

TAMIYA TMYTAM53909

Tamiya LED Light Unit (TLU-01) Instruction Manual

1. INTRODUCTION

The Tamiya LED Light Unit (TLU-01) is an accessory designed to integrate realistic lighting into your remote-controlled vehicle models. This unit provides power and control for multiple LED light strings, enhancing the visual appeal and operational realism of your RC car, truck, or other vehicle. It is ideal for hobbyists looking to add functional headlights, taillights, and other auxiliary lighting.

2. SAFETY INFORMATION

- Always disconnect power from the RC vehicle before performing any installation, maintenance, or adjustments to the TLU-01 unit or connected LEDs.
- Keep the unit and all components away from water, moisture, and extreme temperatures to prevent damage or malfunction.
- Ensure correct polarity when connecting LED lights to the TLU-01 unit. Incorrect polarity will prevent the LEDs from illuminating and may cause damage.
- This product contains small parts and is not suitable for children under 4 years of age due to potential choking hazards.
- Do not attempt to modify the TLU-01 unit or its components, as this may void any implied warranty and could lead to damage or unsafe operation.

3. PACKAGE CONTENTS

Verify that all the following items are included in your package:

- 1x Tamiya LED Light Unit (TLU-01)
- 2x White LED Lights
- 2x Red LED Lights
- 1x Tamiya Male to Female Adapter with Power Leads
- Double-sided Tape for mounting
- Metal Clips for wire management

4. SETUP AND INSTALLATION

1. **Mounting the TLU-01 Unit:** Select a suitable, secure location within your RC vehicle's chassis. Use the provided double-sided tape to firmly attach the TLU-01 unit. Ensure the location allows for easy access to wiring ports and does not interfere with moving parts.
2. **Connecting Power:** Connect the Tamiya male-to-female adapter to your Electronic Speed Control (ESC) or receiver's power source. This adapter allows the TLU-01 to draw power independently, ensuring stable operation without impacting the performance of other electronic components.
3. **Connecting LEDs:**
 - Connect the two white LEDs to the designated headlight ports on the TLU-01 unit.
 - Connect the two red LEDs to the designated taillight ports on the TLU-01 unit.
 - **Important:** Observe correct polarity for all LED connections. LEDs will not illuminate if connected with reverse polarity.
4. **Wire Management:** Route all LED wires neatly and securely using the provided metal clips. This prevents wires from becoming entangled in moving parts, reduces wear, and maintains a clean appearance.
5. **Adding Additional LEDs (Optional):** The TLU-01 unit supports up to 6 additional sets of LEDs. Connect these to the available auxiliary ports, ensuring that the total current draw does not exceed the unit's specified limits. Refer to the specifications section for details.

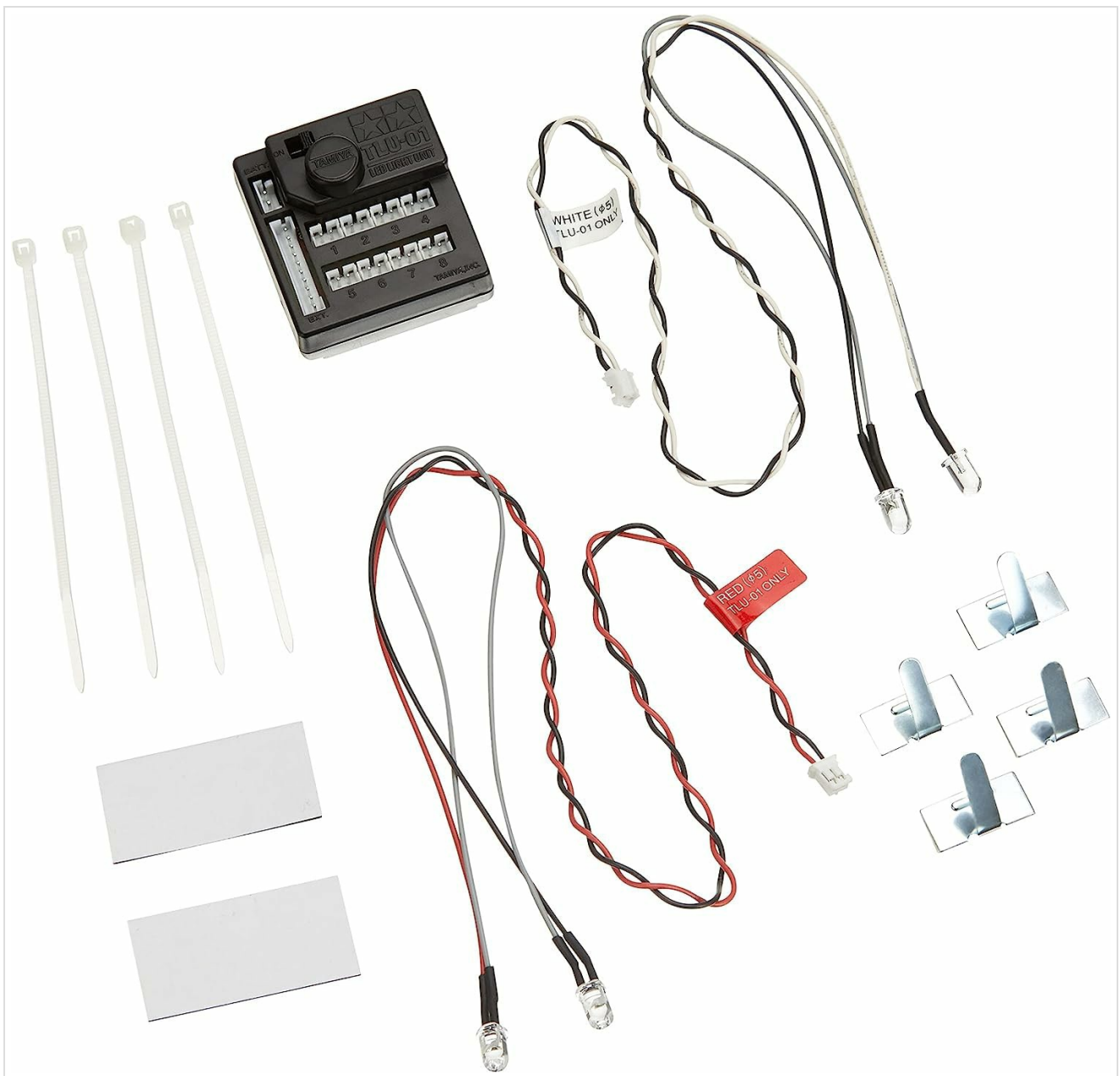


Figure 1: Tamiya LED Light Unit (TLU-01) and included components, illustrating the main unit, white LEDs, and red LEDs.

5. OPERATING INSTRUCTIONS

Once the TLU-01 unit and LEDs are correctly installed and connected, operating the lighting system is straightforward:

1. **Power On:** Turn on your RC vehicle's main power supply.
2. **Automatic Activation:** The TLU-01 unit is designed for automatic operation. The connected LED lights will illuminate automatically when the unit receives power.
3. **Enjoy:** Your RC vehicle is now equipped with functional and realistic lighting.

6. MAINTENANCE

To ensure the longevity and optimal performance of your Tamiya LED Light Unit (TLU-01), follow these maintenance guidelines:

- **Regular Inspection:** Periodically inspect all wiring, connections, and the TLU-01 unit itself for any signs of damage, wear, or loose connections.

- **Cleanliness:** Keep the unit and LEDs free from dust, dirt, and debris. Use a soft, dry cloth for cleaning. Avoid using solvents or harsh chemicals.
- **Secure Mounting:** Ensure that the TLU-01 unit and all connected LEDs remain securely mounted within the vehicle to prevent damage from vibrations or impacts during operation.
- **Wire Protection:** Check that all wires are still properly routed and secured, preventing them from being pinched, cut, or snagged by moving parts.

7. TROUBLESHOOTING

If you encounter issues with your Tamiya LED Light Unit, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
LEDs do not illuminate.	No power to TLU-01 unit. Incorrect LED polarity. Damaged LED or wiring. Insufficient power from source.	Check all power connections to the TLU-01 unit and the RC vehicle's main power. Verify that each LED is connected with the correct positive (+) and negative (-) polarity. Inspect LED wires for breaks or shorts. Test individual LEDs if possible. Ensure the RC vehicle's battery is fully charged and providing adequate power.
LEDs are flickering.	Loose connection. Unstable power supply.	Check all connections to ensure they are secure. Verify the stability of the power source.
Only some LEDs are working.	Faulty LED. Incorrect connection/polarity for specific LED.	Isolate and test the non-working LEDs. Replace if faulty. Re-check connections and polarity for the affected LEDs.

8. SPECIFICATIONS

Brand	TAMIYA
Model Number	TMYTAM53909
UPC	885176467716
Power Source	Battery Powered
Operation Mode	Automatic
Material Type	Plastic
Item Weight	0.13 Pounds (approx. 59 grams)
Unit Dimensions	40mm x 43mm x 21mm
Manufacturer Minimum Age	48 Months (4 Years)

9. WARRANTY AND SUPPORT

Warranty: This product is sold without a manufacturer's warranty. Please refer to the retailer's return policy for details regarding returns or exchanges.

Customer Support: For technical assistance, product inquiries, or further information, please visit the official Tamiya website or contact your local Tamiya distributor. You can find contact details on the official Tamiya website: www.tamiya.com

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question