

605195370602

Generic 5-90V DC Digital Automotive Circuit Tester Instruction Manual

Model: 605195370602

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of the Generic 5-90V DC Digital Automotive Circuit Tester. This versatile tool is designed for precise voltage detection, continuity testing, and fuse diagnostics in various automotive and marine electrical systems.

Key Features:

- **Precise Voltage Detection:** Accurately displays voltage readings from 5V to 90V DC, suitable for automotive, RV, and fuse testing.
- **Durable Design with LED Indicator:** Equipped with a high-brightness LED indicator, stainless steel probes, and an extended spring-loaded cable for durability and access in confined areas.
- **Multi-Functional Use:** Functions as a circuit tester, voltage detector, and fuse tester for various vehicles including cars, trucks, and marine vessels.
- **Safe and User-Friendly:** Designed with a clear digital display and ergonomic grip for convenient operation.
- **Included Accessories:** Comes with sturdy probes and connecting cables, compatible with 12V/24V systems for automotive electrical inspections and DIY projects.



Figure 1.1: Generic 5-90V DC Digital Automotive Circuit Tester.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the device or vehicle:

- Wear appropriate personal protective equipment, including safety glasses.
- Do not use the tester on circuits exceeding 90V DC.
- Ensure proper grounding of the alligator clip before probing live circuits.
- Keep the probe tip away from moving parts or hot surfaces.
- Do not attempt to repair or modify the tester. Refer to qualified personnel for service.

3. PRODUCT COMPONENTS

The Automotive Circuit Tester consists of the following main components:

- **Digital Display:** Shows voltage readings.
- **LED Indicator:** Provides visual feedback on circuit status.
- **Stainless Steel Probe:** Sharp tip for piercing wires or contacting terminals.
- **Extended Spring Wire:** Flexible coiled cable for reach and tangle-free use.
- **Alligator Clip:** For secure connection to ground or power sources.

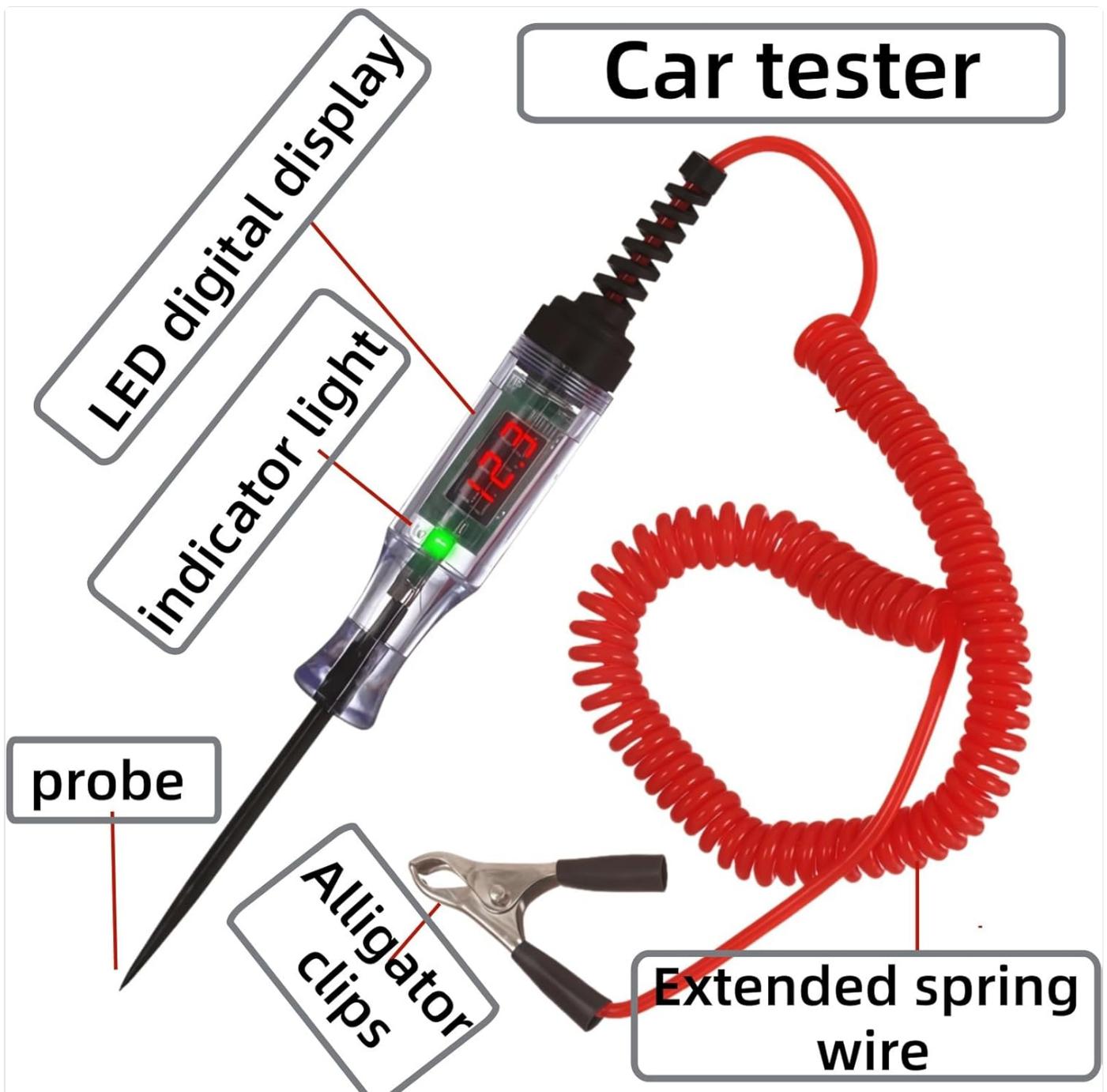


Figure 3.1: Labeled components of the Automotive Circuit Tester, including the LED digital display, indicator light, probe, alligator clips, and extended spring wire.



Figure 3.2: Dimensions of the Automotive Circuit Tester, showing the probe length (7.24 inches), overall length (9.6 inches), and alligator clip length (2.08 inches).

4. SETUP

1. **Connect the Alligator Clip:** Securely attach the alligator clip to a known good ground point on the vehicle chassis or the negative terminal of the battery. Ensure a clean, solid connection for accurate readings.
2. **Prepare the Probe:** Remove the protective cover from the stainless steel probe tip.

5. OPERATING INSTRUCTIONS

5.1. Voltage Testing

1. Ensure the alligator clip is securely grounded.
2. Carefully touch the probe tip to the circuit or component you wish to test.

3. The digital display will show the voltage reading. The LED indicator will illuminate (red for positive, green for negative) to indicate polarity.
4. If the voltage exceeds the tester's maximum capacity (90V DC), the display may show an error or an "H" indicating high voltage. Disconnect immediately.

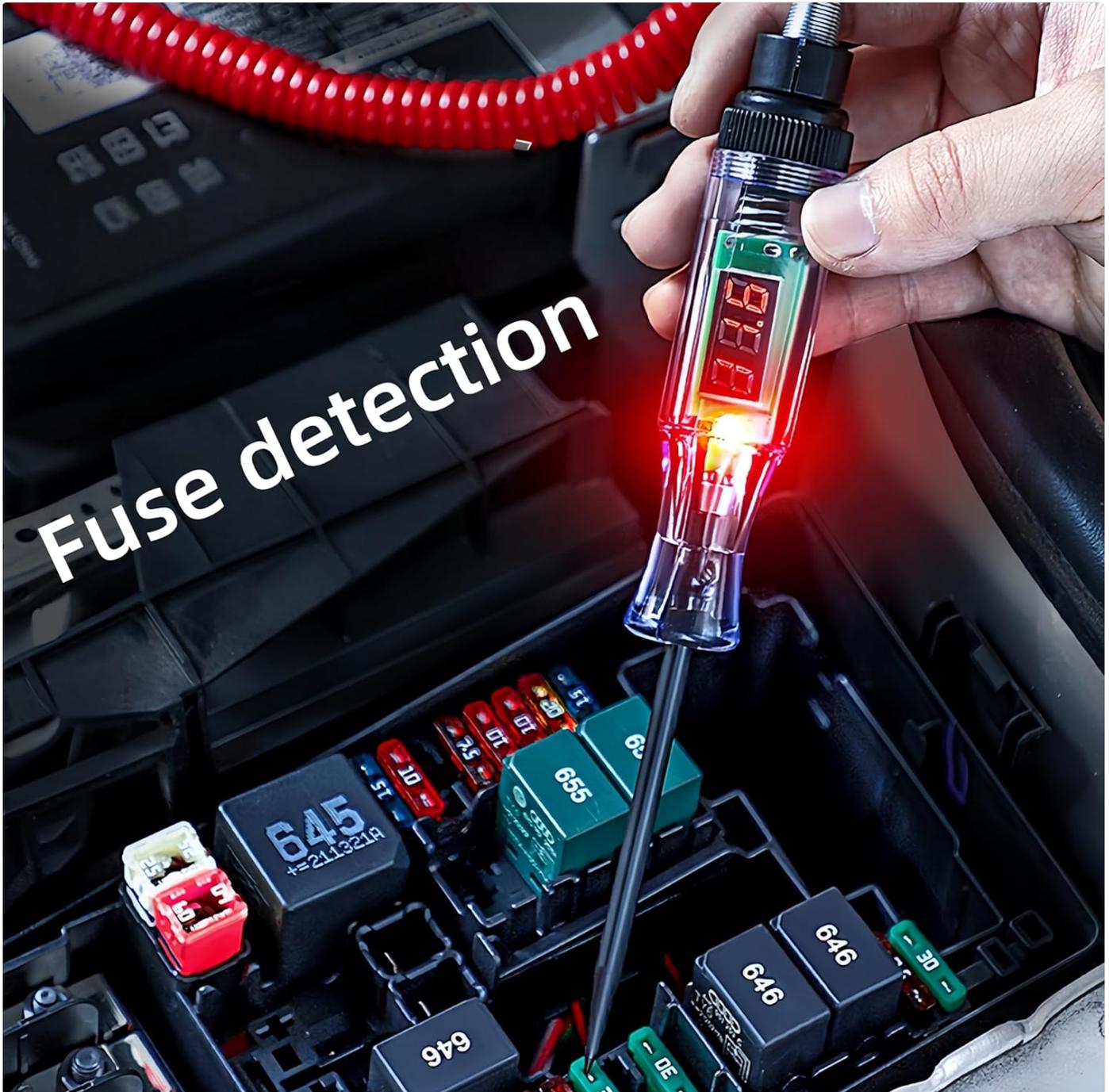


Figure 5.1: The circuit tester in use, demonstrating fuse detection within a vehicle's fuse box.

Your browser does not support the video tag.

Video 5.1: Demonstration of DC voltage testing and resistance testing using a similar automotive circuit tester. Note: The voltage range shown in this video may differ from the 5-90V range of this product.

Your browser does not support the video tag.

Video 5.2: Demonstration of voltage testing and continuity testing with an automotive test light. Note: The voltage range shown in this video may differ from the 5-90V range of this product.

5.2. Continuity Testing

1. Ensure the circuit is de-energized before performing continuity tests.

2. Connect the alligator clip to one end of the component or wire to be tested.
3. Touch the probe tip to the other end.
4. If continuity exists, the LED indicator will light up (typically green for continuity, or red if connected to a positive source through the component) and the display may show a low resistance value or a specific continuity symbol.

Your browser does not support the video tag.

Video 5.3: Demonstration of polarity detection and continuity testing using a power circuit probe tester. Note: The voltage range shown in this video may differ from the 5-90V range of this product.

5.3. Fuse Testing

1. With the circuit energized, connect the alligator clip to a known good ground.
2. Touch the probe tip to each test point on the top of the fuse.
3. If both sides of the fuse show a voltage reading, the fuse is good. If one side shows voltage and the other does not, the fuse is blown.



Figure 5.2: The Automotive Circuit Tester is suitable for use with motorcycles, heavy equipment, trucks, and cars.

6. MAINTENANCE

- **Cleaning:** Wipe the tester with a clean, dry cloth after each use. Do not use abrasive cleaners or solvents.
- **Storage:** Store the tester in a dry, cool place, away from direct sunlight and extreme temperatures. Always replace the protective probe cover before storage.
- **Cable Inspection:** Regularly inspect the spring wire and alligator clip for any signs of damage, fraying, or corrosion. Replace if necessary.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display/LED light	Poor ground connection; No power in circuit; Faulty tester.	Ensure alligator clip has a solid ground. Verify circuit has power. Test tester on a known live circuit.
Inaccurate voltage reading	Poor connection; High resistance in circuit.	Clean connection points. Ensure firm contact with probe.
"H" or error message on display	Voltage exceeds 90V DC.	Immediately disconnect the tester. This tester is not designed for voltages above 90V DC.

8. SPECIFICATIONS

Feature	Detail
Model Number	605195370602 (DYB-002)
Voltage Range	5-90V DC
Display Type	Digital LED
Probe Material	Stainless Steel
Cable Type	Extended Spring Wire
Cable Length	Approx. 96 inches (244 cm)
Product Dimensions (L x W x H)	18.42 x 2.01 x 2.01 cm (7.25 x 0.79 x 0.79 inches)
Item Weight	90 g
Power Source	Powered by circuit under test
Manufacturer	JINJIANG
Certifications	CE, ETL

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the retailer or manufacturer's official website. Keep your purchase receipt for warranty claims.

© 2023 Generic. All rights reserved.

This manual is for informational purposes only. Specifications are subject to change without notice.