



Color LCD Display Battery Analyser With Printer PA-MDXT-680 User Manual



Thank you for purchasing our battery analyser
please read carefully your user manual
and store it for reference



PA-MDXT-680

Color LCD Display battery analyser with built-in printer adopts the world's most advanced conductance testing technology to easily, quickly measure the health of the battery and system condition.

Advantage :

- 1.Color LCD Display
- 2.Built-in printer
- 3.Export the latest 20 groups of record data
4. Can adjust the backlight
- 5.Suitable for 12V vehicles & motorcycles lead acid starter batteries.

Product specifications:

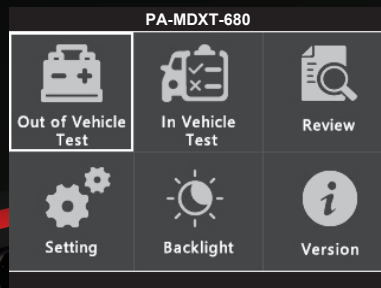
1. Application: 12V batteries as well as 12V&24V car system test
2. Measure Ranges are:

Measure Standard	Measure Range
CCA	40-2000
BCI	40-2000
CA	40-2000
MCA	40-2000
JIS	26A17--245H52
DIN	40-1400
IEC	40-1400
EN	40-2000
SAE	40-2000
GB	3-220Ah

3. Working Environment Temp:-18℃-50℃
4. Special test clip: Double conductor Kelvin clamp
5. Housing Material: Acid-resistant ABS plastic
6. Measure Range: 3-220Ah
7. Voltage Measure Range: 7-30VDC



Main functions:



You are able press UP/DOWN key to choose:

- ① Out of Vehicle Test
- ② In Vehicle Test
- ③ Review
- ④ Setting
- ⑤ Backlight
- ⑥ Version

How to use:

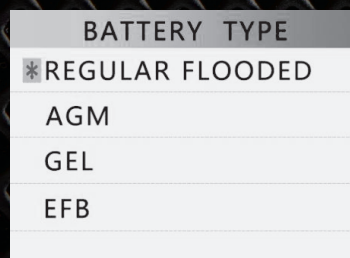
1. CONNECTION

Connect the red test clamp with battery anode and the black one with cathode, the tester will power on automatically. Voltage battery below 7.0VDC cannot be tested properly, then press ENTER key to continue.

Notes:1). If you only want to check battery health, choose Out of vehicle test function

2). Cranking and Charging System Test, choose In vehicle test function

2. OUT OF VEHICLE TEST



a). Select the battery type



b). View the rate capacity on battery surface



SELECT STANDARD	
CCA	SAE
JIS	DIN
BCI	EN
IEC	Ah
MCA	CA

c).Select CCA and

SETTING RATE
370 CCA
CCA

d).input rated value

TEST RESULT		
GOOD RECHARGE		
HEALTHY	70%	310A
CHARGE	58%	12.35V
INTERNAL	R	9.62mΩ
RATED	370A	CCA
ENTER TO PRINT		

e).Battery test result

3. IN VEHICLE TEST



a) View rated capacity on battery

SETTING RATE
550 CCA
CCA

b) Input rated value 550A

TEST RESULT		
GOOD BATTERY		
HEALTHY	100%	785A
CHARGE	100%	12.66V
INTERNAL	R	3.81mΩ
RATED	550A	CCA
ENTER TO PRINT		

c).Battery test result

CRANKING TEST
PLEASE START ENGINE

d).Start engine

CRANKING TEST
CRANKING V NORMAL
CRANKING TIME 1099ms
9.87V

e).Cranking test result

CHARGING TEST
INCREASE SPEED TO 2500 R/MIN, KEEP IT FOR 5 SECONDS. PRESS ENTER TO CONTINUE.

f).Increase speed to 2500R/MIN

CHARGING TEST
CHARGING V NORMAL
LOADED V 13.96 V
UNLOADED V 14.24 V
RIPPLE V 10mV
RIPPLE V OK
ENTER TO PRINT

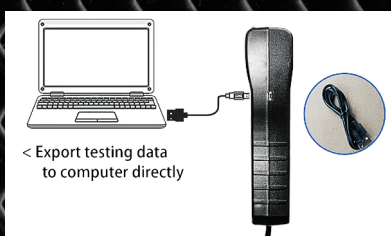
g).Charging test result



4. REVIEW

Choose Review and press "ENTER", you can see the latest 20 groups of record data. Press "PRINT DATE" you can print the result directly. And press "EXPORT DATA", you can export these data into your computer with USB cable.

DATA 16		
GOOD BATTERY		
HEALTHY	100%	580A
CHARGE	100%	12.60V
INTERNAL	R	5.18mΩ
RATED	500A	CCA
ENTER TO PRINT		



Notes:1) Through the serial debugging assistant in your computer, you can export 20 sets of the record data.

Recommended version: Serial Debug Assistant-Free version (V:7.3.0)



Serial Debug Assistant

lingguang • Developer tools > Utilities

Professional serial debugging software.

1. Receive the incoming data from the serial port and display it in the window.
2. The received data display mode can be selected as "string" or "HEX".

5. LANGUAGE

English, French, German, Spanish, Italian, Portuguese, Russian

LANGUAGE	
ENGLISH	FRENCH
GERMAN	ITALIAN
RUSSIAN	SPANISH
PORTUGUÉS	

Notes:1). Other languages can be customized



6. BACKLIGHT

Choose IN THE ROOM or OUTSIDE, the backlight can be adjusted automatically.

BACKLIGHT SET

IN THE ROOM

OUTSIDE

BACKLIGHT SET

IN THE ROOM

OUTSIDE

WHAT DOES YOUR WARRANTY COVER?

1. Your product comes with a One Year warranty
2. The product has passed CE, RoHS certification with quality and safety assurance
3. Proof of Purchase MUST BE PROVIDED
4. Any alteration and/or tampering in design will forfeit warranty
5. We will replace the product at our discretion providing that the fault is found to have been caused by a design or manufacturing defect and not misuse or tampering
6. Our goods come with guarantees that cannot be excluded under the Consumer Law.

THE WARRANTY DOES NOT COVER:

- a. Any damage resulting from improper use.
- b. Faulty or modifications made to batteries during analysing
- c. Any cost of removing and/or installing a battery/checking a battery
- d. Travel and/or other expenses due to customer's remote location.
Transport charges and damage in transit, It is your responsibility to deliver and pick up your product, including any costs associated with the postage of your repair or replacement product. If you do freight your product we recommend that you insure it against loss or damage.
- e. Any loss directly or indirectly associated with the product failing to operate.
- f. Damage caused by mould, insects, animals, misuse, incorrect operation, adverse weather, accidents and fair wear and tear.