

MANUAL OF LED PROGRAM CARD V3.0

Using program card



Program Card can display and modify the parameter item by the 4 digits LED and 4 buttons. When every parameter setting is done, push “write” key, all parameters can be saved into ESC automatically. The two of all parameters can be set quantitatively.

1. Low Voltage Protection Threshold: user can set proper voltage threshold according to cell quantity in range of 00.0-49.9V.

2. Start power: can be set in range of 00% - 29%. User can use different start power according to the different condition.

Especially be suitable for ESC for Car and high-voltage ESC for Plane.

The keys function

KEY	➡	⬇	↻	WR
FUNCTION	To move the cursor horizontally. To modify the value which is more than one digit.	Two functions: 1. To browse every parameter. 2. To modify option or value of the parameter when entering this parameter item. The value is from 0 to 9 in loop.	Two functions: 1. When display a parameter item, press the key to enter this parameter item. Then the parameter value is flashing, user can modify the value. 2. Modifying is done, press the key to confirm the parameter value and exit.	Setting is done, press “WR” key to save setting parameter to ESC.

Program procedure

1. Connect the PPM wire of ESC to program card properly.
2. Connect the battery to ESC, program card will display “READ”, the program card can automatically detect the ESC is used for Car or for Plane and read parameters from the ESC.
3. Display the version of the ESC. If it is the ESC for Plane and will display “P x.x”; if it is the ESC for Car and will display “C x.x”, then display the first item after one second.
4. Press ⬇ key to browse parameter items.
5. Press ↻ key to enter the item which needs to modify. After entering the item, the parameter value is flashing.
6. Press ⬇ key to modify value (if the parameter value is more than one digit, press ➡ key to shift to different digits.)
7. Press ↻ key to confirm the modified value and exit.
8. Press WR key to save the setting parameter to the ESC, and “good” will be displayed.

Configurable parameter with program card

When connecting Program Card and ESC, the program card can automatically detect the ESC is used for Car or for Plane and read parameters from ESC:

- **Configurable Parameter of ESC for Plane**

Manual of LED Program Card

Item	Specification	Option or Value	Default
1.Cut Off Voltage	Low Voltage Protection Threshold	00.0V – 49.9V	00.0V
2.StartPower Percent	Start Power Percent	00% – 29%	00%(automatic)
3.Advance Timing	Timing Mode	(1)Low; (2)Mid; (3)High; (4)Highest	Mid
4.Brake Type	Brake Mode	(1)Off; (2)Soft; (3)Hard	Off
5.Start Mode	Start Mode	(1)Fast; (2)Soft; (3)Very Soft	Fast
6.Cut Off Type	Low Voltage Protection Mode	(1)Reduce Power; (2)Cut Off	Reduce Power
7.Throttle Curve	Throttle Curve	(1)Curve1; (2)Curve2; (3)Curve3	Curve1
8.Motor Rotation	Motor Rotation	(1) Forward; (2) Reverse	Forward

● Configurable Parameter of ESC for Car

Item	Specification	Option or Value	Default
1.Cut Off Voltage	Low Voltage Protection Threshold	00.0V – 49.9V	00.0V
2.StartPower Percent	Start Power Percent	00% – 29%	00%(automatic)
3.Advance Timing	Timing Mode	(1)Low; (2)Mid; (3)High; (4)Highest	Mid
4.Run Mode	Run Mode	(1)One; (2)Two; (3) Two2	Two2
5.Brake Force	Maximum Brake Force	(1)50%; (2)75%; (3)100%	100%
6.Drag Brake Force	Drag Brake Force	(1)0%; (2)5%; (3)10% (4)15%; (5)20%	0%
7.Neutral Range	The Neutral Range of Throttle	(1)6%; (2)8%; (3)10%	8%
8.Initial Brake Force	Initial Brake Force	(1)5%; (2)10%; (3)20%; (4)30%	5%
9.Reverse Force	Reverse Force	(1)25%; (2)50%(3)75%; (4)100%	25%