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› Faria Platinum 2" Voltmeter (10-16 VDC) User Manual

Faria 22022

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Model: 22022

INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Faria Platinum 2" Voltmeter (10-16 VDC). Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

PRODUCT OVERVIEW

The Faria Platinum 2" Voltmeter is designed to accurately monitor the voltage of your vehicle's or boat's electrical system, providing critical information about battery health and charging system performance. Its durable construction and clear display make it an essential instrument for any application requiring precise voltage monitoring.



Figure 1: Faria Platinum 2" Voltmeter (10-16 VDC). This image shows the front view of the voltmeter, featuring a black dial with white markings for 10, 12, 14, and 16 volts. An orange needle points to approximately 14 volts. The word "VOLT" is displayed at the bottom, and a battery icon is on the right side. The gauge is encased in a polished chrome bezel.

SETUP AND INSTALLATION

Proper installation is crucial for accurate readings and safe operation. If you are unsure about any step, consult a qualified technician.

Tools and Materials Required:

- Drill with appropriate hole saw (typically 2-1/16" or 52mm for 2" gauges)
- Wire strippers/crimpers
- Electrical tape or heat shrink tubing
- Ring terminals or spade connectors (as required by your wiring)
- Fuse holder and appropriate fuse (e.g., 1A)
- Multimeter for testing

Installation Steps:

1. **Disconnect Power:** Before beginning any electrical work, ensure all power to the circuit is

disconnected to prevent electrical shock or damage to components. Disconnect the battery's negative terminal.

2. **Choose Mounting Location:** Select a flat, stable surface on your dashboard or panel that is free from obstructions and provides good visibility. Ensure there is sufficient clearance behind the panel for the gauge body and wiring.
3. **Cut Mounting Hole:** Using the appropriate hole saw, carefully cut a 2-1/16" (52mm) diameter hole in the chosen mounting location. Deburr the edges of the hole.
4. **Mount the Gauge:** Insert the voltmeter into the mounting hole from the front. Secure it in place using the supplied mounting bracket and nuts on the rear of the panel. Do not overtighten.
5. **Wiring Connections:**
 - **Positive (+12V/Ignition):** Connect the positive terminal of the voltmeter (usually marked "IGN" or "+") to a switched 12V DC power source (e.g., ignition circuit) that is fused. A 1A fuse is typically sufficient. This connection provides power to the gauge and its internal lighting.
 - **Ground (-):** Connect the negative terminal of the voltmeter (usually marked "GND" or "-") to a reliable chassis ground or the negative terminal of the battery. Ensure a clean, secure connection for accurate readings.
 - **Illumination (Optional):** If your gauge has an illumination wire (often marked "IL" or "LIGHT"), connect it to your vehicle's dashboard lighting circuit. This will illuminate the gauge when your lights are turned on.
6. **Secure Wiring:** Ensure all wiring connections are secure, insulated, and routed away from moving parts or heat sources. Use cable ties to keep wiring neat.
7. **Reconnect Power:** Once all connections are verified, reconnect the battery's negative terminal.
8. **Test Operation:** Turn on the ignition. The voltmeter needle should move and display the current system voltage. If the gauge does not function, refer to the Troubleshooting section.

OPERATING INSTRUCTIONS

The Faria Platinum Voltmeter is designed for continuous monitoring of your electrical system's voltage. No specific user interaction is required beyond observing the readings.

- **Reading the Gauge:** The gauge displays voltage on a scale from 10 to 16 VDC. The needle indicates the current voltage.
- **Normal Operation:** A healthy 12V electrical system typically operates between 12.5V (engine off, fully charged battery) and 14.5V (engine running, charging system active).
- **Low Voltage Indication:** Readings consistently below 12V (engine off) or below 13V (engine running) may indicate a discharged battery, a failing alternator/charging system, or excessive electrical load.
- **High Voltage Indication:** Readings consistently above 15V (engine running) may indicate a faulty voltage regulator or overcharging, which can damage electrical components.

Regularly monitor the voltmeter during vehicle operation to detect potential issues early.

MAINTENANCE

The Faria Platinum Voltmeter requires minimal maintenance to ensure long-term performance.

- **Cleaning:** Clean the gauge face and bezel with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the finish or lens.

- **Connections:** Periodically inspect all electrical connections at the back of the gauge to ensure they are secure and free from corrosion. Loose or corroded connections can lead to inaccurate readings or intermittent operation.
- **Environmental Protection:** While designed for marine and automotive environments, avoid exposing the gauge to extreme temperatures or direct, prolonged water immersion unless specifically rated for such conditions.

TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Gauge does not light up or show any reading.	No power to the gauge; blown fuse; loose positive or ground connection.	Check the fuse in the positive power line. Verify positive (+12V) and ground (-) connections are secure and receiving power/ground using a multimeter.
Inaccurate or fluctuating readings.	Poor ground connection; loose positive connection; electrical interference.	Ensure ground connection is clean and secure. Check positive wire for secure connection. Route wiring away from high-current cables or ignition components if interference is suspected.
Gauge reads 0V constantly.	No power to the gauge; open circuit in positive wire.	Verify power supply to the gauge's positive terminal. Check for breaks in the positive wire.
Gauge reads maximum voltage constantly.	Poor or no ground connection.	Ensure the ground wire is securely connected to a good chassis ground or battery negative terminal.

If the problem persists after attempting these solutions, contact Faria customer support or a qualified technician.

SPECIFICATIONS

Feature	Detail
Brand	Faria
Model Name	22022
Gauge Type	Voltmeter
Measurement Range	10-16 VDC
Gauge Size	2 inches (52mm)
Material	Plastic
Item Dimensions (L x W x H)	5 x 4 x 4 inches
Item Weight	0.3 Pounds

Feature	Detail
UPC	759266220225
Manufacturer	Faria Beede Instruments

WARRANTY INFORMATION

Faria Beede Instruments provides a warranty for this product. For specific details regarding the warranty period, coverage, and claims process, please refer to the warranty card included with your product or visit the official Faria Beede Instruments website. Keep your proof of purchase for warranty claims.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or further inquiries, please contact Faria Beede Instruments customer support. Contact information can typically be found on their official website or on the product packaging.

Website: www.faria-instruments.com