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› Universal Motorcycle Handguards with LED Lights User Manual

DUILU US-MTHS0405

Universal Motorcycle Handguards with LED Lights

USER MANUAL

Model: US-MTHS0405 | Brand: DUILU

1. Introduction

Thank you for choosing the DUILU Universal Motorcycle Handguards with LED Lights. These handguards are designed to provide enhanced protection for your hands from wind, debris, and minor impacts, while also increasing your visibility on the road with integrated LED running lights and turn signals. This manual provides detailed instructions for installation, operation, and maintenance to ensure optimal performance and longevity of your product.

2. Package Contents

Please verify that all components listed below are included in your package:

- 2 x Motorcycle Handguards with integrated LED lights
- 2 x Handlebar End Plugs/Mounting Inserts
- 2 x Mounting Brackets (L-shaped metal plates)
- 2 x Long Mounting Bolts
- 2 x Short Mounting Bolts
- 4 x Nuts
- 4 x Washers



Figure 2.1: Complete package contents of the handguards and mounting hardware.

3. Specifications

Brand	DUILU
Model Number	US-MTHS0405
Material	Plastic
Compatibility	Universal for 7/8" (22mm) handlebars
Vehicle Service Type	Dirt Bike, Street Bike, Motocross, Scooter
LED Functionality	Running Lights (White), Turn Signals (Amber)
Package Dimensions (L x W x H)	11.54 x 8.43 x 6.26 inches
Package Weight	0.48 Kilograms



Figure 3.1: Detailed dimensions of the handguards and mounting hardware.

4. Installation/Setup

Before beginning installation, ensure your motorcycle's engine is off and the battery is disconnected for safety. This product is designed for universal fit on 7/8" (22mm) handlebars.

1. **Prepare Handlebars:** If your handlebars have existing bar-end weights or plugs, remove them. Ensure the inside of the handlebar is clear for the expansion inserts.
2. **Assemble Mounting Brackets:** Attach the L-shaped metal mounting brackets to the handguards using the provided short mounting bolts, nuts, and washers. Ensure they are securely fastened but allow for slight adjustment.
3. **Insert Handlebar Plugs:** Insert the expansion handlebar end plugs into the open ends of your motorcycle's handlebars.
4. **Mount Handguards:** Align the handguards with the handlebar ends and the expansion plugs. Use the long mounting bolts to secure the handguards to the expansion plugs. Tighten gradually, ensuring the handguards are positioned correctly to

protect your hands and levers without obstructing controls.

5. **Secure Inner Mount:** Attach the inner part of the handguard's mounting bracket to a suitable point on your handlebar, typically near the controls, using the remaining hardware. Adjust the angle and position for optimal coverage and comfort.

6. **Wiring the LED Lights:**

- Identify the wiring from each handguard. There are typically three wires: one for ground (usually black), one for the running light (often white or blue), and one for the turn signal (often yellow or red).
- Connect the ground wire from the handguard to a suitable ground point on your motorcycle's electrical system.
- Connect the running light wire to your motorcycle's existing running light circuit. *Note: Some users have reported the running light color to be blue. Verify local regulations regarding light colors.*
- Connect the turn signal wire to your motorcycle's corresponding left or right turn signal circuit. Ensure correct polarity.
- Secure all wiring connections with electrical tape or heat shrink tubing to prevent short circuits and protect from elements.

7. **Final Adjustment and Testing:** Once all components are mounted and wired, re-connect your motorcycle's battery. Test the running lights and turn signals to ensure they function correctly. Make any final adjustments to the handguard position for optimal fit and protection.



Figure 4.1: Rear view of the handguard illustrating wiring access.



Figure 4.2: Details of the LED strip and mounting points.

Installation and Functionality Video

This video demonstrates the functionality of the LED lights, including the white running light and amber turn signal, on the DUILU Universal Motorcycle Handguards.

5. Operating Instructions

The LED lights integrated into the handguards operate in conjunction with your motorcycle's electrical system once properly wired.

- **Running Lights:** When your motorcycle's running lights or headlights are activated, the white LEDs on the handguards will illuminate, providing additional forward visibility.
- **Turn Signals:** When you activate your motorcycle's left or right turn signal, the amber LEDs on the corresponding handguard will flash in sync with your motorcycle's existing turn signals, enhancing side visibility for lane changes and turns.



Figure 5.1: Handguard with amber turn signal activated.



Figure 5.2: Handguard with white running light activated.

6. Maintenance

Regular maintenance will help prolong the life and appearance of your handguards.

- **Cleaning:** Clean the handguards regularly with mild soap and water. Avoid abrasive cleaners or solvents that could damage the plastic or LED lenses.
- **Inspection:** Periodically check all mounting bolts and nuts to ensure they are tight. Vibrations from riding can cause fasteners to loosen over time.
- **Wiring Check:** Inspect the wiring for any signs of wear, fraying, or loose connections, especially after riding in harsh weather conditions.

7. Troubleshooting

Problem	Possible Cause	Solution
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LED lights not illuminating	Loose wiring connection, incorrect wiring, blown fuse, faulty LED.	Check all wiring connections for tightness and correct polarity. Inspect motorcycle's fuse box. If wiring is correct and fuse is good, the LED unit may be faulty.
Turn signals not flashing	Incorrect wiring to turn signal circuit, incompatible flasher relay (if applicable).	Ensure the turn signal wire is connected to the correct motorcycle turn signal wire. Some LED turn signals require an LED-compatible flasher relay to flash correctly.
Handguards feel loose	Mounting bolts are loose, handlebar inserts not fully expanded.	Tighten all mounting bolts. Ensure the handlebar end plugs are securely expanded within the handlebar.

8. Warranty and Support

Information regarding product warranty and customer support was not provided in the available product data. For any issues or inquiries, please refer to the seller's contact information on the original purchase platform or the DUILU brand website if available.

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