AUTO METER 200756

AutoMeter 200756 Marine Voltmeter Instruction Manual

Model: 200756

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your AutoMeter 200756 Marine Voltmeter. This 2 1/16", 18V electric gauge is designed for marine applications, providing accurate voltage readings for your vessel's electrical system. Please read this manual thoroughly before installation and use to ensure proper function and longevity of your product.

Product Overview

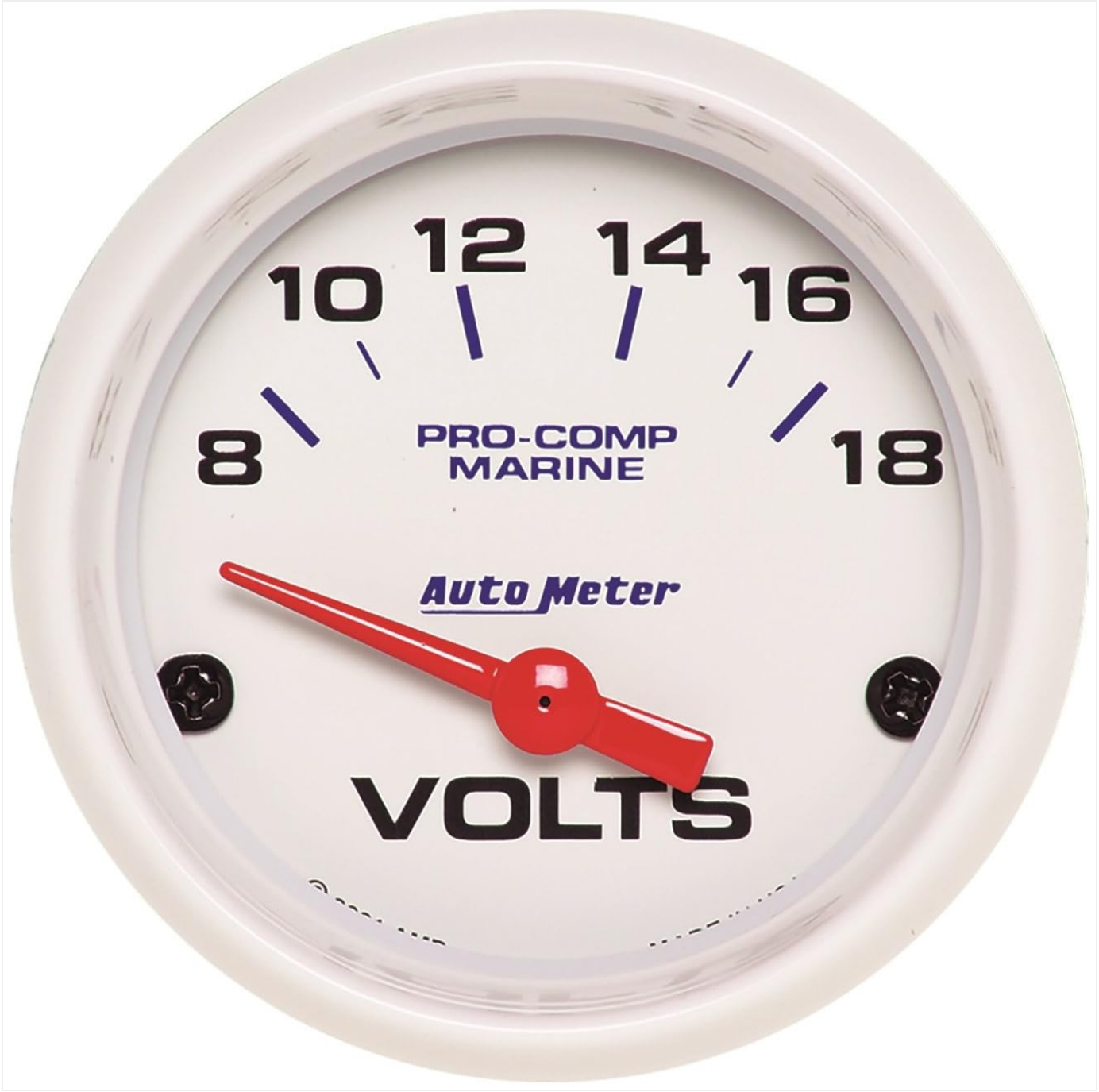


Figure 1: Front view of the AutoMeter 200756 Marine Voltmeter. The gauge features a white face with black numbers indicating voltage from 8 to 18 volts, a red needle, and "PRO-COMP MARINE" and "Auto Meter" branding. Two black screws are visible on the face.

The AutoMeter 200756 is an electric voltmeter specifically engineered for marine environments. It provides a clear, analog display of your boat's electrical system voltage, crucial for monitoring battery health and alternator performance. Its durable construction ensures reliable operation in demanding conditions.

Setup and Installation

Proper installation is critical for accurate readings and safe operation. If you are unsure about any steps, consult a qualified marine electrician.

Tools and Materials Required:

- Drill with appropriate hole saw (2 1/16" diameter)
- Wire strippers/crimpers
- Electrical tape or heat shrink tubing

- Ring terminals or spade connectors (as needed)
- Multimeter (for testing)
- Mounting bracket and hardware (typically included with gauge)

Installation Steps:

1. **Disconnect Power:** Before beginning any electrical work, ensure all power to the vessel's electrical system is disconnected at the battery.
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 1/16" hole saw, carefully cut the mounting hole in the chosen location. Deburr the edges of the hole.
4. **Wire the Gauge:** Refer to the wiring diagram provided with your gauge (if applicable). Typically, a voltmeter requires three connections:
    - **Positive (+12V/18V Switched Power):** Connect to a fused ignition or accessory circuit that is active when the engine is running or key is on.
    - **Ground (-):** Connect to a clean, reliable chassis or battery ground point.
    - **Illumination (Optional):** Connect to the vessel's dash lighting circuit for nighttime visibility.
5. **Secure the Gauge:** Insert the gauge into the mounting hole. Use the supplied mounting bracket and hardware to secure the gauge firmly from behind the panel. Do not overtighten.
6. **Reconnect Power and Test:** Once all connections are secure and insulated, reconnect power to the vessel. Turn on the ignition/accessory circuit and verify the voltmeter powers on and displays a reading. Compare the reading to a known good voltage source using a multimeter if possible.

Operating the Voltmeter

The AutoMeter 200756 Voltmeter provides a continuous display of your vessel's electrical system voltage. Understanding the readings is key to monitoring system health.

Interpreting Readings:

- **Engine Off (Battery Voltage):** A healthy 12V battery should read approximately 12.6 volts when fully charged and the engine is off. Readings below 12.0 volts indicate a discharged battery.
- **Engine Running (Charging Voltage):** With the engine running, the voltmeter should typically read between 13.8 and 14.8 volts. This indicates that the alternator is charging the battery. Readings significantly below this range may indicate an alternator issue or excessive electrical load. Readings significantly above this range could indicate an overcharging condition, which can damage batteries and electronics.
- **Voltage Drop:** Observe the voltage during high electrical loads (e.g., starting the engine, operating high-power accessories). A significant drop in voltage can indicate an undersized battery, weak battery, or poor electrical connections.

Maintenance

The AutoMeter 200756 Voltmeter is designed for minimal maintenance. However, periodic checks can ensure its continued accuracy and appearance.

- **Cleaning:** Clean the gauge face with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the lens or finish.
- **Connection Checks:** Periodically inspect all electrical connections to the gauge for corrosion or looseness. Ensure connections are clean and secure.

- **Environmental Protection:** While designed for marine use, prolonged exposure to direct sunlight or extreme weather conditions can affect the gauge's lifespan. Ensure proper panel sealing to prevent water ingress.

Troubleshooting

Problem	Possible Cause	Solution
Gauge does not power on/no reading	No power to the gauge; Blown fuse; Loose or corroded connections; Faulty ground connection.	Check power supply and fuse; Inspect and clean all wiring connections; Verify ground connection is secure and clean; Test power at the gauge terminals with a multimeter.
Inaccurate readings	Poor electrical connection; Incorrect wiring; Faulty gauge.	Verify all connections are tight and clean; Double-check wiring against diagram; Compare reading with a known accurate multimeter. If discrepancy persists, the gauge may be faulty.
Gauge illumination not working	Blown bulb (if applicable); Loose illumination wire; No power to illumination circuit.	Check and replace bulb; Inspect illumination wire connection; Verify power to the illumination circuit.

Specifications

- **Model Name:** AutoMeter Gauge, Voltmeter, 2 1/16", 18V, Electric, Marine White (200756)
- **Part Number:** 200756
- **Brand:** AUTO METER
- **Gauge Type:** Voltmeter
- **Size:** 2 1/16"
- **Voltage Range:** Up to 18V
- **Color:** Marine White
- **Material:** Plastic
- **Item Package Dimensions:** 5 x 4.49 x 4.49 inches
- **Package Weight:** 0.2 Kilograms
- **Manufacturer:** Auto Meter
- **UPC:** 046074120923

Warranty and Support

This AutoMeter product comes with a manufacturer's warranty. For specific warranty details and duration, please refer to the warranty information included with your product packaging or visit the official Auto Meter website. For technical support or assistance, please contact Auto Meter customer service directly.
Manufacturer: Auto Meter
Website: www.autometer.com (*Note: This is a general link, specific support contact information may vary*)

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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