Motogadget MG4002040

Motogadget M-Unit Blue Digital Control and Fuse Box User Manual

Model: MG4002040

INTRODUCTION

The Motogadget M-Unit Blue is an advanced digital control unit designed for motorcycle electrical systems. It integrates fuse functions and controls various vehicle components, significantly simplifying wiring harnesses. This unit features Bluetooth Low Energy (LE) connectivity, allowing for interaction with the 'm.ride' smartphone application for setup, alarm management, fault diagnostics, and a secure Keyless Go function.

SAFETY INFORMATION

Always disconnect the battery before installing or performing maintenance on the M-Unit Blue. Ensure all connections are secure and properly insulated to prevent short circuits. Consult a qualified technician if you are unsure about any installation steps. This device is designed for 12V DC motorcycle electrical systems. Do not expose the unit to extreme temperatures or moisture.

SETUP AND INSTALLATION

The M-Unit Blue replaces traditional relays and fuse boxes, streamlining the motorcycle's electrical system. Installation involves connecting various inputs and outputs to the motorcycle's components such as lights, horn, turn signals, and ignition. The unit is equipped with high-quality cable clamps for secure connections.

- **Wiring Diagram:** Refer to the detailed wiring diagram provided with your M-Unit Blue for specific connection points.
- **Power Connection:** Connect the main battery (BAT) and ground (GND) terminals securely.
- **Input/Output Connections:** Connect vehicle components (e.g., headlights, brake lights, turn signals, horn, ignition, start, kill switch) to their respective labeled inputs and outputs on the M-Unit Blue.
- **m.button Integration:** If using the optional m.button, connect it as per its specific instructions to further simplify handlebar wiring.

Figure 1: Top-down view of the M-Unit Blue, highlighting the various input and output terminals for electrical connections. This image shows the main layout of the unit with clearly labeled connection points for different motorcycle functions.
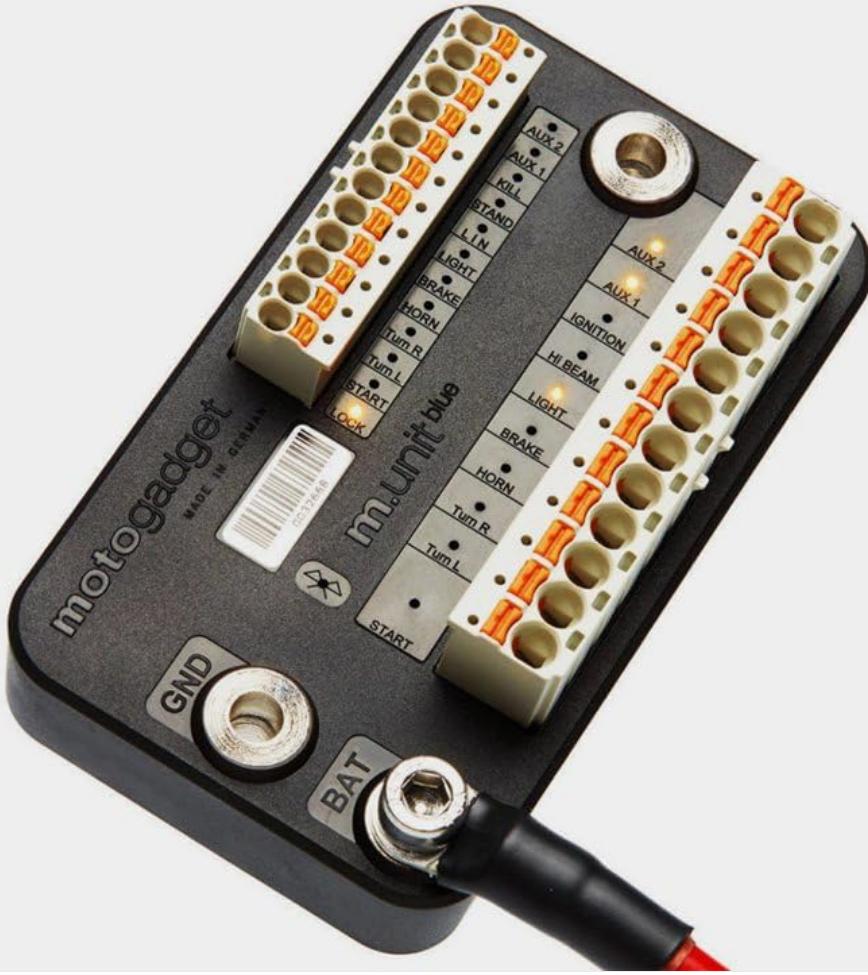
Figure 2: Angled view of the M-Unit Blue, providing a perspective on its compact design and the robust terminal blocks. This view emphasizes the overall form factor and the quality of the connection points.

OPERATING THE M-UNIT BLUE

The M-Unit Blue can be operated using traditional handlebar switches or push-buttons. Its advanced features are accessible via the 'm.ride' smartphone application.

Smartphone App Integration (m.ride)

- **Connectivity:** The M-Unit Blue connects to your smartphone via Bluetooth LE. Ensure Bluetooth is enabled on your device.
- **Setup and Configuration:** Use the m.ride app to configure various settings, including turn signal patterns, alarm system parameters, and input/output assignments.
- **Keyless Go Function:** Activate the secure, encrypted Keyless Go feature within the app. When enabled, approaching your motorcycle with your smartphone will automatically activate the electrical system, preparing the bike for start-up.
- **Diagnostics:** The app provides real-time fault diagnostics, allowing you to identify and troubleshoot issues without disassembling the unit.

MAINTENANCE

The M-Unit Blue is designed for durability and minimal maintenance. Periodically inspect all wiring connections for tightness and corrosion. Keep the unit clean and dry. Avoid using harsh chemicals for cleaning. The unit performs its own fuse functions digitally, eliminating the need for physical fuse replacement.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Unit not powering on	Loose battery connection; no power supply; internal fault.	Check battery terminals and main power wire. Verify battery voltage. Use the m.ride app for diagnostics.
Component (e.g., light) not working	Incorrect wiring; faulty component; configuration error in app.	Verify wiring to the M-Unit output. Test the component directly. Check settings in the m.ride app.
Bluetooth connection unstable	Interference; app issue; phone settings.	Ensure no strong electromagnetic interference. Restart the m.ride app and phone's Bluetooth. Update app to latest version.
Keyless Go not activating	Phone not detected; feature disabled; app not running.	Ensure m.ride app is running in the background. Check Keyless Go settings in the app. Ensure phone is within range.

For further assistance, utilize the diagnostic features within the m.ride application or contact Motogadget support.

SPECIFICATIONS

Model: MG4002040

Brand: Motogadget

Inputs: 12

Outputs: 10

Connectivity: Bluetooth LE

Material: Plastic, Metal

Item Weight: Approximately 11.2 ounces (317.5 grams)

Package Dimensions: Approximately 6.4 x 4.5 x 2 inches (16.26 x 11.43 x 5.08 cm)

Manufacturer: Motogadget

UPC: 646412603950

WARRANTY AND SUPPORT

For information regarding warranty coverage and technical support, please refer to the official Motogadget website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

Official Motogadget Website: motogadget.com

Related Documents - MG4002040

[motogadget mo.unit blue / basic Instruction Manual V3.0](#)
Comprehensive instruction manual for the motogadget mo.unit blue and mo.unit basic body control modules, detailing installation, operation, features, and technical specifications for motorcycle electrical systems.
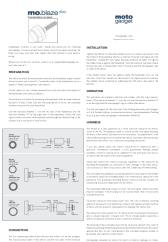
EN moto gadget instruction manual mo.switch basic V1.0	[motogadget mo.switch basic: Instruction Manual and Installation Guide](#) Comprehensive instruction manual for the motogadget mo.switch basic, detailing installation, wiring, safety instructions, and product features for motorcycle customization. Made in Germany.
mo.blaze disc moto gadget	[motogadget mo.blaze disc Handlebar Turn Signal Installation and Operation Guide](#) Detailed instructions for installing and operating the motogadget mo.blaze disc front handlebar turn signals. Covers preparation, assembly for different handlebars, installation steps, operation checks, and important safety notes.
motogadget Instruction manual mo.view glassless rear mirror EN V1.6	[motogadget mo.view Glassless Rear Mirror Instruction Manual V1.5](#) Comprehensive instruction manual for the motogadget mo.view glassless rear mirror, covering features, handling, installation, and compatibility with various handlebar adapters. Includes technical specifications and safety information.
motogadget DE EN	[motogadget mo.view Mirrors: Operating and Assembly Instructions](#) Comprehensive guide to installing and using motogadget mo.view mirrors. Covers unique features, handling, assembly for various models (CLASSIC, CLUB, SPORT, RACE, FLIGHT, CAFE, ROAD, BLADE, SPY, STREET, CRUISE, PACE), and mounting types on universal and BMW handlebars. Includes torque specifications and care instructions.
motogadget Instruction Manual motoscope Chronoclassic 2 Multi-purpose instrument EN V1.5	[motogadget motoscope Chronoclassic 2 Instruction Manual](#) Detailed instruction manual for the motogadget motoscope Chronoclassic 2 multi-purpose instrument. Covers installation, connection, operation, setup, technical data, safety, and troubleshooting for motorcycle applications.