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› [KOSO HD-05 Multifunction Gauge Instruction Manual for Harley FLHR2 \(14-19\)](#)

### Koso BA072100

# KOSO HD-05 Multifunction Gauge Instruction Manual

Model: BA072100

[Introduction](#) [Safety](#) [Overview](#) [Installation](#) [Operation](#) [Maintenance](#) [Troubleshooting](#) [Specifications](#) [Warr](#)

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your KOSO HD-05 Multifunction Gauge. Designed for 2014-2019 Harley FLHR2 models, this gauge offers essential vehicle information in a clear, integrated display. Please read this manual thoroughly before installation and use to ensure proper function and safety.

## 2. SAFETY INFORMATION

**WARNING:** Improper installation or use can lead to vehicle damage or personal injury. Always consult a qualified technician if you are unsure about any installation steps.

- Disconnect the vehicle's battery before beginning installation.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Do not attempt to modify the gauge or its components.
- Keep the gauge clean and free from moisture.
- Always refer to your vehicle's service manual for specific wiring diagrams and procedures.

**Proposition 65 Warning:** This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## 3. PRODUCT OVERVIEW

The KOSO HD-05 Multifunction Gauge is a 4.5-inch diameter instrument designed to provide critical information for your motorcycle. It features a clear analog RPM display and a digital screen for speed, odometer, gear position, and various indicator lights.

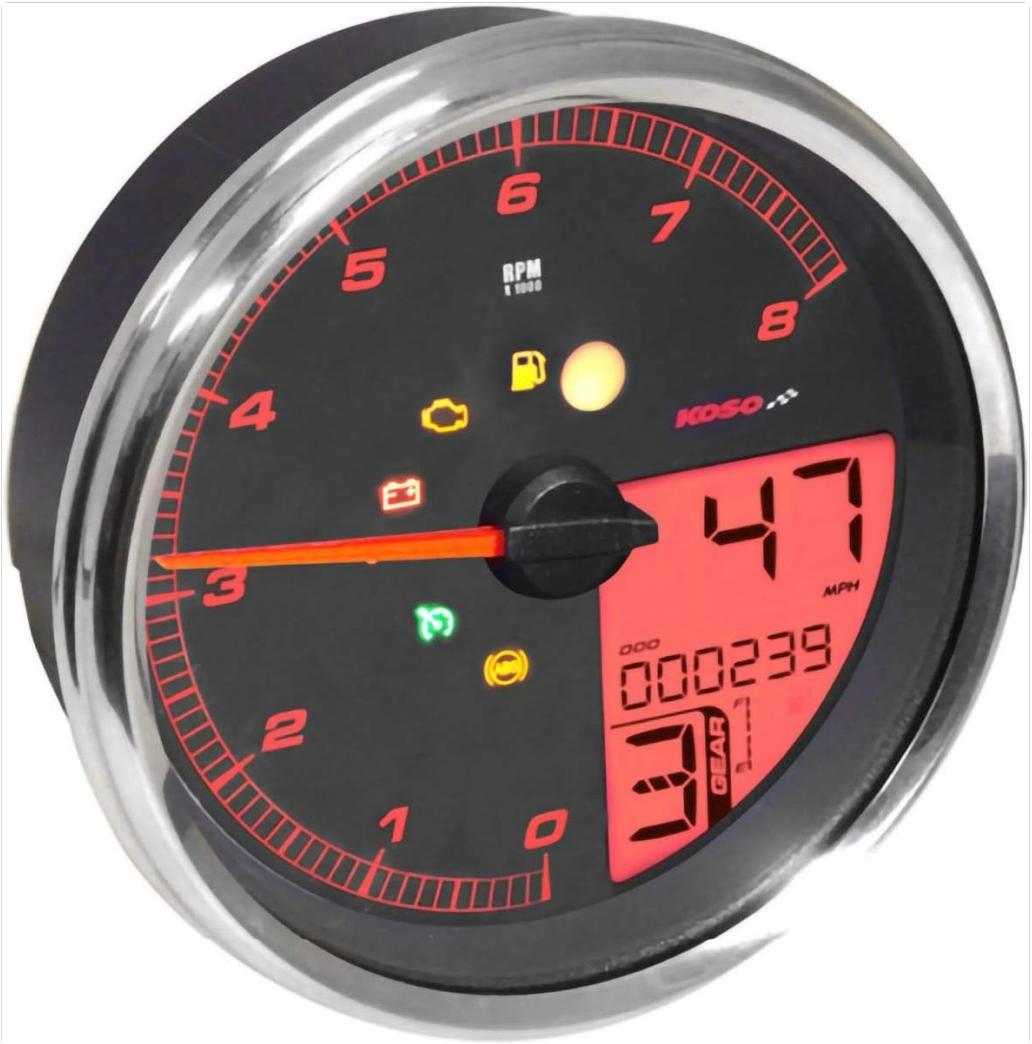


Figure 3.1: KOSO HD-05 Multifunction Gauge. The gauge features an analog RPM display (0-8 RPM x 1000) with a red needle, and a digital section showing speed (e.g., 47 MPH), odometer (e.g., 000239), and gear indicator (e.g., 3). Indicator lights for fuel, check engine, battery, turn signals, and ABS are also visible.

### 3.1 Key Features

- Analog Tachometer (RPM x 1000)
- Digital Speedometer (MPH)
- Odometer
- Gear Position Indicator
- Integrated Indicator Lights (Fuel, Check Engine, Battery, Turn Signals, ABS)
- Chrome Bezel Finish
- Direct replacement for 2014-2019 Harley FLHR2 models

### 3.2 Indicator Lights

- **Fuel Icon:** Indicates low fuel level.
- **Check Engine Icon:** Illuminates when the engine control unit detects a fault.
- **Battery Icon:** Indicates a charging system issue.
- **Turn Signal Icons:** Flash when turn signals are active.
- **ABS Icon:** Indicates an issue with the Anti-lock Braking System.

## 4. INSTALLATION

Installation of the KOSO HD-05 Multifunction Gauge typically involves replacing the existing stock gauge. Due to the complexity of motorcycle electrical systems, professional installation is recommended. Always refer to your motorcycle's service manual for detailed wiring diagrams and specific removal/installation procedures.

## 4.1 General Steps (Consult Service Manual for Details)

1. Ensure the motorcycle is turned off and the battery is disconnected.
2. Carefully remove the existing gauge from its housing.
3. Disconnect the electrical connectors from the old gauge. Note the orientation and connection points.
4. Connect the KOSO HD-05 gauge to the vehicle's wiring harness. Ensure all connections are secure.
5. Mount the new gauge securely into the dashboard or housing.
6. Reconnect the battery and test the gauge's functionality.

**Note:** This gauge is designed for plug-and-play compatibility with specified Harley-Davidson models. However, some calibration or setup may be required for certain functions, such as the fuel gauge, as detailed in the operating instructions.

## 5. OPERATING INSTRUCTIONS

Once installed, the KOSO HD-05 gauge will display real-time vehicle information. The digital display typically cycles through various modes or can be adjusted using a control button (if present, refer to specific product documentation for button functions).

### 5.1 Display Modes

- **Speedometer:** Displays current speed in MPH.
- **Odometer (ODO):** Shows total accumulated mileage.
- **Gear Indicator:** Displays the current gear engaged.
- **Tachometer:** Analog needle indicates engine RPM (x 1000).

### 5.2 Fuel Gauge Setup (If Applicable)

Some users may experience issues with fuel gauge calibration. The gauge may offer different modes for fuel level sensing. Consult the specific KOSO HD-05 user guide for detailed instructions on selecting the correct fuel sensor mode and calibration procedure. If issues persist, contact KOSO technical support.

## 6. MAINTENANCE

The KOSO HD-05 Multifunction Gauge requires minimal maintenance.

- **Cleaning:** Use a soft, damp cloth to clean the display and bezel. Avoid abrasive cleaners or solvents that could damage the surface.
- **Inspection:** Periodically check wiring connections for looseness or corrosion.
- **Environmental Protection:** While designed for outdoor use, avoid prolonged exposure to extreme weather conditions when possible.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Gauge does not power on.	Loose wiring connection, blown fuse, incorrect installation.	Check all wiring connections. Inspect vehicle fuses. Verify installation steps.
Inaccurate speed reading.	Improper calibration, sensor issue.	Refer to the specific KOSO HD-05 manual for speed calibration procedures. Check speed sensor connection.
Fuel gauge issues (inaccurate or not working).	Incorrect fuel sensor mode selected, faulty sensor, wiring issue.	Verify fuel sensor mode settings. Check wiring to the fuel sensor. Contact KOSO support if issues persist.
Indicator lights not functioning.	Wiring issue, faulty LED.	Check wiring connections for the specific indicator.

## 8. SPECIFICATIONS

**Brand:** Koso

**Model Number:** BA072100

**Material:** Acrylonitrile Butadiene Styrene (ABS)

**Dimensions (L x W x H):** 3 x 3 x 5 inches

**Item Weight:** 6 Pounds

**UPC:** 600901212610

**Compatibility:** 2014-2019 Harley FLHR2

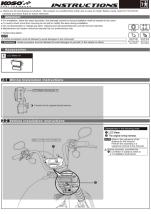
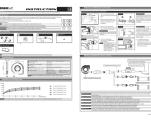
## 9. WARRANTY AND SUPPORT

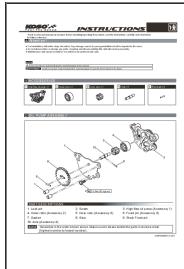
KOSO products are manufactured to high-quality standards. For warranty information, please refer to the warranty card included with your product or visit the official KOSO website. For technical support or assistance with specific issues, please contact KOSO customer service directly.

**KOSO Official Website:** [www.koso.com.tw](http://www.koso.com.tw) (Example link, actual link may vary)

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### Related Documents - BA072100

	<p><a href="#">KOSO HD-03L Gauge Kit Installation and Operation Manual</a></p> <p>This manual provides detailed instructions for installing, operating, and configuring the KOSO HD-03L 4-piece gauge kit for Harley Davidson motorcycles. It covers accessories, disassembly, wiring, gauge overview, settings, and troubleshooting.</p>
	<p><a href="#">KOSO Gauge 14-23 Road Glide Bezel Template and Installation Guide</a></p> <p>Download the KOSO Gauge 14-23 Road Glide bezel template. This guide provides instructions for printing, cutting, and marking holes for installation on your Road Glide motorcycle.</p>
	<p><a href="#">KOSO Heated Grips Installation and Operation Manual</a></p> <p>Comprehensive guide for installing and operating KOSO heated grips for motorcycles. Includes technical specifications, mounting instructions, electrical connections, and troubleshooting.</p>
	<p><a href="#">KOSO D2 LCD Meter Installation and Operation Manual</a></p> <p>Comprehensive instructions for installing and operating the KOSO D2 LCD Meter, covering wiring, vehicle installation, overview of features, settings, and troubleshooting.</p>
	<p><a href="#">KOSO Heated Grips Installation and Operation Manual</a></p> <p>Comprehensive instruction manual for KOSO heated grips, covering installation, specifications, function settings, low-voltage mode, and troubleshooting. Ensure safe and proper use of your KOSO heated grips.</p>



### [KOSO High Flow Oil Pump Instructions and Performance Data](#)

Detailed instructions for installing the KOSO High Flow Oil Pump, including parts list, assembly guide, and a performance comparison chart showing increased oil flow.