KAOLALI Upgraded S

KAOLALI Universal Motorcycle Speedometer Instruction Manual

Model: Upgraded S | Brand: KAOLALI

Introduction

The KAOLALI Upgraded Universal Motorcycle Speedometer is a comprehensive digital instrument designed for motorcycles. It integrates multiple functions including speedometer, odometer, tachometer, fuel level indicator, RPM display, and turn signal indicators into a single unit. This device provides clear and accurate readings for both time and total distance traveled, with adjustable units for kilometers and miles. Its high-definition LCD screen ensures readability in various lighting conditions, making it a reliable replacement for older or damaged motorcycle odometers.

This speedometer is universally compatible with various 12V motorcycles, supporting 8-22 inch wheels and adaptable for 1, 2, or 4-cylinder engines, as well as 2-stroke and 4-stroke configurations.



Figure 1: The KAOLALI Universal Motorcycle Speedometer unit with its included sensor and mounting accessories.

What's in the Box

Upon opening the package, verify that all components are present and undamaged:

- 1 x Motorcycle Speedometer Unit
- 1 x Speed Sensor
- Mounting Clips (2 pieces)
- Mounting Screws (2 pieces)



Figure 2: Contents of the package, showing the main speedometer unit, speed sensor, and small mounting hardware.

Specifications

Feature	Detail
Model Number	Upgraded S
Brand	KAOLALI
Dimensions (Unit)	141mm (Length) x 45mm (Height) x 53.8mm (Depth)
Item Weight	200 g
Material	Plastic, Rubber
Color	Black

Feature	Detail
Screen Size	1.5 Inches (LCD)
Measurement Accuracy	+/-0.5%
Tachometer Range	Up to 12000 RPM
Wheel Compatibility	Adjustable for 8-22 inch wheels
Engine Compatibility	1, 2, 4 cylinder; 2-stroke and 4-stroke
Power Requirement	12V DC



Figure 3: Physical dimensions of the speedometer unit.

Setup and Installation

Proper installation is crucial for the accurate functioning of the speedometer. It is recommended to have this installed by a qualified technician if you are unsure about any steps.

Wiring Diagram and Connections

Connect the wires according to the following scheme. Ensure all connections are secure and properly insulated to prevent short circuits.

1. **Black:** Positive electrode (+)
2. **Green:** Negative electrode (-)
3. **Yellow/White:** Oil quantity signal
4. **Green/Red:** Neutral (N) gear indicator
5. **Light Blue:** Right turn signal
6. **Blue:** High beam indicator
7. **Orange:** Left turn signal
8. **Blue/White:** Speed line, connect to high-voltage package or magneto trigger signal line.
9. **Brown/Red:** Electronic injection (if applicable)
10. **Brown:** Position lamp
11. **Pink:** 1st gear indicator
12. **Blue/Red:** 2nd gear indicator
13. **Green/Black:** 3rd gear indicator
14. **Yellow/Red:** 4th gear indicator
15. **Black/Red:** 5th gear indicator
16. **Purple:** 6th gear indicator
17. **Red:** Speed signal line
18. **Yellow:** Positive electrode of electronic counter



Figure 4: Wiring harness connectors for the speedometer, showing various color-coded wires.

Mounting the Speedometer

Choose a suitable location on your motorcycle's dashboard or handlebars that provides clear visibility and does not obstruct your view or controls. Use the provided mounting clips and screws to securely attach the speedometer. Ensure the unit is firmly fixed to prevent vibration-induced damage or inaccurate readings.



Figure 5: Example of the speedometer mounted on a motorcycle's handlebars, providing a clear view for the rider.

Operation

Once installed and powered, the speedometer will display various information on its LCD screen.

Display Features

The high-definition LCD display provides clear visibility day and night, reducing eye fatigue. Key indicators include:

- **Speed:** Displays current speed in MPH or KM/H.
- **Odometer:** Tracks total distance traveled.
- **Tachometer:** Shows engine RPM (revolutions per minute).
- **Fuel Level:** Indicates remaining fuel.
- **Gear Indicator:** Displays current gear (1-6 and Neutral).
- **Turn Signals:** Left and right turn indicators.

- **High Beam:** High beam headlight indicator.
- **Battery Power:** Battery status indicator.
- **Voltage/Temperature:** May display additional vehicle parameters.



Figure 6: The speedometer's LCD display, demonstrating its clarity during both daytime and nighttime operation.



Figure 7: Rider's perspective of the speedometer, highlighting the MPH/KM/H display.

Calibration and Settings

The speedometer can be calibrated for different wheel sizes and engine types. While specific instructions for changing between MPH and KM/H or other settings are typically found in the detailed product manual provided with the unit, general calibration often involves using the high-beam button or other designated buttons on the unit. For precise calibration steps, refer to the specific instructions that came with your product or contact customer support.

Maintenance

To ensure the longevity and optimal performance of your KAOLALI Universal Motorcycle Speedometer, follow these general maintenance guidelines:

- **Cleaning:** Wipe the display and casing with a soft, damp cloth. Avoid using abrasive cleaners or solvents that could damage the plastic or screen.
- **Connections:** Periodically check all wiring connections to ensure they are secure and free from corrosion.

- **Protection:** While the unit is waterproof, avoid prolonged submersion or high-pressure washing directly on the display.
- **Storage:** If storing the motorcycle for an extended period, ensure the speedometer is kept in a dry, cool place.

Troubleshooting

This section addresses common issues you might encounter with your speedometer.

Problem	Possible Cause	Solution
Display not turning on	No power supply; Loose wiring connection; Blown fuse.	Check power connections (Black wire for positive, Green for negative). Ensure all wires are securely connected. Inspect motorcycle's fuse box for a blown fuse and replace if necessary.
Inaccurate speed/odometer reading	Incorrect wheel circumference setting; Faulty speed sensor connection; Sensor not properly installed.	Verify the wheel circumference setting in the speedometer's menu (refer to product-specific instructions). Check the Blue/White speed line connection. Ensure the speed sensor is clean and correctly positioned.
Tachometer not working	Incorrect RPM signal connection; Engine type setting incorrect.	Ensure the Red speed signal line is correctly connected to the ignition coil or relevant RPM signal source. Check the engine cylinder/stroke setting in the speedometer's configuration.
Fuel gauge blinking/inaccurate	No fuel sender connected; Incompatible fuel sender; Faulty wiring.	Ensure the Yellow/White oil quantity signal wire is correctly connected to a compatible fuel sender unit. If no sender is present, the gauge may blink. Check for any breaks or shorts in the wiring.

If you encounter issues not listed here or require further assistance, please contact KAOLALI customer service for support.

Warranty and Support

KAOLALI products are designed for reliability and performance. This product is covered by a standard return policy, typically 30 days for refunds or replacements, as per the retailer's terms of sale.

For technical support, installation queries, or warranty claims, please reach out to the seller or KAOLALI customer service. When contacting support, please have your product model number (Upgraded S) and purchase details ready.

You can find more information and contact details on the official KAOLALI brand page or through your purchase platform.

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