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Carson 500501535

Carson Reflex Wheel PRO 3 500501535 Receiver 2.4 GHz BEC Instruction Manual

Model: 500501535

INTRODUCTION

This manual provides essential instructions for the proper setup, operation, and maintenance of your Carson Reflex Wheel PRO 3 500501535 2.4 GHz 5-channel receiver. This receiver is designed for use with Carson Reflex Wheel Pro3, Reflex Wheel Pro3LCD, Reflex Stick 2, and Reflex Stick Multi transmitters in various car and boat models. Please read this manual thoroughly before using the product to ensure safe and efficient operation.



Image: Carson Reflex Wheel PRO 3 500501535 Receiver. This image displays the compact design of the 5-channel receiver, highlighting its small form factor suitable for various model applications.

SAFETY INFORMATION

Observe the following safety guidelines to prevent damage to the product or injury to yourself and others:

- This product is not a toy. It is intended for use by individuals aged 14 years and older.
- Always ensure correct polarity when connecting power to the receiver. Incorrect connection can cause permanent damage.
- Keep the receiver away from moisture, extreme temperatures, and direct sunlight.
- Do not attempt to modify or disassemble the receiver. This will void the warranty and may cause malfunction.
- Ensure all connections are secure before operating your model. Loose connections can lead to loss of control.
- Always turn on the transmitter first, then the receiver. When finished, turn off the receiver first, then the transmitter.

PACKAGE CONTENTS

Verify that all items are present in the package:

- Carson Reflex Wheel PRO 3 500501535 Receiver (1 unit)
- Instruction Manual (this document)

SETUP

1. Connecting the Receiver

The receiver features 5 channels and a BEC (Battery Eliminator Circuit) function. Connect your servos, ESC (Electronic Speed Controller), and other accessories to the appropriate channels.

1. **Channel 1 (CH1):** Typically for Steering Servo.
2. **Channel 2 (CH2):** Typically for Throttle/ESC.
3. **Channel 3 (CH3):** Auxiliary channel.
4. **Channel 4 (CH4):** Auxiliary channel.
5. **Channel 5 (CH5):** Auxiliary channel.
6. **BEC Port:** This port provides power to the receiver and connected components from the ESC or a separate battery. Ensure your power source is compatible with the receiver's voltage requirements.

Ensure all plugs are inserted correctly and securely into their respective ports. Incorrect orientation can damage the receiver or connected devices.

2. Pairing/Binding with Transmitter

To establish communication between the receiver and your Carson 2.4 GHz transmitter, follow these binding steps:

1. Ensure your transmitter is turned off.
2. Connect the binding plug (usually included with your transmitter or model kit) to the "BIND" port on the receiver.
3. Apply power to the receiver (e.g., by connecting the ESC with a battery or a separate receiver battery). The receiver's LED should start flashing rapidly, indicating it is in binding mode.
4. While holding down the "BIND" button on your Carson 2.4 GHz transmitter, turn on the transmitter.
5. Release the "BIND" button on the transmitter once its LED or display indicates successful binding (refer to your transmitter's manual for specific indications).

6. The receiver's LED should now be solid, indicating a successful bind.
7. Turn off the receiver, then remove the binding plug.
8. Turn off the transmitter.
9. Power on the transmitter first, then the receiver, to confirm the binding is retained. Test all functions (steering, throttle, auxiliary channels) before operating your model.

3. Failsafe Setup

The failsafe function is crucial for safety, setting predefined positions for servos in case of signal loss. This receiver includes a failsafe feature.

1. Ensure the receiver and transmitter are bound and powered on.
2. Set your desired failsafe positions on the transmitter (e.g., neutral steering, brake for throttle). Refer to your transmitter's manual for specific instructions on setting failsafe values.
3. Once the desired positions are set on the transmitter, activate the failsafe setting procedure on the receiver (this often involves pressing a button on the receiver or a specific sequence on the transmitter). Consult your transmitter's manual for the exact procedure for setting failsafe with this receiver.
4. Test the failsafe by turning off the transmitter while the receiver is powered on. The servos should move to their predefined failsafe positions.

OPERATING

Once the receiver is properly connected and bound to your transmitter, you can operate your model. Always perform a range check before operating your model at a distance.

- Turn on your transmitter first.
- Then, turn on the power to your model (receiver).
- Verify that all control surfaces and functions respond correctly to transmitter inputs.
- When finished, turn off the power to your model (receiver) first.
- Then, turn off your transmitter.

MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your receiver.

- **Cleaning:** Use a soft, dry cloth to clean the receiver. Do not use solvents or harsh chemicals.
- **Storage:** Store the receiver in a dry, cool place, away from direct sunlight and extreme temperatures.
- **Inspection:** Periodically check all wires and connectors for signs of wear or damage. Replace damaged components immediately.
- **Moisture:** Avoid exposing the receiver to water or high humidity. If it gets wet, disconnect power immediately and allow it to dry completely before reuse.

TROUBLESHOOTING

If you encounter issues with your receiver, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Receiver LED not lighting up.	No power or incorrect power connection.	Check power source (battery/ESC) and ensure correct polarity and secure connection to the BEC port.
No control response after powering on.	Receiver not bound to transmitter, or signal interference.	Perform the binding procedure again. Ensure transmitter is on and fully charged. Check for other 2.4 GHz devices nearby.
Erratic or intermittent control.	Loose connections, low battery voltage, or interference.	Check all servo and power connections. Ensure transmitter and model batteries are fully charged. Relocate to an area with less interference.
Failsafe not working.	Failsafe not set correctly or not activated.	Re-perform the failsafe setup procedure as described in the "Setup" section and your transmitter's manual.

SPECIFICATIONS

Feature	Detail
Model Number	500501535
Channels	5
Frequency	2.4 GHz
Functionality	BEC, Failsafe
Dimensions (approx.)	45 x 27 x 14 mm (1.77 x 1.06 x 0.55 inches)
Weight (approx.)	25 g (0.88 oz)
Compatible Transmitters	Reflex Wheel Pro3, Reflex Wheel Pro3LCD, Reflex Stick 2, Reflex Stick Multi
Material	Plastic

WARRANTY AND SUPPORT

Carson products are manufactured to high-quality standards. For warranty information and technical support, please refer to the official Carson website or contact your local dealer. Keep your proof of purchase for any warranty claims.

For further assistance, visit: www.carson-modelsport.com