

Program Box Instruction Manual for Car & Boat Speed Controller

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: 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 (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/Li-poly cutting-off voltage per cell (V)	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
Throttle Curve	LOGARITHMICAL LINEAR EXPONENTIAL	Set throttle response curve, linear by default
ABS *	On /Off	Set ABS on or off
Power Limit (forward)	off, 75% , 50% , 25%	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 , 1.1...1.3 (mS)	
Timing Monitor	on	Startup timing monitor, used for sensorless motors
	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.

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

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