

Starting the ESC

Please start the ESC in the following sequences :

- ① Move Throttle stick to bottom and switch on Transmitter.
- ② Connect battery to ESC, the ESC begins the self-test process, a special tone "♪123" is emitted, which means the voltage of the battery pack is in normal range, and then "Beep" tones will be emitted, means the number of Lithium battery cells. Finally a long "Beep-----" tone will be emitted, which means self-test is completed, the aircraft / helicopter is now ready.

- If nothing happened, please check the battery pack and all the connections;
- If a special tone "♪56712" is emitted after 2 "Beep" tones (Beep - Beep -), means the ESC has entered program mode, it is because the throttle channel of your transmitter is reversed, please set it correctly;
- If a very rapid "Beep - Beep -, Beep - Beep -" tones is emitted, means the input voltage is too low or too high, please check your battery's voltage.

- ③ **VERY IMPORTANT!**
Because different transmitter has different throttle range, we strongly suggest you use the "Throttle Range Setting function" to calibrate throttle range. Please read instruction on page 4 - "Throttle Range Setting"

Trouble Shooting

Problem	Possible Reason	Solution
After power on, nothing happened	The connection between battery pack and ESC is not correct	Check the power connection Replace the connector
After power on, motor does not work, such an alert tone is emitted : Beep-Beep- , Beep-Beep- , Beep-Beep- (Every "Beep-Beep-" has 1 second of pause)	Input voltage is wrong, too high or too low.	Check voltage of battery pack.
After power on, motor does not work, such an alert tone is emitted : Beep- , Beep- , Beep-, Beep-..... (Every "Beep-" has 2 seconds of pause)	Throttle signal is irregular	Check the receiver and transmitter. Check the cable of throttle channel.
After power on, motor does not work, such an alert tone is emitted : Beep- , Beep- , Beep-, Beep-..... (Every "Beep-" has 0.25 seconds of pause)	Throttle stick is not at the bottom (Zero) position	Move throttle stick back to bottom (Zero). Set throttle range again.
After power on, motor does not work, throttle stick at bottom, a special tone "♪56712" is emitted after 2 "Beep" tone (Beep-Beep-)	Throttle Channel has been reversed, the ESC has entered Program mode	Set the direction of throttle channel correctly.
Motor runs in opposite direction	Connection between ESC and the Motor is wrong	Swap any two wires between ESC and Motor
Motor stop running while in working state	Throttle Signal is lost ESC has entered Low Voltage Protection mode ESC has overheat	Check the receiver and transmitter Check the cable of throttle channel Land RC model as soon as possible, and then replace battery pack Temperature maybe a reason, let the ESC stop working for a while.
Random stop or restart or irregular working state	There is strong Electro - Magnetic Interference in the area	Reset ESC. If the function could not resume, you might need to move to another area to fly

Normal Startup

- ① Move Throttle stick to bottom and switch on Transmitter.
- ② Connect battery pack to ESC, special tone "♪123" means OK.
- ③ Several "Beep-" tones should be emitted, presenting numbers of Lithium battery cells.
- ④ When self-test is finished, a long "Beep-----" tone should be emitted.
- ⑤ Ready to fly now.

Throttle Range Setting

- ① Move Throttle stick to top and switch on Transmitter.
- ② Connect battery pack to ESC and wait 2 seconds.
- ③ "Beep-Beep-" tone should be emitted, means throttle range highest point has been set.
- ④ Move throttle stick back to bottom, several "Beep-" tones should be emitted, presenting numbers of Lithium battery cells.
- ⑤ A long "Beep-----" tone should be emitted, means throttle lowest point has been set.
- ⑥ Ready to fly now.

Programming the ESC (For Storm 40A only)

Step 1 - Enter Program mode

- ① Move Throttle stick to Top and switch on Transmitter, connect ESC battery pack.
- ② Wait 2 seconds, "Beep-Beep-" should be emitted.
- ③ Wait another 5 seconds, special tone "♪56712" should be emitted, you have entered Program mode.

Step 2 - Select programmable item

After entering program mode, you will hear 8 tones in a loop in the following sequence. If you move the throttle stick to bottom within 3 seconds after one kind of tones, this item will be selected.

① "Beep"	Brake
② "Beep-Beep-"	Battery type
③ "Beep-Beep-Beep-"	Cutoff mode
④ "Beep-Beep-Beep-Beep-"	Cutoff threshold
⑤ "Beep-----"	Startup mode
⑥ "Beep----Beep-"	Timing
⑦ "Beep----Beep-Beep-"	Reset to default
⑧ "Beep----Beep----"	Exit

Step 3 - Set Item Value

You will hear several tones in loop. Set the value matching to a tone by moving throttle stick to top when you hear the tone, then a special tone "♪1515" emits, means the value is set and saved. (Keep the throttle stick at top will go back to Step 2 and you can select other items; Moving the stick to bottom within 2 seconds will exit Program mode directly)

	1 "Beep"	2 "Beep"	3 "Beep"
Brake	Off	On	-
Batt. type	Li-ion / Li-Po	NiMH / NiCd	-
Cutoff mode	Soft-Cut	Cutoff	-
Cutoff threshold	Low	Medium	High
Start mode	Normal	Soft	Super Soft
Timing	Low	Medium	High

Step 4 - Exit Program mode

There are 2 ways to exit Program mode :

- ① In Step 3, after special tone "♪1515", please move throttle stick to the bottom position within 2 seconds.
- ② In Step 2, after tone "Beep----Beep----" (item #8), move throttle stick to bottom within 3 seconds.