40A ESC

SONIC MODELL ®

01 Specifications

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Con. Current (Good heat dissipation)	Burst Current (Good heat dissipation)	BEC	LiPo	Weight (For reference)	Size (For reference)
40A	50A	5V / 3A	2-4S	51g	65x26x15.5mm

02 Operation instructions

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1.Normal start-up

Turn on the transmitter, move the throttle stick to the bottom position.

➡ Connect ESC with battery, wait for 2 seconds,motor emits short "BEEP-" few times, sound times is Lipo battery cells.

➡ Wait for 1 second, It means "No Brake" when motor emit continuously 1 long and 1 short tone. It means "Brake is available" when motor emits a long tone. ESC is ready for working now.

➡ ESC is ready for working now

2.Throttle Range calibration

Turn on the transmitter, move the throttle stick to the top position.

➡ Connect ESC with battery. Wait for 2 seconds, after motor emits 2 short "BEEP-BEEP",the full throttle position is memorized.

➡ Move the throttle stick to the bottom position in 3 seconds. Then waits for 1 second, the"zero throttle" position is memorized. Motor emits short "BEEP-" few times, sound times is Lipo battery cells.

➡ Wait for 1 second, It means "No Brake" when motor emit continuously 1 long and 1 short tone. It means "Brake is available" when motor emits a long tone. ESC is ready for working now.

3.Programming

Turn on the transmitter, move the throttle stick to the top position.

➡ Connect ESC with battery. Wait for 2seconds, motor emits 2 short "BEEP-BEEP". Then still wait for 5 seconds. motor emits special tone "♪12321",it has entered programming mode.

Select Items

After entering programming mode, you will hear groups tone which emits in a loop as following sequence .

	♪12321		
1	Brake	1short	Beep-
2	Battery type	2short	Beep-Beep-
3	Cutoff voltage	3short	Beep-Beep-Beep-
4	Timing	4short	Beep-Beep-Beep-Beep-
5	Startup mode	1long	Beeeep--
6	PWM frequency	1long&1short	Beeeep--Beep
7	Voltage cutoff option	1long&2short	Beeeep--Beep-Beep
8	Battery cells	1long&3short	Beeeep--Beep-Beep--Beep
9	Restore factory defaule	1long&4short	Beeeep--Beep-Beep--Beep-Beep
10	Exit	2long	Beeeep--Beeeep--

Note: Usually,1 long tone "Beeeep--" equals to 5 short tone"beep-", for example:1 long tone"Beeep--" and 1 short tone "beep-" equals to 6.

➡ When motor emits "Exit" tone, move throttle to the zero position in 3 seconds, then motor emits special tone "♪765765", it will exit the programming mode.

Item parameter ⬇

After motor emits a Item tone ,move the throttle to the zero throttle position, then will enters this item, and motor will emits the parameter tone in a loop . please see the table below)

Move throttle stick to the top position after a certain tone that the parameter you want, the parameter is selected, then motor emits special tone "♪1212", this parameter will be stored. Just wait If you still want select other item, it will go back to the Level 1 menu to select item, the operate method is the same.

Prompt tone / Iterm	1	2	3	4	5	6	7	8
	1short	2short	3short	4short	1long	1long& 1short	1long& 2short	1long& 3short
1.Brake	NO	Soft	Heavy	Very Heavy				
2.Battery type	Lipo	NiCb/NiMh						
3.Cutoff voltage	2.8V	3.0V	3.2V					
4.Timing	0°	3.75°	7.5°	11.25°	15°	18.75°	22.5°	26.25°
5.Startup mode	Normal	Soft	Very Soft					
6.PWM frequency	12KHz	8KHz						
7.Voltage cutoff option	Reduce cutoff	Cut off						
8.Battery cells	Auto	2S	3S	4S				

*Shadow parts are factory default value

➡ If don't want select other parameter, move throttle to the zero position in 3 seconds, then motor emits special tone "♪765765", it will exit the programming mode.