

AUTO METER 3332

AUTO METER 3332 Water Temperature Gauge Instruction Manual

Model: 3332

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your AUTO METER 3332 Water Temperature Gauge. This instrument is designed to provide accurate readings of your engine's coolant temperature, crucial for monitoring engine health and preventing overheating. Please read this manual thoroughly before proceeding with installation or operation.



Figure 1: The AUTO METER 3332 Water Temperature Gauge. This image displays the gauge's face, featuring a black background with white numerical markings from 120 to 240 degrees Fahrenheit, and a prominent red needle indicating the temperature. The gauge also includes 'SPORT-COMP' and 'Auto Meter' branding.

2. SAFETY INFORMATION

Always prioritize safety during installation and operation. Failure to follow these guidelines may result in personal injury or damage to the product or vehicle.

- Disconnect the vehicle's battery before performing any electrical work.
- Ensure all wiring is properly insulated and secured to prevent short circuits or damage.
- Avoid installing the gauge in locations that obstruct the driver's view or interfere with vehicle controls.
- Wear appropriate personal protective equipment, such as safety glasses and gloves, during installation.
- Allow the engine to cool completely before working on the cooling system to avoid burns from hot coolant or engine components.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- AUTO METER 3332 Water Temperature Gauge
- 6 ft. Tubing (for mechanical temperature sensing)
- 1/2 NPT Adapter/Fitting
- Mounting hardware (typically includes bracket, nuts, and washers)
- Instruction Manual (this document)

4. SETUP AND INSTALLATION

The AUTO METER 3332 is a mechanical water temperature gauge. Proper installation is critical for accurate readings and reliable operation.

4.1. Mounting the Gauge

1. Select a suitable location in the vehicle's dashboard or a dedicated gauge pod that allows for clear visibility without obstructing driving.
2. Cut a mounting hole of the appropriate diameter (refer to the gauge's specific dimensions, typically 2-1/16 inches or 2-5/8 inches for standard gauges) using a hole saw.
3. Insert the gauge into the mounting hole from the front.
4. Secure the gauge from the rear using the supplied mounting bracket, nuts, and washers. Tighten securely but do not overtighten.

4.2. Connecting the Temperature Sensor (Tubing)

1. Locate a suitable port in your engine's cooling system for the temperature sensor. This is typically a threaded port in the intake manifold, cylinder head, or thermostat housing.
2. Ensure the engine is cool and the cooling system is depressurized. Drain a small amount of coolant if necessary to prevent spills.
3. If your vehicle's port is not 1/2 NPT, use the provided 1/2 NPT adapter/fitting or acquire the correct adapter for your application.
4. Carefully thread the temperature sensor bulb (at the end of the 6 ft tubing) into the chosen port. Use a thread sealant (e.g., Teflon tape or pipe sealant) on the threads to prevent leaks. Do not overtighten.
5. Route the 6 ft tubing away from hot engine components and moving parts, securing it with cable ties or clamps. Avoid sharp bends or kinks in the tubing.
6. Connect the other end of the tubing to the back of the gauge, ensuring a secure, leak-free connection.

4.3. Electrical Connections (for Illumination)

While the temperature sensing is mechanical, the gauge requires electrical connections for illumination.

1. **Power (12V Switched):** Connect the positive (+) terminal of the gauge's light bulb socket to a switched 12V power source that activates with your vehicle's headlights or dash lights. This allows the gauge to illuminate when your lights are on.
2. **Ground:** Connect the negative (-) terminal of the gauge's light bulb socket to a reliable chassis ground point.

5. OPERATING INSTRUCTIONS

Once installed, the AUTO METER 3332 Water Temperature Gauge operates automatically. The red needle will indicate the engine's coolant temperature in degrees Fahrenheit.

- Upon starting the engine, the temperature will gradually rise as the engine warms up.

- Normal operating temperatures typically range between 180°F and 220°F, depending on the vehicle and driving conditions. Consult your vehicle's service manual for specific normal operating ranges.
- A reading consistently above 220°F or rapidly approaching 240°F indicates an overheating condition. Immediately investigate the cause.
- A reading consistently below 160°F after the engine has warmed up may indicate a thermostat issue or other cooling system problem.

6. MAINTENANCE

The AUTO METER 3332 Water Temperature Gauge requires minimal maintenance to ensure continued accuracy and longevity.

- **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 the temperature tubing connections for any signs of leaks or damage. Ensure electrical connections for illumination remain secure.
- **Tubing Integrity:** Check the 6 ft tubing for any signs of kinking, chafing, or damage that could affect its accuracy or lead to leaks.

7. TROUBLESHOOTING

If you encounter issues with your water temperature gauge, refer to the following troubleshooting steps:

Problem	Possible Cause	Solution
Gauge reads 0°F or very low	<ul style="list-style-type: none">• Sensor not properly installed in coolant stream.• Tubing kinked or damaged.• Loss of fluid in the mechanical tubing.	<ul style="list-style-type: none">• Verify sensor is fully submerged in coolant.• Inspect tubing for kinks or damage; replace if necessary.• If fluid loss is suspected, the gauge may need replacement or professional repair.
Gauge reads consistently high	<ul style="list-style-type: none">• Actual engine overheating.• Sensor installed in a hot spot not representative of average coolant temp.	<ul style="list-style-type: none">• Check vehicle's cooling system (coolant level, fan operation, thermostat).• Relocate sensor to a more appropriate port if possible.
Gauge reads inconsistently or erratically	<ul style="list-style-type: none">• Air pocket around sensor.• Loose connection at gauge or sensor.	<ul style="list-style-type: none">• Bleed cooling system to remove air.• Ensure all connections are tight and secure.

Problem	Possible Cause	Solution
Gauge illumination not working	<ul style="list-style-type: none"> • Blown bulb. • Loose or incorrect electrical connections. • Blown fuse in vehicle's circuit. 	<ul style="list-style-type: none"> • Replace bulb. • Check 12V power and ground connections. • Inspect vehicle's fuse box for blown fuses.

8. SPECIFICATIONS

Feature	Detail
Model Number	3332
Gauge Type	Mechanical Water Temperature Gauge
Temperature Range	120°F - 240°F
Sensor Type	Capillary tube with bulb
Tubing Length	6 ft.
Fitting Included	1/2 NPT Adapter/Fitting
Material	Nylon (for certain components)
Item Weight	1.15 pounds
Package Dimensions	6.29 x 5.01 x 4.39 inches
Manufacturer	Auto Meter

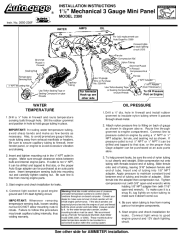
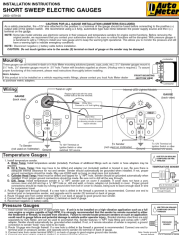
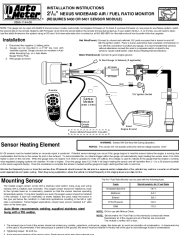
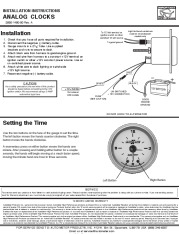
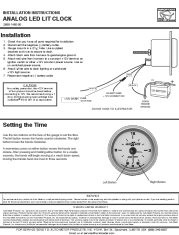
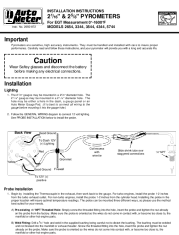
9. WARRANTY AND SUPPORT

For specific warranty information, please refer to the documentation included with your product or visit the official AUTO METER website. Warranty terms and conditions may vary.

For technical support, installation assistance, or parts inquiries, please contact AUTO METER customer service directly. Contact information can typically be found on the manufacturer's website or product packaging.

10. LEGAL DISCLAIMER

CALIFORNIA WARNING: Cancer and Reproductive Harm -www.P65Warnings.ca.gov

	<p>Auto Gage 2390 1½" Mechanical 3 Gauge Mini Panel Installation Guide</p> <p>Detailed installation instructions, wiring diagrams, and warranty information for the Auto Gage Model 2390 1½-inch Mechanical 3 Gauge Mini Panel, featuring water temperature, oil pressure, and ammeter gauges. Includes component identification, mounting procedures, electrical connections, and important warnings.</p>
	<p>Auto Meter Short Sweep Electric Gauges Installation Instructions</p> <p>Detailed installation instructions for Auto Meter Short Sweep Electric Gauges, covering mounting, wiring, and setup for temperature, pressure, ammeter, fuel level, and voltmeter gauges.</p>
	<p>Auto Meter Nexus Wideband Air/Fuel Ratio Monitor Installation & Operation Guide</p> <p>Comprehensive guide for installing and operating the Auto Meter Nexus Wideband Air/Fuel Ratio Monitor (2650-1144-00). Learn about wiring, sensor mounting, modes, settings, and troubleshooting.</p>
	<p>Auto Meter Analog Clock Installation and Setup Guide (2650-1480-00)</p> <p>Comprehensive installation instructions, time setting guide, and warranty information for the Auto Meter 2650-1480-00 Analog Clock. Learn how to properly wire and set up your Auto Meter gauge.</p>
	<p>Auto Meter Analog LED Lit Clock Installation Instructions & Warranty</p> <p>Detailed installation guide and warranty information for the Auto Meter 2650-1480-00 Analog LED Lit Clock. Learn how to wire and set your clock.</p>
	<p>Auto Meter Pyrometer Installation Instructions</p> <p>Installation guide for Auto Meter 2 1/16" and 2 5/8" Pyrometers (0°-1600°F) for EGT measurement, covering models 2654, 3344, 3544, 4344, 5744. Includes important safety precautions, installation steps for gauges and probes, wiring diagrams, and warranty information.</p>