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**AUTOOL SPT301  
Spark Plug Tester  
User Manual**



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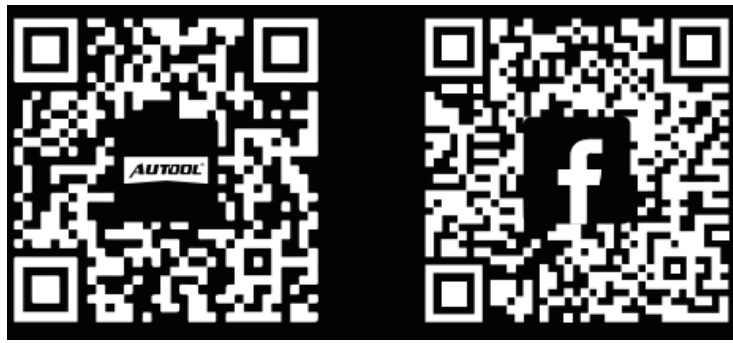
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Execution Standard: GB/ T 7825-2017



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## SAFETY RULES

### General safety rules



- Always keep this user manual with the machine.



- Before using this product, read all the operational instructions in this manual.

Failure to follow them may result in electric shock and irritation to skin and eyes.

- Each user is responsible for installing and using the equipment according to this user manual. The supplier is not responsible for damage caused by improper use and operation.

► This equipment must only be operated by trained and qualified personnel. Do not operate it under the influence of drugs, alcohol, or medication.



► This machine is developed for specific applications. The supplier points out that any modification and/or use for any unintended purposes is strictly prohibited.

► The supplier assumes no express or implied warranties or liabilities for personal injury or property damage caused by improper use, misuse, or failure to follow safety instructions.

► This equipment is intended for use by professionals only. Improper use by non-professionals may result in injury or damage to the tools or workpieces.



► Keep out of reach of children.



► When operating, ensure nearby personnel or animals maintain a safe distance.

Avoid working in rain, water, or damp environments. Keep the work area well-ventilated, dry, clean, and bright.

## Handling



► Used/damaged equipment must not be disposed of in household waste but must be disposed of in an environmentally friendly manner. Use designated electrical equipment collection points.

## Electrical safety rules



► This is a machine that can only be powered by a power outlet with a protective grounding conductor. Therefore, please ensure that the machine/casing is properly grounded in advance.



► Do not twist or severely bend the power cord, as this may damage the internal wiring. If the power cord shows any signs of damage, do not use the spark plug tester. Damaged cables pose a risk of electric shock. Keep the power cord away from heat sources, oil, sharp edges, and moving parts. Damaged power cords must be replaced by the manufacturer, their technicians, or personnel with similar qualifications to prevent hazardous situations or injuries.

## Equipment safety rules



► Never leave the equipment unattended while it is operating.

Always turn off the equipment at the main switch and disconnect the power cord when the equipment is not being used for its intended purpose!

▶ Do not attempt to repair the equipment yourself.



▶ Before connecting the equipment to power, check that the battery voltage matches the value specified on the nameplate.

▶ Mismatched voltage can cause serious hazards and damage the equipment.



▶ It is essential to protect the equipment from rainwater, moisture, mechanical damage, overload, and rough handling.

## Application



▶ Check the power cord, plug connections, and adapters for damage before use. If any damage is found, do not operate the equipment.

▶ Before using the product, check for any cracks in the casing or missing plastic parts.

▶ Use the equipment only in compliance with all safety instructions, technical documents, and vehicle manufacturer specifications.

## Personnel protection safety rules



▶ Do not touch live conductors with a voltage exceeding 30V AC RMS, 42V AC peak, or 60V DC.

▶ Do not connect hazardous live conductors in a damp environment.



▶ Wear personal protective equipment (such as approved rubber gloves, face shields, and flame-resistant clothing) to prevent injury from electric shock and arc flash when hazardous live conductors are exposed.



▶ Always ensure you have a stable footing to safely control equipment in case of emergencies.

Any other use is considered as exceeding the intended purpose of the equipment and is prohibited.

## CAUTIONS

### Warning

▶ Do not pull out or insert the spark plug with the power supply connected. If you want to insert or pull it out, please turn off the power first.

- ▶ When the spark plug is running, the voltage can reach tens of thousands of volts, so don't touch it directly with your bare hands to avoid injury.
- ▶ Close the protective cover before testing.

## PRODUCT INTRODUCTION

### Overview

- This is a digital high frequency tester for testing the performance and strength of spark plugs, with a frequency up to 9000 rpm. It is compatible with all crankshaft engine and motorcycle spark plug testing among the market. This product can also be compared to three holes at the same time, simulating real speed and digital control, which greatly improve the test accuracy and work efficiency.

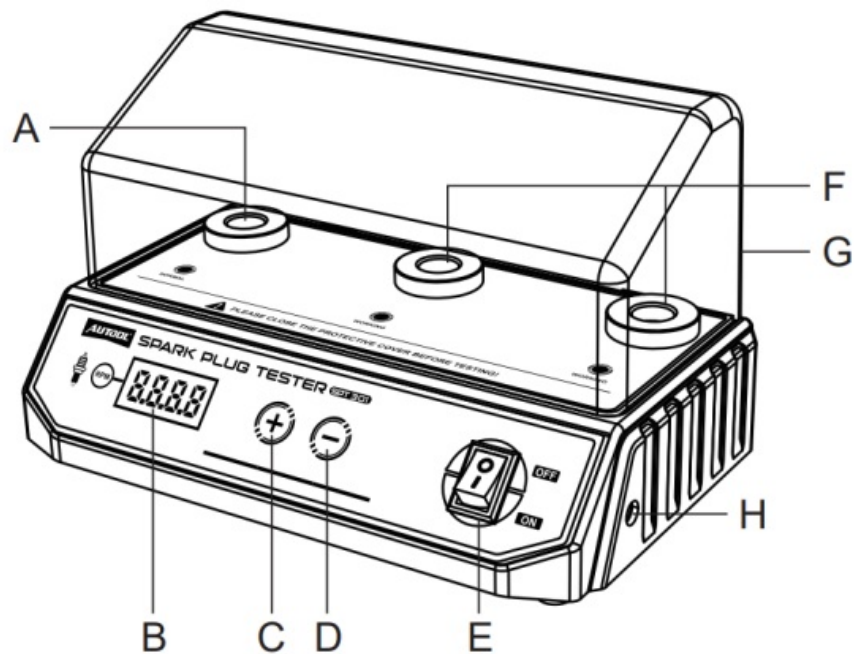
### Features

- Operating frequency up to 9000 rpm, the higher the frequency, the stronger intensity of the spark plug.
- Digital screen display for more precise control.
- Simultaneous comparison of three holes to improve efficiency.
- Simulate real rpm with high accuracy
- Simple operation, plug and play.

### Technical specifications

Input power	AC 110V/220V $\pm 10\%$
Output power	DC 12V $\pm 2$ 1A
Analog speed	200~9000rpm
Ambient temperature	0°C ~ +45°C
Relative humidity	<85%

## PRODUCT STRUCTURE



- A. Standard test hole
- B. Display screen
- C. RPM “+”
- D. RPM “-”
- E. Power switch
- F. Test hole
- G. Protective cover
- H. Power interface

## OPERATING INSTRUCTIONS

### Operation

- Insert the standard spark plug into the standard test slot (A) and insert the to be tested spark plug into the test slot (F);
- Close the protective cover (G), plug the power adapter into the side power interface (H), connect the power, and the indicator light will be on.
- Turn on the power switch, use the “+” and “-” buttons to adjust the working frequency. The higher the frequency, the stronger the spark plug intensity.

## MAINTENANCE SERVICE

Our products are made of long-lasting and durable materials, and we insist on perfect production process. Each product leaves the factory after 35 procedures and 12 times of

testing and inspection work, which ensures that each product has excellent quality and performance.

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## **Maintenance**

To maintain the performance and appearance of the product, it is recommended that the following product care guidelines be read carefully

- Be careful not to rub the product against rough surfaces or wear the product, especially the sheet metal housing.
- Please regularly check the product parts that need to be tightened and connected. If found loose, please tighten it in time to ensure the safe operation of the equipment. The external and internal parts of the equipment in contact with various chemical media should be frequently treated with anti-corrosion treatment such as rust removal and painting to improve the corrosion resistance of the equipment and extend its service life.
- Comply with the safe operating procedures and do not overload the equipment. The safety guards of the products are complete and reliable.
- Unsafe factors are to be eliminated in time. The circuit part should be checked thoroughly and the aging wires should be replaced in time. Adjust the clearance of various parts and replace worn (broken) parts. Avoid contact with corrosive liquids.
- When not in use, please store the product in a dry place. Do not store the product in hot, humid, or non-ventilated places.

## **WARRANTY**

- From the date of receipt, we provide a three-year warranty for the main unit and all the accessories included are covered by a one-year warranty.

## **Warranty access**



- The repair or replacement of products is determined by the actual breakdown situation of product.
- It is guaranteed that AUTOOL will use brand new component, accessory or device in terms of repair or replacement.
- If the product fails within 90 days after the customer receives it, the buyer should provide both video and picture, and we will bear the shipping cost and provide the accessories for the customer to replace it free of charge. While the product is received for more than 90 days, the customer will bear the appropriate cost and we will provide the parts to the customer for replacement free of charge.

### **These conditions below shall not be in warranty range**

- The product is not purchased through official or authorized channels.
- The product breakdown because the user does not follow product instructions to use or maintain the product.

We AUTOOL pride ourselves on superb design and excellent service. It would be our pleasure to provide you with any further support or services.

### **Disclaimer**

- All information, illustrations, and specifications contained in this manual, AUTOOL reserves the right of modify this manual and the machine itself with no prior notice. The physical appearance and color may differ from what is shown in the manual, please refer to the actual product. Every effort has been made to make all descriptions in the book accurate, but inevitably there are still inaccuracies, if in doubt, please contact your dealer or AUTOOL after-service centre, we are not responsible for any consequences arising from misunderstandings.

## **RETURN & EXCHANGE SERVICE**

### **Return & Exchange**

- If you are an AUTOOL user and are not satisfied with the AUTOOL products purchased from the online authorized shopping platform and offline authorized

dealers, you can return the products within seven days from the date of receipt; or you may exchange it for another product of the same value within 30 days from the date of delivery.

- Returned and exchanged products must be in fully saleable condition with documentation of the relevant bill of sale, all relevant accessories and original packaging.
- AUTOOL will inspect the returned items to ensure that they are in good condition and eligible. Any item that does not pass inspection will be returned to you and you will not receive a refund for the item.
- You can exchange the product through the customer service center or AUTOOL authorized distributors; the policy of return and exchange is to return the product from where it was purchased. If there are difficulties or problems with your return or exchange, please contact AUTOOL Customer Service.

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## EU DECLARATION OF CONFORMITY

We as the manufacturer declare that the designated product:

Description: Spark Plug Tester (Model SPT301)

complies with the requirements of the:

EMC Directive 2014/30/EU

LVD Directive 2014/35/EU

RoHS Directive 2011/65/EU + 2015/863 + 2017/2102

Applied Standards:

EN IEC 55014-1:2021, EN IEC 55014-2:2021, EN IEC

61000-3-2:2019/A2:2024, EN 61000-3-3:2013/A2:2021/AC:2022-01

EN 60335-1:2012 +AC:2014 +A11:2014 +A13:2017 +A1:2019 +A14:2019

+A2:2019 +A15:2021, EN 62233:2008 +AC:2008  
IEC 62321-3-1:2013,IEC 62321-7-1:2015, IEC 62321-4:2013+A1:2017, IEC  
62321-7-2:2017, IEC 62321-5:2013,IEC 62321-6:2015, IEC 62321-8:2017  
Certificate No.: HS202412249045, HS202412249047, HS202412249048  
Test Report No.: HS202412249045-1ER, HS202412249047-1ER, HS202412249048-  
1ER

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## Documents / Resources

	<a href="#">AUTOOL SPT301 Spark Plug Tester [pdf]</a> User Manual SPT301 Spark Plug Tester, SPT301, Spark Plug Tester, Plug Tester
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## References

- [Tool Tech](#)
- [autooltech.com](#)
- [User Manual](#)

📁 AUTOOL, Plug Tester, Spark Plug Tester, SPT301, SPT301 Spark Plug

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