

Thanks for purchasing our Electronic Speed Controller (ESC). High power system for RC model can be very dangerous, so we strongly suggest you read this manual carefully. In that we have no control over the correct use, installation, application, or maintenance of our products, no liability shall be assumed nor accepted for any damages, losses or costs resulting from the use of the product. Any claims arising from the operating, failure or malfunctioning etc. will be denied. We assume no liability for personal injury, property damage or consequential damages resulting from our product or our workmanship. As far as is legally permitted, the obligation to compensation is limited to the invoice amount of the affected product.

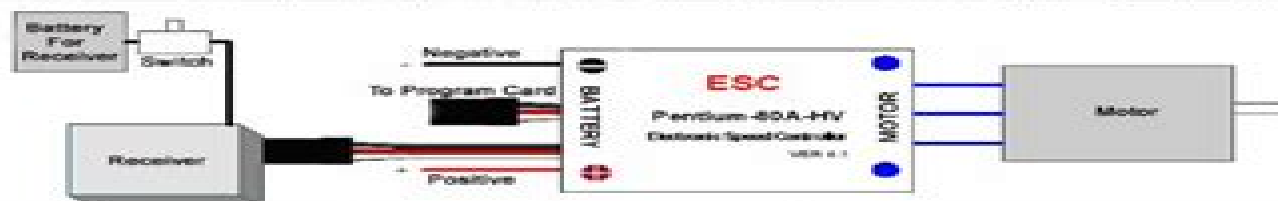
【Features】

1. Use extreme low resistance PCB to make the whole ESC with super current endurance capability.
2. Military standard capacitors with extreme low resistance increase the ability for preventing unwanted RF Noise/ Interference.
3. Protection features: Low-voltage cutoff protection / over-heat protection / throttle signal lost protection.
4. 3 start modes: Normal / Soft / Super-Soft, compatible with fixed-wing aircraft and helicopter models.
5. Throttle range can be configured, fully compatible with all market available transmitters.
6. Smooth and accurate speed control, excellent throttle linearity.
7. Maximum speed: 210000 RPM (2 poles motor), 70000 RPM (6 poles motor), 35000 RPM (12 poles motor).
8. Pocket- sized program card can be purchased separately for extremely easy programming of the ESC at the field.

【Specification】

Class	Model	Cont. Current	Burst Current (>10s)	BEC Mode	BEC Output	Battery Cell		User Programmable	Weight	Size L*W*H
						Li-Po	NiMH/NiCd			
80A	Pentium-80-HV	80A	100A	N/A	N/A	5-10	15-30	Available	125g	78*55*18
100A	Pentium-100-HV	100A	120A	N/A	N/A	5-12	15-36	Available	112g	78*55*15

【Wiring Diagram】



Note: There are 2 control wires on the HV controller. The longer one is close to the positive battery wire, which is connected with the receiver, and the shorter one is close to the negative battery wire, which can be connected with the program card to set the programmable parameters of the controller.

【Feature Explanation】

1. **Brake:** Brake Enabled / Brake Disabled, default is Brake Disabled.
2. **Battery Type:** LI-xx(Li-Ion or Li-po) / Ni-xx(NiMH or NiCd), default is LI-xx.
3. **Low Voltage Protection Mode(Cutoff Mode):** Soft Cutoff (Gradually reduces the output power) or Hard Cutoff (Immediately stops the output power), default is Soft Cutoff.
4. **Low Voltage Protection Threshold(Cutoff Threshold):** Low / Medium / High, default is Medium.
 - For LI-xx battery, the number of battery cells are calculated automatically. low / medium / high cutoff voltage for each cell are: 2.6V/2.85V/3.1V. For example: 10 cells Lipo, when medium cutoff voltage is set, the cutoff voltage is: $2.85 \times 10 = 28.5V$.
 - For Ni-xx battery, low / medium / high cutoff voltages are 0%/45%/60% of the startup voltage (i.e. the initial voltage of battery pack). 0% means the low voltage protection function is disabled. For example: 20 cells NiMH battery, fully charged voltage is $1.44 \times 20 = 28.8V$, when "Medium" value is set, the cutoff voltage is: $28.8 \times 45\% = 12.96V$.
5. **Start Mode:** Normal / Soft / Super-soft, default is Normal startup. Normal is suitable for fixed-wing aircraft. Soft and Super-soft are suitable for helicopters. The initial speed of Soft and Super-soft mode is very slow, it will take 3 seconds (Soft startup) or 6 seconds (Super-soft startup) from startup to full speed. But if the motor is running, then the throttle is closed (throttle stick is moved to bottom) and opened again (throttle stick is moved upwards) within 3 seconds, the restart will be temporarily changed to normal mode to get rid of the chances of crash caused by slow throttle response in aerobatic fly.
6. **Timing:** Low / Medium / High, default is Low. In normal cases, Low or Medium timing can be suitable for most motors. In order to get higher speed, try the High timing value.

Note: After you changing the timing setting, please test your RC model on ground firstly!

【Begin To Use The New ESC】

Before using your new ESC, please check all the connections to make sure that they are reliable, and then start up the ESC in the following sequence:

1. Move the throttle stick to bottom, and then switch on the transmitter.
2. Connect the receiver battery pack (4-6V) to the receiver, and then connect the main power battery pack to ESC, the ESC begins the self-test process, and the motor will emit several "beep" tones to represent the number of lithium battery cells. After 2 seconds a long "beep——" tone will be emitted, which means the self-test is OK, and now the RC model is ready to go flying.
 - If nothing is happened, please check your battery packs and all the connections;
 - If a special tone "2*4*12" is emitted after 2 beep tones (beep-beep-), means the ESC has entered the program mode, i.e. the throttle channel of your transmitter is reversed, please set it correctly on the transmitter;
 - If a very rapid "beep-beep-, beep-beep-" tone is emitted (The time interval of each "beep-beep-" tone is 1 second), means the input voltage is too low or too high, please check your battery's voltage.

Manual Of Sensorless Brushless Motor Speed Controller

Ying-Ying Zheng



Manual Of Sensorless Brushless Motor Speed Controller:

IC Master ,2001 *Designing Electrical Machines with COMSOL* Ovidiu CRAIU,2024-02-29 This book presents the author's experience in modeling electrical machines using numerical Finite Element Method (MEF) models. Each of the studies presented in the book has specific and added complexity. Some of the FEM models were coupled with electric circuit equations; steady state analysis was completed with transient dynamic studies and on occasions mechanical equations were coupled to field circuit formulations. For each of the applications presented, the author provides some insight regarding the more complex parts of the model implementation in COMSOL, what type of solver to use and how to process and interpret the obtained results. Providing some screen shots from COMSOL model implementation may assist the user in developing their own similar applications.

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Table of Contents Manual Of Sensorless Brushless Motor Speed Controller

1. Understanding the eBook Manual Of Sensorless Brushless Motor Speed Controller
 - The Rise of Digital Reading Manual Of Sensorless Brushless Motor Speed Controller
 - Advantages of eBooks Over Traditional Books
2. Identifying Manual Of Sensorless Brushless Motor Speed Controller
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Manual Of Sensorless Brushless Motor Speed Controller
 - User-Friendly Interface
4. Exploring eBook Recommendations from Manual Of Sensorless Brushless Motor Speed Controller
 - Personalized Recommendations
 - Manual Of Sensorless Brushless Motor Speed Controller User Reviews and Ratings
 - Manual Of Sensorless Brushless Motor Speed Controller and Bestseller Lists

5. Accessing Manual Of Sensorless Brushless Motor Speed Controller Free and Paid eBooks
 - Manual Of Sensorless Brushless Motor Speed Controller Public Domain eBooks
 - Manual Of Sensorless Brushless Motor Speed Controller eBook Subscription Services
 - Manual Of Sensorless Brushless Motor Speed Controller Budget-Friendly Options
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 - ePub, PDF, MOBI, and More
 - Manual Of Sensorless Brushless Motor Speed Controller Compatibility with Devices
 - Manual Of Sensorless Brushless Motor Speed Controller Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Manual Of Sensorless Brushless Motor Speed Controller
 - Highlighting and Note-Taking Manual Of Sensorless Brushless Motor Speed Controller
 - Interactive Elements Manual Of Sensorless Brushless Motor Speed Controller
8. Staying Engaged with Manual Of Sensorless Brushless Motor Speed Controller
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Manual Of Sensorless Brushless Motor Speed Controller
9. Balancing eBooks and Physical Books Manual Of Sensorless Brushless Motor Speed Controller
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Manual Of Sensorless Brushless Motor Speed Controller
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Manual Of Sensorless Brushless Motor Speed Controller
 - Setting Reading Goals Manual Of Sensorless Brushless Motor Speed Controller
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Manual Of Sensorless Brushless Motor Speed Controller
 - Fact-Checking eBook Content of Manual Of Sensorless Brushless Motor Speed Controller
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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