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> KAOLALI Motorcycle Multi-Function Speedometer User Manual

## KAOLALI 9-A

# KAOLALI Motorcycle Multi-Function Speedometer User Manual

Model: 9-A

## PRODUCT OVERVIEW

The KAOLALI Motorcycle Multi-Function Speedometer is a comprehensive digital instrument designed for 12V motorcycles. It integrates multiple essential functions into a single LCD display unit, providing riders with critical information such as speed, engine RPM, fuel level, and water temperature.



Figure 1: KAOLALI Motorcycle Multi-Function Speedometer and its components, including the main unit, wiring harness, and mounting hardware.

Constructed from high-quality stainless steel and nickel-plated ABS material, this speedometer is designed for durability, rust resistance, and corrosion resistance. Its sealed design ensures reliable operation even in adverse weather conditions like heavy rain.

The unit features a clear LCD screen with a wide viewing angle, designed to reduce eye fatigue and enhance readability. It also includes a bright two-color LED nightlight for improved visibility during nighttime riding, making the dial mileage clearly visible.

## KEY FEATURES

- **Multi-functional Display:** Integrates speedometer, tachometer, fuel gauge, and water temperature gauge.
- **Clear LCD Screen:** Provides a wide viewing angle and stable visibility to reduce eye strain.

- **Durable Construction:** Made from high-quality stainless steel and nickel-plated ABS for rust and corrosion resistance.
- **Waterproof Design:** Sealed construction ensures normal operation in heavy rain.
- **Two-Color LED Nightlight:** Enhances visibility of the dial and pointer during nighttime use.
- **Universal Compatibility:** Designed for most 12V motorcycles.

## SPECIFICATIONS

Attribute	Value
Brand	KAOLALI
Model Number	9-A
Material	Stainless Steel, Acrylonitrile Butadiene Styrene (ABS)
Item Weight	0.52 Kilograms (1.15 pounds)
Screen Size	5 Inches
Package Dimensions	7.95 x 5.12 x 4.02 inches
Voltage Compatibility	12V (for most motorcycles)

## INSTALLATION GUIDE

This section provides detailed instructions for installing the KAOLALI Motorcycle Multi-Function Speedometer. Professional installation is recommended if you are unfamiliar with motorcycle electrical systems.

### Package Contents

- 1 x KAOLALI Multi-Function Speedometer Unit
- 1 x Wiring Harness
- 1 x Speed Sensor (magnetic pickup type)
- Mounting Brackets and Hardware (nuts, washers, clips)
- User Manual (paper copy)

### Dimensions



Figure 2: Detailed dimensions of the speedometer unit, showing measurements for diameter, height, and mounting bracket width.

### Wiring Diagram

Refer to the provided wiring diagram for correct electrical connections. Incorrect wiring can damage the unit or your motorcycle's electrical system.



Figure 3: Rear view of the speedometer unit, illustrating the connection point for the main wiring harness.

The wiring harness includes multiple wires, each color-coded for specific functions. Consult the paper user manual for the exact pinout and color code definitions for your specific model. Generally, connections include power (positive/negative), ignition, speed sensor input, RPM signal, fuel level sensor, and indicator lights (turn signals, high beam, neutral, ABS, engine check, battery).

Your browser does not support the video tag.

Video 1: An overview of the speedometer unit and its components, including the wiring harness and mounting accessories. This video demonstrates the physical aspects of the product.

## Mounting Instructions

1. Identify a suitable mounting location on your motorcycle, typically near the handlebars or existing instrument cluster.
2. Attach the mounting bracket to the speedometer unit using the provided screws.
3. Secure the assembled speedometer and bracket to your motorcycle using the appropriate hardware. Ensure it is firmly attached and does not obstruct your view or controls.
4. Route the wiring harness safely, avoiding moving parts or hot engine components.

5. Connect the speed sensor to the appropriate location on your motorcycle, typically near the wheel. Ensure proper alignment for accurate readings.

## OPERATING INSTRUCTIONS

Once installed and powered on, the speedometer will display various parameters. The LCD screen provides real-time data for speed, RPM, fuel level, and other indicators.

### Display Functions



Figure 4: A detailed view of the speedometer's digital display, highlighting the speedometer, tachometer, odometer, fuel gauge, and various indicator lights.

- **Speedometer:** Displays current speed in MPH or KM/H.
- **Tachometer:** Shows engine RPM.
- **Odometer (ODO):** Records total distance traveled.
- **Trip Meter (TRIP):** Records distance for a single trip, resettable.
- **Fuel Gauge:** Indicates current fuel level.
- **Indicator Lights:** Includes turn signals (left/right), high beam, neutral gear, ABS, engine check, and battery warning.

## Setting Adjustments

The unit may have a button on the back for adjusting settings such as units (MPH/KM/H) or resetting the trip meter. Refer to the specific instructions in your paper manual for detailed steps on how to access and change these settings.

# MULTI-FUNCTION SPEEDOMETER



Figure 5: Side view of the speedometer, indicating the location of the setting button on the rear of the unit.

## MAINTENANCE

To ensure the longevity and accurate operation of your KAOLALI Multi-Function Speedometer, follow these maintenance guidelines:

- **Cleaning:** Wipe the display and casing with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the screen or finish.
- **Connections:** Periodically check all electrical connections to ensure they are secure and free from corrosion.
- **Sensor:** Inspect the speed sensor for any debris or damage that might affect its accuracy. Keep it clean.
- **Water Exposure:** While the unit is designed to be waterproof, avoid prolonged submersion or high-pressure water jets directly on the display.



Figure 6: The speedometer demonstrating its waterproof and dustproof capabilities, suitable for various riding conditions.

## TROUBLESHOOTING

If you encounter issues with your speedometer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No Power/Display Off	Loose wiring connection, blown fuse, insufficient power supply.	Check all wiring connections, inspect motorcycle fuses, ensure 12V power supply.
Inaccurate Speed/RPM	Speed sensor misalignment/damage, incorrect wiring, sensor debris.	Verify speed sensor alignment and cleanliness, check sensor wiring, replace sensor if damaged.
Fuel Gauge Malfunction	Faulty fuel sensor, incorrect wiring to fuel sensor.	Check fuel sensor wiring, test fuel sensor functionality.
Display Flickering	Unstable power supply, loose internal connection.	Ensure stable 12V power, check main wiring harness connection.

If the problem persists after attempting these solutions, contact KAOLALI customer support or consult a qualified motorcycle technician.

## WARRANTY AND SUPPORT

KAOLALI products are manufactured to high standards. For warranty information and technical support, please refer to the contact details provided in the original product packaging or visit the official KAOLALI website.

Keep your purchase receipt as proof of purchase for warranty claims.

For additional resources, you may refer to the official user manual PDF [KAOLALI Motorcycle Speedometer User Manual \(PDF\)](#)