SUPPO Boat ESC B70A/B125A/B200A ESC

Important Note: Some of these ESCs are **without BEC**. You need extra power source for your receiver. You can use a UBEC / voltage regulator, or extra batteries as the power source for your receiver. If you hear the music tone repeat again and again for more than 3 times, you may need to check your power source to the receiver.

 • **Phrases 1 Enter programming Mode**
   1. Connect your motor and receiver to the speed controller, but do not connect the battery yet.
   2. Turn on your transmitter and move the throttle stick to the full throttle position (full up). Please Note: Most Futaba transmitters have the throttle channel reversed by default.
   3. Connect your battery and the controller will initialize with a musical tone.
 • **Phrases 2 Programming**
   After 3 seconds, the motor will start beeping a sequence of tones – a musical tone followed by one or more beeps. Each sequence represents a parameter that you can program and is repeated 3 times. The parameters are:

♪—	Music Tone + 1 Beep	Options 1. Cell Type and No. of Cells
♪— —	Music Tone + 2 Beeps	Options 2. **Acceleration**
♪— — —	Music Tone + 3 Beeps	Options 3. Reverse
♪— — — —	Music Tone + 4 Beeps	Options 4. Timing Mode
♪— — — — —	Music Tone + 5 Beeps	Options 5. PWM setting

Step 1. Starting, Enter Sub-optins. When you hear the sequence for the parameter you wish to program, move the throttle stick to the **Center Position to Enter Sub-options**.
The controller will then **start beeping a Morse code sequence** of short and long beeps representing the possible options you may choose for the selected parameter. See table 2 for a list of all programmable options. Each option sequence is repeated 3 times.

Step 2. Select and save, the select the option, move the **throttle stick** back to **the Full-up-position**., When you hear the sequence for the option you wish to select. The controller will then save the selected option, and **sound a long beep as a confirmation.** It then goes back to the beginning of the programming sequence (phrases 2).

Step 3. Complete and exit programming. Setup all the parameters you need to change. When complete, move the throttle stick to the **Lowest (Down) Position**. The controller will save all options and re-initialize in normal running mode so you can start your motor.

The table below summarizes the various programming options for each parameter:

Option 1.1 Cell Type and Number of Cells ♪—	Only for 50A/70A/ 125A-LV / 200A-LV (LV as 2S-7S)
• — 1 Short + 1 Long	NiMh/NiCD Auto Cell Count - 0.8V/Cell Cutoff Voltage *
• — — 1 Short + 2 Long	7S Li-Po (25.9V) – 21V Cutoff Voltage
• — — — 1 Short + 3 Long	6S Li-Po (22.2V) –18V Cutoff Voltage
• — — — — 1 Short + 4 Long	5S Li-Po (18.5V) – 15V Cutoff Voltage
• — — — — —1 Short + 5 Long	4S Li-Po (14.8V) – 12V Cutoff Voltage
• — — — — — — 1 Short + 6 Long	3S Li-Po (11.1V) – 9V Cutoff Voltage
• — — — — — — — 1 Short + 7 Long	2S Li-Po (7.4V) – 8V Cutoff Voltage

Option 2. Acceleration ♪— —	
•• — 2 Short + 1 Long	Soft
•• — — 2 Short + 2 Long	Medium Acc*
•• — — — 2 Short + 3 Long	Hard Acc

Option 3. Reverse ♪— — —	
••• — 3 Short + 1 Long	No Reverse
••• — — 3 Short + 2 Long	Reverse with 25% power*
••• — — — 3 Short + 3 Long	Reverse with 50% power

Option 4. Timing Mode Setting ♪— — — — —	
•••• — 4 Short + 1 Long	1° - For 2-4 Pole Inrunner Motors *
•••• — —4 Short + 2 Long	7° - For 6-8 Pole Motors
•••• — — — 4 Short + 3 Long	15°- For 10-14 Pole Outrunner Motors
•••• — — — — 4 Short + 4 Long	30° - For 10-14 Pole High-RPM Outrunner Motors

Option . 5 Pulse Width Modulation(PWM) Setting ♪— — — — — —	
••••• — 5 Short + 1 Long 8KHz	– For low RPM and low pole count motors *
••••• — —56 Short + 2 Long 16KHz	– For most out runner motors

 * is Default Setting