

Speed Controller Programming Instructions (20A/30A/40A)

POWERING UP THE ESC FOR THE FIRST TIME AND SETTING THE AUTOMATIC THROTTLE CALIBRATION.

1. Switch your transmitter on and set the throttle stick to its maximum position.
2. Connect the battery pack, receiver and motor to the ESC. Wait for about 2 seconds, the motor will beep for twice, then put the throttle in the minimum position, the motor will also beep, which indicates that your ESC has got the signal range of the throttle from your transmitter.

NOTE: This step is done once to allow the ESC to "learn and memorize" your transmitter's throttle output signals and only repeated if you change your transmitter.

ENTERING THE PROGRAMMING MODE

1. Switch your Transmitter ON and set the throttle to its **maximum** position.
2. Connect the battery pack to the ESC.
3. Wait until you hear two short beeps (●● ●● ●● ●●) confirming that the ESC has now entered the programming mode.
4. If the throttle stick is left in the **maximum** position beyond 5 seconds, the ESC will begin the sequence from one function and its associated setting options to another. (Please refer to the table below to cross reference the functions with the audible tones).
5. When the desired tone for the function and setting option is reached, move the throttle stick down to its **minimum** position. ESC will emit two beeps (**) confirming the new setting has been stored.
6. The ESC only allows the setting of one function at a time.

Therefore if you require making changes to other function, disconnect the battery pack and wait 5 seconds to reconnect the battery and repeat the above steps.

Programming Mode Audible Tones

Programming Mode Audible Tones	ESC Functions
Throttle Calibration	
(within the first 4 Sec) ●● ●● ●● ●●	
1	Brake
* * * *	Brake On /Off
2	Battery type
~ ~ ~ ~	NiCad
~ ~ ~ ~	LiPo
3	Low Voltage Cut-off Threshold
* * * * * * * *	Low (2.8V/50%)
* * * * * * * *	Medium (3.0V/60%)
* * * * * * * *	High (3.2V/65%)
4	Restore Factory Setup Defaults
- - - -	Restore
5	Timing Setup
- - - -	Automatic (7°-30°)
- - - -	Low (7°-22°)
- - - -	High (22°-30°)
6	Soft Acceleration Start Ups
∨∨ ∨∨ ∨∨ ∨∨	Very Soft
∨ ∨ ∨ ∨	Soft Acceleration
∨∨∨ ∨∨∨ ∨∨∨ ∨∨∨	Start Acceleration
7	Governor Mode
* * * *	Rpm off
** ** ** **	Heli first range
*** *** **** ****	Heli second range
8	Motor Rotation
W W W W	Forward/ Reverse
9	Switching Frequency
// // // //	8kHz
// // // //	16kHz
10	Low Voltage Cutoff Type
- - - -	Reduce Power