

Carson 906264

Carson 500906264 Dragster Brushed 70A Driving Controller

Model: 906264

INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your Carson 500906264 Dragster Brushed 70A Driving Controller. This sensitive speed controller is designed for 1:10 scale RC models, including buggies, on-road, off-road vehicles, and crawlers. Its waterproof design also makes it suitable for use in boats. The controller supports 2 to 3 LiPo cells and can also be used with NiMH batteries via a T-plug adapter.

SAFETY INFORMATION

WARNING: Not suitable for children under 14 years of age. Adult supervision is recommended during operation and maintenance.

- Always disconnect the battery from the controller when not in use to prevent accidental operation.
- Ensure all connections are secure and correct before powering on the device. Incorrect wiring can cause damage to the controller or battery.
- Avoid exposing the controller to extreme temperatures or direct sunlight for prolonged periods.
- Do not attempt to modify or disassemble the controller. This may void the warranty and cause damage.
- If the controller becomes excessively hot during operation, immediately disconnect power and allow it to cool down.

PRODUCT OVERVIEW

The Carson Dragster Brushed 70A Driving Controller is a robust electronic speed controller (ESC) designed for various RC applications. Key features include:

- **Waterproof Design:** Allows for use in wet conditions and in RC boats.
- **Versatile Compatibility:** Suitable for 1:10 scale buggies, on-road, off-road vehicles, and crawlers.
- **Battery Support:** Compatible with 2 to 3 LiPo cells. NiMH batteries can also be used with a T-plug adapter.
- **70A Current Rating:** Provides ample power for brushed motors.



This image displays the Carson 500906264 Dragster Brushed 70A Driving Controller. The main unit is black with a red heatsink, featuring the "Carson Dragster Brushed 70A Waterproof" label and model number "500906264". Various colored wires (red, black, yellow, blue) extend from the unit, connecting to different types of plugs and connectors, including a white battery connector, a red T-plug adapter, and a small black receiver plug with a white button. These components illustrate the controller's connectivity options for power, motor, and receiver.

WHAT'S IN THE BOX

Upon opening the package, you should find the following item:

- Speed controller (Carson 500906264 Dragster Brushed 70A)

Note: Additional accessories such as batteries, motors, or RC vehicles are sold separately.

SETUP

Follow these general steps to set up your Carson Dragster Brushed 70A Driving Controller:

1. **Mounting the ESC:** Securely mount the speed controller in your RC model using double-sided tape or screws, ensuring good airflow around the heatsink for cooling.
2. **Motor Connection:** Connect the motor wires to the corresponding output terminals on the ESC. Typically, brushed ESCs have two motor output wires (often blue and yellow or similar). Ensure correct polarity if specified by your motor.
3. **Receiver Connection:** Plug the small black connector from the ESC into the throttle channel (usually Channel 2) of your RC receiver. Ensure the correct orientation (signal, positive, negative).
4. **Battery Connection:** Connect your battery pack (2-3 LiPo cells or NiMH with T-plug adapter) to the power input wires of the ESC. Ensure correct polarity (red to positive, black to negative).
5. **Calibration (if required):** Refer to your RC transmitter's manual for throttle calibration procedures. Most ESCs require a one-time calibration with your transmitter to ensure proper throttle range recognition. This usually involves holding full throttle, powering on the ESC, then moving to full brake, and finally neutral.

Important: Always ensure all connections are firm and insulated to prevent short circuits.

OPERATING INSTRUCTIONS

Once the controller is properly set up and calibrated, you can begin operation:

1. **Power On:** Turn on your RC transmitter first, then connect the battery to the ESC. The ESC will typically emit a series of beeps indicating it has detected the battery cells and is ready.
2. **Throttle Control:** Use the throttle stick on your transmitter to control the speed and direction of your RC model. Pushing forward typically accelerates, and pulling back applies brakes or reverse.
3. **Waterproof Operation:** While the ESC is waterproof, it is recommended to dry it thoroughly after exposure to water to prevent long-term corrosion of connectors.
4. **Power Off:** Always disconnect the battery from the ESC first, then turn off your RC transmitter.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your speed controller:

- **Cleaning:** Regularly clean the ESC, especially the heatsink, to remove dirt, dust, 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.
- **Temperature Monitoring:** During operation, occasionally check the temperature of the ESC. If it consistently runs hot, consider improving airflow or reducing load.
- **Storage:** Store the ESC in a cool, dry place away from direct sunlight and extreme temperatures when not in use.

TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
ESC does not power on.	Battery not connected, battery discharged, faulty connection.	Check battery connection, charge battery, inspect wires and connectors.
Motor does not respond to throttle.	ESC not calibrated, receiver not connected, motor wires loose.	Perform ESC calibration, ensure receiver is properly connected to Channel 2, check motor wire connections.
ESC overheats.	Excessive load, poor ventilation, incorrect motor/gear ratio.	Reduce load, improve airflow around ESC, check motor and gearing for appropriate setup.
Erratic motor behavior.	Interference, loose connections, damaged motor.	Check for sources of interference, secure all connections, inspect motor for damage.

SPECIFICATIONS

Feature	Detail
Model Number	906264
Product Dimensions	3.45 x 3.02 x 1.87 cm
Weight	270 g

Feature	Detail
Current Rating	70A (Brushed)
Battery Compatibility	2-3 LiPo cells, NiMH (with T-plug adapter)
Waterproof	Yes
Material Type	Plastic
Recommended Age	14 years and up

OFFICIAL PRODUCT VIDEOS

No official product videos from the seller are available for this item at this time.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the manufacturer's official website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

Manufacturer: Carson Modellsport



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Documents - Carson – 906264

no relevant documents