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› Carson Reflex Stick Multi Pro 14K 2.4 GHz Receiver Instruction Manual

Carson 500501540

Carson Reflex Stick Multi Pro 14K 2.4 GHz Receiver Instruction Manual

Model: 500501540

INTRODUCTION

This instruction manual provides essential information for the proper setup, operation, and maintenance of your Carson Reflex Stick Multi Pro 14-channel 2.4 GHz Receiver (Model 500501540). Please read this manual thoroughly before using the product to ensure safe and efficient operation. Keep this manual for future reference.

SAFETY INFORMATION

- **Age Restriction:** This product is not suitable for children under the age of 14. Adult supervision is recommended for users under 18.
- **Proper Installation:** Ensure all connections are secure and correctly polarized before powering on the receiver. Incorrect wiring can cause damage to the receiver or other components.
- **Environmental Conditions:** Avoid exposing the receiver to moisture, extreme temperatures, or direct sunlight. Operate within recommended environmental specifications.
- **Interference:** Always operate your RC model in an open area, away from other radio frequency sources, high-voltage lines, or large metal structures that could cause interference.
- **Power Source:** Use only compatible power sources (e.g., ESC BEC, separate receiver battery) with appropriate voltage levels. Over-voltage can permanently damage the receiver.
- **Antenna Placement:** Ensure the receiver antenna is positioned correctly and not obstructed by carbon fiber or metal parts of the model to maintain optimal signal reception.

PRODUCT OVERVIEW

The Carson Reflex Stick Multi Pro 14-channel 2.4 GHz Receiver is a compact and versatile component designed to expand the functionality of your remote-controlled models. It allows for the control of various additional functions beyond standard steering and throttle, such as lights, sound modules, and other auxiliary features.

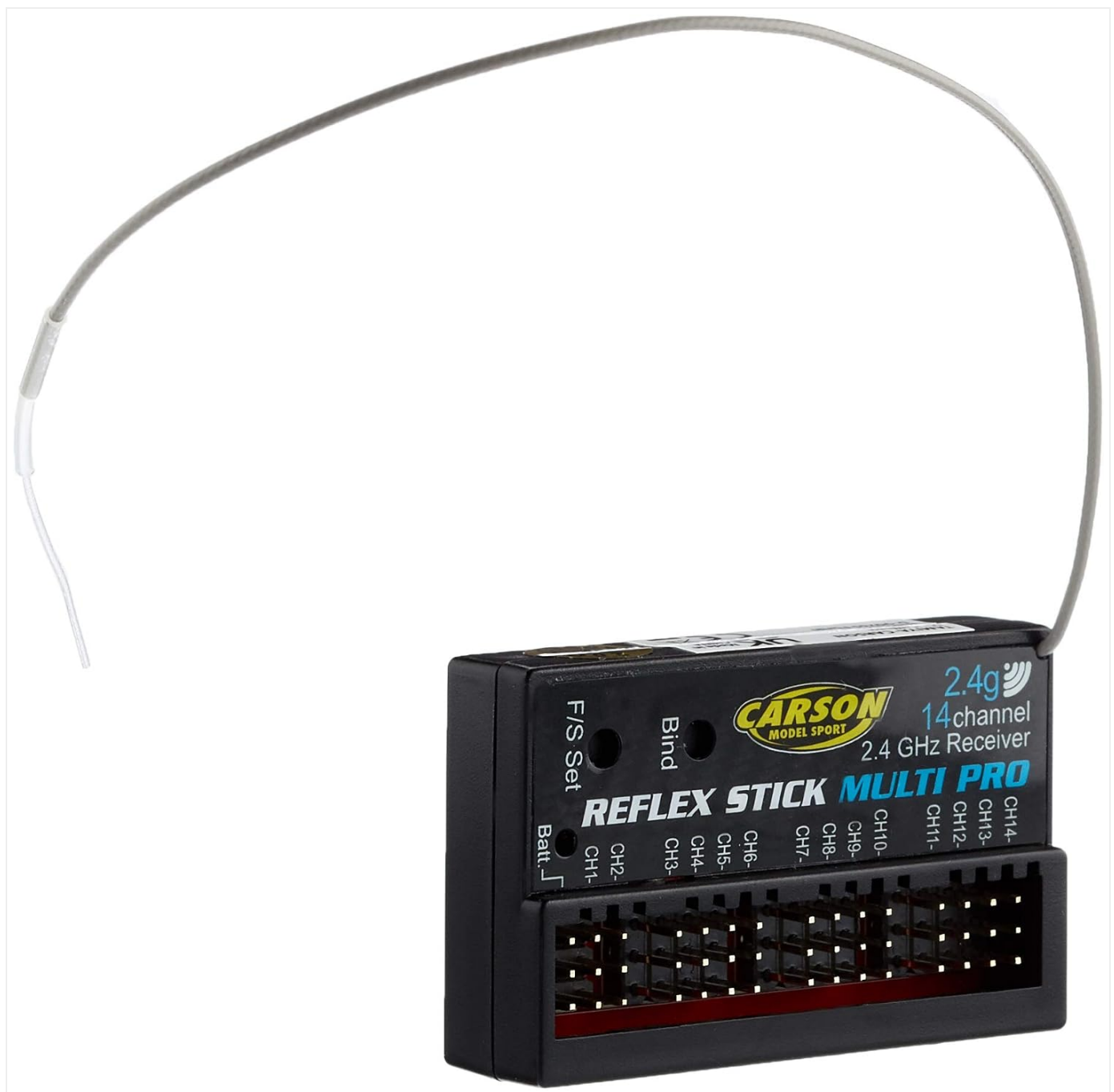


Figure 1: Front view of the Carson Reflex Stick Multi Pro 14-channel 2.4 GHz Receiver, showing the channel ports, F/S Set button, and Bind port.

Key Features:

- **14 Channels:** Provides extensive control options for complex models.
- **2.4 GHz Technology:** Ensures reliable and interference-free communication.
- **Compact Design:** Ideal for installation in various car and boat models.
- **Uni Connector System:** Compatible with Futaba and Graupner J/R servo and power connectors.
- **Tamiya MFC/DMD Compatibility:** Works seamlessly with Tamiya MFC and DMD units when paired with a Carson Reflex Stick MultiPro remote control.



Figure 2: Back view of the Carson Reflex Stick Multi Pro 14-channel 2.4 GHz Receiver, showing regulatory markings.

SETUP

1. Connecting Components

1. **Servos and ESC:** Connect your servos, Electronic Speed Controller (ESC), and any other auxiliary components to the corresponding channel ports (CH1-CH14) on the receiver. Refer to your model's specific wiring diagram for correct channel assignments.
2. **Power Supply:** The receiver typically receives power from the ESC's Battery Eliminator Circuit (BEC) via the throttle channel (usually CH2). Alternatively, a separate receiver battery can be connected to the 'Batt' port. Ensure the voltage is within the receiver's specified operating range.

2. Binding the Receiver to the Transmitter

Binding is the process of linking the receiver to your specific 2.4 GHz transmitter. This ensures that the receiver only responds to signals from your transmitter.

1. **Power Off:** Ensure both the transmitter and receiver are powered off.

2. **Insert Bind Plug:** Insert the bind plug (usually supplied with your transmitter or receiver) into the 'Bind' port on the receiver.
3. **Power On Receiver:** 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, indicating it is in binding mode.
4. **Activate Transmitter Bind Mode:** While holding the bind button on your Carson Reflex Stick MultiPro transmitter, power on the transmitter. Refer to your transmitter's manual for specific instructions on activating bind mode.
5. **Binding Confirmation:** The receiver's LED should turn solid, indicating a successful bind.
6. **Remove Bind Plug:** Power off the receiver, then remove the bind plug.
7. **Test:** Power on the transmitter first, then the receiver. Test all controls to ensure proper functionality before operating your model.

3. Failsafe (F/S) Setting

The Failsafe function ensures that your model reacts predictably in case of signal loss (e.g., throttle to neutral, steering to a safe position). The 'F/S Set' button is used for this purpose.

1. **Power On:** Ensure the transmitter and receiver are powered on and bound.
2. **Set Desired Failsafe Positions:** Position all control sticks and switches on your transmitter to the desired failsafe positions (e.g., throttle to neutral, steering straight).
3. **Press F/S Set Button:** Press and hold the 'F/S Set' button on the receiver for approximately 2-3 seconds until the receiver's LED flashes rapidly or changes color, indicating the failsafe positions have been stored.
4. **Test Failsafe:** Turn off your transmitter while the receiver is powered on. The model's controls should move to the set failsafe positions. Turn the transmitter back on to regain control.

OPERATING INSTRUCTIONS

Once the receiver is properly installed and bound to your transmitter, operation is straightforward. Always power on your transmitter first, then your model's receiver. When finished, power off the receiver first, then the transmitter.

Channel Assignments:

The 14 channels allow for a wide range of control. Typical assignments include:

- **CH1:** Steering
- **CH2:** Throttle/Motor Control
- **CH3-CH14:** Auxiliary functions (e.g., lights, winches, sound modules, gear shifting, special effects). Refer to your model's specific requirements and your transmitter's capabilities for detailed assignments.
- **Batt:** Power input (if using a separate receiver battery) or power output for certain accessories.
- **Bind:** Used for the binding process.
- **F/S Set:** Used to set failsafe positions.

Ensure that all control surfaces and functions respond correctly to your transmitter inputs before operating your model.

MAINTENANCE

To ensure the longevity and reliable performance of your Carson receiver, follow these maintenance guidelines:

- **Keep Clean:** Regularly clean the receiver with a soft, dry cloth. Avoid using solvents or harsh chemicals.
- **Protect from Elements:** Keep the receiver dry and protect it from dust, dirt, and moisture. If operating in damp conditions, ensure the receiver is housed in a waterproof enclosure.
- **Avoid Physical Damage:** Handle the receiver carefully. Avoid dropping it or subjecting it to excessive vibration or impact.

- **Inspect Connections:** Periodically check all wire connections for signs of wear, corrosion, or looseness. Ensure servo and power plugs are securely seated.
- **Antenna Care:** Do not cut, bend sharply, or damage the receiver antenna. Ensure it is routed away from metal parts and positioned for optimal signal reception.

TROUBLESHOOTING

If you encounter issues with your receiver, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Receiver LED not lighting up	No power or incorrect power connection.	Check battery connection, ESC BEC connection, and ensure correct polarity. Verify battery charge.
No control response from model	Not bound, signal interference, or incorrect channel connections.	Re-bind the receiver to the transmitter. Check for sources of interference. Verify all servo/ESC connections are correct. Ensure transmitter is powered on.
Erratic or intermittent control	Signal interference, loose connections, or damaged antenna.	Check antenna for damage and proper routing. Ensure all connections are secure. Move to an area with less interference.
Failsafe not working	Failsafe not set or incorrectly set.	Re-set the failsafe positions following the instructions in the Setup section.

SPECIFICATIONS

- **Model Number:** 500501540
- **Channels:** 14
- **Frequency:** 2.4 GHz
- **Dimensions:** 2.01 x 1.26 x 0.51 inches (51 x 32 x 13 mm)
- **Weight:** 0.32 ounces (9 grams)
- **Compatibility:** Futaba and Graupner J/R connector systems. Compatible with Tamiya MFC and DMD units when used with a Carson Reflex Stick MultiPro remote control.

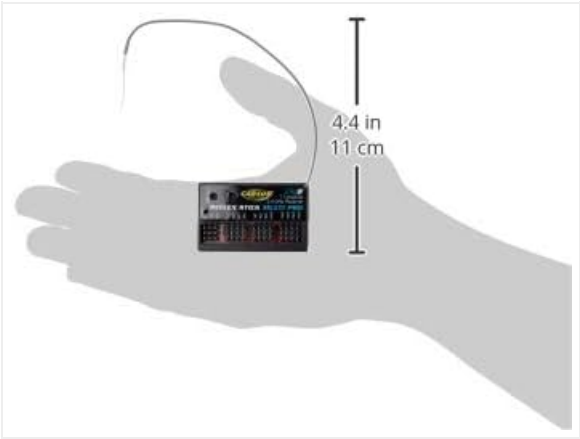


Figure 3: The receiver shown in a hand, illustrating its compact size and dimensions.

IMPORTANT NOTES

- The original product packaging contains important information and should be retained.
- Illustrations in this manual may differ slightly from the actual product due to ongoing product improvements.
- Carson reserves the right to make technical improvements and changes to the product at any time without prior notice.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Carson Reflex Stick Multi Pro 14-channel 2.4 GHz Receiver, please contact Carson customer service directly. Details can typically be found on the product packaging or the official Carson website.

Please have your model number (500501540) and proof of purchase available when contacting support.

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