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› MEUS RACING M-04B 2.4GHz RC Receiver Instruction Manual

## MEUS RACING M-04B

# MEUS RACING M-04B 2.4GHz RC Receiver Instruction Manual

Model: M-04B

## INTRODUCTION

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The MEUS RACING M-04B is a 4-channel 2.4GHz RC receiver designed for remote control vehicles such as RC cars, boats, and tanks. It features advanced anti-interference technology and provides stable signal output for responsive control. This manual provides essential information for the proper setup, operation, and maintenance of your M-04B receiver.



Figure 1: MEUS RACING M-04B 4-Channel RC Receiver.

## KEY FEATURES

- **Advanced 2.4GHz Technology:** Integrated with pseudo random FHSS algorithm and GFSK technology for excellent anti-interference ability.
- **Extended Control Range:** Offers a control distance up to 984ft (300 meters) on the ground and 2625ft (800 meters) in the air.
- **Real-time Telemetry:** Provides real-time telemetry of vital information such as battery voltage and RSSI signal, helping to prevent battery over-discharge and damage.
- **High Resolution:** Features a high resolution ratio of 4096 for stable signal output and fast response across all channels.
- **Easy Binding:** Equipped with a bind button for simple pairing; press for 1 second after powering up the transmitter and receiver.
- **Durability:** Water splash proof design with anti-polarity protection to prevent damage from incorrect polarity insertion.
- **4-Channel Setup:** Specifically designed for use with MEUS RC transmitters.
- **Channel Functions:** CH1, CH2, CH3 are for servos. CH4 is for light control; connect positive and negative poles, signal pin not required. CH5 on the transmitter controls LEDs connected to receiver CH4.

## SPECIFICATIONS

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<b>Model Number</b>	M-04B
<b>Channels</b>	4
<b>Frequency</b>	2.4GHz
<b>Receiving Distance</b>	100-300m (ground), 800m (air)
<b>Input Voltage</b>	DC4V-9V
<b>Info Feedback</b>	Signal (RSSI)
<b>Voltage Feedback</b>	Yes (Telemetry)
<b>Dimensions</b>	22 x 15 x 10 mm (approx. 1 x 1 x 1 inches)
<b>Weight</b>	3g (approx. 0.11 oz)
<b>Gyro</b>	No
<b>Application</b>	RC car, ship, plane, tank



Figure 2: Detailed specifications for the M-04B receiver.

## SETUP AND BINDING

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### 1. Connecting the Receiver

Connect your servos to channels CH1, CH2, and CH3. For light control, connect your LEDs to CH4. Ensure correct polarity when connecting components. The receiver is designed with anti-polarity protection.

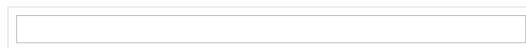


Figure 3: M-04B receiver port layout. CH1, CH2, CH3 for servos. CH4 for light control. 'B' is the bind button.

### 2. Binding with Transmitter

The M-04B receiver is compatible with MEUS RC transmitters (e.g., ME-10B). To bind the receiver to your transmitter:

1. Ensure both the transmitter and receiver are powered off.
2. Power on your MEUS RC transmitter.
3. Power on the M-04B receiver.
4. Immediately press and hold the 'B' (Bind) button on the receiver for approximately 1 second.
5. The receiver's LED indicator will change to confirm successful binding. Refer to your transmitter's manual for specific binding instructions if needed.



Figure 4: Example of a compatible MEUS RC Transmitter (ME-10B).

## OPERATING THE RECEIVER

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## Channel Functions

- **CH1, CH2, CH3:** These channels are used for connecting servos for steering, throttle, or other proportional controls.
- **CH4 (Light Control):** This channel is dedicated to controlling LED lights. Only the positive and negative poles of the LEDs need to be connected to CH4. The signal pin is not used for light control.
- **Transmitter Control for Lights:** On your MEUS transmitter, you can typically use CH5 to control the LEDs connected to the receiver's CH4. Refer to your transmitter's manual for specific light control settings.

## Light Control Demonstration (using a compatible MEUS Transmitter)

The following video demonstrates how to use light control features with a MEUS transmitter and a compatible receiver. While the video references an ME-01A 8CH receiver, the principles for light control operation with a MEUS transmitter are generally applicable to the M-04B receiver's CH4 light function.



Video 1: Demonstration of light control using a MEUS transmitter. This video shows how to activate various light functions (parking, turn signals, reverse, emergency, headlight, flashing) by manipulating the transmitter's controls and adjusting settings. Note: The receiver model shown in the video is ME-01A, but the light control principles apply to the M-04B's CH4.

## MAINTENANCE

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To ensure the longevity and optimal performance of your MEUS RACING M-04B receiver, follow these maintenance guidelines:

- **Cleaning:** Keep the receiver clean and free from dust, dirt, and debris. Use a soft, dry cloth to wipe the exterior. Avoid using solvents or harsh chemicals.
- **Moisture Protection:** While the receiver is water splash proof, it is not fully waterproof. Avoid submerging it in water or exposing it to heavy rain. If it gets wet, power it off immediately and allow it to dry completely before reuse.
- **Connection Integrity:** Regularly check all connections to ensure they are secure and free from corrosion. Loose connections can lead to signal loss or intermittent operation.
- **Storage:** Store the receiver in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Anti-Polarity Protection:** The receiver includes anti-polarity protection, which helps prevent damage if power connections are accidentally reversed. However, always double-check polarity before connecting power.

## TROUBLESHOOTING

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If you encounter issues with your M-04B receiver, consider the following troubleshooting steps:

- **No Power/No Indicator Light:**
  - Check power source (battery) for charge and proper connection.
  - Verify correct polarity of power connection.
  - Inspect power wires for damage.
- **No Signal/Loss of Control:**
  - Ensure the receiver is correctly bound to the transmitter. Re-attempt the binding process if necessary.
  - Check the distance between the transmitter and receiver; ensure it's within the specified operating range.
  - Verify that the transmitter's battery is charged.

- Check for strong interference sources in the operating environment.
- Inspect antenna placement on the receiver; ensure it's not obstructed or damaged.
- **Intermittent Operation:**
  - Check all wiring connections for looseness or damage.
  - Ensure no metal parts are shorting out connections.
  - Reduce potential sources of electrical noise near the receiver (e.g., motors, ESCs).
- **Lights Not Functioning (CH4):**
  - Verify LEDs are correctly connected to CH4 with proper polarity.
  - Check if the light control function is enabled and correctly configured on your MEUS transmitter (usually via CH5).
  - Ensure the LEDs themselves are functional.

If problems persist after following these steps, please contact MEUS RACING customer support for further assistance.

## **WARRANTY AND SUPPORT**

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MEUS RACING products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the official MEUS RACING website or contact your retailer. Keep your purchase receipt as proof of purchase for warranty claims.

For additional resources and product information, visit the [MEUS RACING Store on Amazon](#).