

BRUSHLESS ELECTRONIC SPEED CONTROLLER INSTRUCTION (H50A)

Thank you for using DYS Brushless ESC, please read this instruction before use

A. PRODUCT DESCRIPTION

- Digital electronic design, all adopt import accessories
- Extreme low output resistance, super current endurance, totally meet electric current specs
- BEC adopt volts regulation independantly, best anti-jamming, lower lost control possibility effectively.
- Adopt independent PCB to control circuit and power output, prevent circuit to be controlled from power tube temperature going up, there is 2mm space between circuit control and power output, which is good to heat dissipation.
- Possess temperature protect circuit function.
- Possess over-volts, lower volts protection function.
- Possess delicate touch feeling, superior speed linear.
- Possess throttle memery function, no warning.

B. Normal start

- Put throttle rocker to the bottom position, switch on transmitter, you will hear Beep, beep, beep---means it's normal start.

C. Program Setting

- Put throttle rocker to the top position, switch on transmitter, then ESC emit tone---which means program mode is entered.
- Select programmable items (3 times every tone)
 - + B for battery
 - + B B for throttle start
 - + B B B for throttle setting
 - + B B B B for motor to low-volt output mode.
 - + B B B B B timing tone
 - + B B B B B B Pulse width modulation settings
- when you need to set up certern items, put the rocker to middle to set sub-item
- please be caureful to her sub-item tone (3 times every tone)
- When you assure the sub-item function, put the rocker to top, then hear Beep-sound----normal sound, that's OK
- Go back to main menu, reset items as you want.

NOTE :

Attention to throttle mode setting! Please view OPTION 2. (2 options there) when choose 1.1ms to 1.8ms, put start throttle to 15% will get a warning tone to prevent danger operation.

NOTE :

Reverse setting: OPTION 4. (2 options there) Be sure to choose right reverse and power off fuctions.

NOTE :

When throttle at the bottom for about 3s, motor emit BB tone+BBB tone, telling that start function working again.

NOTE :

When throttle signal fail, will turn off output signal automatically with a tone:

BBBBBBBBB+tone, telling user.

Option 1.1 (2S-7S)-ESC Cell Type and Number of Cells	Only for H50A (2-6s Lipo)
• — 1 Short + 1 Long	NiMh/NiCD Auto Cell Count - 0.8V/Cell Cutoff Voltage
• — — 1 Short + 2 Long	6S Li-Po (22.2V) -18V Cutoff Voltage
• — — — 1 Short + 3 Long	5S Li-Po (18.5V) -15V Cutoff Voltage
• — — — — 1 Short + 4 Long	4S Li-Po (14.8V) -12V Cutoff Voltage
• — — — — — 1 Short + 5 Long	3S Li-Po (11.1V) -9V Cutoff Voltage
• — — — — — — 1 Short + 6 Long	2S Li-Po (7.4V) -8V Cutoff Voltage
• — — — — — — — 1 Short + 7 Long	

Option 2. Throttle Setting	
•• — 2 Short + 1 Long	Auto Throttle Range *
•• — — 2 Short + 2 Long	1.1ms to 1.8ms
•• — — — 2 Short + 3 Long	Hard Acc
•• — — — — 2 Short + 4 Long	Soft Acc

Option 3. Throttle Type	
••• — 3 Short + 1 Long	Normal *
••• — — 3 Short + 2 Long	Governor Mode with 2-4 poles motors
••• — — — 3 Short + 3 Long	Governor Mode with 6-10 poles motors
••• — — — — 3 Short + 4 Long	Governor Mode with 12-14 poles motors

Option 4. Direction and Cutoff Type	
•••• — 4 Short + 1 Long	Clockwise Rotation *
•••• — — 4 Short + 2 Long	Counterclockwise Rotation
•••• — — — 4 Short + 3 Long	Soft Cutoff
•••• — — — — 4 Short + 4 Long	Hard Cutoff *

Option 5. Timing Mode Setting	
••••• — 5 Short + 1 Long	1° - For 2-4 Pole Inrunner Motors *
••••• — — 5 Short + 2 Long	7° - For 6-8 Pole Motors
••••• — — — 5 Short + 3 Long	15° - For 10-14 Pole Outrunner Motors
••••• — — — — 5 Short + 4 Long	30° - For 10-14 Pole High-RPM Outrunner Motors

Option 6. Pulse Width Modulation(PWM) Setting	
•••••• — 6 Short + 1 Long 8KHz	- For low RPM and low pole count motors *
•••••• — — 6 Short + 2 Long 16KHz	- For most out runner motors

ATTENTION

[Http://www.dys.hk](http://www.dys.hk)