

ARROWIND LED PROGRAM CARD - USER INSTRUCTIONS

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Using the Program card

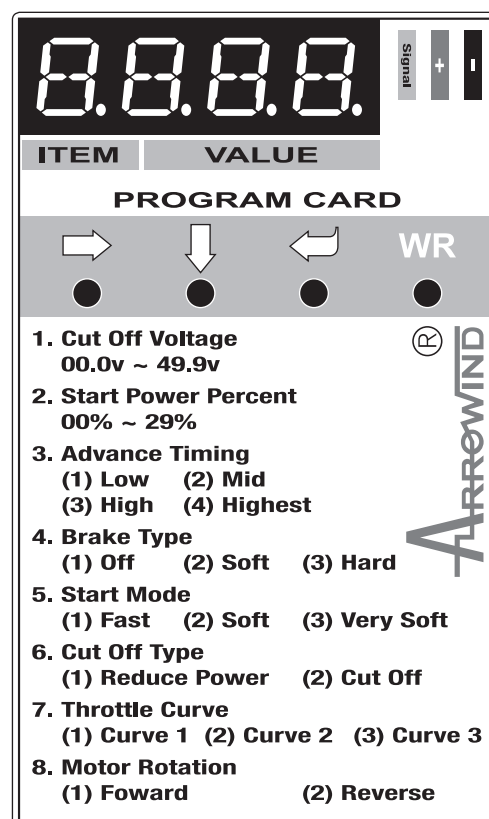
This Program Card can display and modify the item parameters using the 4 digit LED display and 4 buttons. When every parameter setting is completed, push the "WR" key and all parameters will be saved to the ESC automatically.

Two of the parameters can be set with actual values as follows.

1. Low Voltage Protection Threshold: You can set the exact voltage threshold appropriate to the cell quantity/type within a range of 00.0-49.9V. The default is 00.0v and represents the automatic setting for Li-Po of 2.85v per cell. To use Nicad, NiMh, Li-Ion or Li-Fe batteries, you must program the voltage exactly. The same applies for a different Li-Po voltage.

Suggested voltages per cell; 1) Li-Fe = 2.6v 2) Li-Ion = 2.8v 3) Nicad/NiMh = 0.9v. Note: All cutoff voltages should be raised if the actual discharge rate is low relative to the ESC rating. The ESC voltage sensing is more precise at higher discharge rates.

2. Start Power Position: This can be set within a range of 00% - 29%. You can use different startup power positions as required. Especially suited to high-voltage ESC uses in aircraft.



The Key Functions

KEY	➡	⬇	⬅	WR
FUNCTION	To move the cursor horizontally and modify the value to more than one digit.	Two functions: 1. To browse each parameter. 2. To modify the option or value of the parameter when entering this parameters item. The value is from 0 to 9 in a loop.	Two functions: 1. When displaying a parameter item, press the key to enter this parameter item. When the parameter value is flashing, you can modify the value. 2. When modifying is done, press the key to confirm the parameter value and exit.	When all settings are finished, press the "WR" key to save setting parameters to the ESC.

Program Procedure

1. Connect the PPM wire of the ESC to the program card. Make sure the wire colours correspond to the card connections.
2. Connect the battery to the ESC and the program card will display "READ". The program card can automatically detect the ESC and read parameters from the ESC.
3. It will then display the type of ESC. If it is an aircraft ESC it will display "P x.x"; if it is a Car ESC it will display "C x.x". After more one second it will then display the first item.
4. Press the ⬇ key to browse parameter items.
5. Press the ⬅ key to enter the item which needs to be modified. After entering the item, the parameter value will flash.
6. Press the ⬇ key to modify the value (if the parameter value is more than one digit, press the ➡ key to shift to different digits.)
7. Press the ⬅ key to confirm the modified value and exit.
8. Press the **WR** key to save the setting parameters to the ESC, and "GOOD" will be displayed. All values changed will be overwritten.

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Configurable Parameter using the Program Card

ITEM	Specification	Option or Value	Default
1. Cut Off Voltage	Low Voltage Protection Threshold	00.0V ~ 49.9V	00.0V
2. Start Power Percent	Start Power Position Percentage	00% ~ 29%	00% (automatic)
3. Advance Timing	Timing Mode	(1)Low ; (2)Mid ; (3)High ; (4)Highest	Mid
4. Brake Type	Brake Type	(1)Off ; (2)Soft ; (3)Hard	Off
5. Start Mode	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

Please Note: If you have any problem with Arrowind products, please contact your local dealer or distributor as soon as possible.



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