Copy files to root directory of microSD card (filesystem FAT32), insert into display (contacts on top) and run update process.



Do not downgrade firmware that was installed from factory! You may get a brick

To check current version open "Device information" menu.

Every device have own firmware! Display updated in display menu, controller updates through controller menu.

Display Controller Release notes

1/4

v0.60B Fixed throttle drop. Small menu fixes. LEVCAN updated. Button setup simplified, by default all set to CAN mode. Added exFAT support (but display still can be updated only from FAT32). Added charge screen. Added fast statistics type selection. Added wider event window. Mph stats fixed.	v0.7.18 Experimental logger added. Fixed many charger glitches, however still have few. Added soft start to charger and more safe phase detect. Completely reworked field weakening, now should not have any hard braking after release. Added minimum speed reference for speed PID. Added RC PWM control on P1 port (throttle/brake). Added more logger parameters. Few important FOC control fixes, DC current should be calculated better under field weakening. Fixed one weird ultra-rare bug in square mode. LEVCAN operates on queues now, log time 2x faster when display updated. Decreased DCi Ki default from 500 to 200. Slightly decreased FW start point. Added full debug info export. Added logger mode selection and tuned logger start. Removed first line from log for easy datazap upload. Throttle / brake curves added (8 point configuration) with presets. PAS extra scale added for additional modes. Soft acceleration for cruise added, more shutdown triggers. Cruise logic updated - phase current limited by selected mode, not throttle position. Minimum cruise speed - limits cruise activation. Cruise increment/decrement - control cruise speed with buttons (port = CR+/CR-) Cruise restore - recovery last saved cruise speed with button, activated only above min cruise speed. (port =	31 August 2020 Use configuration export before update, reset defaults after update and import configuration.
	Minimum cruise speed - limits cruise activation. Cruise increment/decrement - control cruise speed with buttons (port = CR+/CR-) Cruise restore - recovery last saved cruise speed with button, activated	

v0.59B		18 March 2020 HOTFIX for display speed sensor
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 here Fixed N mode Fixed motor wiggle at charger mode Added more debug information	11 March 2020
	v0.7.9 1	21 Nov 2019 HOTFIX, fixed NaN error for analog inputs.

	v0.7.8 1	
	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	20 Nov 2019
v0.57B 💻	PWM frequency, significantly improved	Export configuration (or make
CAN buttons setup	overvoltage protection	screenshots), after controller
Inverted inputs setup	Added median VBUS filter	update do "Erase data storage" and
Statistics reworked	Added averaging of N-X ADC samples	reboot. Configuration will not be
Added filters for analog	filter for throttle and brake	imported fully, some values will
inputs	Fixed brake glitches	need to enter manually.
	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	
	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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