



Instruction Manual: Programming Card For The Brodak F2B Hornet ESC #BH-1882



This programming card is designed to be used with the Brodak F2B Hornet ESC. The ESC is produced by HengTuo Innovation and comes pre-programmed to our specifications. The programming card allows the user to change the pre-set programming to their wants. Please read and pay carefully attention to the following instructions before you start to work with your motor and controller.



Warnings:

Please use caution! Model aircraft equipped with high power motor can kill. High power motor systems can be very dangerous. High currents can heat wires and batteries, causing fires and burning skin or anything. Follow the wiring connection carefully! Always fly at the approved field. Never fly over or near spectators. Even though this controller is equipped with a safety arming program, you should still be cautious when connecting the main battery.

Factory Program Settings:

Several features about the ESC are programmable, and the Brodak F2B Hornet ESC comes pre-programmed with the following settings:

Low Voltage Cutoff Type: REDUCE POWER	Motor Rotation: ----- NORMAL
Acceleration: ----- NORMAL	Cut-Off Voltage: ----- 3.2V per cell
Brake:----- 50%	Timing: ----- AUTO
Start Power:----- SOFT	Frequency: ----- 16KHz
PWM Frequency: ----- 16 kHz	Heli Governor Mode:----- ON
Battery Type:----- LI-POLY	Motor Timing Advance: ----- AUTO

The user is invited to revise any programming parameters they wish, but please use caution! In particular:

- If you turn the Governor mode OFF, your ESC & Timer will no longer maintain a constant RPM as the battery wears down. IF you must fly with the governor OFF, you should also switch to the FM-0c Timer (#BH-1869) with the throttle-up feature.
- Resetting the motor timing remains a mystery to us – we can offer no advice. If you wish to explore the options here we recommend first consulting with your motor manufacturer for their recommendations to avoid damaging the motor or ESC.

How to Re-Program Your Controller:

The program settings we recommend are shown in the table above and in the picture below. The easiest and most direct way to change the program settings is to use the Programming Card (BH-1882, pictured below) available from Brodak. The ESC settings are made by moving the jumper plugs on the card to select the appropriate settings. Next step is to plug the ESC connector (Brown/Red/Orange wires oriented as shown) into the card. Finally, hook up the motor battery for a few seconds to 'set' the programming, then disconnect the power.

Plug in connector from ESC here

LOW VOLTAGE CUT-OFF TYPE - *Reduce Power*

ACCELERATION - *Normal*

BRAKE TYPE - *50%*

START POWER - *LIPO*

PWM FREQUENCY - *16 kHz*

BATTERY TYPE - *LIPO*

MOTOR ROTATION - *Normal*

CUT-OFF VOLTAGE (per cell) - *3.2V*

GOVERNOR MODE - *ON*

MOTOR TIMING ADVANCE - *AUTO*