

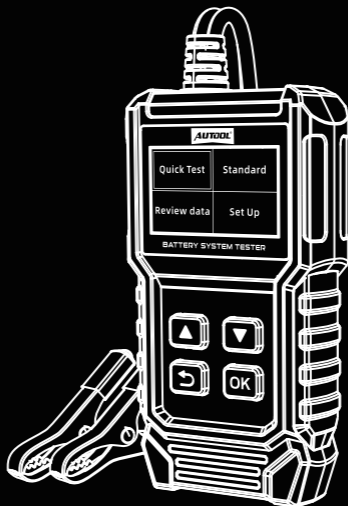
AUTOOL[®]

AUTOOL BT360

Battery System Tester

User Manual

用户手册



www.autooltech.com

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PRODUCT OVERVIEW

- The BT360 Battery Tester employs advanced conductivity testing for quick and precise measurements of automotive starting battery health and cold-start current capacity. It efficiently detects common faults in starting and charging systems, enabling swift and accurate diagnosis for expedited automobile repairs.
-

Product Features

- Accurate, fast, and user-friendly testing with an intuitive display.
- Main functions include: Quick Test, Standard Test, Cranking Test, and Charging Test.
- Capable of testing all types of automotive starting lead-acid batteries, including regular lead-acid batteries, AGM flat plate batteries, AGM spiral batteries, and gel batteries.
- Polarity reverse connection protection ensures that reversing the connection will not damage the tester or affect the vehicle and battery.
- Testing standards cover most global battery standards: CCA, JIS, GB, SAE, MCA, CA, DIN, IEC, EN, BCI.
- Supports multiple language options, including English,

German, French, Italian, Spanish, Simplified Chinese, Traditional Chinese, Japanese, Korean, etc. Additional languages can be provided based on user requirements.

Product Parameters

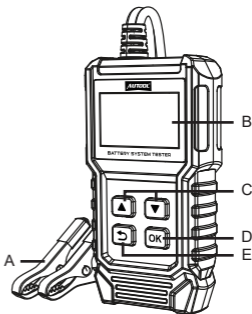
Measurement Standards and Ranges	
CCA	20-2000
SAE	20-2000
MCA	20-2000
CA	20-2000
DIN	20-2000
IEC	20-2000
EN	20-2000
BCI	20-2000
GB	2-300Ah
JIS	26A17-N200Z

Screen Material	LCD material, LED backlight, 2.4-inch black and white display
Voltage Range	8-20V (for 12V batteries)
Battery Range	30AH-100AH
Product Size	138.6*76.8*30mm
Testing Clamps	Dual-conductor Kelvin clips
Casing Material	Acid-resistant ABS plastic
Cable Specifications	PVC material, 20AWG/4-core cable, approximately 100cm in length

PRODUCT STRUCTURE

Structural Diagram

A	Red and black testing clamps
B	Display screen
C	Direction buttons
D	Confirm button
E	Return button



OPERATION STEPS

Connect to the Battery

- Attach the red (positive) and black (negative) testing clamps to the battery.
- If connected correctly, the display shows the startup screen. Press "Confirm" to proceed (Note: Testing is not possible if the battery voltage is below 8V).

Quick Test	Standard
Review data	Set Up

Quick Test Procedure

- Select the “Quick Test” function.
- Turn off the engine and all vehicle electrical devices.
- Input the battery capacity, and the test results will be displayed.

Quick Test	Standard	Turn OFF Engine and all Automotive electrical
Review data	Set Up	

Good performance	
12.90V	359CCA
Life	73.0%
Impedance	8.54mR

Standard Test Procedure

- Select the “Standard Test” function.
- Choose the test mode based on the actual situation.
- Select “Standard Test”.
- Based on the actual vehicle conditions, choose the battery type and input the testing standard. The test results will then be displayed.

Quick Test	Standard	<div style="background-color: black; color: white; padding: 5px; text-align: center;">Test Status</div> ▶ In-Vehicle Out-Of -Vehicle
Review data	Set Up	

In-Vehicle	Battery Type						
<ul style="list-style-type: none"> ▶ Standard test Cranking test Charging test 	<ul style="list-style-type: none"> ▶ Normal battery AGM Flat Plate AGM Spiral 						
Input Standard	Good performance						
<ul style="list-style-type: none"> ▶ CCA JIS GB 	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">12.90V</td> <td style="width: 50%;">359CCA</td> </tr> <tr> <td>Life</td> <td>95.5%</td> </tr> <tr> <td>Impedance</td> <td>8.54mR</td> </tr> </table>	12.90V	359CCA	Life	95.5%	Impedance	8.54mR
12.90V	359CCA						
Life	95.5%						
Impedance	8.54mR						

Cranking Test Procedure

- Within the “Standard Test” function, choose the in-vehicle test mode.
- Select “Cranking Test”.
- Follow on-screen prompts to start the engine; the test results will be displayed.

Quick Test	Standard	Test Status
		<ul style="list-style-type: none"> ▶ In-Vehicle Out-Of -Vehicle
Review data	Set Up	
In-Vehicle	Cranking test	
<ul style="list-style-type: none"> Standard test ▶ Cranking test Charging test 	Start Engine	

Battery abnormal	
CUR:	14.3V
highest:	14.3V
lowest:	9.1V

Charging Test Procedure

- Within the “Standard Test” function, choose the in-vehicle test mode.
- Select “Charging Test”.
- Follow on-screen prompts: start the engine and keep it idling, then press “OK” to continue.
- Follow on-screen prompts: turn on the load, increase throttle, then press “OK” to continue.
- Follow on-screen prompts: turn off the load, increase acceleration, then press “OK” to continue.
- View displayed test results.

Quick Test	Standard
Review data	Set Up

Test Status
▶ In-Vehicle Out-Of -Vehicle

In-Vehicle
Standard test Cranking test ▶ Charging test

Charging test
Start engine and keep idling, press OK to continue

Charging test

Turn on the load, increase the throttle, press OK to continue

Charging test

Turn off the load, increase the accelerator, press OK to continue

Charging OK

Load voltage	14.36V
No-load voltage	14.37V
Ripple	425mV

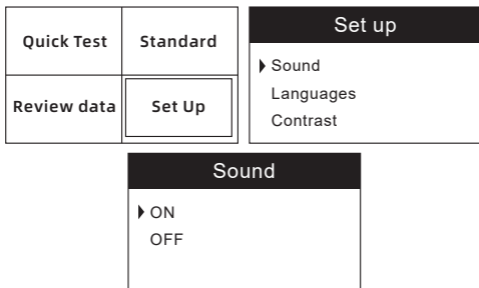
View Data

- Users can check the results of the most recent test.

Quick Test	Standard	Good performance	
Review data	Set Up		
		12.90V	359CCA
		Life	73.0%
		Impedance	8.54mR

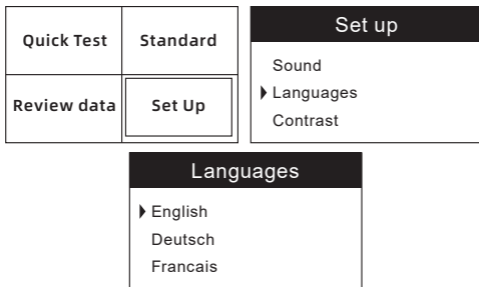
Sound Settings

- Choose the “Set Up” function.
- Select “Sound”, and then set it to either the on or off state.



Language Settings

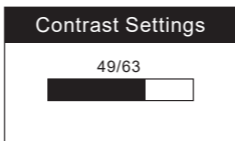
- Choose the “Set Up” function.
- Select “Language”, then use the directional buttons to choose the language, including English, German, French, Italian, Spanish, Simplified Chinese, Traditional Chinese, Japanese, Korean, etc.



Contrast Settings

- Choose the "Set Up" function.
- Select "Contrast Setting", and then adjust the contrast.

Quick Test	Standard	Set up Sound Languages ▶ Contrast
Review data	Set Up	



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.
- Regularly clean and replace consumable parts such as oil pump and oil filter; 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.
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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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