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Perfeclan GS-132T, GS-132R

Perfeclan 27MHz 6-Channel RC Transmitter and Receiver Board Set

Models: GS-132T (Transmitter), GS-132R (Receiver)

Introduction

This manual provides comprehensive instructions for the Perfeclan 27MHz 6-channel transmitter and receiver board set, designed for remote control (RC) hobby vehicles and do-it-yourself (DIY) car crawler projects. This set enables remote control of motor movement and other functions, serving as a replacement or upgrade component for compatible RC models.

Safety Information

- Handle electronic components with care to avoid physical damage or electrostatic discharge.
- Ensure correct polarity when connecting power sources to prevent short circuits and component damage.
- Keep all components away from water, moisture, and extreme temperatures to prevent malfunction or damage.
- This product is intended for users aged 36 months and above. Adult supervision is recommended during installation and operation, especially for younger users.
- Do not attempt to modify the circuit boards beyond their intended use, as this may void any implied warranty and could cause damage.

Package Contents

The package includes the following components:

- 1 x Transmitter Board (Model: GS-132T)
- 1 x Receiver Board (Model: GS-132R)
- 2 x Antennas
- Connecting Wires (pre-attached or included for connection)

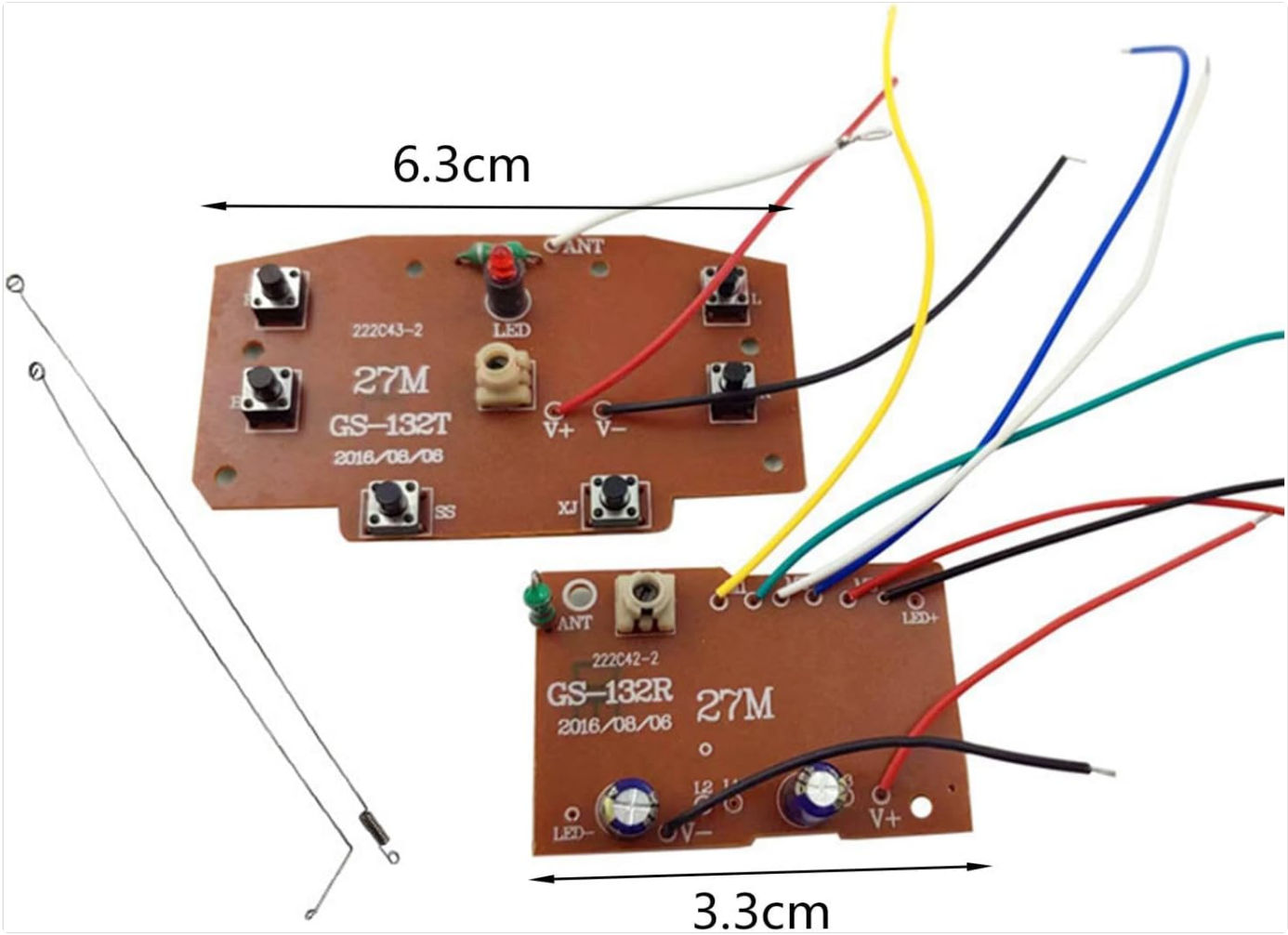


Image showing the complete package contents: one transmitter board, one receiver board, two antennas, and various connecting wires.

Specifications

Feature	Detail
Frequency	27MHz
Channels	6-Channel
Material	Copper (PCB)
Transmitter Board Dimensions	Approx. 6.3 cm x 2.8 cm (2.48 in x 1.10 in)
Receiver Board Dimensions	Approx. 4 cm x 2 cm (1.57 in x 0.79 in)
Recommended Minimum Age	36 Months

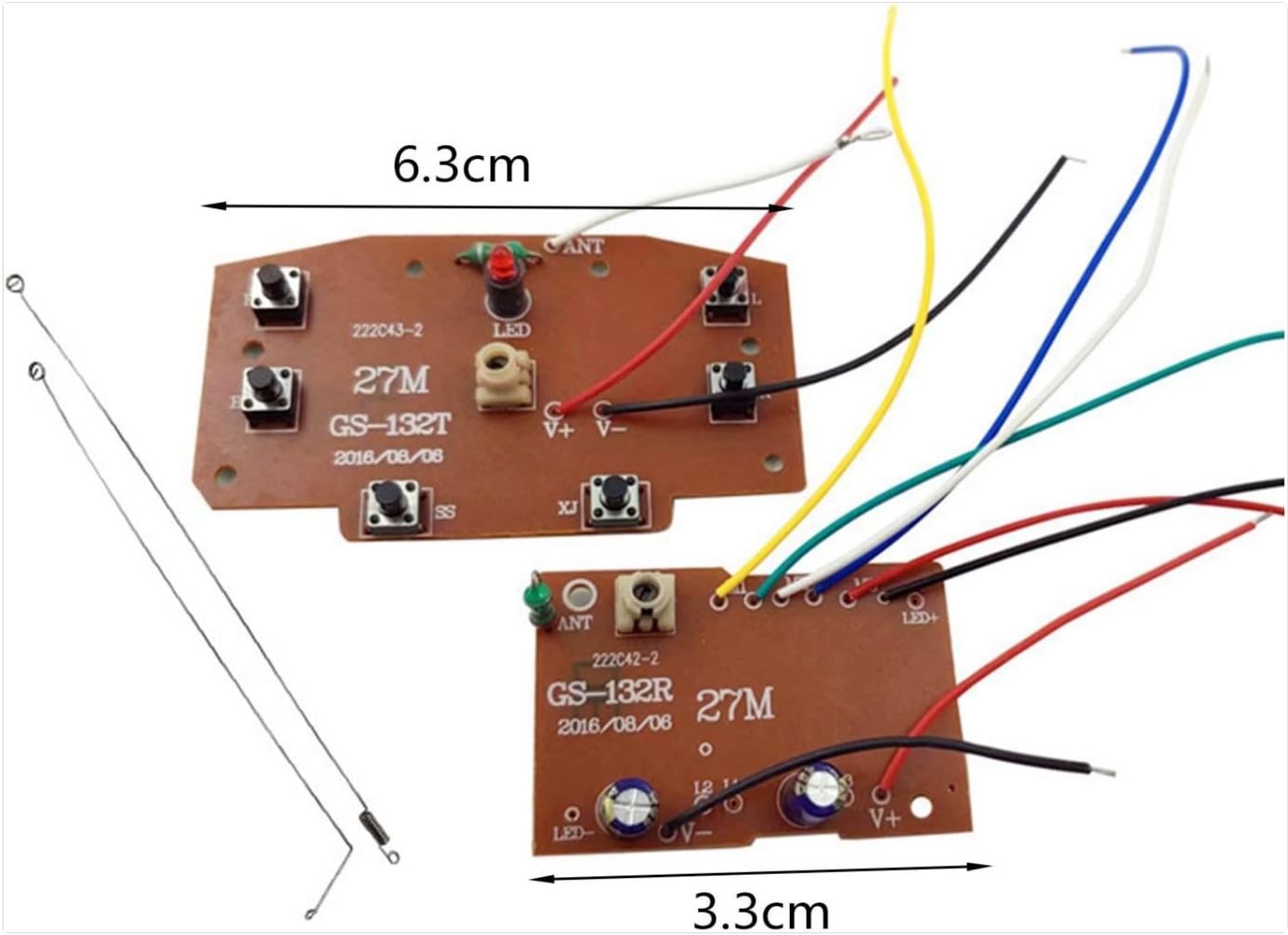


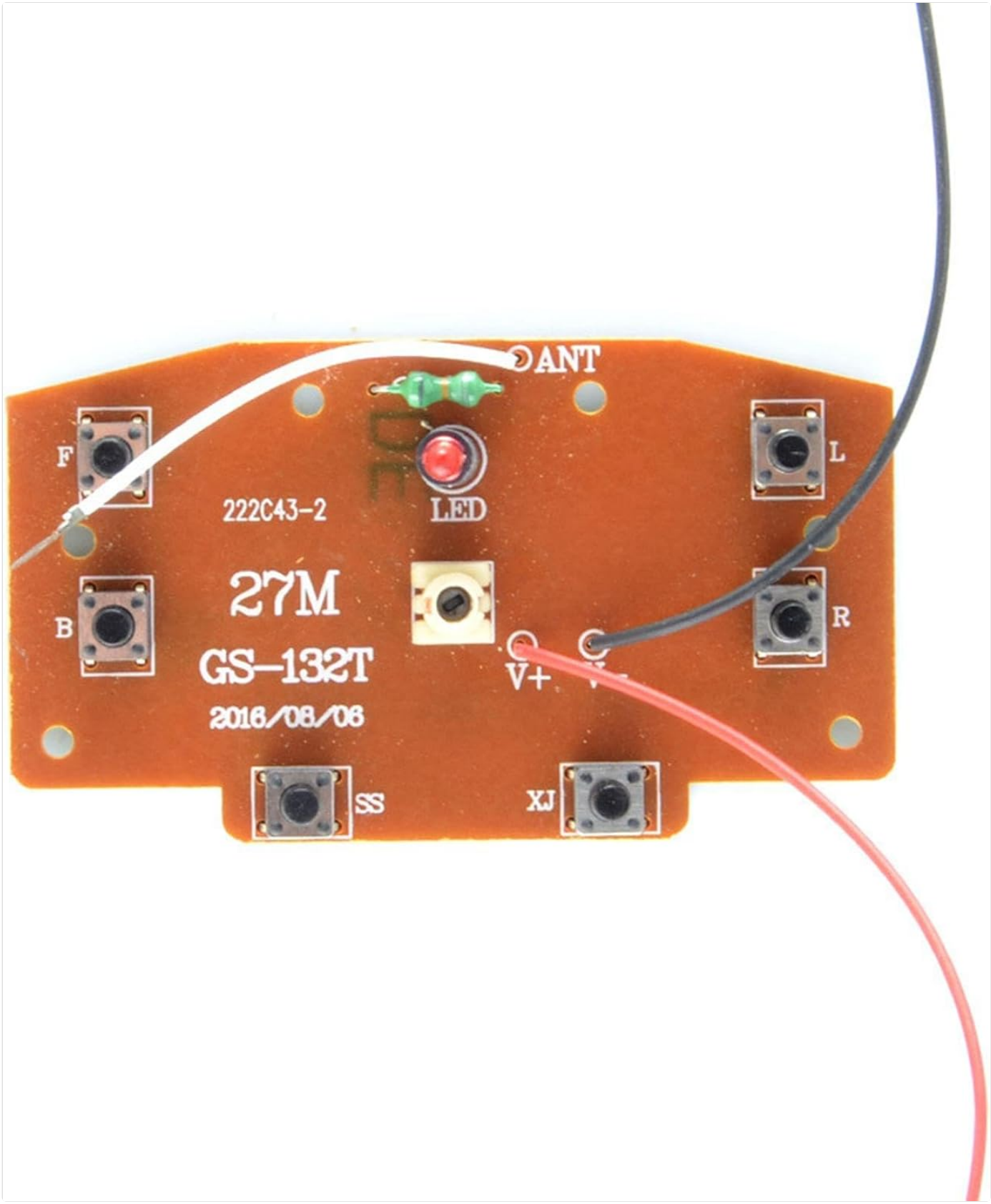
Image illustrating the length of the transmitter board (6.3 cm) and the receiver board (3.3 cm). Refer to the specifications table for full dimensions.

Setup and Installation

This section details the connection process for the transmitter and receiver boards. Ensure all connections are secure and correctly polarized before applying power.

Transmitter Board (GS-132T)

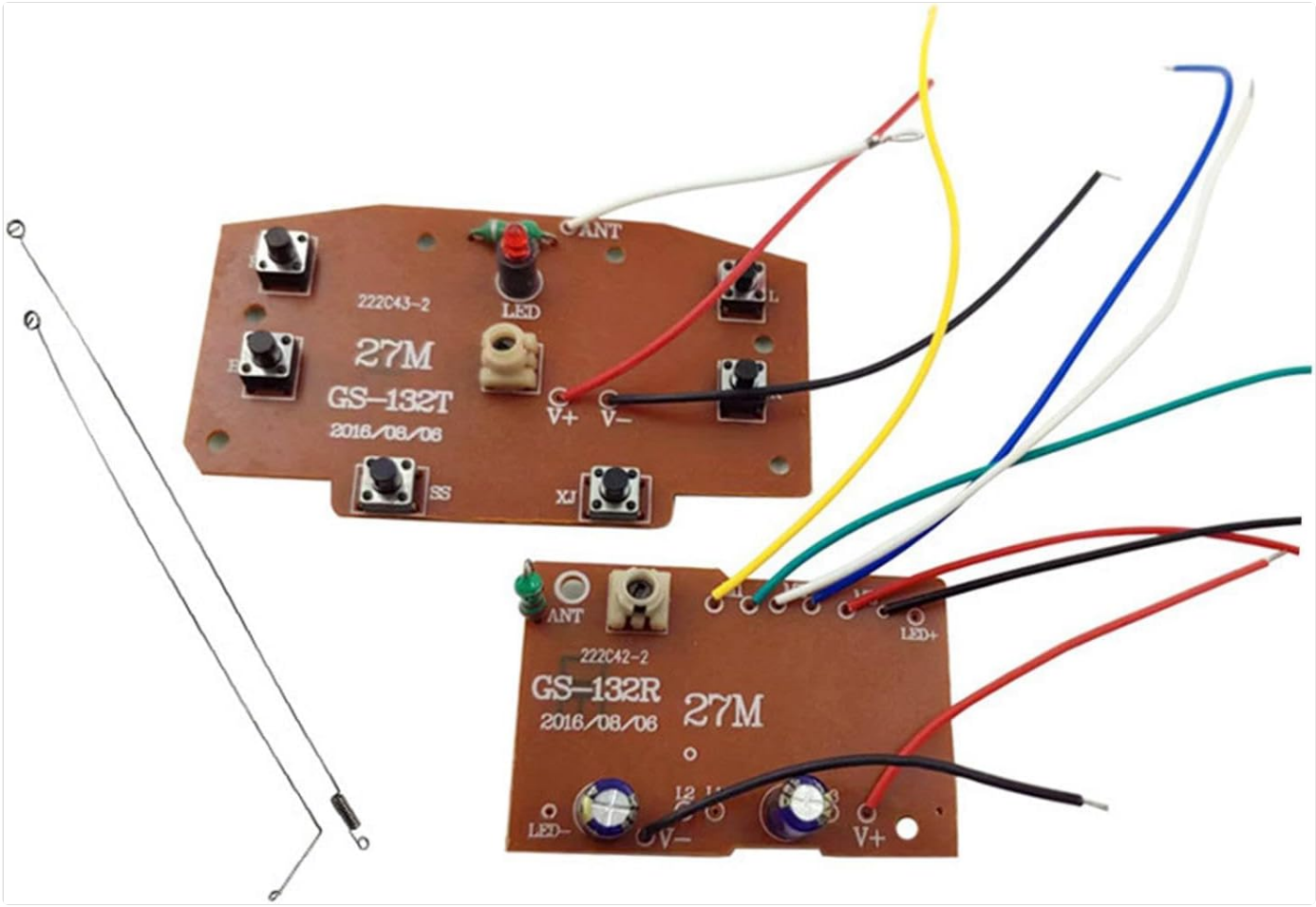
The transmitter board features 6 momentary buttons for controlling motor direction and other functions. It includes designated connections for power (V+, V-) and an antenna (ANT).



Close-up view of the GS-132T transmitter board, showing the six control buttons (F, B, L, R, SS, XJ), LED indicator, antenna connection (ANT), and power input (V+, V-).

Receiver Board (GS-132R)

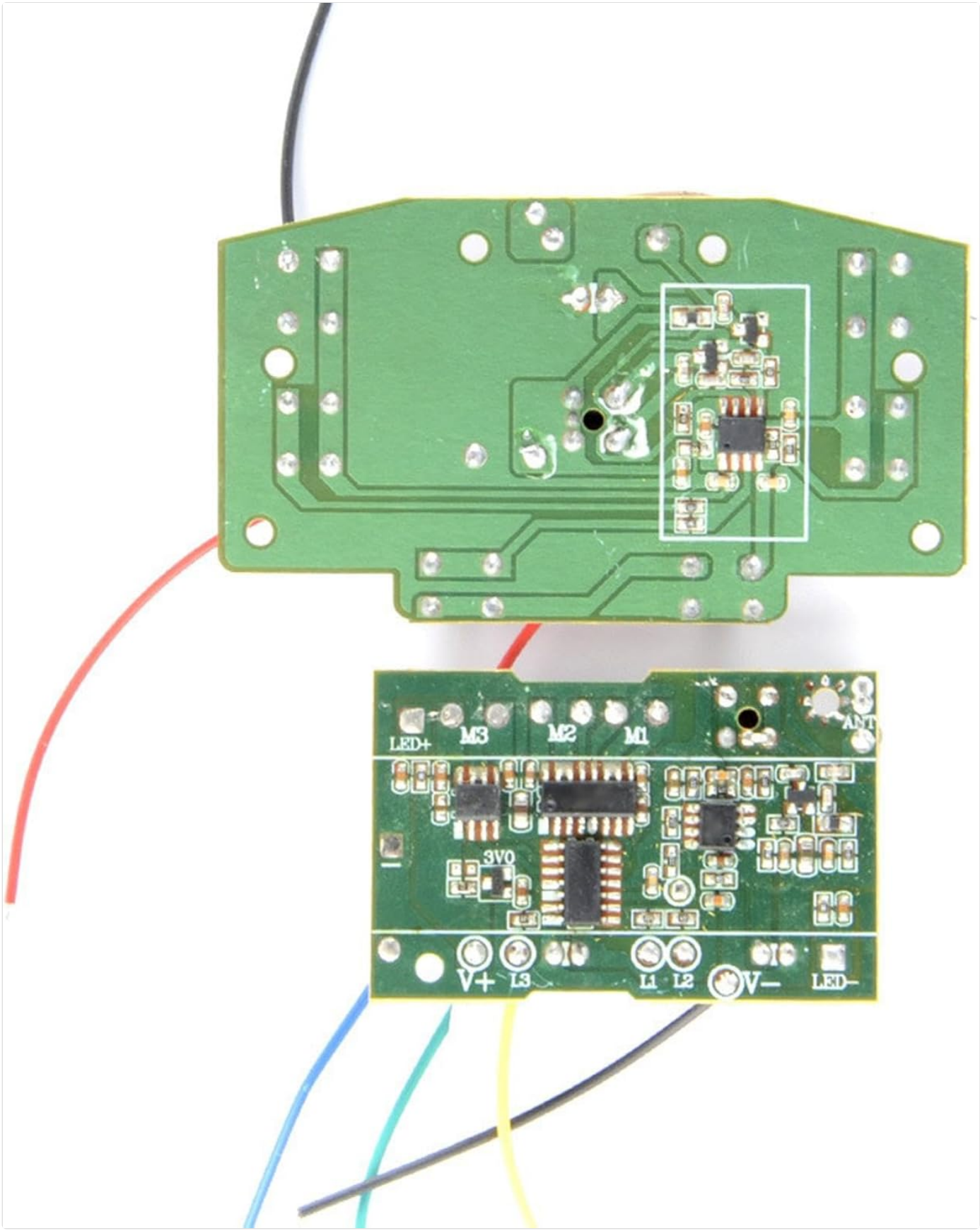
The receiver board connects to the motors and power source of your RC vehicle. It provides outputs for motor control (e.g., L1, L2, and other unlabeled points) and an antenna input (ANT).



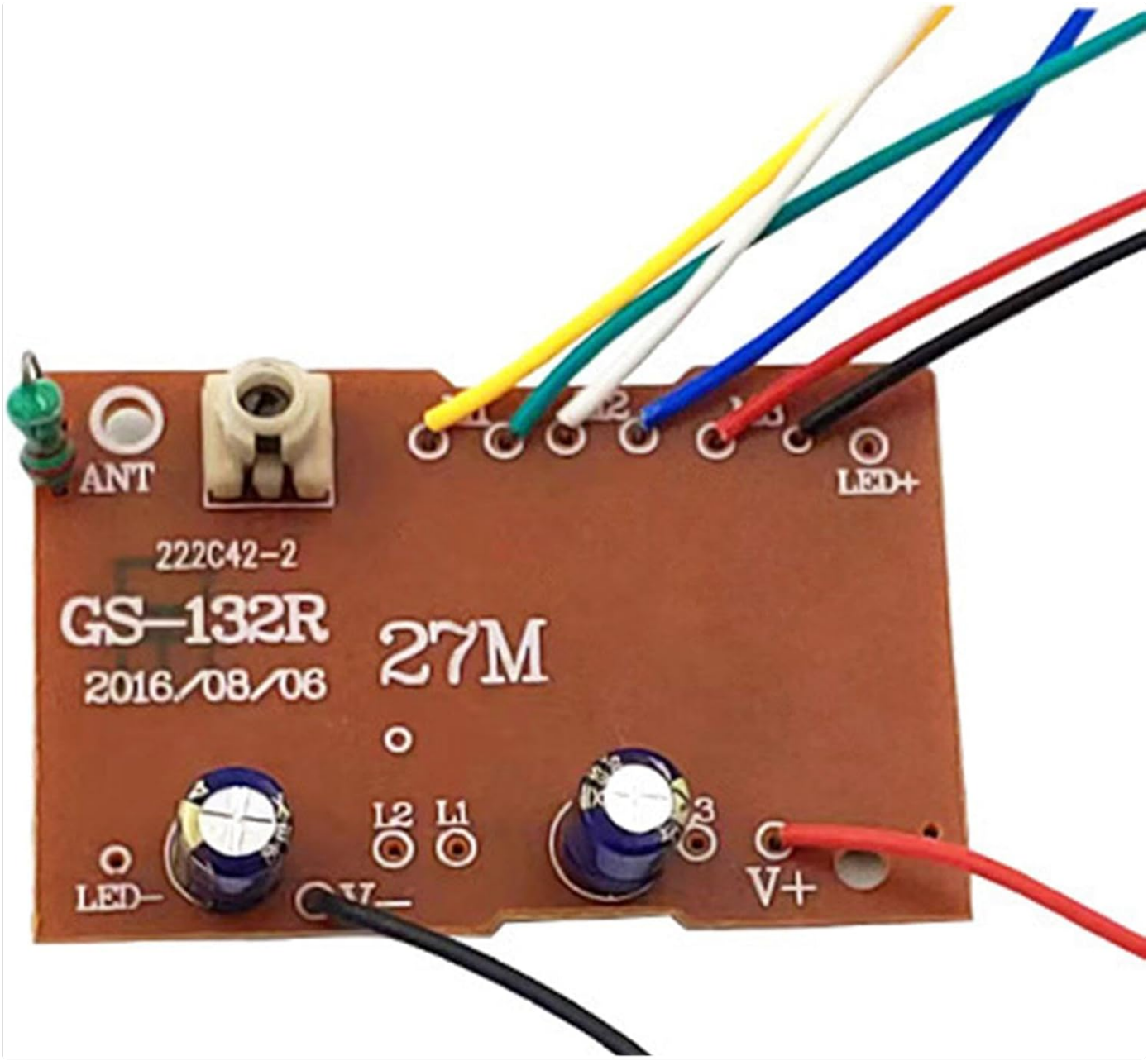
Close-up view of the GS-132R receiver board, showing connections for power (V+, V-), LED indicators (LED+, LED-), antenna (ANT), and motor outputs (L1, L2, and other unlabeled points).

Wiring Diagram (General Guidance)

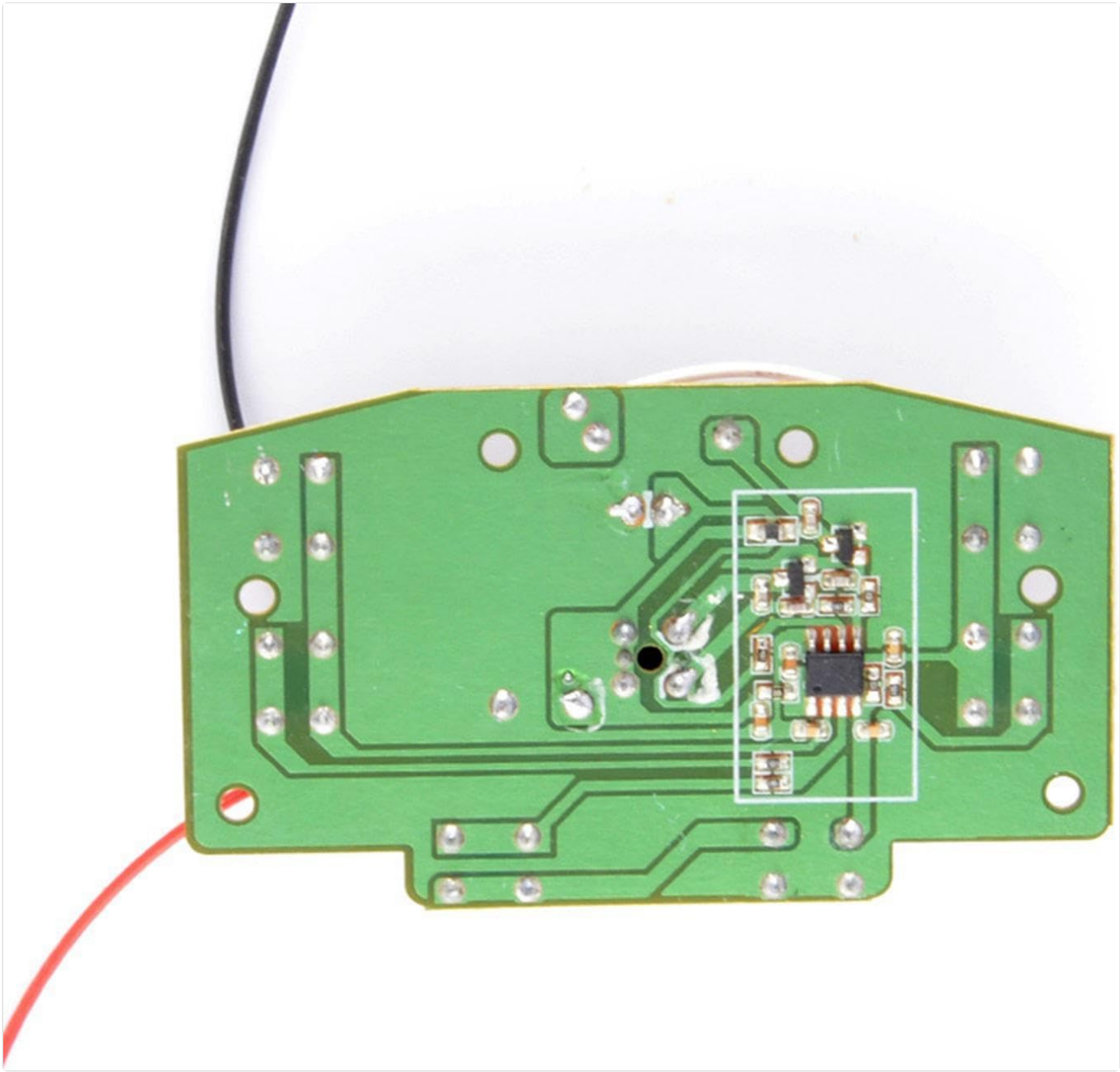
Connect your power source to the V+ and V- terminals on both the transmitter and receiver boards, ensuring correct polarity. Attach the provided antennas to the ANT terminals on each board. The receiver board's motor outputs should be connected to your RC vehicle's motors. The specific wiring for motor control will depend on your vehicle's configuration and the type of motors used.



An overhead view showing both the transmitter and receiver boards with various wires connected, illustrating typical wiring for power, control, and antenna.



Underside view of the receiver board, showing the circuit board traces and components. This view is for reference during installation or repair.



Underside view of the transmitter board, showing the circuit board traces and components. This view is for reference during installation or repair.

Operating Instructions

Once the boards are correctly installed and powered, follow these steps to operate your RC vehicle:

1. Ensure the receiver board in your RC vehicle is powered on.
2. Power on the transmitter board. The LED indicator on the transmitter should illuminate, indicating it is active.
3. Use the six momentary buttons on the transmitter to control the corresponding functions on your RC vehicle. These buttons are typically mapped to control motor movement directions (e.g., Forward, Backward, Left, Right) and potentially other auxiliary functions depending on your vehicle's setup.
4. Observe the vehicle's response to ensure proper communication and control.

Maintenance

- Keep the circuit boards clean and free from dust, dirt, and debris. Use a soft, dry brush or compressed air for

cleaning.

- Avoid exposing the components to moisture, liquids, or corrosive substances, which can cause irreversible damage.
- Regularly inspect all wire connections for looseness, fraying, or damage. Secure or replace any compromised wiring.
- Store the transmitter and receiver set in a dry, cool environment when not in use to prolong its lifespan.

Troubleshooting

- **No Power:**
  - Check all battery connections and ensure they are secure.
  - Verify that the power source (e.g., batteries) is adequately charged and correctly installed with proper polarity.
- **No Response from Vehicle:**
  - Ensure both the transmitter and receiver boards are powered on.
  - Check the antenna connections on both boards to ensure they are securely attached.
  - Verify that the transmitter and receiver are operating on the same 27MHz frequency.
  - Ensure all motor connections on the receiver board are secure and correctly wired to the motors.
  - Confirm that the range between the transmitter and receiver is not exceeded.
- **Erratic Control or Intermittent Operation:**
  - Check for potential interference from other 27MHz devices operating nearby.
  - Ensure both antennas are fully extended and unobstructed.
  - Verify all wiring is secure and that there are no loose connections or accidental short circuits.
  - Low battery power in either the transmitter or receiver can cause erratic behavior.

Warranty and Support

Specific warranty information for this Perfeclan product is not provided in the available documentation. For product support, technical assistance, or further inquiries, please contact your retailer or the manufacturer, Perfeclan, directly. Please have your product model numbers (GS-132T, GS-132R) and ASIN (B0C868F9ZL) available when contacting support.

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