

# GR-1 Gauge Voltage Regulator

## Important – Please Read Before Installation

This document provides complete installation and usage instructions for the GR-1 Gauge Voltage Regulator. Failure to follow these instructions may result in improper gauge operation or damage to electrical components.

The GR-1 Gauge Voltage Regulator is designed to supply a constant, 6-volt source to fuel, temperature, and other similar gauges that were originally designed for 6-volt systems but are now being used in **12-volt negative-ground** vehicles.

**⚠ Not for use with amp meters or tachometers.** Amp meters are current-based, not voltage-dependent.

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### Intended Applications:

- Dash gauges only (fuel, temperature, etc.)
- Low-current, voltage-dependent gauges only
- Negative ground applications only
- 6- or 12-volt systems

### Not Intended For Use With:

- Positive ground systems
- Tachometers
- Amp gauges (current-based, not voltage-dependent)

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## Installation Steps

### 1. Identify Gauge Terminals

Each gauge has two studs:

- **Battery (Power) Terminal** – may have multiple wires
- **Sending Unit Terminal** – always one wire only

### 2. Locate the Battery Terminal

- Turn ignition ON
- Remove wires from one stud
- If no voltage is present, the removed wire(s) is the battery feed
- If voltage is present, turn off the ignition, replace the removed wire and repeat on the opposite stud
- Turn ignition OFF once identified

### 3. Disconnect Battery for safety

### 4. Install the GR-1

- Slide the **black (ground) wire** terminal under one of the gauge's mounting screws and secure it
- Place 1 of the (included) lock washers onto the bottom nut\* of the gauge's battery stud
- \*If the bottom nut is missing, use flat washers to raise the GR-1 up above the metal housing
- Install GR-1 onto the same battery stud
- Secure the GR-1 with the original nut. **Do not overtighten and make sure the screw head of the GR-1 is unable to contact the metal backside of the instrument housing.**

### 5. Reconnect Power Wires

- Move original battery wire(s) to the “new” additional stud on the GR-1
- Secure using supplied hardware (**do not overtighten**)

### 6. Reconnect Battery & Test

- Reconnect the vehicle battery
- Turn the ignition ON and verify proper gauge operation



Installation is complete!

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## Important Notes

- **One GR-1 is required per gauge.**  
Some early vehicles may have their gauges wired together with a copper metal strip. You will need to separate the gauges & provide a separate battery wire for each gauge from the main battery wire.
  - If your vehicle was originally positive ground, you will need to reverse the terminals on your amp meter to make it read correctly on a negative ground system.
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## 1-Year Warranty

Covered under **Antique Automobile Radio, Inc. Warranty Policy**  
Effective December 1, 2024

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