

VDO 310153

VDO 310153 Vision Style Electrical Pyrometer Gauge Kit User Manual

Model: 310153 | Brand: VDO

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your VDO 310153 Vision Style Electrical Pyrometer Gauge Kit. Please read this manual thoroughly before attempting installation or operation to ensure proper function and safety.

2. SAFETY INFORMATION

WARNING: This product can expose you to chemicals including LEAD which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to [P65Warnings.ca.gov](https://www.P65Warnings.ca.gov).

- Always disconnect the vehicle's battery before performing any electrical work.
- Ensure all wiring connections are secure and properly insulated to prevent short circuits.
- Consult a qualified professional for installation if you are unfamiliar with automotive electrical systems.
- Do not operate the gauge if it appears damaged.

3. PRODUCT OVERVIEW AND FEATURES

The VDO 310153 Vision Style Electrical Pyrometer Gauge Kit is designed for accurate temperature monitoring in various applications, particularly in marine and automotive environments. Its crisp black dial and matching bezel offer a clear and stylish display.



This image displays the VDO Vision Style Electrical Pyrometer Gauge. It features a black dial with white numerical markings for temperature in Fahrenheit, ranging from 25 to 165 (multiplied by 10). The gauge has an orange needle indicating a low temperature, and the VDO logo is visible at the bottom. The bezel is black, and the housing is white.

Key Features:

- **Crisp Black Dial:** High contrast clear white graphics for easy readability.
- **VDO Tri-optic Illumination:** Through-dial illumination for visibility in various lighting conditions.
- **Accurate Performance:** Patented VDO movements ensure smooth and precise readings.
- **Easy Installation:** Features VDO Spin-lok™ mounting for quick and secure setup.
- **Included Components:** Kit includes the gauge (310-151), sender (323-892), and a 12-foot wiring harness.
- **Wide Temperature Range:** Measures from 250°F to 1650°F (dial markings are Fx10).
- **Voltage:** Designed for 12 Volt electrical systems.
- **Illumination Customization:** Included light diffusers allow changing dial illumination color to red or green.

4. SETUP AND INSTALLATION

Proper installation is crucial for the accurate and safe operation of your pyrometer gauge. If you are not experienced with automotive electrical systems, it is recommended to seek professional assistance.

4.1 Package Contents:

- VDO Vision Style Electrical Pyrometer Gauge (Model 310-151)
- Temperature Sender (Model 323-892)
- Wiring Harness (12-foot lead)
- Spin-Lok™ Mounting Hardware
- Light Diffusers (Red and Green)

4.2 Mounting the Gauge:

1. Select a suitable location on your dashboard or panel for the 2-1/16" (52mm) diameter gauge.
2. Cut a clean, circular hole of the appropriate size.
3. Insert the gauge into the opening.
4. Secure the gauge using the VDO Spin-lok™ mounting hardware from the rear of the panel. Tighten firmly but do not overtighten.

4.3 Electrical Connections:

The gauge utilizes standard 0.25" spade connectors for simplified wiring.

1. **Power Connection:** Connect the positive (+) terminal of the gauge to a switched 12V power source (e.g., ignition circuit) using the wiring harness.
2. **Ground Connection:** Connect the negative (-) terminal of the gauge to a reliable chassis ground.
3. **Sender Connection:** Connect the signal wire from the pyrometer sender (323-892) to the designated sender input terminal on the gauge. Ensure the sender is correctly installed in the exhaust system or other temperature measurement point according to its specific instructions.
4. **Illumination:** Connect the illumination wire to your vehicle's dashboard lighting circuit to enable backlighting when headlights are on.
5. **Diffuser Installation:** If desired, place the red or green light diffuser over the gauge's light source before final assembly to change the illumination color.

Always double-check all connections before restoring power to the vehicle.

5. OPERATION

Once properly installed and powered, the VDO pyrometer gauge will display the temperature from its sender unit.

5.1 Reading the Gauge:

- The gauge displays temperature in Fahrenheit (°F).
- The numerical markings on the dial are multiplied by 10 (Fx10). For example, a reading of '25' indicates 250°F, and '165' indicates 1650°F.
- The orange needle will sweep across the dial to indicate the current temperature.

5.2 Illumination:

The gauge's dial will illuminate when connected to the vehicle's lighting circuit. The color of the illumination can be customized using the included red or green diffusers during installation.

6. MAINTENANCE

The VDO pyrometer gauge is designed for long-term reliability with minimal maintenance.

- **Cleaning:** Wipe the gauge face and bezel with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the finish or clear lens.
- **Connections:** Periodically check all electrical connections for tightness and corrosion. Ensure the sender unit is securely mounted and its wiring is intact.
- **Environmental Protection:** While designed for harsh environments, avoid direct exposure to extreme moisture or corrosive chemicals where possible.

7. TROUBLESHOOTING

If you experience issues with your VDO pyrometer gauge, refer to the following common troubleshooting steps:

- **Gauge Not Functioning (No Reading):**
 - Check all power and ground connections for proper voltage and continuity.
 - Verify the sender unit is correctly installed and connected to the gauge.
 - Inspect the wiring harness for any breaks or damage.
 - Ensure the vehicle's battery is adequately charged.
- **Inaccurate Readings:**
 - Confirm the sender unit is correctly positioned to measure the desired temperature.
 - Check for loose or corroded connections between the sender and the gauge.
 - Ensure the sender unit itself is not damaged.
- **No Illumination:**
 - Check the illumination wire connection to the vehicle's lighting circuit.
 - Verify that the vehicle's lights are on.
 - Inspect for any blown fuses in the lighting circuit.

If problems persist after performing these checks, contact VDO customer support or a qualified technician.

8. SPECIFICATIONS

Feature	Detail
Model Number	310153
Brand	VDO
Gauge Diameter	2-1/16" (52mm)
Measurement Range	250°F - 1650°F (Fx10 on dial)
Technology	Electronic
Voltage	12 Volts
Connection Type	0.250" Spade
Mounting Hardware	Spin-Lok™

Included Components	Gauge (310-151), Sender (323-892), 12' Wiring Harness
Product Dimensions	8 x 6 x 4 inches (Box Dimensions)
Item Weight	15.2 ounces
UPC	754059016825

9. WARRANTY AND SUPPORT

9.1 Warranty Information:

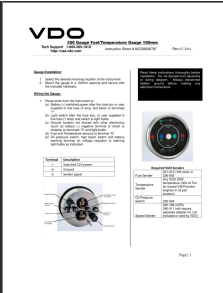
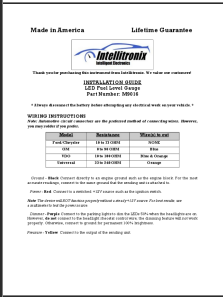
VDO products are manufactured to high standards and are typically covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions applicable to your VDO 310153 Pyrometer Gauge Kit, please refer to the documentation included with your purchase or visit the official VDO website. Keep your proof of purchase for warranty claims.



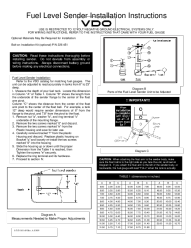

9.2 Customer Support:

Should you require technical assistance, have questions about installation, or need to report a defect, please contact VDO customer support. Contact information can usually be found on the official VDO website or on the product packaging.

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Related Documents - 310153

	<p>VDO 356 Gauge Fuel/Temperature Gauge 100mm Installation and Wiring Instructions</p> <p>Detailed installation and wiring instructions for the VDO 356 Gauge 100mm Fuel/Temperature Gauge, including sender compatibility and warning light connections.</p>
	<p>Intellitronix M9016 LED Fuel Level Gauge Installation Guide</p> <p>Comprehensive installation guide for the Intellitronix M9016 LED Fuel Level Gauge, detailing wiring instructions, model compatibility, resistance values, and safety precautions for automotive use.</p>

	<p>VDO M1 WR Cycle Computer User Manual</p> <p>Comprehensive user manual for the VDO M1 WR cycle computer, detailing installation, operation, settings, functions, troubleshooting, and technical specifications.</p>
	<p>VDO Product Catalog: Solutions for Fleets and Workshops</p> <p>Comprehensive product catalog from VDO featuring tachographs, download keys, fleet management solutions, workshop tools, and accessories for commercial vehicles. Includes details on DTCO 4.1, DTCO 3.0a, speed sensors, and VDO Fleet services.</p>
	<p>VDO Fuel Level Sender Installation Guide</p> <p>Comprehensive installation instructions for the VDO Fuel Level Sender, including adjustments for various tank depths and mounting options. Covers safety precautions and warranty information.</p>
	<p>VDO M4 WR: Manuale d'Uso Completo per Computer da Ciclismo</p> <p>Guida dettagliata al computer da ciclismo VDO M4 WR. Scopri come impostare, utilizzare e massimizzare le funzionalità di velocità, altitudine, distanza e tempo per migliorare le tue prestazioni ciclistiche.</p>

Documents - VDO – 310153

no relevant documents