

DURATOOL



BATTERY TESTER - SLA & LITHIUM

Model: D03406

IMPORTANT SAFETY INFORMATION

Please read these instructions carefully before use and retain for future reference.

- Check the test leads, clips and case insulation before using. If you find any breakage or abnormality, or you consider the device is broken, stop using the device immediately.
- Always operate the vehicle in a well ventilated area.
- Wear suitable eye protection.
- Avoid causing sparking when connecting the clips to the battery terminals.

WHATs INCLUDED

- Battery Tester
- User Manual
- USB cable
- CD

FUNCTIONS

- Up / Down keys: Select options.
- Exit key: Exit to previous menu.
- ENTER key: Confirm the selection.
- FN Key: Multi-function.
- Mini-USB Socket (on the side of the product): used to connect to a PC to print data.

SETTING UP

- The tool allows you to make the following adjustments and settings:-
- From main menu, select the System Setup and press ENTER.:
 1. Language: Selects desired language.
 2. Fn settings: Set the measurement function - Voltmeter / quick test
 3. Contrast adjustment: Adjusts the contrast of the LCD display.
 4. Shows firmware version of the tester.

OPERATION

- After connect the tools clips to vehicle battery noting the correct polarity (Red clip to battery +) the tester displays the tester model and version, then the battery voltage.
- Press any key to display the test options.
- The tester will automatically adjust to the surface charge and will prompt you to turn off any circuits on the vehicle that may be drawing power, then press the ENTER key.

Battery Test

- Select BATTERY TEST: the tester will prompt to select Car/Scooter (Motorcycle) battery.
- Press UP/DOWN key to select Car/Scooter, then press ENTER to confirm.
- Select BATTERY TYPE: the tester will prompt to select battery type, i.e. Regular Flooded, Lithium Ion, AGM Flat Plate or AGM Spiral, Gel and EFB battery.
- Press UP/DOWN key to select the battery type, then press ENTER to confirm.

Note: Lithium Ion battery are Scooter (Motorcycle) battery types only.

- Press UP/DOWN key to select according to the actual system standard and rating marked on the battery itself.
- Batteries are marked with a variety of specifications, the tester works with:

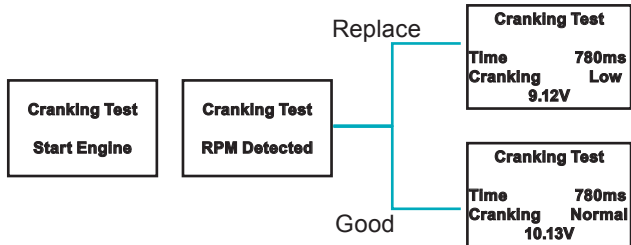
	Standard Description	Lithium Range	Wet AGM EFB
CCA:	Cold Cranking Amps, specified by SAE & BCI	20-1000	100-2000
BCI:	Battery Council International standard	20-1000	100-2000
CA:	Cranking Amps standard, effective starting current value at 0°C	20-1000	100-2000
MCA:	Marine Cranking Amps standard, effective starting current value at 0°C.	20-1000	100-2000
JIS:	Japan Industrial Standard	26A17-150F51	26A17-245H52
DIN:	German Auto Industry Committee Standard	20-700	100-1400
IEC:	Internal Electro technical Commission Standard	20-700	100-1400
EN:	European Automobile Industry Association Standard	20-1000	100-2000
SAE:	Society of Automotive Engineers Standard	20-1000	100-2000
GB:	China National Standard	2-120	30-220

- Press ENTER to start the test.
- The test can take several seconds to before the result is shown on screen:

Health:96% 490CCA Charge:98% 12.64V Internal R=6.1mΩ Rated: 500A GOOD BATTERY	Health:78% 440CCA Charge:30% 12.20V Internal R=7.2mΩ Rated: 500A GOOD, RECHARGE	Health:46% 490CCA Charge:80% 12.68V Internal R=18.1mΩ Rated: 500A REPLACE
Health:0% 0CCA Charge:20% 10.64V Internal R=45.2mΩ Rated: 500A BAD CELL REPLACE	Health:39% 310CCA Charge:20% 12.08V Internal R=30.1mΩ Rated: 500A CHARGE - RETEST	

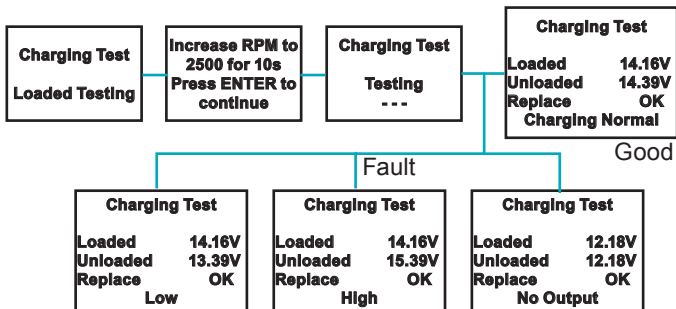
Cranking Test

- Select CRANKING TEST: the tester then displays the following:



Charging System

- Select CHARGING TEST: with the engine running the tester displays the following:



Review Data

- Select REVIEW DATA: the tool displays all the test results:

Health:96%	490CCA
Charge:98%	12.64V
Internal R=6.1mΩ	
Rated: 500A	
GOOD BATTERY	

Print Data (Windows only)

- Select PRINT DATA: the tool displays all the test results:
- Connect the tool to the computer via USB cable.
- If the PC doesn't automatically load the USB driver and recognise the tester, a USB driver is included on the CD.
- Print software is also included to display the data from the tester and print to any printer connected to the PC.
- Clear any previous data stored in the printer queue then connect the tester and the data held in the tester will be displayed.
- Click on Print to send to the printer.

INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT.

When this product has reached the end of its life it must be treated as Waste Electrical & Electronics Equipment (WEEE). Any WEEE marked products must not be mixed with general household waste, but kept separate for the treatment, recovery and recycling of the materials used. Contact your local authority for details of recycling schemes in your area.



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