

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

[manuals.plus](#) /

› [AUTOOL](#) /

› [AUTOOL SPT101 Spark Plug Tester Instruction Manual](#)

AUTOOL SPT101

AUTOOL SPT101 Spark Plug Tester

Instruction Manual

1. INTRODUCTION

The AUTOOL SPT101 Spark Plug Tester is a diagnostic tool designed to evaluate the performance of spark plugs in 12V gasoline vehicles. It features dual testing holes, enabling simultaneous comparison of two spark plugs, and an adjustable working frequency to simulate various engine speeds. This manual provides essential information for the safe and effective use of your device.



Image 1.1: AUTOOL SPT101 Spark Plug Tester

2. SAFETY INFORMATION

- Always ensure the protective cover is closed over the spark plugs before operating the device to prevent electric shock.
- Do not touch the spark plugs or the high-voltage areas during operation.
- Use the device in a well-ventilated area.
- This device is intended for 12V gasoline vehicles only. Do not use with other vehicle types or voltages.

PROTECTIVE COVER DESIGN

The design of the protective cover can prevent the operator from getting electric shock due to accidental touch during operation, avoid harm to the body, and protect your safety.

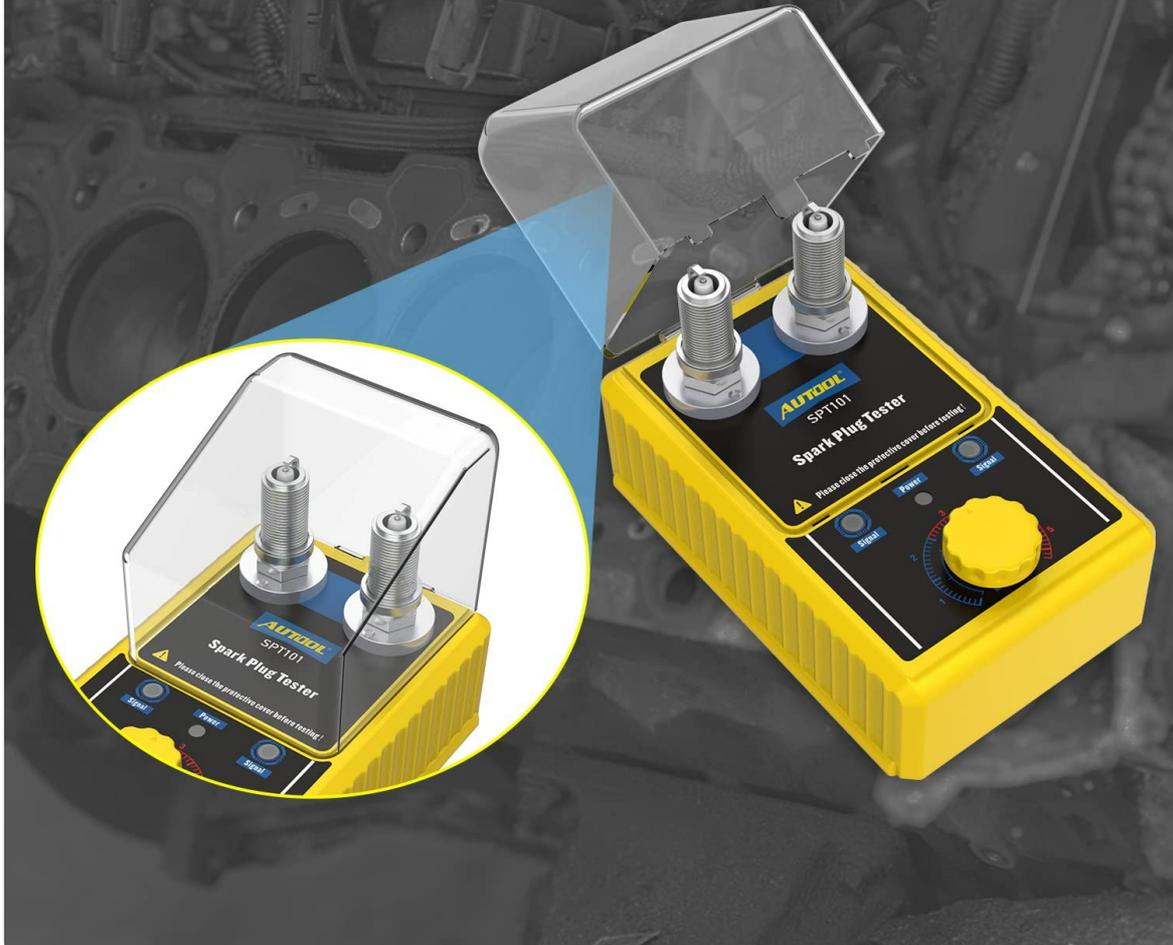


Image 2.1: Protective cover in use for safety

3. PRODUCT OVERVIEW

3.1 Components



Image 3.1: Labeled components of the SPT101

1. **Spark Plug Sockets:** Receptacles for inserting spark plugs for testing.
2. **Power Indicator:** Illuminates when the device is powered on.

3. **HV (High Voltage) Indicator:** Indicates high voltage operation.
4. **Rotary Switch:** Used to adjust the working frequency and power the device on/off.
5. **Power Port:** Connection point for the power adapter.
6. **Protective Cover:** Transparent cover to protect users from high voltage during operation.

3.2 Key Features

- **Dual-Hole Simultaneous Testing:** Allows for direct comparison of two spark plugs.
- **Adjustable Working Frequency:** Simulates engine speeds from 0 to 6000rpm.
- **Protective Cover Design:** Enhances user safety during operation.
- **Plug and Play Operation:** Simple and straightforward to use.
- **Power Indicator Light:** Provides clear status indication.
- **Wide Application:** Suitable for 12V gasoline vehicles.
- **Spark Plug Compatibility:** Designed for spark plugs with a diameter of approximately 12mm.



Image 3.2: Overview of SPT101 features

4. SETUP

1. **Connect Power:** Connect the provided power adapter to the Power Port on the tester. Plug the

adapter into a standard 110V power outlet. The Power Indicator light will illuminate, confirming power supply.

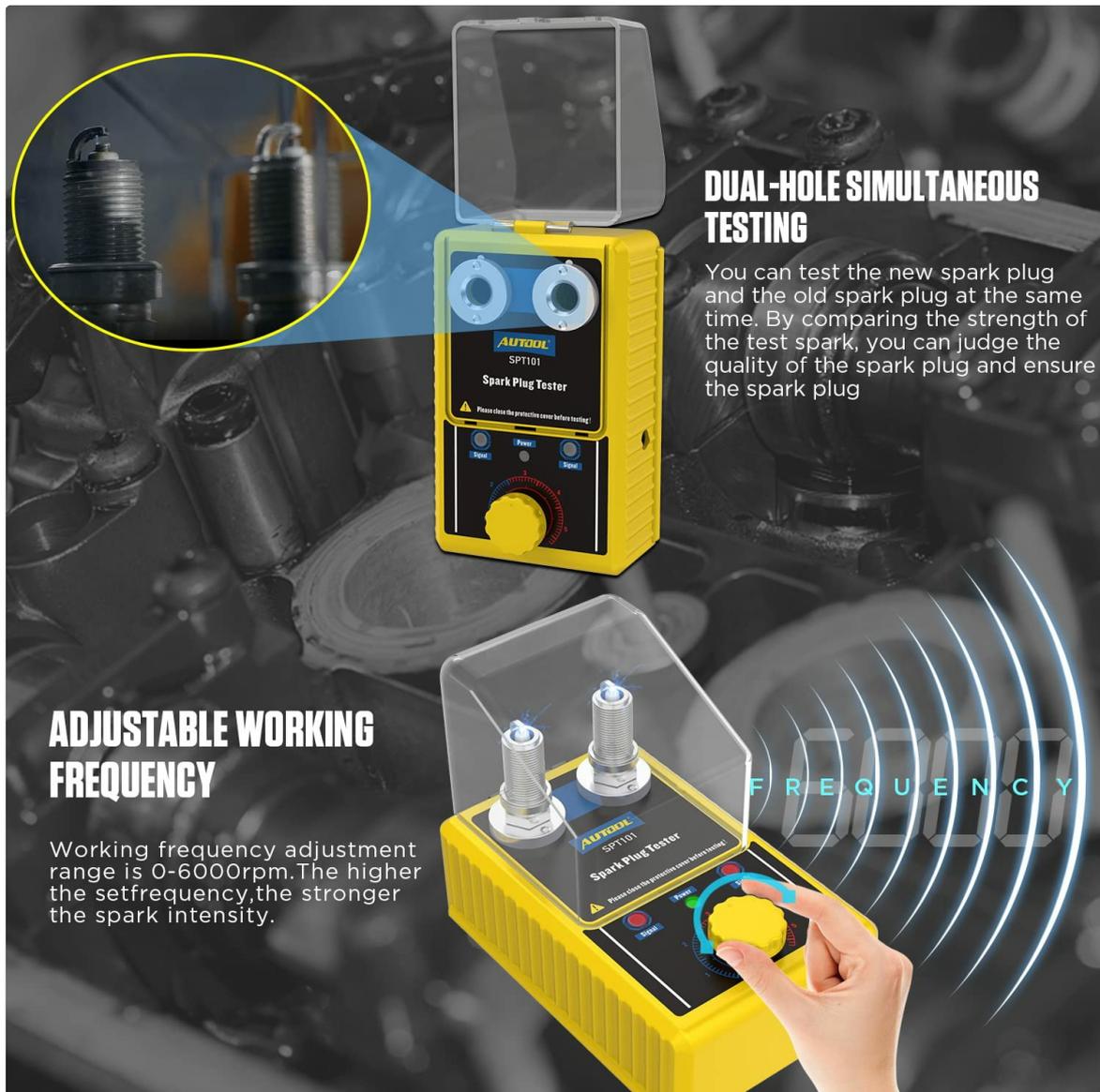
2. **Insert Spark Plugs:** Carefully insert the spark plugs into the Spark Plug Sockets. If testing two plugs, ensure both are securely seated in their respective sockets.



Image 4.1: Power connection and indicator light

5. OPERATING INSTRUCTIONS

1. **Secure Protective Cover:** After inserting the spark plugs, ensure the transparent protective cover is securely closed over the spark plugs. This is crucial for safety.
2. **Adjust Frequency:** Turn the Rotary Switch clockwise to increase the working frequency. The frequency can be adjusted from 0 to 6000rpm. A higher frequency simulates higher engine speeds, resulting in a stronger spark intensity.
3. **Observe Spark:** Observe the spark plugs through the protective cover. A strong, consistent blue spark indicates a healthy spark plug. Irregular, weak, or absent sparks suggest a faulty spark plug.
4. **Compare Spark Plugs:** When testing two spark plugs simultaneously, compare the spark intensity and consistency between them to identify any performance differences. This helps in diagnosing which spark plug might be failing.
5. **Complete Testing:** After testing, turn the Rotary Switch to the "OFF" position. Disconnect the power adapter and carefully remove the spark plugs from the sockets.



DUAL-HOLE SIMULTANEOUS TESTING

You can test the new spark plug and the old spark plug at the same time. By comparing the strength of the test spark, you can judge the quality of the spark plug and ensure the spark plug

ADJUSTABLE WORKING FREQUENCY

Working frequency adjustment range is 0-6000rpm. The higher the set frequency, the stronger the spark intensity.

Image 5.1: Dual-hole testing and adjustable frequency

6. MAINTENANCE

- **Cleaning:** Keep the device clean and free from dust and debris. Wipe the exterior with a soft, dry cloth. Do not use abrasive cleaners, solvents, or immerse the device in water.
- **Storage:** Store the SPT101 Spark Plug Tester in a dry, cool place away from direct sunlight and extreme temperatures when not in use.

7. TROUBLESHOOTING

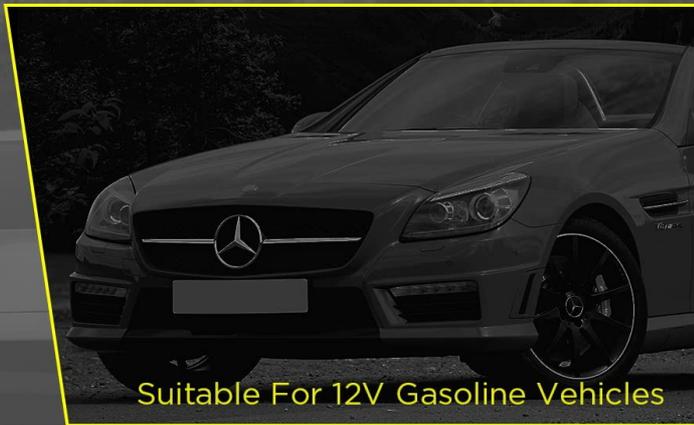
- **No Spark:**
 - Check if the power adapter is properly connected and the Power Indicator is illuminated.
 - Ensure spark plugs are correctly and fully inserted into the sockets.
 - Verify the Rotary Switch is not in the "OFF" position and the frequency is set above 0.
- **Weak or Inconsistent Spark:**
 - The spark plug may be faulty and require replacement.
 - Ensure the spark plug gap is within the vehicle manufacturer's specifications.

- Compare the spark with a known good spark plug using the dual-hole testing feature to confirm the issue.

8. SPECIFICATIONS

Parameter	Value
Model	SPT101
Input Voltage	110V
Working Frequency	0-6000rpm
Application	12V Gasoline Vehicles
Compatible Spark Plug Diameter	Approx. 12mm
Package Dimensions	6.42 x 4.72 x 3.82 inches
Item Weight	15.7 ounces
Manufacturer	AUTOOL

APPLICATION



Suitable For 12V Gasoline Vehicles

Suitable For Spark Plugs With A Diameter Of 12mm

9. WARRANTY AND SUPPORT

The AUTOOL SPT101 Spark Plug Tester comes with a **3-year warranty** from the date of purchase. This warranty covers manufacturing defects and material faults under normal use. For technical support, warranty claims, or any inquiries regarding your product, please contact AUTOOL customer service through their official website or authorized retailers.

Please retain your proof of purchase for warranty validation.