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› SUNGOOYUE ESC LED Program Card Instruction Manual for Rocket V2 ESC

## SUNGOOYUE LED Program Card

# SUNGOOYUE ESC LED Program Card Instruction Manual

Model: LED Program Card (Compatible with Rocket V2 ESC 45A, 60A, 80A, 120A, 150A)



## 1. PRODUCT OVERVIEW

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The SUNGOOYUE ESC LED Program Card is a compact and lightweight device designed for programming brushless Electronic Speed Controllers (ESCs). It provides an intuitive interface for adjusting various parameters of compatible ESCs, ensuring optimal performance and protection for your RC vehicle's power system. This card is specifically designed for use with Rocket V2 ESCs ranging from 45A to 150A.

S + -

Connect ESC



ITEM

VALUE

## PROGRAM CARD

ITEM

VALUE

OK

RESET

- |   |   |
|---|---|
| <p>1. <b>Low Voltage Cut-off:</b><br/>3.1V Slow 2.9V Slow<br/>2.7V Slow Disable<br/>3.4V Slow 3.1V Stop<br/>2.9V Stop 2.7V Stop<br/>3.4V Stop</p> | <p>6. <b>Motor Overheat Protection:</b><br/>120°C Stop 135°C Stop<br/>150°C Stop 120°C Slow<br/>135°C Slow 150°C Slow<br/>Disable</p> |
| <p>2. <b>Start Mode (Punch):</b><br/>Level 3 Level 1 Level 6<br/>Level 2 Level 4 Level 5</p>  | <p>7. <b>ESC Overheat Protection:</b><br/>105°C Stop 95°C Stop<br/>105°C Slow 95°C Slow<br/>Disable</p>                               |
| <p>3. <b>Max. Brake Force:</b><br/>50% 25% 75% 100%<br/>Disable</p>   | <p>8. <b>Running Mode:</b><br/>Fwd/Rev/Br Fwd/Br Fwd/Rev<br/>(Fwd=Forward, Brk=Brake,<br/>Rev=Reverse)</p>                            |
| <p>4. <b>Max. Reverse Force:</b><br/>25% 50% 75% 100%</p>   | <p>9. <b>Drag Brake Force:</b><br/>0% 5% 10% 20% 30%</p>  |
| <p>5. <b>Neutral range:</b><br/>9%(narrow) 6%(Normal)<br/>12%(Wide)</p>   |   |

## 2. TECHNICAL SPECIFICATIONS

- **Material:** Plastic + Electronic Components
- **Color:** Black
- **Length:** Approximately 70mm (2.8in)
- **Width:** Approximately 43mm (1.7in)
- **Height:** Approximately 13mm (0.5in)
- **Weight:** Approximately 35g (1.2oz)
- **Compatibility:** Rocket V2 ESC 45A, 60A, 80A, 120A, 150A Brushless Waterproof ESCs



Image: The program card shown with its approximate length, width, and height measurements.

## 3. INITIAL SETUP

To begin programming your ESC, follow these simple steps:

1. Ensure your ESC is powered off and disconnected from the motor and battery.
2. Locate the programming port on your compatible ESC.
3. Connect the SUNGOOYUE ESC LED Program Card directly into the programming port of the ESC. The card will

draw power from the ESC.

4. Once connected, the LED display on the program card will illuminate, indicating it is ready for use.



Image: The LED Program Card connected to a compatible Electronic Speed Controller (ESC).

## 4. OPERATING INSTRUCTIONS: PROGRAMMING PARAMETERS

The program card features an 'ITEM' button to cycle through parameters, a 'VALUE' button to change the setting for the selected parameter, an 'OK' button to confirm, and a 'RESET' button to restore default settings. The LED display shows the current 'ITEM' number and its corresponding 'VALUE'.

- ✓ **Insert the ESC directly into the programming card, and then select the desired program.**
- ✓ **The low voltage cut off can prevent the lithium battery pack from over discharging.**
- ✓ **Easy to program and compatible with pocket-sized program cards.**



Image: A close-up view of the program card, highlighting the 'ITEM', 'VALUE', 'OK', and 'RESET' buttons, along with the digital display.

### Programmable Parameters:

Item No.	Parameter	Available Values
1	Low Voltage Cut-off	3.1V Slow, 2.9V Slow, 2.7V Slow, Disable, 3.4V Slow, 3.1V Stop, 2.9V Stop, 2.7V Stop, 3.4V Stop

Item No.	Parameter	Available Values
2	Start Mode (Punch)	Level 1, Level 2, Level 3, Level 4, Level 5, Level 6
3	Max. Brake Force	50%, 25%, 75%, 100%, Disable
4	Max. Reverse Force	25%, 50%, 75%, 100%
5	Neutral range	9% (narrow), 6% (Normal), 12% (Wide)
6	Motor Overheat Protection	120°C Stop, 135°C Stop, 150°C Stop, 120°C Slow, 135°C Slow, 150°C Slow, Disable
7	ESC Overheat Protection	105°C Stop, 95°C Stop, 105°C Slow, 95°C Slow, Disable
8	Running Mode	Fwd/Rev/Br (Forward/Reverse/Brake), Fwd/Br (Forward/Brake), Fwd/Rev (Forward/Reverse)
9	Drag Brake Force	0%, 5%, 10%, 20%, 30%

To adjust a parameter:

1. Press the 'ITEM' button repeatedly until the desired parameter number is displayed.
2. Press the 'VALUE' button to cycle through the available settings for that parameter.
3. Once the desired value is displayed, press the 'OK' button to save the setting.
4. Repeat for all parameters you wish to adjust.
5. To reset all parameters to their factory defaults, press the 'RESET' button.

## 5. CARE AND MAINTENANCE

To ensure the longevity and proper functioning of your LED Program Card, please observe the following:

- Keep the card dry and away from moisture.
- Avoid exposing the card to extreme temperatures or direct sunlight for extended periods.
- Clean the card with a soft, dry cloth. Do not use harsh chemicals or solvents.
- Store the card in a safe place to prevent physical damage.

## 6. TROUBLESHOOTING GUIDE

If you encounter issues with your program card, consider the following:

- **Card does not power on:** Ensure the ESC is properly connected and powered. Check the connection cable for any damage.
- **Parameters not changing:** Verify that the 'OK' button is pressed after selecting a value to save the setting. Ensure the card is firmly connected to the ESC.
- **Incorrect parameter values:** Double-check the selected values against your desired settings. If issues persist, try performing a 'RESET' to factory defaults and re-program.

## 7. WARRANTY AND CUSTOMER SUPPORT

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This product is manufactured with high-quality materials and undergoes strict quality control. For any questions, technical assistance, or warranty claims, please refer to the retailer's return policy or contact SUNGOOYUE customer support through their official channels. Please retain your proof of purchase for warranty purposes.

