NANO TALON EVO

User Guide

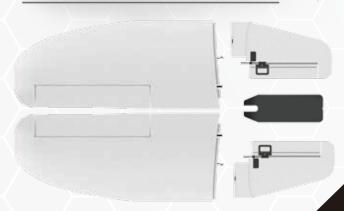
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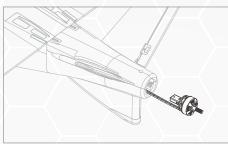


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Customer service: cs@sonicmodell.com
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1. Insert the motor mount with motor into the fuselage



3. After running the main spar through the fuselage, attach the main wings



5. Install the middle hatch



7. Lock the battery hatch twisting the peg



2. Fix the motor mount with the provided screw



4. Install both fins for the V-tail. Be sure the screws that hold the plastic part of the hinge are looking up



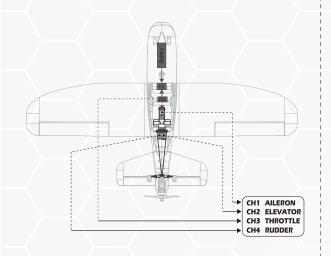
6. Install the battery hatch

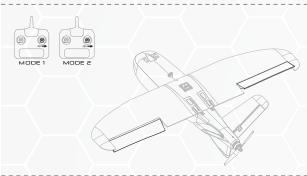


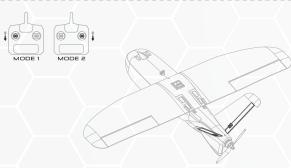
8. Install the bottom hatch

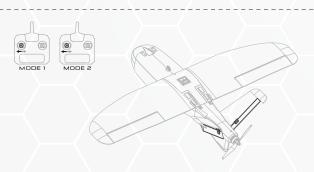








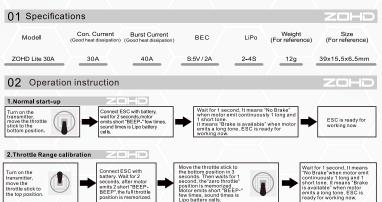








Lite series



3.Programming



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

	J12321						
1	Brake	1short	Beep-				
2	Battery type	2short	Beep-Beep-				
3	Cutoff voltage	3short	Beep-Beep-Beep-	Note: Usually,1 long tone "Beeeep," equals to			
4	Timing	4short	Beep-Beep-Beep-				
5	Startup mode	1long	Beeeep-	5 short tone beep-",			
6	PWM frequency	1long&1short	BeeeepBeep	for example:1 long tone"Beeep" and 1			
7	Voltage cutoff option	1long&2short	BeeeepBeep-Beep	short tone "beep-"			
8	Battery cells	1long&3short	BeeeepBeep-Beep	equals to 6.			
9	Restore factory defaule	1long&4short	BeeeepBeep-Beep-Beep				
10	Exit	2long	BeeeepBeeeep	7/			

•



Item parameter

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

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	1	2	3	4	5	6	7	8
Iterm	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			\prec		
6.PWM frequency	12KHz	8KHz						
7.Voltage cutoff option	Reduce cutoff	Cut off						
8.Battery cells	Auto	2S	38	48				

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

When motor emits "Exit" tone, move throttle to the

rero position in 3 seconds, then moto

emits special tone



03 Programming parameter

ZOHD

1.Brake: [1]NO(default) [2]Soft [3]Heavy [4]Very heavy

2. Battery type: [1] LiPo(default) [2] NiCb/NiMh

3. Cutoff voltage: Low-voltage protection threshold, [1] Low [2) Medium (default) [3]High, For Ni-xx battery packs: Low/Medium/High cut off voltage is 50%/65%/75% of the battery packs initial voltage, For LiPo battery: can count battery cells automatic. Low voltage protection threshold: Low (2.8V) /Medium (3.0V) /High(3.2V). Eg:For 4S/14.8V Lipo battery packs, low voltage protection threshold is 11.2V low/12.0V medium /12.8V high

4. Timing:

[1]0" [2]3.75" [3]7.5" [4]11.25" [5]15 (default) [6]18.75 [7]22.5" [8]26.25 Low (013.759/ 11.259/15 / 18.759) —for most inner rotor motors hail(22.5/26.25) —For 6 poles or higher poles outer rotor motors as usual 15 applies to all the outer rotor motors, but for improving efficiency recommend that set low timing for 2 poles motor(most inner rotor motors), set high timing for 6 poles and high poles motors (most outer rotor motors). If need high speed motor, you can set high timing. Some motors should set special timing, if not sure, you'd better to set timing as motor manufacturer recommended ,or set 150.Note: After changing timing, please test on the ground before flying

5. Startup Mode: Start up with linear acceleration

[1] Normal: No latency from 0% throttle to 100% throttle. (default)

[2] Soft: It takes 6 seconds from 0% throttle to 100% throttle.

[3] Very soft: It takes 12 seconds from 0% throttle to 100% throttle.

6. PWM frequency: [1]12KHz (default) [2]8KHz

For high poles and high speed motors, the higher PWM frequency can make motor drive smoothly, but the higher PWM frequency will make ESC hotter.

7. Voltage cutoff option:

[1] Reduce cutoff(default): the voltage drops to the set low-voltage protection threshold. ESC will reduce the power then cut offthe motor output

[2] Cut off: the voltage drops to the set low-voltage protection threshold, ESC will cut off the motor output immediately.

8.Battery cells: Available for Lipo battery only.

[1] Automatic judgment(default) [2]2S [3]3S [4]4S

You also can select the options according to your battery cells.

9. Restore default settings

When the beeping indicates the mode of "Restore default settings", move the throttle stick to zero position in 5 seconds after thes beeping can activate the mode. There is no sub-menu under this mode, the motor makes indication tones of "12321" which means default settings are restored. At this time if moving the throttle stick to top position.ESC will enter programming mode again, if keeping the hrottle stick to bottom position.ESC will enter the first programming Item(Brake).

10.Exit program mode

After a sound "Beep-", move throttle stick to the bottom position, enters the item of exit program mode, motor emits sound "765765" the same time, itrepresents ESC enters normal operation mode.