

Generic FG-159

Auto Gauge Fuel Level Meter Instruction Manual

Model: FG-159 | Brand: Generic

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Auto Gauge Fuel Level Meter. Designed for automotive and off-road vehicle applications, this high-quality analog fuel gauge ensures accurate fuel level display and reliable performance. It is built with durable, anti-rust materials and features low power consumption.

PRODUCT OVERVIEW



Figure 1: Front view of the Auto Gauge Fuel Level Meter (White model).

This image displays the front face of the white Auto Gauge Fuel Level Meter. It features a clear analog dial with markings for Empty (E), Half (1/2), and Full (F), along with a red needle indicating the fuel level. The gauge is encased in a chrome-like bezel.

The Auto Gauge Fuel Level Meter is a 2-inch, 12-volt premium quality instrument designed to accurately measure and display the fuel level in your vehicle's tank. It offers high sensitivity and a 90-degree analog needle sweep for stable and reliable performance. Its robust construction ensures durability and resistance to rust, making it suitable for various vehicle types, including off-road applications.

SETUP AND INSTALLATION

Professional installation is strongly advised for this fuel gauge. The following steps outline the general installation process. A rear twist-on mounting ring is included for quick and simple installation.

1. Fuel Level Sender Installation

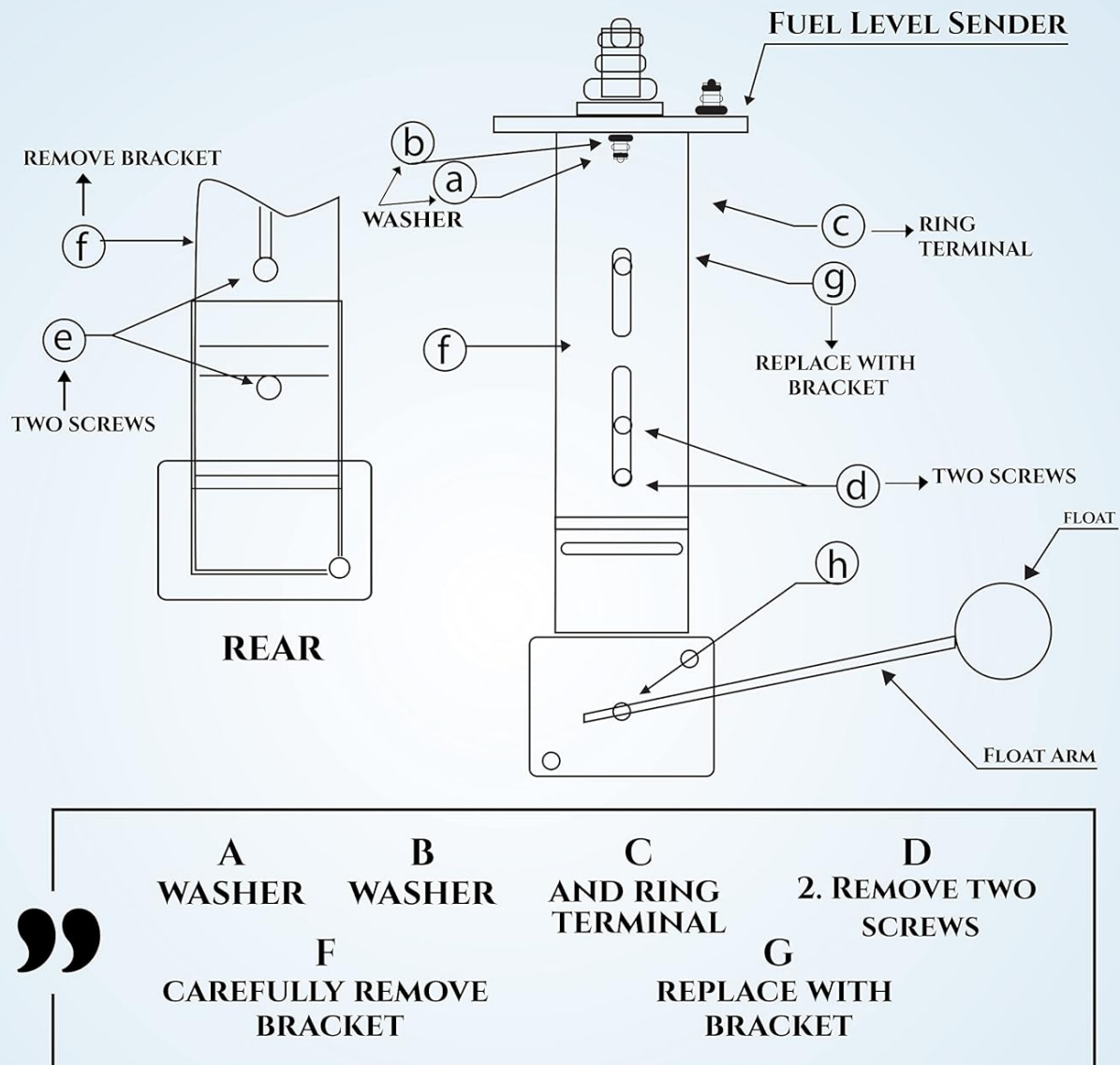


Figure 2: Diagram illustrating the components and assembly of the fuel level sender unit.

This diagram shows the various parts of the fuel level sender, including the float, float arm, bracket, washers, and ring terminal. It details the process of removing and replacing the bracket and screws for installation or maintenance of the sender unit.

1. Identify components: Washer (a), Washer (b), Ring Terminal (c), Two Screws (d), Two Screws (e), Bracket (f), Ring Terminal (g), Float Arm (h), Float.
2. To access the sender unit, carefully remove the bracket (f) by unscrewing the two screws (e) from the rear.
3. Attach the ring terminal (c) and washer (b) to the appropriate connection point on the fuel level sender.
4. Secure the bracket (f) back in place using the two screws (d) after positioning the sender unit correctly within the fuel tank.
5. Ensure the float arm (h) and float are free to move within the tank to accurately measure fuel levels.

2. Wiring Diagram

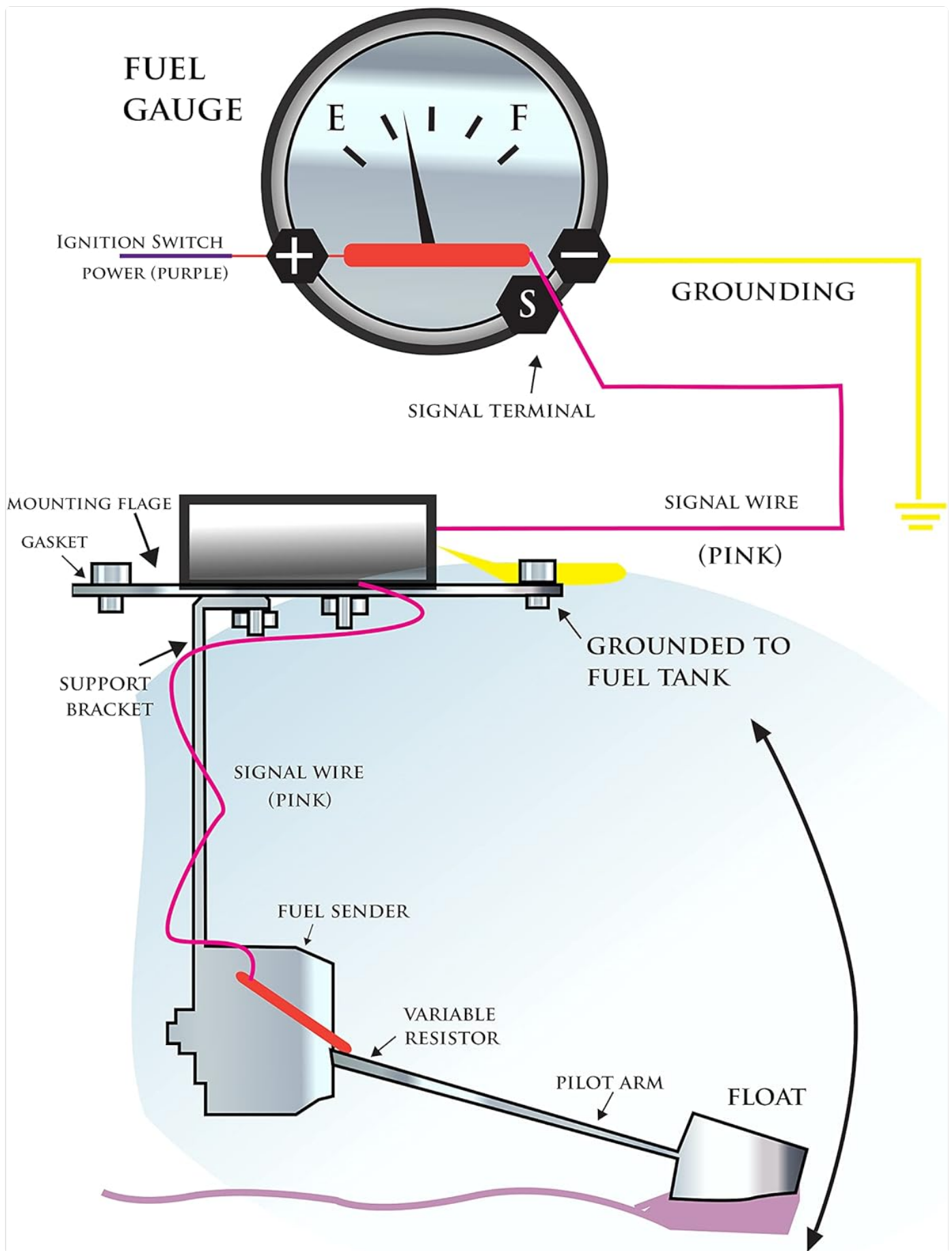


Figure 3: Wiring schematic for connecting the fuel gauge to the vehicle's electrical system and fuel sender.

This diagram illustrates the electrical connections for the fuel gauge. It shows the positive (+) connection to the ignition switch power (purple wire), the signal terminal (S) connected via a pink signal wire to the fuel sender's variable resistor, and the negative (-) connection for grounding. The fuel sender itself is grounded to the fuel tank.

- Connect the positive (+) terminal of the fuel gauge to the ignition switch power source (typically a purple wire).

- Connect the signal terminal (S) of the fuel gauge to the signal wire (typically pink) coming from the fuel sender unit. This signal wire connects to the variable resistor within the fuel sender.
- Connect the negative (-) terminal of the fuel gauge to a reliable grounding point.
- Ensure the fuel sender unit itself is properly grounded to the fuel tank for accurate readings.
- After wiring, secure the gauge in the instrument panel using the provided rear twist-on mounting ring.

OPERATING INSTRUCTIONS

Once properly installed and wired, the fuel gauge operates automatically when the vehicle's ignition is on. The analog needle will sweep to indicate the current fuel level in the tank.

- **Power On:** Turn the vehicle's ignition key to the "ON" position. The fuel gauge will power on and the needle will move to display the fuel level.
- **Reading the Gauge:** The gauge face is marked with 'E' for Empty, '1/2' for Half, and 'F' for Full. The red needle will point to the corresponding fuel level.
- **Stable Performance:** The 90-degree analog needle sweep ensures stable and reliable performance, providing accurate readings without significant fluctuations.

MAINTENANCE

The Auto Gauge Fuel Level Meter is designed for durability and requires minimal maintenance. Following these guidelines will help ensure its longevity and continued accurate performance:

- **Cleaning:** Clean the gauge face with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the glass or bezel.
- **Environmental Conditions:** The gauge is designed to work best between -40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit). It is waterproof and dustproof, but avoid prolonged submersion or exposure to extreme conditions beyond its operating range.
- **Connections:** Periodically check all electrical connections to ensure they are secure and free from corrosion. Loose connections can lead to inaccurate readings or intermittent operation.
- **Anti-Rust Properties:** The gauge is made from durable, anti-rust aftermarket materials. However, in highly corrosive environments, occasional inspection for signs of wear or corrosion is recommended.

TROUBLESHOOTING

If you experience issues with your fuel level meter, consider the following common troubleshooting steps:

- **Gauge Not Reading / Stuck on Empty/Full:**
 - Check all wiring connections (power, ground, signal) for looseness or corrosion.
 - Verify that the fuel sender unit is properly grounded to the fuel tank.
 - Inspect the fuel sender unit itself for mechanical issues with the float arm or variable resistor. A malfunctioning sender is a common cause of inaccurate readings.
 - Ensure the gauge is receiving proper 12-volt power.
- **Inaccurate Readings:**
 - Confirm the fuel sender unit's resistance range is compatible with the gauge.
 - Check for any interference or electrical noise in the signal wire.
 - Ensure the float arm on the sender unit is not obstructed and moves freely.

- **No Power to Gauge:**
 - Check the fuse in the vehicle's electrical system that supplies power to the instrument panel.
 - Verify the ignition switch is providing power to the gauge's positive terminal.
- **Anti-fogging Performance:** The gauge features anti-fogging performance. If fogging occurs, ensure the seal is intact and there is no moisture ingress.
- **Reverse Polarity Protection:** The gauge includes reverse polarity protection. If wired incorrectly, it should not be damaged, but it will not function until wired correctly.

If problems persist after attempting these steps, it is recommended to consult a qualified automotive technician.

SPECIFICATIONS

Model Number	FG-159
Brand	Generic
Manufacturer	Veethree
Material	Stainless Steel, Glass
Screen Size	2 Inches
Operating Voltage	12 Volt
Operating Temperature	-40 to 85 degrees Celsius (-40 to 185 degrees Fahrenheit)
Features	Waterproof, Dustproof, Anti-fogging, Reverse Polarity Protection, 90-degree analog needle sweep
UPC	785571415063

WARRANTY AND SUPPORT

This product is manufactured to high-quality standards. While specific warranty details are not provided in this manual, the manufacturer stands by the quality of its genuine aftermarket gauges. If you encounter any issues or require assistance, please refer to the seller or manufacturer's official support channels for information regarding returns, replacements, or technical support.

For further assistance, please contact the seller or visit the product page on Amazon.com for updated support information.

