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› [REELY](#) /

› Reely Brushed Car Speed Controller Instruction Manual

REELY RE-6751242

Reely Brushed Car Speed Controller Instruction Manual

Model: RE-6751242

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Reely Brushed Car Speed Controller. Designed for model cars, this controller offers reliable performance with a maximum load capacity of 60 A and a motor limit of 20 turns. Please read this manual thoroughly before use to ensure proper function and safety.

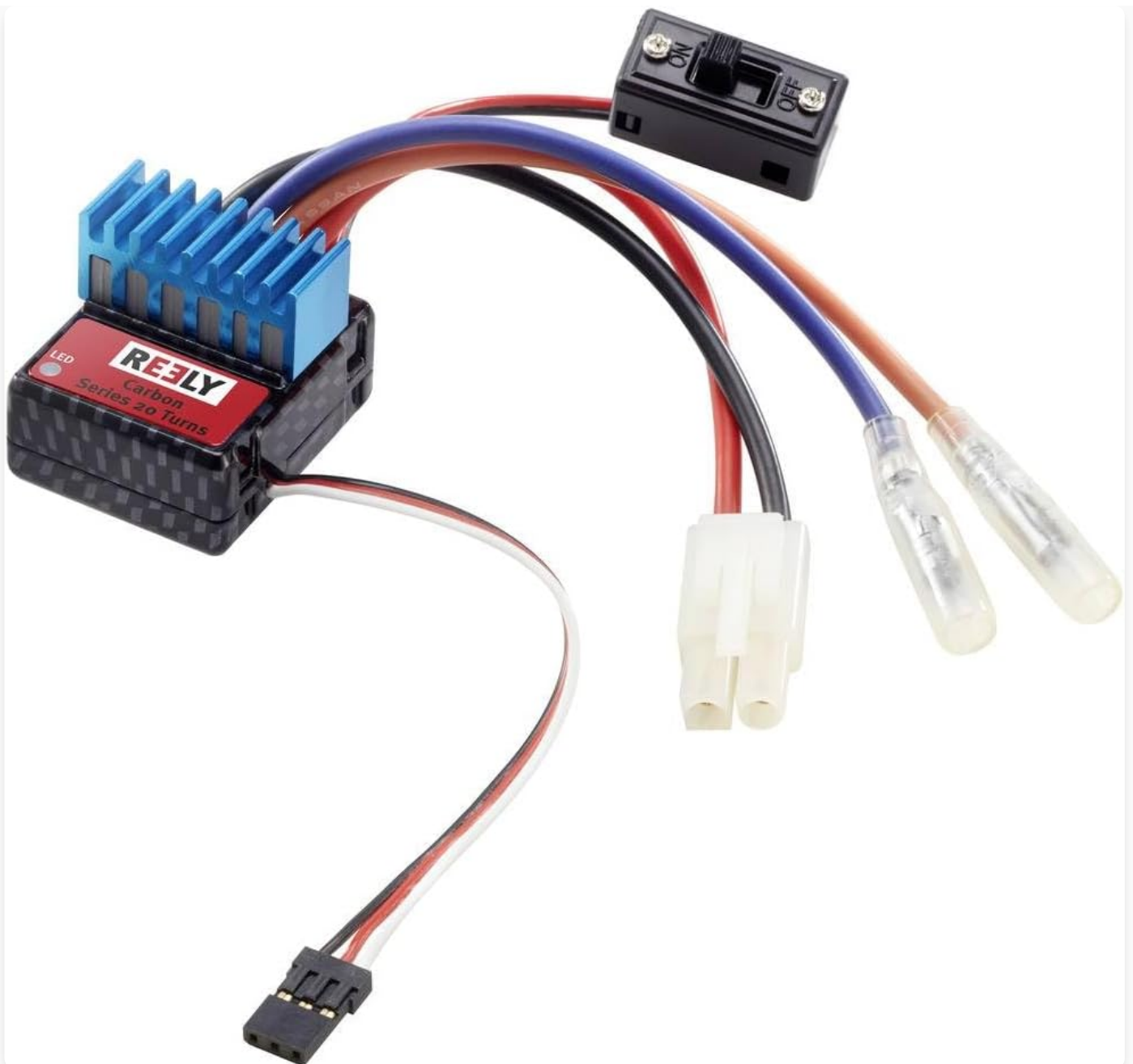


Figure 1: Reely Brushed Car Speed Controller (ESC)

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the product and your model:

- Ensure all connections are correct and secure before powering on the device. Incorrect polarity can cause severe damage.
- Do not exceed the specified voltage and current limits.
- Keep the speed controller away from water, moisture, and extreme temperatures.
- Avoid short circuits. Insulate all exposed wires and connectors.
- Always disconnect the battery when the model is not in use or during maintenance.
- This product is not a toy. Keep out of reach of children.
- Seek professional assistance if you are unsure about any installation or operation steps.

3. PRODUCT FEATURES

The Reely Brushed Car Speed Controller is equipped with the following key features:

- High clock rate: 1.0 kHz for smooth motor control.
- Robust load capacity: 60 A (1s), 50 A (30s), 35 A (5 min).
- Continuous current: 35 A.
- Compact dimensions: 35 mm (Length) x 29 mm (Width) x 27 mm (Height).
- Motor limit: Supports motors up to 20 turns.
- Lightweight design: Approximately 48.5 g.
- Standard JR/Futaba connector system for wide compatibility.
- Wide operating voltage range: 7.2 V to 8 V.

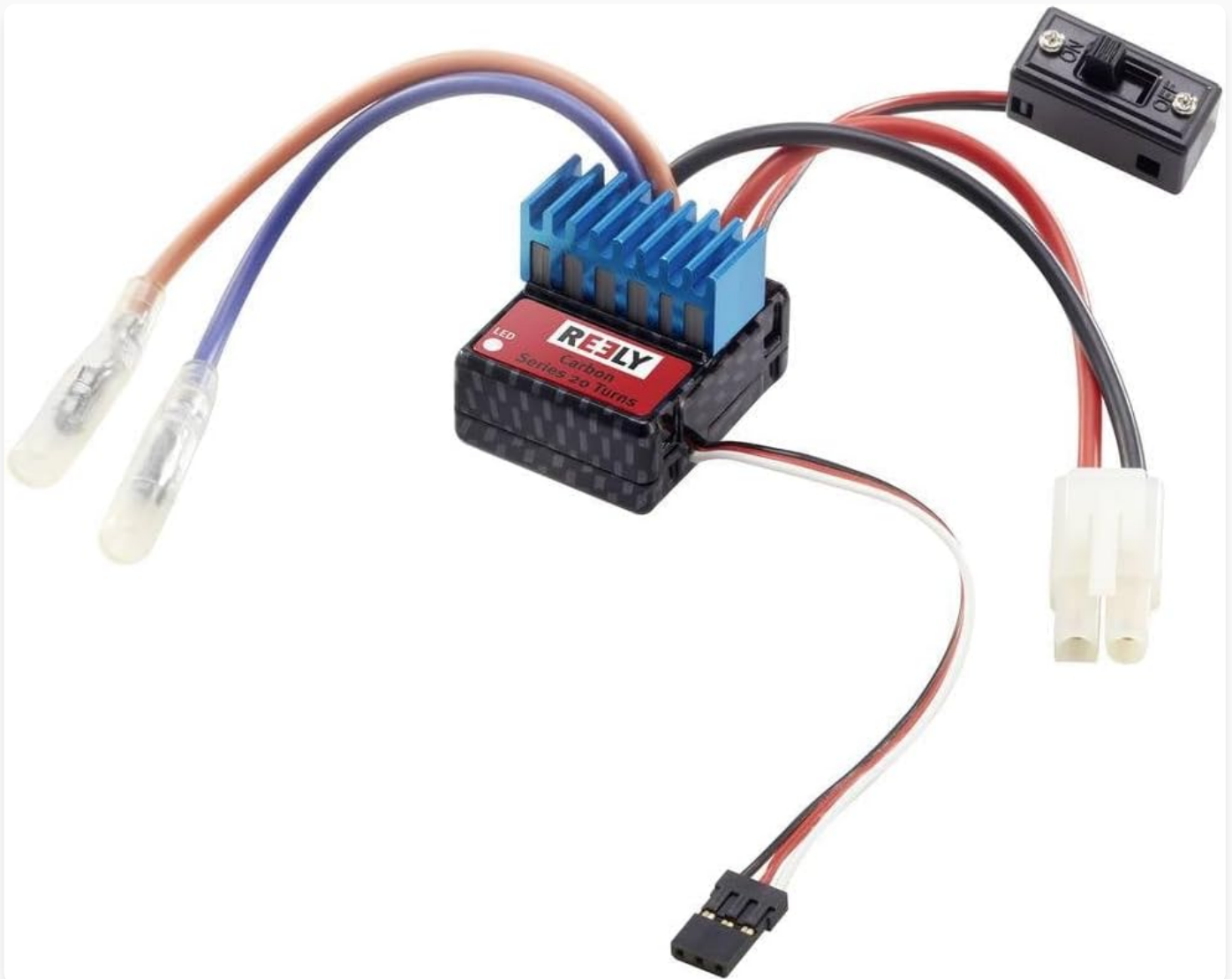


Figure 2: Alternative view of the Speed Controller

4. PACKAGE CONTENTS

The package includes:

- 1 x Reely Brushed Car Speed Controller (Model RE-6751242)

5. SETUP

Follow these steps to properly install the speed controller in your RC model:

1. **Mounting:** Securely mount the speed controller in your model using double-sided tape or screws, ensuring good airflow for cooling.
2. **Motor Connection:** Connect the two motor wires from the ESC to your brushed motor. Polarity typically does not matter for brushed motors, but consistent connection is recommended.
3. **Battery Connection:** Connect the battery connector from the ESC to your model's battery pack. Ensure correct polarity (red to positive, black to negative).
4. **Receiver Connection:** Plug the small signal cable (JR/Futaba connector) from the ESC into the throttle channel (usually Channel 2) of your RC receiver.
5. **Power Switch:** If applicable, connect the power switch to the designated port on the ESC.
6. **Calibration (if required):** Refer to your RC transmitter and receiver manual for throttle range calibration. Most ESCs require calibration to match the transmitter's throttle signals (neutral, full throttle, full brake/reverse).



Figure 3: Speed Controller with its various connections

6. OPERATING INSTRUCTIONS

Once the speed controller is installed and calibrated, you can begin operating your RC model:

- **Power On:** Turn on your RC transmitter first, then switch on the power to the speed controller (via the switch or by connecting the battery).
- **LED Indicator:** Observe the LED indicator on the ESC. It typically shows the status (e.g., solid for ready, blinking for error).
- **Throttle Control:** Use the throttle stick on your transmitter to control the motor speed. Pushing forward typically accelerates, pulling back applies brake/reverse.
- **Braking/Reverse:** Depending on the ESC's programming, a second pull back on the throttle stick from neutral usually engages reverse after braking.
- **Power Off:** Always disconnect the battery from the ESC first, then turn off your transmitter.



Figure 4: RC cars in action, powered by speed controllers

7. MAINTENANCE

To ensure the longevity and optimal performance of your speed controller, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the ESC and its heatsink to remove dust, dirt, and debris. Use a soft brush or compressed air.
- **Inspections:** Periodically inspect all wires and connectors for signs of wear, fraying, or corrosion. Replace damaged components immediately.
- **Cooling:** Ensure the heatsink is not obstructed and that there is adequate airflow around the ESC, especially during operation. Overheating can damage the unit.
- **Storage:** Store the ESC in a dry, cool place when not in use, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

If you encounter issues with your speed controller, refer to the table below for common problems and their solutions:

Problem	Possible Cause	Solution
Motor not responding	Incorrect wiring; ESC not calibrated; Low battery voltage; Transmitter not on.	Check all connections; Perform ESC calibration; Charge battery; Turn on transmitter.
Motor runs intermittently or stutters	Loose motor connections; Overheating; Motor limit exceeded.	Secure motor wires; Allow ESC to cool; Ensure motor is within 20-turn limit.
ESC gets excessively hot	Insufficient cooling; Overloaded motor; Incorrect gear ratio.	Ensure proper airflow; Use a motor within specifications; Adjust gearing.
No power to receiver	BEC failure; Incorrect receiver connection.	Check receiver connection; Test with another BEC or receiver.

9. SPECIFICATIONS

Specification	Value
Manufacturer	Reely
Model Reference	RE-6751242
Power Supply Type	Manual (via battery)
Operating Voltage Range	7.2 - 8 Volts
Continuous Current	35 A
Maximum Load Capacity	60 A
Motor Limit	20 Turns
Dimensions (L x W x H)	35 mm x 29 mm x 27 mm
Weight	48.5 Grams
Connector System	JR/Futaba
Components Included	1 piece (Speed Controller)
Spare Parts Availability	1 Year

10. WARRANTY AND SUPPORT

Warranty: This Reely product comes with a 1-year availability for spare parts, indicating support for the product's components. For specific warranty terms, please refer to the purchase documentation or contact your retailer.

Customer Support: For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Reely customer support or your authorized dealer. Contact information can typically be found on the Reely official website or your product packaging.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question