



### Instructions

Function Item	Parameters	Function/Parameters Note
Reverse	On/Off	Select forward only or forward/backward
Timing	2,8,15,30(° ) set by transmitter	Set correct timing mode according to the type of motor
	0.1,2...30(° ) By Prog-BOX <b>For Mini Cat 280 motors, Set at 3 degrees</b>	2 poles: 0-7 (° ) 4 poles: 5-15 (° ) 8 poles: 10-20 (° ) 10 poles (and above): set to 20 (° ) above
FREQUENCY ※	8,16,32 (Khz)	Set correct PWM according to the type of motor.
	<b>For Mini Cat 280 motors, Set at 16Khz</b>	8Khz: common setting, lowest efficiency loss
		16Khz: suit 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 (Li-ion)/po (Li-poly) (V)	Auto *	Auto detect only work under 2-3 cells
	2,3,4,5 cell Li-lo /Li-Po	Set cell number by Prog- BOX
Lo/Po Li-ion cutting- off voltage per cell	2.0,2.1.....3.2(V)	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
ABS *	On/Off <b>Set OFF</b>	Set ABS on or off
Power Limit (forward)	Off 75%. 50%, 25% <b>Set OFF</b>	General output limit
Power Limit (backward)	Off 75%. 50%, 25%	General output limit
Delay reverse delay	0.25, 0.5, 0.75, 1, 1.5, 2.5 (seconds)	Delay duration before reverse
Forward Point Throttle ( forward) Highest point	Auto detect Fixed: 1.7, 1.8 ...2.0 (mS)	
Reverse/Brake point Throttle (backward) lowest point	Auto detect Fixed: 1.0,1.0...1.3(mS)	
Timing Monitor	On	Startup timing monitor, used for sensorless motors
	off	

- Connect the motor to the speed controller (ESC)
- For OPTO series speed controllers, (mini cat hop up ESC) be sure a separate 4.8v - 6.0v battery or UBEC is attached to the receiver or directly to the Program Box.
- Connect the throttle cable from ESC to the Program Box.
- Plug in the power battery to the ESC.
- Follow the information displayed on the LCD. Press Up/Down/Left/Right to find the function you want.
- You will hear a “beep” when an option is set succssfully.
- When you have completed all the settings, switch off the power and disconnect the throttle cable from the Program box. Connect the throttle cable to the receiver.

**Remark: items marked with ※ are only for boats, items marked with \* are for cars only.**