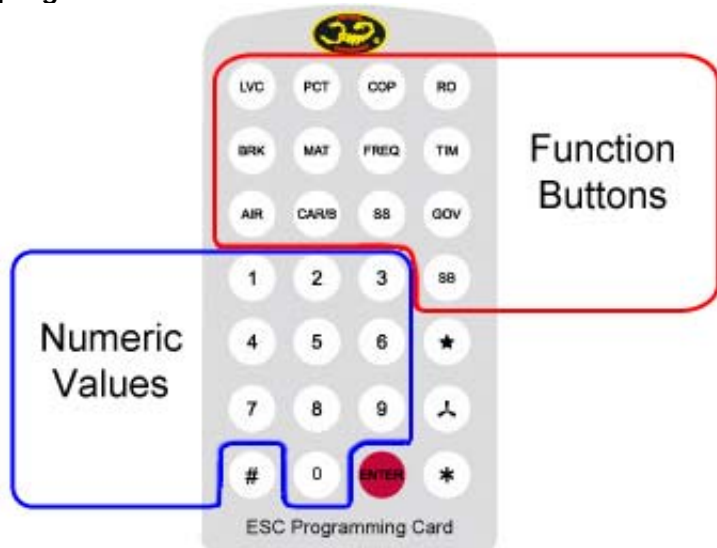


6.0 Using the Programming Card

All parameters of the esc can be changed via the program card.



To program any function on the card you must follow the following procedure:

- 6.1 Press a function button
- 6.2 enter a numeric value
- 6.3 Enter to complete

Example Low Voltage Cut to enter 9.5V Press "LVC" Press "0" Press "9" Press "5" then "ENTER" If successful a DI DOO sound will come from the motor and the LED will Flash RED. An invalid option will not get any confirmation sound from the motor and the LED will not flash

⚠ Please note that there is a time limit from when you press a function button the numeric values and enter if you go over this time limit no sound of ESC flashes will come from the esc

Function Button	Numeric Value	What it does
Example from Above	095	Sets Low Voltage Cut to 9.5Volts
LVC (Low Voltage Cut)	050-250	Low Voltage Cut 050 (5V) to 250(25V) in .5V increments. *6V
BRK (Brake Setting)	1* 2 3 4 5	* No brake Very soft brake Soft Brake Hard Brake Very Hard Brake
AIR	1*	Activate Airplane mode
PCT Program Cut Type (LVC type)	1* 2 3	Cut 50% of maximum power No Cut just LED warning Pulse warning
MAT Motor Acceleration Time Delay	1* 2 3 4 5	0.15 second 0.3sec 0.45sec 0.7sec 1.3 sec
CAR/B Car/Boat mode	1 2	No reverse With reverse (brake preset)
COP Current Overload Protection	1* 2	Protection on Protection off (this option will void warranty)
FREQ Drive Frequency	1* 2	8khz (recommended for most Brushless motors)

	3	18khz (for use with low inductance motors) 32khz (for use with VERY low inductance motors)
SS Soft Start	1 2	Soft start with out governor for use when plugged into throttle channel 12 second delay to 50% of set speed. Soft start with governor mode (see GOV function) Requires use of a spare channel other then the throttle channel
RO Motor Rotation direction	1* 2	Clockwise Counter clock wise
TIM Motor Timing	1* 2 3 4 5 6	Auto Timing 5° 15° 20° 25° 30°
GOV Governor	50 60 70 80 90	50%RPM 60%RPM 70%RPM 80%RPM 90%RPM
SB Motor Start Booster	1 2*	ON OFF
ENTER		Enter value send signal to ESC
OTHER		All other keys are reserved for future programming options

*Factory Default

7.0 Lights and Sounds

Your ESC will emit different lights and sounds according to the function it is applying below is a table of the following conditions:

No Signal from receiver at startup	LED light will flash orange with constant 2 warning tone. If Using program card, the LED will flash red and emit 3 beep tones then you will enter setup mode
Loss of signal during operation	LED will flash red with a 2 beep warning tone
Over temperature during power up (>60°C)	LED will be constant red with 2 beep warning tone. To restart, disconnect power source, wait for cool down then re-connect.
Over heat during operation (>85 °C)	Power reduced to half throttle , red LED will flash. To reset throttle must be put into idle position
Power on low voltage warning	LED will flash red quickly with beep warning tone when voltage is low than the preset cut-off voltage.
Low voltage cut warning	When voltage is lower than preset cut off voltage, red LED will flash rapidly red.
Over Amp Protection	Is only activated at over 50% throttle during over-amp protection, LED will flash red rapidly
Governor Limit Warning	If governor reaches 100% throttle, orange LED light turn on.
Soft start indication	Orange LED light will turn off automatically when soft start has been deactivated.

