

## Carson 500501003

# Reflex Stick Multi Pro 2.4 GHz, 14 Channels

## INSTRUCTION MANUAL

### 1. Introduction

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The Carson Reflex Stick Multi Pro 14 channel 2.4 GHz system is a versatile and advanced radio-controlled system designed for universal use with various RC vehicles and ships. It offers precise control over 14 independent channels, including 4 proportional control channels and 10 switching channels (5 buttons and 5 switches). This system is fully compatible with TAMIYA multi-function control (MFC) and digital twin motor differential (DMD) units, featuring slider-based trim adjustments for enhanced functionality.

### 2. Safety Information

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- This product is not suitable for children under 14 years of age. Adult supervision is recommended during operation.
- Always keep the original packaging as it contains important information regarding the product.
- Illustrations in this manual may differ slightly from the actual product.
- Carson reserves the right to make improvements and changes to the product at any time without prior notice.
- Ensure all connections are secure before operation to prevent loss of control.
- Operate the RC system in a safe environment, away from people, animals, and obstacles.

### 3. Package Contents

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The product package includes the following components:

- 14-channel 2.4 GHz Transmitter
- 14-channel Receiver
- Multilingual Instruction Manual

### 4. Setup

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Follow these steps to set up your Reflex Stick Multi Pro system:

1. **Transmitter Battery Installation:** The transmitter operates on 4.8 to 6 V, typically requiring four Mignon (AA) cells. Open the battery compartment on the back of the transmitter and insert the batteries, ensuring correct polarity.



Figure 4.1: Rear view of the transmitter, indicating the location for battery installation and the Graupner-J/R charging socket (positive pole inside).

- Receiver Connection:** Connect the 14-channel receiver to your RC vehicle or ship. The receiver operates on 4.8-6 V and features a Uni-connector system for easy integration. Ensure all servo and power connections are correctly made to the respective channels.



Figure 4.2: The 14-channel receiver with its Uni-connector system, ready for connection to your model's components.

- 3. Binding the Transmitter and Receiver:** The 2.4 GHz FHSS (Frequency Hopping Spread Spectrum) system automatically establishes a connection. Refer to the specific binding instructions in the included multilingual manual for detailed steps if automatic binding does not occur.



Figure 4.3: The complete Reflex Stick Multi Pro system, including the transmitter and receiver, ready for setup.

## 5. Operating Instructions

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The Reflex Stick Multi Pro offers comprehensive control features:

- **Proportional Channels:** Four channels are fully proportional and freely adjustable, typically controlled by the joysticks. These allow for precise control of steering, throttle, and other proportional functions.





Figure 5.1: Detail of the transmitter's control sticks and various switches for proportional and switching functions.

- **Switching Channels:** The system includes 5 buttons for on/off/on functions and 5 switches for on/off/on functions, providing a total of 10 switching channels for auxiliary controls like lights, sounds, or other accessories.
- **Servo Reverse:** Channels 1-4 feature a servo reverse function, allowing you to change the direction of servo movement if needed. This is crucial for correct control response.
- **Trimming Function:** Channels 1-4 also include a trimming function, which is performed via a slider. This allows for fine adjustments to the neutral position of your proportional controls, ensuring straight tracking or stable hovering.
- **Battery Status Indication:** An LED indicator on the transmitter provides real-time feedback on the battery status, alerting you when the batteries need to be replaced or recharged.
- **Compatibility:** This system is fully compatible with TAMIYA multi-function control (MFC) and digital twin motor differential (DMD) units, making it ideal for advanced model setups.

## 6. Maintenance

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- Keep the transmitter and receiver clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the unit to extreme temperatures, humidity, or direct sunlight.
- Remove batteries from the transmitter if it will not be used for an extended period to prevent leakage.
- Regularly check all cables and connectors for signs of wear or damage.

## 7. Troubleshooting

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- **No Power/LED Not Lighting Up:**
  - Check if batteries are inserted correctly with the right polarity.
  - Ensure batteries are fully charged or replace them with new ones.
  - Verify the power switch is in the "ON" position.

- **Loss of Control/Interference:**

- Ensure the transmitter and receiver are properly bound. Re-bind if necessary.
- Check for strong interference sources in the operating area (e.g., other 2.4 GHz devices, large metal objects).
- Verify the receiver's power supply is stable.

- **Incorrect Servo Movement:**

- Use the servo reverse function for channels 1-4 to correct the direction.
- Check servo connections to the receiver.

- **Controls Not Centering Properly:**

- Adjust the trimming function for channels 1-4 using the sliders.
- Ensure mechanical linkages are not binding or damaged.

## 8. Specifications

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Feature	Detail
Product Dimensions	8.27 x 7.87 x 2.95 inches
Item Weight	1.5 pounds
Item Model Number	500501003
Manufacturer	Carson
Release Date	November 19, 2015
Transmitter Operating Voltage	4.8 to 6 V (4 Mignon cells)
Receiver Power Supply	4.8-6 V
Frequency System	2.4 GHz FHSS (Frequency Hopping Spread Spectrum)
Channels	14 (4 proportional, 10 switching)
Charging Socket	Graupner-J/R (positive pole inside)

## 9. Warranty and Support

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Carson reserves the right to make improvements and changes to the product at any time. For specific warranty information, please refer to the documentation provided with your purchase or contact your retailer.

For technical support or inquiries, please contact the manufacturer or your authorized dealer. Keep your purchase receipt as proof of purchase.







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Empfänger 03 2021 82 KB REFLEX Stick Multi Pro 14v Recepteur 2 4G 500501540 Radiocommandes Accessoires RC Pièces de rechange accessoires carson modelsport cdn simba dickie group ||| Stand: Mrz 2021 500501540 Empfänger Reflex Stick Multi Pro Allgemein: Es handelt sich hier um einen Ersatzempfänger fr die RC Anlage Art.Nr. **500501003** . Technische Daten: Kanäle: 4 3 Sonderkanäle Frequenz: 2,4 GHz Eingangsspannung: 4,8-6 V Abmae: 35x26x14mm Sicherheitshinweise: Dieses Prod... lang:de score:23 filesize: 82.15 K page\_count: 2 document date: 2021-03-08



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50050100 Anleitung Carson Reflex Stick Multi Pro 14Channel planet rc comatic documents ||| 14 Channel 2.4 GHz FHSS Digital Proportional Radio Control System D Betriebsanleitung G Instruction Manual F Mode demplot I Istruzioni d'uso Seite 2 - 10 Page 11 - 19 Page 20 - 22 Pagina 23 - 25 **500501003** // Stand: Juli 2017 Sehr geehrter Kunde Wir beglückwünschen Sie zum Kauf eines CARSON Produk... lang:de score:23 filesize: 1.66 M page\_count: 28 document date: 2017-07-20



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Manual Reflex stick multi pro 14 modelsport no attachment id 2310361 ||| 14 Channel 2.4 GHz FHSS Digital Proportional Radio Control System D Betriebsanleitung G Instruction Manual F Mode demplot I Istruzioni d'uso Seite 2 - 10 Page 11 - 19 Page 20 - 22 Pagina 23 - 25 CARSON Reflex Stick Multi Pro 14 Channel 2.4 GHz **500501003** Sehr geehrter Kunde Wir beglückwünschen Sie... lang:de score:22 filesize: 1.52 M page\_count: 28 document date: 2015-11-18

Art.Nr.	Bezeichnung	Stk.	Hersteller
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500500031	Reflex Stick Multi Pro	1	Carson
500500032	Reflex Stick Multi Pro	1	Carson
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Descubra una amplia gama de productos de alta calidad, desde electrónica y artículos para el hogar hasta juguetes y accesorios para niños. Encuentre las últimas novedades y ofertas.

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