

Nilight TL-179

Nilight Motorcycle LED Turn Signal and Brake Tail Light (Model TL-179) User Manual

This manual provides instructions for the installation, operation, and maintenance of your Nilight Motorcycle LED Turn Signal and Brake Tail Lights.

1. INTRODUCTION

Thank you for choosing the Nilight Motorcycle LED Turn Signal and Brake Tail Lights. These compact yet powerful lights are designed to enhance visibility and safety for your motorcycle. Featuring a durable construction and versatile wiring, they serve as turn signals, brake lights, and tail lights, providing clear indication to other road users. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.



Figure 1: Nilight Motorcycle LED Turn Signal and Brake Tail Lights, illustrating red and amber light functions.

2. SAFETY INFORMATION

- **Professional Installation Recommended:** If you are not experienced with motorcycle electrical systems, it is highly recommended to have these lights installed by a qualified professional.
- **Electrical Safety:** Always disconnect the motorcycle's battery before performing any electrical work to prevent short circuits or electrical shock.
- **Wiring:** Ensure all wiring connections are secure and properly insulated to prevent corrosion and electrical issues.
- **Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. Wash hands after handling.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 2 x Nilight LED Turn Signal Lights

4. PRODUCT FEATURES

- **High Brightness:** Equipped with 4 high-power SMD LEDs per light, providing superior brightness compared to standard halogen bulbs for increased visibility.
- **Durable Construction:** Features a matte black powder-coated aluminum alloy shell and high-quality glass lens, offering resistance to corrosion and scratches.
- **Waterproof Design:** Fully sealed edges ensure good water resistance, making them suitable for various outdoor conditions.
- **Multi-Functionality:** Capable of functioning as turn signals (amber), brake lights (red), and running/tail lights (red or amber, depending on wiring).
- **Wide Compatibility:** Universal fit for 12V DC motorcycles, scooters, cruisers, and other vehicles with an 8mm mounting bolt.



Figure 2: Detailed view of light components and construction.

5. SPECIFICATIONS

| Attribute | Value |
|----------------------|---|
| Brand | Nilight |
| Model Number | TL-179 |
| Color | Motorcycle Turn Signal Light Red/Amber |
| Specific Uses | Brake Lights, Rear Lights, Turn Signals |
| Vehicle Service Type | Motorcycle |
| Wattage | 1.5 watts |
| Auto Part Position | Front, Rear |
| Lens Color | Transparent |
| Lens Material | Glass |
| Item Weight | 3.2 ounces |
| Package Dimensions | 2.91 x 2.48 x 1.65 inches |
| Special Features | Dustproof, High Beam, Lightweight, Shockproof, Waterproof |
| UPC | 840323910590 |

PRODUCT SIZE



Figure 3: Product dimensions for installation planning.

6. SETUP AND INSTALLATION

These lights are designed for straightforward installation on most motorcycles with an 8mm mounting bolt. Follow these steps carefully:

- 1. Preparation:** Ensure the motorcycle's ignition is off and the battery is disconnected before starting any electrical work.
- 2. Mounting:**
 - If your motorcycle has existing 8mm mounting bolts for blinkers, remove the original lights.
 - Insert the new Nilight LED Turn Signal Light into the existing mounting hole. Secure it with the provided nut.
 - If no suitable hole exists, drill an 8mm hole at the desired mounting location. Ensure the location provides clear visibility and does not interfere with other motorcycle components.
- 3. Wiring Connections:** The lights come with a 3-wire setup. Refer to the diagram below for correct connections:

- **Black Wire:** Connect to the motorcycle's **Ground (-)**.
- **Red Wire:** Connect to the motorcycle's **Brake Light (+)** or **Daytime Running Light (+)** circuit.
- **Yellow Wire:** Connect to the motorcycle's **Running Light (+)** or **Tail Light (+)** circuit.

Note: For turn signal functionality, the yellow wire will typically connect to the turn signal circuit, and the red wire to the brake circuit. If using as a combined running/brake/turn signal, consult a professional or your motorcycle's wiring diagram.

4. **Secure Connections:** Use appropriate electrical connectors (e.g., crimped butt connectors with heat shrink) to ensure secure and weather-resistant connections.
5. **Test Functionality:** Reconnect the battery and test all light functions (turn signals, brake lights, running lights) before riding.



Figure 4: Wiring diagram for Nilight LED Turn Signal Lights.

Important Tip: Most modern motorcycles have LED-compatible turn signal relays. However, some older models may require a load resistor (not included) to prevent hyper-flashing or incorrect signal operation. If you experience rapid flashing, a load resistor may be necessary.

7. OPERATING INSTRUCTIONS

Once properly installed and wired, the Nilight LED Turn Signal and Brake Tail Lights operate in conjunction with your motorcycle's existing electrical system:

- **Turn Signals:** When the turn signal switch is activated, the corresponding light will flash amber, indicating your intended direction.
- **Brake Lights:** When the brake lever or pedal is engaged, the lights will illuminate red, signaling deceleration or stopping.
- **Running/Tail Lights:** When your motorcycle's lights are on, the lights will illuminate red (or amber, depending on wiring) as a constant running light, increasing your visibility to others.



Figure 5: Lights installed on a motorcycle, demonstrating their function.

8. MAINTENANCE

To ensure optimal performance and longevity of your Nilight LED Turn Signal and Brake Tail Lights, follow these

simple maintenance guidelines:

- **Cleaning:** Clean the light lenses periodically with a soft cloth and mild soap and water. Avoid abrasive cleaners or solvents that could damage the lens material.
- **Inspection:** Regularly inspect the lights for any signs of damage, loose connections, or corrosion. Ensure the mounting bolts are tight.
- **Water Resistance:** While the lights are designed to be waterproof, avoid directing high-pressure water jets directly at the lights during washing, especially at the wiring entry points.

WIDE COMPATIBILITY

“NOT LIMITED TO:

✓ Harley street glide softail road glide sportster

✓ Honda gl1800 vt600c vt750c2b

✓ Kawasaki en500, suzuki m109r

✓ Triumph bonneville thunderbird

✓ Yamaha roadstar

✓ Suzuki Boulevard S40 (LS650)

⚠ **About relay:** most models have LED compatible turn signal relay, for a few special models (old models) need Load Resistor to help the signal flash.



Figure 6: The waterproof design ensures durability in various weather conditions.

9. TROUBLESHOOTING

If you encounter issues with your Nilight LED Turn Signal and Brake Tail Lights, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
|---------|----------------|----------|

| Problem | Possible Cause | Solution |
|--|--|--|
| Lights not illuminating | Loose or incorrect wiring connection, blown fuse, faulty light unit. | Check all wiring connections for security and correct polarity. Inspect motorcycle fuses. If connections are correct and fuse is good, the light unit may be faulty. |
| Turn signals flash too fast (hyper-flashing) | Motorcycle's flasher relay is designed for higher resistance incandescent bulbs; LED lights draw less current. | Install an LED-compatible flasher relay or a load resistor (not included) in parallel with each turn signal light. |
| Lights are dim or inconsistent | Poor ground connection, insufficient power supply, corrosion on terminals. | Ensure a clean and secure ground connection. Check voltage at the light. Clean any corroded terminals. |
| One light works, the other does not | Faulty wiring to the non-working light, faulty light unit. | Check wiring specific to the non-working light. Swap light units to determine if the light itself is faulty. |

10. WARRANTY AND SUPPORT

Nilight products are manufactured to high-quality standards. For specific warranty information, please refer to the product packaging or the official Nilight website. If you require technical assistance or have questions regarding your product, please contact Nilight customer support through their official channels or visit their brand store:

Visit the Nilight Brand Store

11. PRODUCT VIDEOS

No official product videos from the seller were found for this specific model at this time.

