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Faria Beede INSTRUMENTS 13818

Faria FA13818 Fuel Gauge Instruction Manual

Model: 13818

PRODUCT OVERVIEW

The Faria FA13818 is a high-quality fuel level indicator designed for marine and automotive applications. This gauge provides accurate readings of your fuel tank's contents, ensuring you are always aware of your fuel status. Its robust construction and clear display make it an essential instrument for reliable operation.

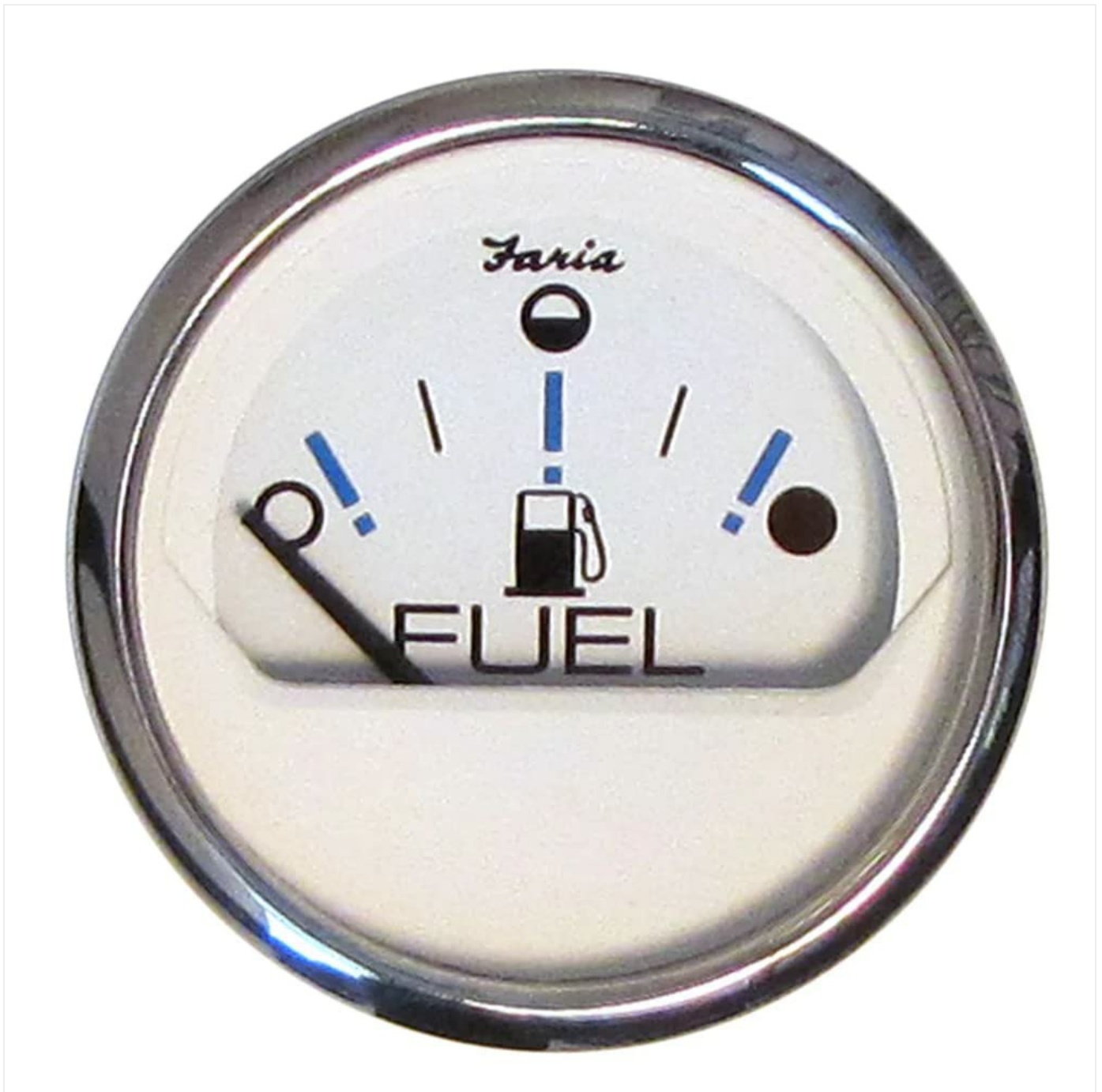


Figure 1: Front view of the Faria FA13818 Fuel Gauge. This image shows the circular gauge with a white face, black markings for fuel levels, a fuel pump icon, and the "FUEL" label. The Faria brand name is visible at the top.

SETUP AND INSTALLATION

Proper installation is crucial for the accurate and safe operation of your Faria fuel gauge. Please follow these steps carefully.

Tools Required:

- Drill with appropriate hole saw (typically 2-1/16 inch or 53mm for standard gauges)
- Screwdriver (Phillips or flathead, depending on mounting screws)
- Wire strippers/crimpers
- Electrical tape or heat shrink tubing
- Marine-grade electrical connectors
- Multimeter (for testing connections)

Mounting Instructions:

1. **Choose Location:** Select a flat, secure surface on your dashboard or panel that is free from obstructions and provides good visibility.
2. **Cut Hole:** Using the appropriate hole saw, carefully cut a mounting hole in the chosen location. Ensure the hole is clean and free of debris.
3. **Insert Gauge:** Insert the gauge into the mounting hole from the front of the panel.
4. **Secure Gauge:** From the rear of the panel, place the mounting bracket over the threaded studs on the back of the gauge. Secure it with the supplied nuts, tightening them evenly until the gauge is snug. Do not overtighten.

Wiring Diagram and Connections:

Refer to the following general wiring guidelines. Always consult your vessel's specific wiring diagram if available.

- **Ignition (I):** Connect this terminal to a switched 12V DC power source (e.g., ignition switch or accessory circuit). This wire provides power to the gauge when the ignition is on.
- **Ground (G):** Connect this terminal to a reliable common ground point on your vessel. A good ground connection is essential for accurate readings.
- **Sender (S):** Connect this terminal to the signal wire from your fuel tank sender unit. Ensure your sender unit is compatible with Faria gauges (typically 240-33 Ohm for standard marine applications).
- **Illumination (L):** If your gauge has backlighting, connect this terminal to your vessel's navigation light circuit or a separate switched 12V DC source for illumination.

Important: Ensure all connections are secure, insulated, and protected from moisture and corrosion. Incorrect wiring can damage the gauge or other electrical components.

OPERATING INSTRUCTIONS

Once installed and wired correctly, operating the Faria FA13818 fuel gauge is straightforward.

1. **Power On:** Turn on your vessel's ignition or the accessory switch connected to the gauge's power supply.
2. **Read Fuel Level:** The needle on the gauge will move to indicate the current fuel level in your tank. The gauge typically displays levels from "E" (Empty) to "F" (Full).
3. **Monitor Fuel:** Regularly monitor your fuel level, especially during long trips, to avoid running out of fuel.
4. **Illumination:** If wired, the gauge's backlight will activate when the illumination circuit is powered, providing visibility in low-light conditions.

Note: Fuel level readings may fluctuate slightly due to vessel movement or rough water conditions. This is normal.

MAINTENANCE

The Faria FA13818 fuel gauge is designed for durability and requires minimal maintenance.

- **Cleaning:** Clean the gauge face with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the lens or bezel.
- **Connections:** Periodically inspect all electrical connections for corrosion or looseness. Ensure they remain clean and secure.
- **Sender Unit:** While the gauge itself is low maintenance, ensure your fuel tank sender unit is clean and functioning correctly, as issues with the sender can affect gauge accuracy.

TROUBLESHOOTING

If you experience issues with your Faria FA13818 fuel gauge, consult the following troubleshooting guide:

| Problem | Possible Cause | Solution |
|------------------------------------|---|--|
| Gauge reads "Empty" or no movement | No power to gauge; Poor ground connection; Faulty sender unit; Open circuit in sender wire. | Check ignition power connection; Verify ground connection; Test sender unit for proper resistance; Inspect sender wire for breaks. |
| Gauge reads "Full" constantly | Short circuit in sender wire; Faulty sender unit. | Inspect sender wire for shorts to ground; Test sender unit for proper resistance. |
| Inaccurate readings | Incompatible sender unit; Poor sender calibration; Intermittent connection. | Ensure sender unit resistance range matches gauge; Check sender unit for mechanical issues; Verify all connections are secure. |
| No backlight illumination | No power to illumination terminal; Blown bulb (if applicable); Faulty illumination wire. | Check illumination power connection; Replace bulb if necessary; Inspect illumination wire. |

If the problem persists after following these steps, it may indicate an internal fault with the gauge or sender unit. Contact Faria Beede INSTRUMENTS customer support for further assistance.

SPECIFICATIONS

Key technical specifications for the Faria FA13818 Fuel Gauge:

- **Model Number:** 13818
- **Brand:** Faria Beede INSTRUMENTS
- **Type:** Fuel Level Indicator
- **Material:** Plastic (as per product specifications)
- **Dimensions (L x W x H):** Approximately 12.7 x 10.2 x 10.2 cm (5 x 4 x 4 inches)
- **Weight:** Approximately 117.93 grams (0.26 lbs)
- **Display Size:** 4 Inches (as per product specifications)
- **UPC:** 759266138186
- **Compatibility:** Designed for use with standard marine fuel tank sender units (e.g., 240-33 Ohm).

WARRANTY AND SUPPORT

Faria Beede INSTRUMENTS products are manufactured to high standards. For specific warranty information regarding your FA13818 fuel gauge, please refer to the warranty card included with your purchase or visit the official Faria Beede INSTRUMENTS website.

For technical support, installation assistance, or parts inquiries, please contact Faria Beede INSTRUMENTS customer service. Contact details can typically be found on their official website or in the product packaging.

Website: www.faria-instruments.com (Example link, verify official site)