Dear customer,
you are the proud owner of an outstanding speed controller for brushless electric motors. Before activation of the controller please read carefully these instructions.

Activation:
Apply connectors of the type G3,5 or G4 and solder them properly to the controller cables. It is essential to use new connectors only. We do not recommend the use of any other connector types. Cables between flight batteries and the controller should not exceed a length of 20 cm.
For the connection between controller and motor type G3,5 connectors should be used.

Table of basic regulator characteristics:

Type	Dimensions (mm)	Weight (g)	Continuous current (A)	Batteries/Servos NiCd/NiMh	Batteries/Servos Li-XX
Advance 50 NAVY	65 x 26 x 15	48	50	6/4, 8/4, 10/4, 12/2 6-16/-	2/4, 3/4, 4/2 2-6/-

Operation with BEC circuit (Receiver and servos are supplied by 5V from controller)
Number of cells 6-12 NiXX / 2-4 LiXX

- connect motor with controller
- plug JR connector to the receiver – position motor control channel
- plug 2 wire JR connector to the receiver – position for receiver accus
- check ATV motor control channel – has to be +/- 100% and turn the transmitter on
- connect power accu

Basic setting is mode 1 "Forward – Stop"

- for right arming you will hear one beep – mode 1 Forward – Stop
  two beeps – mode 2 Forward – Stop – Reverse

Operation without BEC circuit – OPTO (Receiver and servos are supplied by 5V from additional 4,8V accumulator)
Number of cells 6-16 NiXX / 2-6 LiXX

- connect motor with controller
- plug JR connector to the receiver – position motor control channel
- 2 wire JR connector is still **free.** Do not connect it to **any** position
- turn the transmitter on
- activation by plugging 4,8V accumulator to the receiver

Adjustment possibilities with the Prog Card:
Reverse OFF – mode 1 operation Forward – Stop
Reverse ON – mode 2 operation Forward – Stop – Reverse

Battery type NiXX – the applied battery is of the NiCd or NiMH type
Battery type LiXX - the applied battery is of the Li-Pol or Li-Ion type

Cut off voltage high – higher level of cut off voltage, 0,9V/cell for NiXX and 3,0V/cell for LiXX
Cut off voltage low – lower level of cut off voltage, 0,7V/cell for NiXX and 2,7V/cell for LiXX

Acceleration soft – slower response to motor throttle stick movement
Acceleration medium – faster response to motor throttle stick movement

Timing low – timing suitable for normal type motors (inrunners with 2,4 and 6 poles)
Timing high – timing suitable for outrunners

Power limit OFF – 100% power in full throttle position

Power limit ON – 50% power in full throttle position

Setting by Prog Card (BEC is active)

- set all 6 jumpers to required position
- plug JR connect to the Prog Card position "controller"
- plug 2 wire JR connector to the Prog Card position "external power for opto"
- connect power accu (motor is connected too)
- you will hear one beep in one second
- disconnect power accus
- plug JR connector to the receiver - motor control channel
- plug 2 wire JR connector to the receiver – position for receiver accus

Setting by Prog Card (BEC is OFF)

- set all 6 jumpers to required position
- plug JR connect to the Prog Card position "controller"
- connect power accu (motor is connected too)
- connect 4,8 receiver accu to the Prog Card position "External power for Opto"
- you will hear one beep in one second
- disconnect power accus
- plug JR connector to the receiver - motor control channel

Setting by Prog Card is permanent up to next resetting. Right arming is confirmed by one beep (Forward – Stop operation) or two beeps (Forward – Stop – Reverse operation).
Forward – Stop operation: throttle stick has to be during arming in neutral or close position
Forward – Stop – Reverse operation: throttle stick has to be in neutral position

This controller has a gradual low voltage motor cut cut-off.
Temperature overload protection is built into the speed controller which turns off the motor when the temperature reaches 110° centigrade. These speed controllers are equipped with protection functions that take care of the correct start and operation of the motor across the whole range of revolutions and current. **Do not connect the speed controller to just 'any' kind of power source**. Take care to ensure the correct polarity of NiCd, NiMH or Li-XX power packs. Your speed controller will be severely damaged if it is connected to a battery using the wrong polarity.

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