H30A/H40A Brushless Electric Speed Controller Instruction Manual

1，Switch on the transmitter, move throttle stick to the highest position. (Futaba series radios need to set throttle channel to REV)

2，Connect receiver, motor.

3，Switch on the power to receiver.

You should hear the following:

Beep——Beep:

Denotes non constant-speed mode (standard mode)

Beep Beep——Beep Beep:

Denotes low exchange constant-speed mode, for 2-8 poles motors.

Beep Beep Beep—— Beep Beep Beep

Denotes medium exchange constant-speed mode, for 6-8 poles motors.

Beep Beep Beep Beep ——Beep Beep Beep Beep:

Denotes high exchange constant-speed mode, for 10-14 poles motors.

Note: Helicopter version speed controllers do not have break function!

If the option is you need, then move the throttle stick swiftly to the DOWN position (full close), you will hear a confirmation beep from the motor.

(If you want to set the ESC to non constant-speed mode/standard mode, when you hear one Beep, swiftly move the throttle stick to DOWN position)

Once you complete the settings, wait for 2 seconds, the motor will set up the cut-off voltage automatically and notify you by emitting according beep(s) the current setting. You can start us the speed controller once confirm the throttle position.

Meaning of sound when start the ESC:

Beep Beep Beep (3 short beeps): non constant-speed mode (standard mode)

Buzz: low exchange constant-speed mode

Buzz Buzz: medium exchange constant-speed mode

Buzz Buzz Buzz: high exchange constant-speed mode

Cut-off setting only have two options, 6v and 9V, it is not necessary that the battery must be fully charged.

Helicopter version speed controller will reduce power out-put by 30% when the cut-off voltage is achieved instead of fully cut-off, to give you some time to land down for safety flight.

Features of constant-speed function and hints:

1. Constant-speed function must use in conjunction with programmable transmitters, and adjust the curve of throttle-pitch.

The motor will start when the throttle is higher than 10% of full throttle, and the constant-speed function will active after throttle higher than 20%, the motor will speed up to the speed / RPM which suit the helicopter best, you can control the out-put by adjusting the pitch of main blades.

Power out-put will cut-off when the throttle is lower than 10% of full throttle.

2. You must know the poles of your brushless motor, and set the ESC to correct option according to the motor poles you use.

3. Recommended pitch-throttle curve settings.

Throttle Position	Pitch degree		
	Normal flight	3D flight	Inverse flight switch
0%	0°	0°	0°
20%	0°	0°	0°
50%	2°	3°	-3°
100%	5°	9°	-9°

Warning: The speed of main blades is around 2550RPM when the pitch at 9° in constant-speed mode, which is extremely high, you must observe the structure intensity of the helicopter, and only use quality main blades.