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Faria 14601

Faria 14601 Pro Fuel Level Gauge - User Manual

Model: 14601

PRODUCT OVERVIEW

The Faria 14601 Pro Fuel Level Gauge is designed to accurately display the fuel level in your vehicle or marine vessel. It operates by sending a low amperage current through the gauge's meter to ground via a sending unit with variable resistance. As the sender's resistance varies with changes in fuel level, the amount of current flowing to ground changes, causing the meter to deflect and show the current fuel level.



Image: A black circular fuel level gauge with white markings for 'E' (Empty), '1/2', and 'F' (Full), and a white needle pointing towards 'E'. The word 'FUEL' is printed below the '1/2' mark, and 'Faria' is written in red script at the bottom.

Key features include:

- Available in US standard or Metric units.
- 2-inch diameter, requiring a hole size of 2.0625 inches (53mm) for installation.
- Constructed with high-quality, marine-durable materials.
- Designed for quick and simple installation.

SETUP AND INSTALLATION

Proper installation is crucial for accurate operation and longevity of your Faria Fuel Level Gauge. It is recommended that installation be performed by a qualified technician.

Tools and Materials Required:

- Drill with 2.0625" (53mm) hole saw
- Wire strippers/crimpers
- Electrical connectors (crimp-on terminals)

- Marine-grade electrical wire (appropriate gauge)
- Multimeter (for testing connections)
- Sealant (if installing in a wet environment)

Installation Steps:

1. **Disconnect Power:** Before beginning any electrical work, ensure all power to the system is disconnected to prevent electrical shock or damage to components.
2. **Choose Mounting Location:** Select a flat, secure surface on your dashboard or panel that is easily visible and accessible. Ensure there is sufficient clearance behind the panel for the gauge body and wiring.
3. **Cut Mounting Hole:** Using a 2.0625" (53mm) hole saw, carefully cut the mounting hole in the chosen location. Deburr the edges of the hole.
4. **Wire Connections:**
 - **Ignition/Switched Power (+12V):** Connect the gauge's ignition terminal (usually marked "I" or "+") to a switched 12V DC power source that is active when the ignition is on. This should be fused appropriately.
 - **Ground (-):** Connect the gauge's ground terminal (usually marked "G" or "-") to a reliable common ground point on your vehicle/vessel's electrical system.
 - **Sender Unit:** Connect the gauge's sender terminal (usually marked "S") to the output wire of your fuel level sending unit. Ensure the sending unit is compatible with the gauge (typically 240-33 Ohm for Faria).
 - **Illumination (Optional):** If your gauge has an illumination terminal, connect it to a switched 12V DC power source that activates with your dashboard lights.
5. **Mount the Gauge:** Insert the gauge into the mounting hole. Secure it from behind the panel using the supplied mounting bracket and nuts. Do not overtighten.
6. **Test Operation:** Reconnect power to the system. Turn on the ignition. The gauge needle should move to indicate the current fuel level. If the tank is full, it should read "F"; if empty, it should read "E".

Important: Ensure all electrical connections are secure and insulated to prevent short circuits and corrosion, especially in marine environments.

OPERATING INSTRUCTIONS

The Faria Pro Fuel Level Gauge is designed for straightforward operation.

1. **Power On:** Turn on the ignition of your vehicle or vessel. The gauge will receive power and the needle will move to indicate the current fuel level.
2. **Reading the Gauge:**
 - The "E" mark indicates an empty fuel tank.
 - The "1/2" mark indicates a half-full fuel tank.
 - The "F" mark indicates a full fuel tank.
3. **Fluctuations:** It is normal for the needle to fluctuate slightly during vehicle movement or in rough water conditions due to fuel sloshing in the tank.

MAINTENANCE

The Faria Fuel Level Gauge requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Clean the gauge face with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the lens or markings.
- **Electrical Connections:** Periodically inspect all electrical connections for corrosion or looseness. Clean and tighten

as necessary. In marine environments, consider applying dielectric grease to connections to prevent corrosion.

- **Sender Unit:** Ensure the fuel level sending unit in your tank is functioning correctly. A faulty sender can lead to inaccurate readings on the gauge. Refer to your vehicle/vessel's manual for sender unit maintenance.

TROUBLESHOOTING

If your Faria Fuel Level Gauge is not functioning as expected, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Gauge reads "E" constantly or does not move.	<ul style="list-style-type: none">• No power to gauge.• Poor ground connection.• Open circuit in sender wire.• Faulty fuel level sender unit.	<ul style="list-style-type: none">• Check fuse and power supply to the ignition terminal.• Verify ground connection is secure and free of corrosion.• Inspect sender wire for breaks or loose connections.• Test sender unit resistance; replace if faulty.
Gauge reads "F" constantly or is stuck at full.	<ul style="list-style-type: none">• Short circuit in sender wire to ground.• Faulty fuel level sender unit (stuck at low resistance).	<ul style="list-style-type: none">• Inspect sender wire for insulation damage or contact with ground.• Test sender unit resistance; replace if faulty.
Inaccurate or erratic readings.	<ul style="list-style-type: none">• Incorrect sender unit type.• Loose or corroded connections.• Interference from other electrical components.• Faulty fuel level sender unit.	<ul style="list-style-type: none">• Ensure sender unit resistance range matches Faria gauge specifications (240-33 Ohm).• Check all wiring connections for tightness and cleanliness.• Ensure proper grounding and shielding of wires if necessary.• Test and replace sender unit if inconsistent.

SPECIFICATIONS

Attribute	Detail
Brand	Faria
Model Number	14601
Type	Pro Fuel Level Gauge
Color	Red (markings), Black (bezel)
Size	2 inches
Hole Size Required	2.0625 inches (53mm)
Material	Plastic
Item Dimensions (L x W x H)	4 x 3.5 x 4.5 inches
Item Weight	0.26 Pounds (approx. 4.2 ounces)
UPC	759266146013
Compatibility	Typically compatible with 240-33 Ohm fuel level sending units.

WARRANTY AND SUPPORT

Faria gauges are manufactured to high standards and are typically covered by a manufacturer's warranty against defects in materials and workmanship. Specific warranty terms and duration may vary. Please retain your proof of purchase. For technical support, warranty claims, or further assistance, please contact Faria customer service directly. Contact information can usually be found on the manufacturer's official website or product packaging.

Note: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning). For more information, visit www.P65Warnings.ca.gov.