NEEBRC NB-7D

NEEBRC NB-7D 7-Channel 2.4GHz RC Transmitter Instruction Manual

Model: NB-7D

1. Introduction

Thank you for purchasing the NEEBRC NB-7D 7-Channel 2.4GHz RC Transmitter. This system is designed for various RC models including cars, crawlers, trucks, racing buggies, off-road vehicles, on-road vehicles, boats, and tanks. It features a 2.4GHz transmission system for reliable control, a built-in light control system, and a 12LED light set. Please read this manual thoroughly before operation to ensure proper setup and safe use.

2. Product Overview

2.1 Package Contents

- 1x NEEBRC NB-7D 7-Channel Transmitter
- 1x Receiver with Built-in Light Control System (RX-G7X)
- 1x 12LED Light Set
- 1x User Manual (this document)

2.2 Transmitter Features

- **7 Channels:** Provides extensive control options for various RC functions.
- **2.4GHz Transmission:** Ensures stable signal and allows multiple users to operate simultaneously without interference.
- **Proportional Trigger Limit Setting:** Ideal for beginners to practice control.
- **Mixed Control Function:** Allows binding multiple receiver channels to a single transmitter channel for synchronized operations.
- **Battery Low Voltage Indication:** LED flashes slowly when battery voltage is below 4.2V.
- **Ergonomic Design:** Features an anti-slip foam steering wheel, anti-slip trigger, and ergonomic grip for comfortable use.

2.3 Receiver Features (RX-G7X)

- **High Voltage Protection:** Compatible with high voltage servos (4.2-10V).
- **Multifunctional Light Slots:** Dedicated ports for connecting the 12LED light set.

- **Winch Slot:** Dedicated port for controlling an RC winch.

Figure 1: NEEBRC NB-7D Transmitter Features

Figure 2: Transmitter and Receiver Component Layout

3. Setup

3.1 Battery Installation (Transmitter)

1. Locate the battery compartment cover on the bottom of the transmitter.
2. Slide the cover open.
3. Insert 4 AA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.

Note: Batteries are not included. Use fresh, high-quality AA batteries for optimal performance.

3.2 Receiver and Light Set Connection

1. Connect your RC model's steering servo to CH1 on the receiver.
2. Connect your RC model's ESC (Electronic Speed Controller) to CH2 on the receiver.
3. Connect the 12LED Light Set to the designated light slots (FL, HL, PL, BL, CL-R, CL-L) on the receiver. Refer to Figure 2 for port locations.
4. If using a winch, connect it to the winch slot (M1+) on the receiver.
5. Ensure all connections are firm and correctly oriented.

Figure 3: Transmitter and Receiver Dimensions

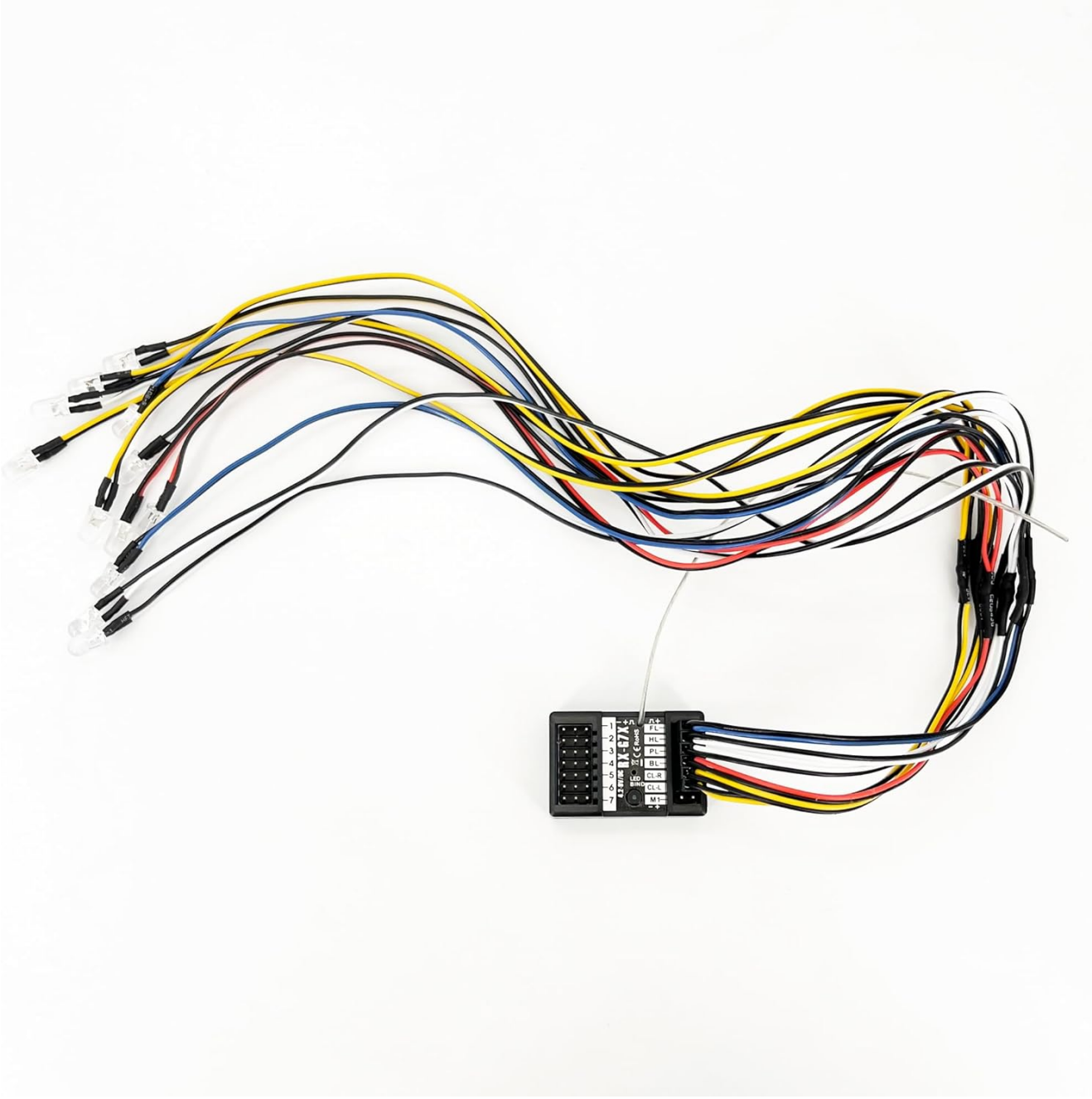

Figure 4: 12LED Light Set Connected to Receiver

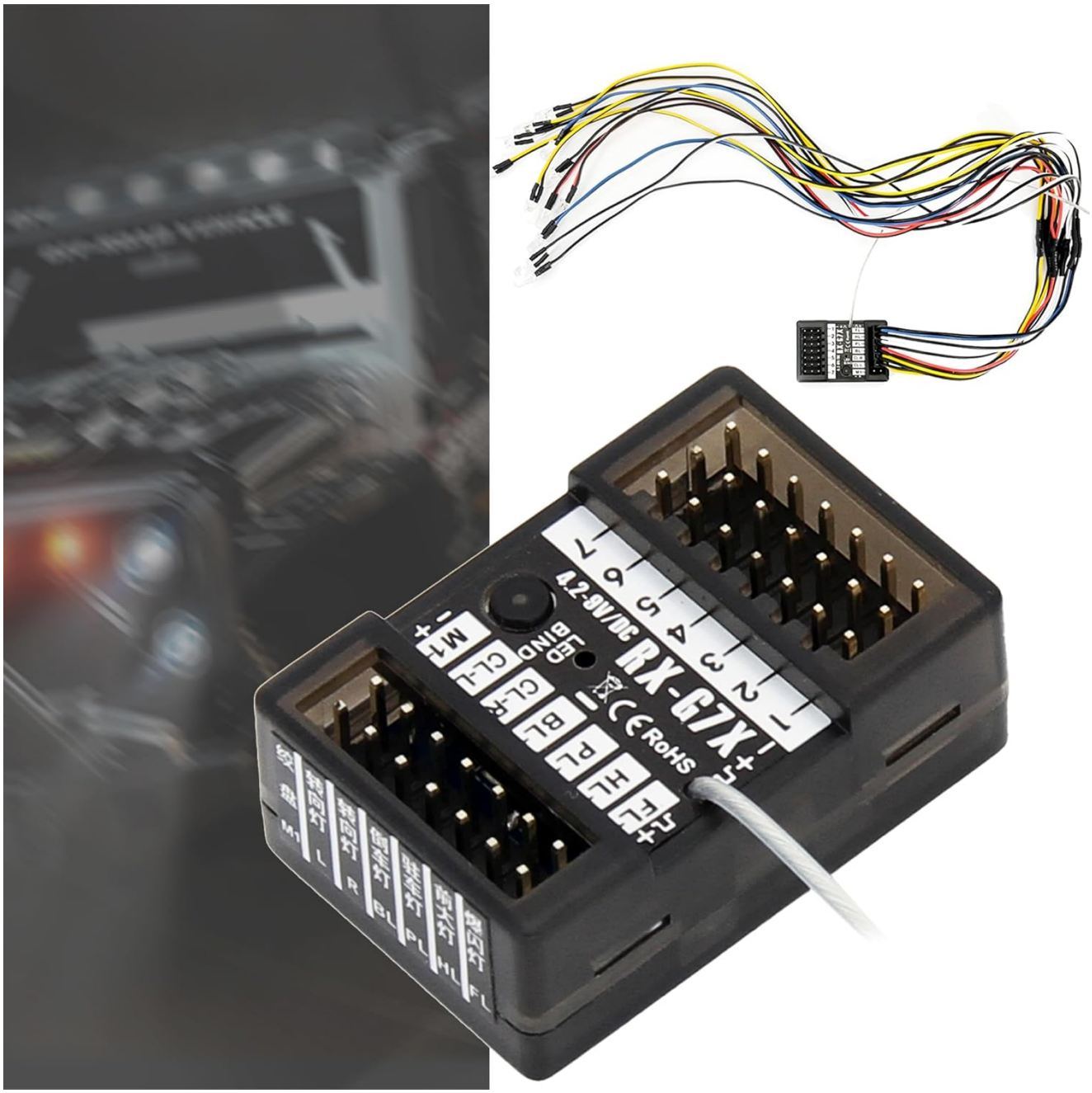

Figure 5: RX-G7X Receiver with Light Set

4. Binding Instructions

The transmitter and receiver are typically pre-bound from the factory. If re-binding is necessary, follow these steps:

1. Ensure the transmitter batteries are installed and the transmitter is OFF.
2. Connect power to the receiver (e.g., via ESC). The receiver's LED will flash rapidly.
3. Press and hold the BIND button on the receiver.
4. While holding the BIND button, turn ON the transmitter.
5. Release the BIND button on the receiver once the receiver's LED turns solid, indicating a successful bind.
6. Test all controls to confirm proper function.

Figure 6: Receiver Bind Button Location

5. Operating Instructions

5.1 Powering On/Off

1. To power ON the transmitter, press the POWER button. The LED indicator will light up.
2. To power OFF the transmitter, press and hold the POWER button until the LED indicator turns off.

5.2 Basic Controls

- **Steering Wheel (CH1):** Rotate left or right to control the steering of your RC model.
- **Throttle Trigger (CH2):** Pull to accelerate forward, push to brake or reverse.

5.3 Trim Adjustments

- **ST.TRIM (Steering Trim):** Adjusts the neutral position of the steering. Use if the model pulls to one side when the steering wheel is centered.
- **TH.TRIM (Throttle Trim):** Adjusts the neutral position of the throttle. Use if the model moves slightly forward or backward when the throttle trigger is centered.

5.4 Dual Rate (D/R)

- **ST D/R (Steering Dual Rate):** Adjusts the maximum steering angle. Lower settings reduce sensitivity, higher settings increase it.
- **TH D/R (Throttle Dual Rate):** Adjusts the maximum throttle output. Lower settings reduce maximum speed, higher settings increase it.

5.5 Reverse Switches

- **ST.REV (Steering Reverse):** Reverses the direction of the steering servo. Use if steering is opposite to desired input.
- **TH.REV (Throttle Reverse):** Reverses the direction of the throttle channel. Use if throttle is opposite to desired input.

5.6 Channel Functions (CH3-CH7)

Channels 3 through 7 are typically controlled by the rotary knobs on the transmitter. These can be assigned to various auxiliary functions on your RC model, such as gear shifting, auxiliary steering, or other accessories. Refer to your RC model's manual for specific channel assignments.

5.7 Proportional Trigger Limit Setting

This feature allows you to limit the maximum throttle output, making it easier for beginners to control the model. Consult the transmitter's specific settings (often via the SET button or a dedicated dial) to adjust this limit.

5.8 Low Voltage Indication

The transmitter's LED indicator will flash slowly when the battery voltage drops below 4.2V. Replace the AA batteries immediately to avoid loss of control.

6. Advanced Functions

6.1 Mixed Control Function

The mixed control function allows you to link multiple channels on the receiver to a single control input on the transmitter. This enables synchronized operation of multiple functions. For example, you could control two steering servos with a single steering input. To activate and configure mixed mode:

1. Ensure the transmitter is in General Mode (factory default).
2. Press the MIX/LED button to switch to Mixed Mode. The LED indicator will change (e.g., from solid blue to solid green, or a different flash pattern).
3. Refer to the specific instructions for your model and desired mix configuration.

Figure 7: Transmitter in General Mode

Figure 8: Transmitter in Mixed Mode

6.2 Light Control System

The RX-G7X receiver includes dedicated ports for the 12LED light set, allowing remote control of various lighting functions. The MIX/LED button on the transmitter can also cycle through different light modes or turn lights on/off, depending on the specific configuration.

- **FL (Flash lights):** Connect flashing lights here.

- **HL (Head lights):** Connect headlights here.
- **PL (Park lights):** Connect parking lights here.
- **BL (Backup lights):** Connect backup lights here.
- **CL-R (Right Cornering Light):** Connect right cornering light here.
- **CL-L (Left Cornering Light):** Connect left cornering light here.

6.3 Winch Control

The receiver features a dedicated winch slot (M1+) for connecting and controlling an RC winch. This function is typically controlled by one of the auxiliary channels (CH3-CH7) on the transmitter, depending on your setup.

Figure 9: Receiver Winch Port

7. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the transmitter and receiver. Avoid using solvents or harsh chemicals.
- **Storage:** Store the transmitter and receiver in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries from the transmitter if storing for extended periods.
- **Inspection:** Regularly check all wires and connectors for damage or loose connections.

8. Troubleshooting

Problem	Possible Cause	Solution
Transmitter does not power on.	Dead or incorrectly installed batteries.	Replace with fresh AA batteries, ensuring correct polarity.
No control over RC model.	Not bound, receiver not powered, or signal interference.	Perform binding procedure. Check receiver power. Move to an area with less interference.
Model moves erratically or loses signal.	Low transmitter battery, range exceeded, or strong interference.	Check transmitter battery level (LED indicator). Operate within recommended range. Avoid areas with strong Wi-Fi or other 2.4GHz devices.
Steering/Throttle is reversed.	Reverse switch incorrectly set.	Adjust the ST.REV or TH.REV switch on the transmitter.
Lights or winch not functioning.	Incorrect connection, faulty component, or incorrect transmitter setting.	Verify connections to receiver light/winch slots. Check light set and winch for damage. Ensure correct channel assignment on transmitter.

Problem	Possible Cause	Solution
Transmitter shuts off randomly.	Low battery voltage or internal fault.	Replace batteries. If problem persists, contact customer support.

9. Specifications

- **Model Number:** NB-7D
- **Channels:** 7
- **Frequency:** 2.4GHz
- **Transmitter Power:** 4x AA Batteries (not included)
- **Receiver Voltage:** 4.2-10V (High Voltage Servo Compatible)
- **Product Dimensions (Transmitter):** 5.7 x 2.36 x 7.79 inches (143mm x 90mm x 192mm)
- **Item Weight:** 11.2 ounces
- **Recommended Age:** 6 years and up