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› KAOLALI KR200 Universal Digital Tachometer for Motorcycle User Manual

KAOLALI KR200

KAOLALI KR200 Universal Digital Tachometer & Speedometer User Manual

Model: KR200

1. PRODUCT OVERVIEW

The KAOLALI KR200 is a universal digital instrument designed for motorcycles, providing essential riding information through a clear LCD display. It integrates multiple functions including speedometer, odometer, RPM (tachometer), and fuel level indication.



Figure 1: KAOLALI KR200 Digital Tachometer and Speedometer unit with sensor and accessories.

This unit is designed for wide application across most 12V motorcycle models, offering a durable and waterproof design for reliable performance in various conditions.

Key Features:

- **Multifunction Display:** Combines speedometer, odometer, RPM, and fuel indicator in one unit.
- **Clear LCD Screen:** Provides a wide viewing angle and clear mileage display for both day and night use.
- **Durable Construction:** Designed to be water-resistant and eco-friendly.
- **Universal Compatibility:** Suitable for most 12V motorcycle models.

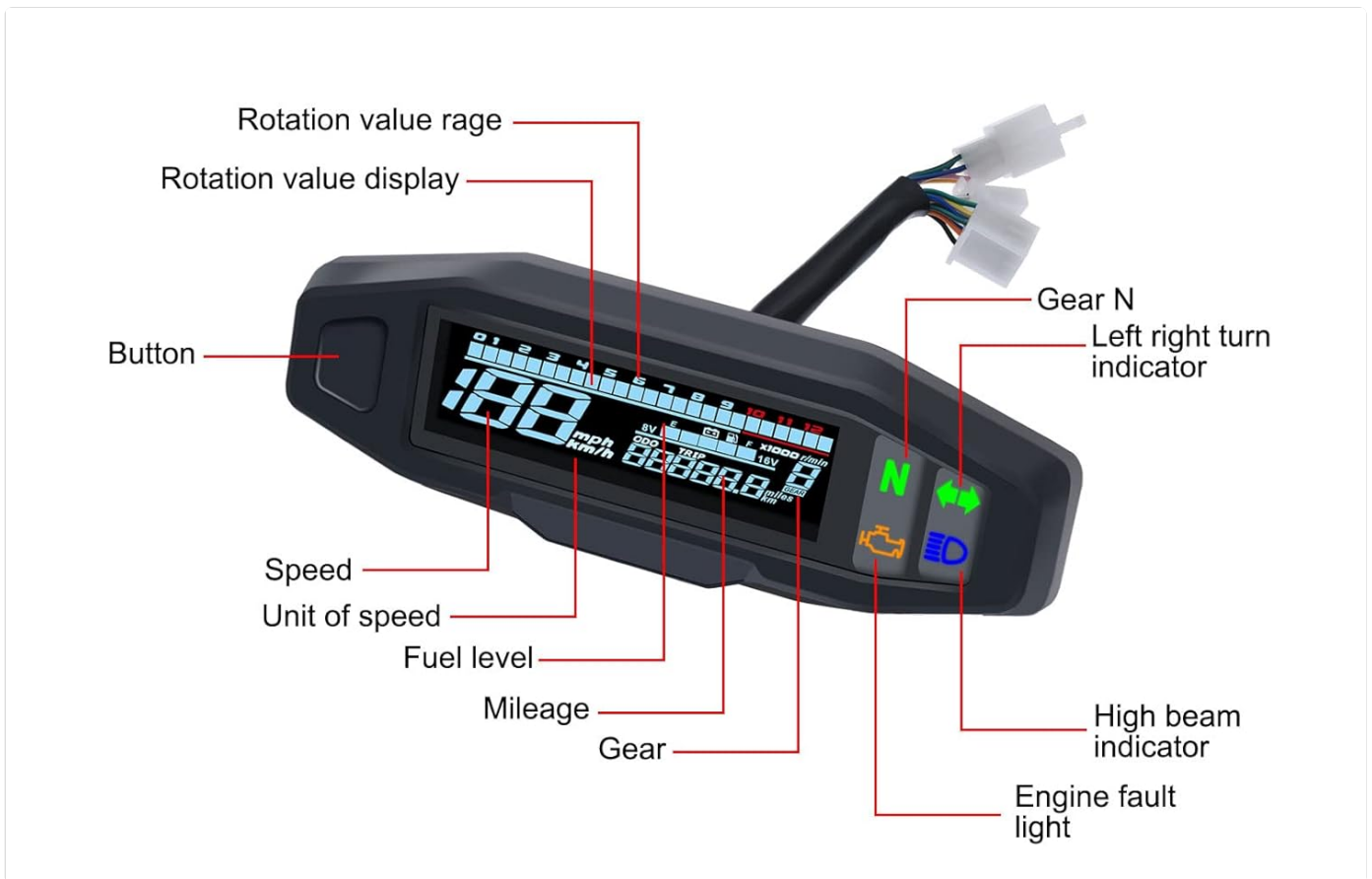


Figure 2: Interface display with labeled functions including speed, RPM, fuel level, mileage, gear, and various indicators.

The display includes indicators for neutral gear (N), left and right turn signals, high beam, and engine fault light. The rotation value range and display are also clearly visible.

2. SETUP AND INSTALLATION

Proper installation is crucial for the accurate functioning of the KR200. Please follow these instructions carefully. It is recommended to have basic electrical knowledge or seek professional assistance if unsure.

Wiring Instructions:

Important Note: Before connecting any other wires, ensure the black positive pole and the green negative pole are connected first in the 9-hole connector. This prevents potential damage to the unit.



SUPPORT DISPLAY DATA

- ▮ RPM
- ▮ Oil Gauge
- ▮ Speeder
- ▮ Odometer

Figure 4: Detailed Wire Connection Definition Table.

Wire Connection Details

Connector Type	Wire Color	Function
9 Pin Connector	Blue/white	Rotation speed (RPM Wire)
	Black/red	Engine fault light (12V-)
	Black	Anode (12V+)
	Light/blue	Right turn
	Blue	High beam
	Orange	Left turn
	Green	Negative Electrode

Connector Type	Wire Color	Function
	Yellow White	Fuel level Signal
	Green/red	Gear N (12V-)
6 Pin Connector	Pink	Gear 1
	Blue/red	Gear 2
	Green/black	Gear 3
	Yellow/red	Gear 4
	Brown/white	Gear 5
	Gray	Gear 6
3 Pin Connector	Red	Speed sensor signal
	Green	Speed sensor Cathode
	Yellow	Speed sensor 5V+ Output

For RPM signal, some motorcycles may require connecting to the positive connection from the pick-up coil at the stator to provide the correct pulse signal, rather than the negative connection from the ignition coil.

Mounting:

Securely mount the KR200 unit in a visible and accessible location on your motorcycle's dashboard or handlebars. Ensure the mounting is stable and does not obstruct your view or control of the vehicle.



Figure 5: Product dimensions for mounting reference.

3. OPERATING INSTRUCTIONS

Once installed and powered, the KR200 will display various parameters on its LCD screen. The unit automatically powers on with the motorcycle's ignition.

Display Functions:

- **Speed:** Displays current speed in either kilometers per hour (km/h) or miles per hour (mph).
- **RPM (Tachometer):** Shows engine revolutions per minute.
- **Odometer (ODO):** Records total distance traveled.
- **Trip Meter (TRIP):** Records distance for a single journey, resettable.
- **Fuel Level:** Indicates the remaining fuel in the tank.
- **Gear Indicator:** Displays the current gear (N for Neutral, 1-6).
- **Indicators:** Separate lights for left turn, right turn, high beam, and engine fault.

Setting and Calibration:

The KR200 allows for calibration of the speedometer based on tire circumference and setting of engine cylinder numbers. These settings are crucial for accurate readings.

- **Tire Circumference:** To calibrate the speedometer, measure the outer circumference of your tire in millimeters. This value (typically between 1000-2999) needs to be input into the unit's settings. Consult the wire diagram (Figure 3) for the "Key" button location used for settings.
- **Engine Cylinders:** Set the number of engine cylinders (1, 2, or 4) to ensure accurate RPM readings.
- **Odometer Setting:** The odometer can typically be set once to match existing mileage. Be aware that some units may hardware lock this setting after initial configuration, making it irreversible.

Accessing the settings menu usually involves pressing the "Key" button (refer to Figure 3) in a specific sequence or for a certain duration. Due to variations in instruction clarity, experimentation may be required. If you encounter difficulties, refer to the Troubleshooting section or contact customer support.

4. MAINTENANCE

To ensure the longevity and optimal performance of your KAOLALI KR200, follow these maintenance guidelines:

- **Cleaning:** Wipe the display and unit exterior with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the screen or casing.
- **Water Resistance:** While the unit is designed to be water-resistant, it is not fully waterproof. Avoid direct high-pressure water jets. For enhanced protection, consider applying a silicone sealant around the casing edges, especially if riding in heavy rain is common.
- **Connections:** Periodically check all wire connections to ensure they are secure and free from corrosion. Loose connections can lead to intermittent readings or malfunctions.
- **Sensor Care:** Keep the speed sensor clean and free from debris. Ensure it is securely mounted and properly aligned with the magnet(s) for accurate speed readings.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your KR200 unit.

Common Issues and Solutions:

- **No Power/Display Not Lighting Up:**
 - Check the main power connection (Black wire for Anode 12V+, Green wire for Negative Electrode). Ensure they are correctly connected and receiving power.
 - Verify the ignition switch is on.
 - Inspect fuses in your motorcycle's electrical system.
- **Speedometer Not Working or Inaccurate:**
 - Ensure the speed sensor (Red, Green, Yellow wires) is correctly wired and connected.
 - Verify the speed sensor is properly mounted and aligned with the magnet(s) on the wheel. The gap between the sensor and magnet should be minimal.
 - Calibrate the tire circumference setting in the unit's menu. An incorrect circumference will lead to inaccurate speed readings.
- **Tachometer (RPM) Not Working or Inaccurate:**

- Check the RPM wire connection (Blue/white wire).
 - For some motorcycles, the RPM signal needs to be taken from the positive connection of the pick-up coil at the stator, not the negative side of the ignition coil. Experiment with different signal sources if the initial connection doesn't work.
 - Ensure the engine cylinder setting (1, 2, or 4) is correctly configured in the unit's menu.
- **Odometer/Trip Meter Issues:**
 - If the odometer cannot be reset or set, be aware that some units have a one-time setting feature for the odometer, after which it becomes hardware locked.
 - Ensure the speed sensor is functioning correctly, as mileage is calculated based on speed input.
- **Display Fogging/Water Inside Unit:**
 - This indicates a breach in the water resistance. It is highly recommended to open the unit (if possible without damaging it) and apply a silicone sealant around the internal edges of the casing to prevent further water ingress. Allow it to dry completely before reassembly.
- **Poor or Unclear Instructions:**
 - The provided manual aims to clarify common points. For specific motorcycle models or complex issues, online forums or professional mechanics may offer additional guidance.
 - Contact KAOLALI customer service for further assistance.

6. SPECIFICATIONS

Specification	Detail
Brand	KAOLALI
Model Number	KR200
Manufacturer	KAOLALI
Material	Plastic
Item Weight	200 g (0.2 Kilograms)
Product Dimensions (L x W x H)	16 x 10 x 7 cm
Item Package Quantity	1
Batteries Required?	No
First Available Date	1 Dec. 2021

7. CUSTOMER SUPPORT

For any questions, installation issues, or further assistance with your KAOLALI KR200, please contact our customer service team. We are committed to providing support for your product.

Please refer to your purchase documentation or the retailer's website for specific contact information for KAOLALI customer support.

