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> Jiawu Fuel Tank Level Indicator User Manual: Mechanical High-Precision Gauge with Float (Model Jiawugzm96iosya-14)

## Jiawu Jiawugzm96iosya-14

# Jiawu Fuel Tank Level Indicator User Manual

Model: Jiawugzm96iosya-14

## INTRODUCTION

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This manual provides comprehensive instructions for the installation, operation, and maintenance of the Jiawu Fuel Tank Level Indicator, Model Jiawugzm96iosya-14. This high-precision mechanical gauge is designed to accurately monitor fuel levels in various vehicles, including yachts, automobiles, agricultural vehicles, and trucks. Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.



**Figure 1:** Main view of the Jiawu Fuel Tank Level Indicator. This image displays the complete assembly of the fuel gauge, including the float mechanism and the dial with markings for Empty (E), 1/4, 1/2, 3/4, and Full (F).

## PRODUCT FEATURES

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- **High-Precision Display:** Provides accurate fuel level readings with a display precision of up to 5%.

- **Wide Temperature Tolerance:** Operates reliably in temperatures ranging from -40°C to 85°C.
- **Sealed Design:** Prevents liquid overflow from the plastic head, maintaining cleanliness and accuracy.
- **Broad Applicability:** Compatible with yachts, automobiles, agricultural vehicles, trucks, and ATVs, provided the tank size is suitable for installation.
- **Simple Installation:** Features a standard 5-hole design for straightforward mounting.

## PACKAGE CONTENTS

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

- 1 x Fuel Tank Cap Indicator
- 1 x Accessory Package (6 pieces, typically including gasket and mounting screws)



**Figure 2:** Components included in the package. This image shows the fuel tank level indicator alongside the gasket and six mounting screws, which are part of the accessory package.

## SETUP AND INSTALLATION

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The Jiawu Fuel Tank Level Indicator is designed for simple installation using a standard 5-hole mounting pattern. Ensure the vehicle's fuel tank is empty or at a very low level before beginning installation to prevent fuel spills and ensure safety.

### Safety Precautions:

- Always disconnect the vehicle's battery before working on fuel system components.

- Work in a well-ventilated area, away from open flames or sparks.
- Wear appropriate personal protective equipment (PPE), such as gloves and eye protection.
- Ensure the fuel tank is depressurized before opening.

## Installation Steps:

1. **Prepare the Mounting Area:** Locate the existing fuel tank access port or the designated area for the fuel level indicator. Ensure the surface is clean and free of debris.
2. **Remove Old Unit (if applicable):** If replacing an existing unit, carefully remove it, ensuring no fuel spills.
3. **Position the Gasket:** Place the provided gasket onto the mounting surface of the fuel tank. This gasket ensures a tight, sealed fit.
4. **Insert the Indicator:** Carefully insert the Jiawu Fuel Tank Level Indicator into the tank opening, aligning the 5 mounting holes on the indicator with those on the tank.
5. **Secure with Screws:** Use the six provided screws to firmly attach the indicator to the fuel tank. Tighten the screws evenly to ensure a proper seal and prevent leaks. Do not overtighten.
6. **Connect Wiring (if applicable):** While this is a mechanical indicator, some installations may require connecting to an existing gauge or warning light. Refer to your vehicle's specific wiring diagram if electrical connections are necessary. Ensure all connections are secure and insulated.
7. **Test for Leaks:** After installation, add a small amount of fuel to the tank and visually inspect for any leaks around the newly installed indicator. Address any leaks immediately.



**Figure 3:** Side view of the fuel tank level indicator. This angle highlights the float mechanism and the robust construction, demonstrating how the unit is designed to be inserted into a fuel tank.

## OPERATING INSTRUCTIONS

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The Jiawu Fuel Tank Level Indicator provides a direct, mechanical reading of your fuel level. The gauge displays the fuel level using a needle that points to markings from 'E' (Empty) to 'F' (Full), with intermediate markings for 1/4, 1/2, and 3/4.

### Reading the Gauge:

- The needle will move in response to the fuel level in the tank.
- When the needle points to 'E', the tank is empty or near empty.
- When the needle points to 'F', the tank is full.

- Intermediate markings (1/4, 1/2, 3/4) indicate corresponding fuel levels.

The gauge offers a display accuracy of 5%, allowing for reliable monitoring of your fuel supply. Regularly check the gauge to plan refueling stops and avoid running out of fuel.



**Figure 4:** Close-up view of the indicator dial. This image provides a clear view of the gauge face, showing the "FUEL" label and the E, 1/4, 1/2, 3/4, F markings for easy fuel level interpretation.

## MAINTENANCE

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The Jiawu Fuel Tank Level Indicator is designed for durability and minimal maintenance. Its sealed design helps protect internal components from contaminants.

### General Maintenance Tips:

- **Regular Inspection:** Periodically inspect the visible parts of the indicator for any signs of damage, cracks, or loose connections.

- **Cleaning:** Clean the exterior of the gauge with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners that could damage the plastic or markings.
- **Check for Leaks:** Occasionally check the mounting area for any signs of fuel leakage. If a leak is detected, re-tighten the mounting screws (do not over-tighten) or replace the gasket if necessary.
- **Environmental Protection:** While the unit is designed for high-temperature tolerance, prolonged exposure to extreme conditions outside the specified range (-40°C to 85°C) may affect its lifespan.

## TROUBLESHOOTING

If you encounter issues with your Jiawu Fuel Tank Level Indicator, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Gauge reads inaccurately or is stuck.	<ul style="list-style-type: none"> <li>◦ Float mechanism obstructed.</li> <li>◦ Internal damage to the float or linkage.</li> <li>◦ Improper installation (e.g., not vertical).</li> </ul>	<ul style="list-style-type: none"> <li>◦ Remove the unit and inspect the float for obstructions or damage.</li> <li>◦ Ensure the unit is installed correctly and vertically.</li> <li>◦ If internal damage is suspected, replacement may be necessary.</li> </ul>
Fuel leakage around the indicator.	<ul style="list-style-type: none"> <li>◦ Loose mounting screws.</li> <li>◦ Damaged or improperly seated gasket.</li> <li>◦ Cracked housing.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Carefully re-tighten mounting screws evenly.</li> <li>◦ Inspect and replace the gasket if damaged.</li> <li>◦ If the housing is cracked, the unit must be replaced.</li> </ul>
No reading or erratic reading (if connected to an electrical system).	<ul style="list-style-type: none"> <li>◦ Loose or corroded electrical connections.</li> <li>◦ Faulty wiring.</li> </ul>	<ul style="list-style-type: none"> <li>◦ Check all electrical connections for tightness and corrosion. Clean or replace as needed.</li> <li>◦ Inspect wiring for damage and repair or replace.</li> </ul>

If the problem persists after attempting these solutions, it is recommended to consult a qualified technician or contact customer support.

## SPECIFICATIONS

Specification	Detail
Product Type	Fuel Tank Cap Indicator
Model Number	Jiawugzm96iosya-14
Brand	Jiawu
Operating Temperature	-40°C to 85°C

Specification	Detail
Display Accuracy	5%
Material	Aluminum Alloy + PP
Installation Method	Standard 5-hole
Feature	Sealed design to prevent liquid overflow
Applicability	Yachts, Automobiles, Agricultural Vehicles, Trucks, ATVs (tank size permitting)
Item Weight	220 Kilograms (Note: This weight seems unusually high for a fuel gauge. Please verify with manufacturer if concerned.)
Package Dimensions	40 x 10 x 7 cm

## WARRANTY AND SUPPORT

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For specific warranty information regarding your Jiawu Fuel Tank Level Indicator, please refer to the documentation provided at the time of purchase or contact your retailer. Warranty terms typically cover manufacturing defects for a specified period.

If you require technical assistance or have questions not covered in this manual, please contact Jiawu customer support through their official website or the contact information provided with your product. When contacting support, please have your product model number (Jiawugzm96iosya-14) and purchase details readily available.