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› VGEBY 2-inch Fuel Level Gauge and Sending Unit Instruction Manual

VGEBY VGEBYefz86xi7du

VGEBY 2-inch Fuel Level Gauge and Sending Unit Instruction Manual

Model: VGEBYefz86xi7du

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your VGEBY 2-inch Fuel Level Gauge and Sending Unit. Please read this manual thoroughly before installation and use to ensure proper function and safety. This product is designed for universal application in 12V 4/6/8 cylinder gasoline vehicles.

2. PRODUCT OVERVIEW

The VGEBY Fuel Level Gauge system provides accurate, real-time monitoring of your vehicle's fuel level. It features a high-sensitivity gauge with an E-1/2-F range and a built-in night light for clear visibility in all conditions.



Product Type: B743
Packing: carton packaging
Product color: black shell,
white LED lights
Material: stainless steel

Product features: measuring
the amount of fuel oil E-1/2-F
Voltage: 12V
Diameter: 52mm
Measuring range: E-1/2-F

Figure 2.1: Complete set of VGEBy Fuel Level Gauge and Sending Unit components.

Key Components:

- **Fuel Level Gauge:** A 2-inch (52mm) diameter gauge with an E-1/2-F display range and internal white LED illumination.
- **Fuel Sending Unit:** A float-type sensor designed to be installed in the fuel tank to measure fuel levels.
- **Mounting Bracket and Gasket:** Hardware for securing the gauge in place.
- **Wiring Harness:** For electrical connections.

3. SPECIFICATIONS

Product Type	B743
Model Number	VGEByefz86xi7du
Material	Glass, Stainless Steel

Voltage	12V DC
Gauge Diameter	52mm (2 inches)
Measuring Range	E-1/2-F (Empty to Full)
Gauge Illumination	White LED
Compatibility	Universal for 12V 4/6/8 cylinder gasoline cars

4. SETUP AND INSTALLATION

Important: Professional installation is highly recommended for this product to ensure correct wiring and safe operation. Disconnect the vehicle's battery before beginning any electrical work.

4.1 Fuel Level Gauge Installation

1. **Choose Mounting Location:** Select a suitable flat surface on your dashboard or instrument panel for the gauge. Ensure there is enough space behind the panel for wiring.
2. **Cut Mounting Hole:** Using a 52mm (2-inch) hole saw, carefully cut a circular hole in the chosen location.
3. **Insert Gauge:** Place the gauge into the cut-out hole.
4. **Secure Gauge:** Use the provided mounting bracket and nuts to secure the gauge from the rear of the panel. Tighten securely but do not overtighten.



Figure 4.1: Mounting bracket and gasket for securing the gauge.

4.2 Fuel Sending Unit Installation

The fuel sending unit must be installed in your vehicle's fuel tank. This typically involves removing the existing sending unit or modifying the tank for installation. Ensure the float arm has a full range of motion without obstruction.



Figure 4.2: Fuel sending unit with float arm.

4.3 Wiring Connections

Refer to the wiring diagram below for proper connections. Incorrect wiring can damage the gauge or vehicle electrical system.



Figure 4.3: Rear view of the fuel gauge showing wiring terminals.

- **Red Wire:** Connect to 12V ignition switched power supply.
- **Black Wire:** Connect to vehicle chassis ground.
- **Yellow Wire (or similar, from sender):** Connect to the signal output from the fuel sending unit.

After all connections are made, reconnect the vehicle's battery and test the gauge operation.

5. OPERATING INSTRUCTIONS

Once installed and wired correctly, the VGEBy Fuel Level Gauge operates automatically when the vehicle's ignition is on.

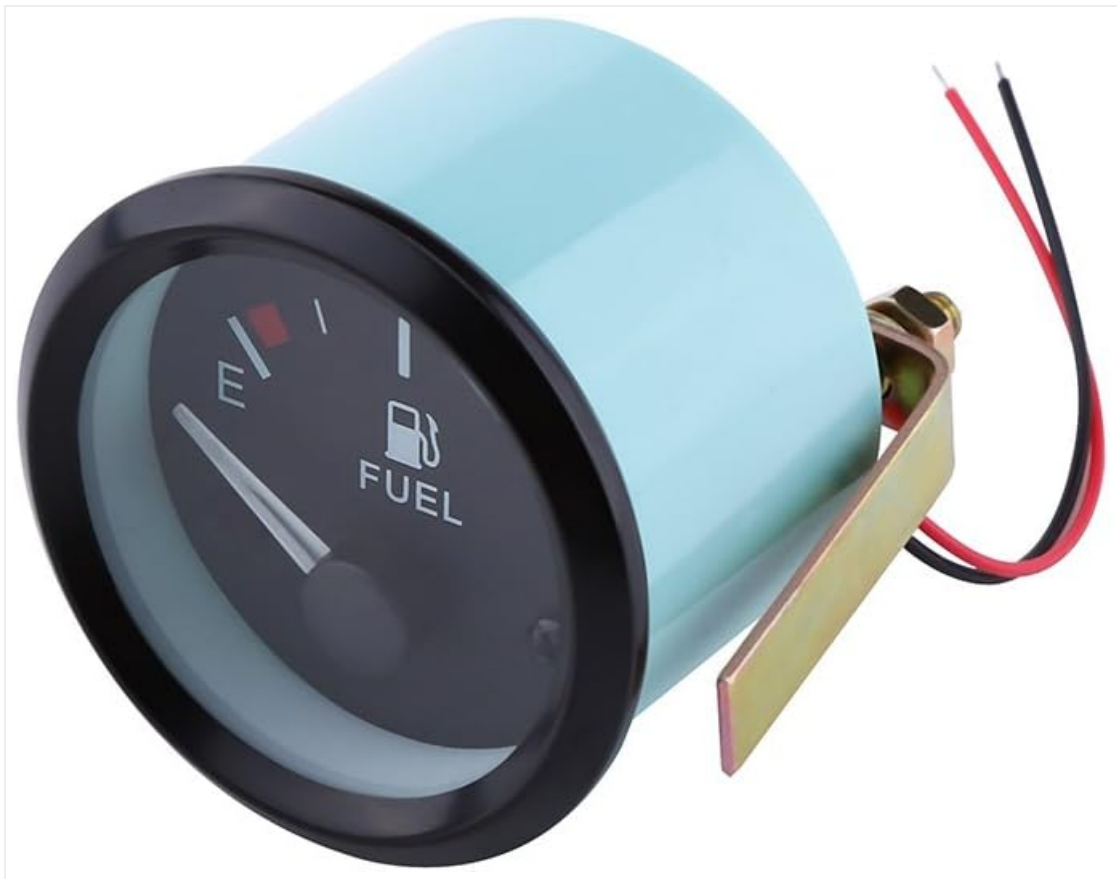


Figure 5.1: Fuel gauge face with E (Empty), 1/2 (Half), and F (Full) indicators.

- **Reading the Gauge:** The needle will indicate the current fuel level between 'E' (Empty) and 'F' (Full). The '1/2' mark represents half a tank.
- **Night Illumination:** The built-in white LED light will activate with your vehicle's dashboard lights, providing clear visibility during nighttime operation.
- **Real-time Monitoring:** The gauge provides continuous feedback on your fuel level, helping you avoid unexpected out-of-fuel situations.

6. MAINTENANCE

The VGEBy Fuel Level Gauge and Sending Unit are designed for durability and require minimal maintenance.

- **Cleaning:** Wipe the gauge face with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the lens or housing.
- **Connection Checks:** Periodically inspect all wiring connections for tightness and corrosion. Ensure the ground connection is secure.
- **Sending Unit:** The fuel sending unit is designed to operate within the fuel tank and generally does not require external maintenance. If fuel contamination is suspected, the tank and sending unit may need inspection by a qualified technician.

7. TROUBLESHOOTING

If you experience issues with your fuel level gauge, refer to the following common problems and solutions:

- **Gauge Not Working (No Reading):**
 - Check power supply to the gauge (red wire). Ensure it receives 12V when the ignition is on.

- Verify the ground connection (black wire) is secure and free of corrosion.
- Inspect the connection to the fuel sending unit (yellow wire).
- Test the fuel sending unit for proper resistance range. A faulty sending unit will prevent accurate readings.
- **Inaccurate Readings:**
 - Ensure the fuel sending unit's float arm moves freely within the fuel tank and is not obstructed.
 - Verify the sending unit is correctly calibrated for your tank depth.
 - Check for stable power and ground connections to the gauge. Fluctuations can affect accuracy.
- **Gauge Illumination Not Working:**
 - Check the wiring for the illumination circuit (if separate from main power).
 - Ensure your vehicle's dashboard lights are functioning correctly.

If these steps do not resolve the issue, it is recommended to consult a qualified automotive electrician.

8. WARRANTY AND SUPPORT

VGE BY is committed to providing quality products. If you are not satisfied with your purchase, you may apply for an unconditional return and refund within 180 days of receipt.

For any product-related issues or technical assistance, please contact our customer support team via email. We aim to respond promptly to all inquiries.

Contact Information: Please refer to your purchase documentation or the VGE BY official store page for specific contact details.