

Pro-BOX Instruction Manual for Helicopter Speed Controllers

Function Item	Parameters	Function/Parameters Note
Heli Mode	Normal /Constant	Constant mode is for helicopters use only
Motor Pole No.	2-4 , 6-10 , 12-14	Set pole numbers in terms of different motors, enable speed controller operate and control speed (only for helicopter)
*Timing	*2 , 8 , 15 , 30(°) set by transmitter	Set correct timing mode according to the type of motor: 2 poles: 0~7 (°) 4 poles: 5~15 (°) 8 poles: 10~20 (°) 10 poles (and above): set to 20 (°) above
	* 0 , 1 , 2....30(°) by Prog-BOX	
*FREQUENCY	*8,16,32 (Khz)	Set correct PWM according to the type of motor: 8Khz: common setting, lowest efficiency loss 16Khz: suite for low resistance motors 32Khz: suit for low inductance motors
*ACCELERATION	*SOFT / MEDIUM / HARD	Acceleration modes by controlling throttle delay
*Accumulator type	Nicd /NiMh /lo (Li-ion) /po (Li-poly)	* Select battery types
* Nicd /NiMh (V)	*0.4,0.5,.....1.0 (V) per cell	* Set cut-off voltage per cell for Ni-Mh/Ni-Cd batteries
Lo /po (V)	*Auto	* Auto detect only work under 2-3 cells
	2, 3 cells Li-ion /Li-Po 4,5,6...10 cells Ni-Mh/Ni-Cd	Set cell number by Prog-BOX Set cell number by Prog-BOX
*Lo /Po Per cell (V)	*2.0,2.1.....3.2(V) per cell	* Set cut-off voltage per cell, recommend no lower than 3.0 (V)
*CUT OFF SLOW DOWN	*Slow Down / Hard	*Set the mode of cut-off, lower throttle or cut-off immediately
INITIAL POINT END POINT	Auto Fixed:1.0 , 1.1... 1.5(mS) Auto Fixed: 1.7 , 1.8... 2.0(mS)	Auto detect throttle initial point (stop point) Manually set initial point (stop point) Auto detect throttle end point Manually set throttle end poin
*Throttle Curve	*LOGARITHMICAL *LINEAR *EXPONENTIAL	* Set throttle response curve, linear by default
ROTATION RIGHT/LIFT	clockwise or counter-clockwise	Motor reverse
*Timing Monitor	*on	* Timing Monitor for brushless motors with no Sensor
	*off	

- Connect the motor to speed controller
- For OPT0 series speed controllers, you need 4.8-6V battery pack for the Prog-box
- Connect JR plug to the correspondence position
- Switch on speed controller power, select speed controller type
- Follow the information displayed on the LED, and press Up\Down\Left\Right buttons to select the function you want to set.
- You will hear a 'Beep' when an option is set successfully.
- Once complete all the settings, switch off the power, and disconnect the JR plug.