

## Dorman 86602

# Dorman 86602 Computer Safe Logic Probe User Manual

Model: 86602

## 1. INTRODUCTION

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This manual provides essential information for the safe and effective use of your Dorman 86602 Computer Safe Logic Probe. This diagnostic tool is designed to test electrical circuits in various automotive and household applications, providing reliable results. Please read this manual thoroughly before operation.

## 2. PRODUCT OVERVIEW

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The Dorman 86602 Logic Probe is a hand-held device used to detect voltage presence and polarity in electrical circuits. It features a durable construction and is designed for safety in most automotive environments.



Figure 1: The Dorman 86602 Computer Safe Logic Probe, showing the main unit with a transparent body, a red probe tip, and attached coiled wire leading to red and black alligator clips.

## 2.1 Components

- **Probe Tip:** The pointed end used to contact the circuit being tested.
- **Probe Body:** Contains the internal circuitry and indicator lights (if applicable).
- **Coiled Cable:** Connects the probe body to the power clips.
- **Alligator Clips:** Red for positive (+) connection, Black for negative (-) or ground connection.

## 3. SAFETY INFORMATION

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**WARNING: Electrical testing can be hazardous. Always follow proper safety procedures to prevent injury or damage to the vehicle/equipment.**

- Always wear appropriate personal protective equipment, including safety glasses.
- Ensure the vehicle's ignition is off unless specific tests require it to be on.
- Do not use the probe on circuits exceeding its specified voltage range.
- Avoid touching live electrical components with bare hands.
- Keep the probe and its cables away from moving engine parts, hot surfaces, and sharp edges.
- If the probe appears damaged, do not use it.

## 4. SETUP

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Before using the Dorman 86602 Logic Probe, ensure proper connection to a power source.

1. **Identify Power Source:** Locate a reliable 12V or 24V DC power source (e.g., vehicle battery).
2. **Connect Ground:** Attach the **black** alligator clip securely to a known good ground point (e.g., vehicle chassis,

negative battery terminal).

3. **Connect Power:** Attach the **red** alligator clip securely to a positive (+) power source (e.g., positive battery terminal).
4. **Verify Connection:** Once connected, the probe should be ready for use. Some probes may have an indicator light to confirm power.

## 5. OPERATING INSTRUCTIONS

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The Dorman 86602 Logic Probe is designed for straightforward electrical circuit testing.

1. **Prepare for Test:** Ensure the probe is correctly connected to a power source as described in Section 4.
2. **Contact Circuit:** Carefully touch the probe tip to the circuit point you wish to test.
3. **Observe Indicators:** The probe will typically indicate the presence and polarity of voltage. Refer to the specific indicator lights or audible signals on your probe model for interpretation.
  - *Positive Voltage:* Often indicated by a red light or specific tone.
  - *Negative Voltage/Ground:* Often indicated by a green or blue light, or a different tone.
  - *No Voltage:* No light or tone.
4. **Test Continuity (if applicable):** Some logic probes can also test for continuity. Consult your probe's specific features for this function.
5. **Complete Test:** Once testing is complete, disconnect the alligator clips from the power source, starting with the positive (+) clip first, then the negative (-) clip.

## 6. MAINTENANCE

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To ensure the longevity and accuracy of your Dorman 86602 Logic Probe, follow these simple maintenance guidelines:

- **Cleaning:** Wipe the probe body and cables with a clean, dry cloth after each use. Do not use harsh chemicals or solvents.
- **Storage:** Store the probe in a clean, dry place, away from extreme temperatures and direct sunlight. Keep the cables neatly coiled to prevent damage.
- **Inspection:** Periodically inspect the probe tip, cables, and alligator clips for any signs of wear, fraying, or damage. Replace the unit if damage is observed.

## 7. TROUBLESHOOTING

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If you encounter issues with your Dorman 86602 Logic Probe, consider the following common solutions:

- **Probe not lighting up/no indication:**
  - Check that the red and black alligator clips are securely connected to a good power source (positive and negative terminals, respectively).
  - Ensure the power source itself is active and providing voltage.
  - Verify the circuit point being tested has voltage.
- **Inconsistent readings:**
  - Ensure the probe tip has good contact with the test point.
  - Check for corrosion or damage on the probe tip or alligator clips.
- **Physical damage:** If the probe body, cable, or clips are visibly damaged, discontinue use and replace the unit.

8. SPECIFICATIONS

Feature	Detail
Brand	Dorman
Model	86602
Power Source	Battery Powered (via vehicle battery)
Color	Black
Item Weight	Approximately 0.01 Ounces
Product Dimensions (L x W x H)	Approximately 12.6 x 4.8 x 1.65 inches
Measurement Type	Voltmeter, possibly Ammeter (for logic detection)
UPC	037495866026



9. WARRANTY AND SUPPORT

For information regarding warranty coverage or technical support for your Dorman 86602 Computer Safe Logic Probe, please refer to the documentation included with your purchase or visit the official Dorman website. You may also contact Dorman customer service directly for assistance.

Dorman Website: [www.dormanproducts.com](http://www.dormanproducts.com)



Related Documents - 86602

	<p><a href="#">Dorman Automotive Hardware Catalog: Comprehensive Fasteners and Components</a></p> <p>Explore the Dorman Automotive Hardware Catalog, featuring a wide range of fasteners, nuts, bolts, springs, and specialized tech trays for automotive repair and maintenance. Find part numbers and applications for efficient inventory and service.</p>
	<p><a href="#">Dorman 600-902 Transfer Case Motor DTC-002 Troubleshooting Guide</a></p> <p>Comprehensive guide for diagnosing and clearing DTC-002 (Encoder Circuit Malfunction) on Dorman 600-902 Transfer Case Motors for various vehicle models. Includes step-by-step instructions for accessing and clearing diagnostic trouble codes.</p>

Step-by-step instructions for the removal and installation of the interior door handle kit for 2008-2004 Chrysler Pacifica models. Includes kit contents, required tools, and detailed procedures.

Detailed instructions for installing and removing the interior door handle kit for Chevrolet Silverado models, including parts list and required tools.

Detailed instructions for installing and coding the Dorman 924-784 Mechanical Key Relearn Ignition Lock Cylinder. Learn how to repin the cylinder to your existing key, including step-by-step guidance and safety precautions.

Detailed instructions for bench bleeding and installing the Dorman M39576 Brake Master Cylinder, including important warnings and technical tips for Chevrolet and Pontiac vehicles.