mode Added more debug information	21 Nov 2019
	v0.7.9 <b>土</b>	HOTFIX, fixed NaN error for analog inputs.

v0.57B CAN buttons setup Inverted inputs setup Statistics reworked Added filters for analog inputs	v0.7.8 Big menu update Control logic completely reworked for future compatibility with BMS New default values for PIDs DC-DC low voltage difference charge fixed Inverted brake input added Specific setup for 3 positional speed switch added (can work now as 1-2-3) Button/switch select for usual speed select input Save CRC calculation fixed New speed mode - neutral Speed increment and decrement added Added t-sensor NTC 10k B:3380 Reboot command added Fixed field weakening over 126% Fixed VBUS measuring, now it is at PWM frequency, significantly improved overvoltage protection Added averaging of N-X ADC samples filter for throttle and brake Fixed brake glitches Current measuring fixes for better measuring on 6F board When enable button configured controller will not turn-on anymore when power applied Autodetect improved, more informative, short-circuit detect added and timeout fixed Added lock-at-turn-on, will lock throttle	20 Nov 2019 Export configuration (or make screenshots), after controller update do "Erase data storage" and reboot. Configuration will not be imported fully, some values will need to enter manually.
	When enable button configured	
	untill password on-screen is entered	
	Voltage on phases detect added, will	
	lock controls	
	UVLO added	
	Added "Advanced modes" menu with	
	more specific options per mode	
	Personal throttle protection lock for	
	CAN source or local	
	Motor temperature limit for charger	
	(DC-DC)	

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