

一, **brief introduction. Function**

This tester is composed of three function menu, in tester display screen for:

[test mode selection]

Comprehensive test

Volume testing

Identification code

1. Comprehensive test:

A. test battery types: lithium electricity, nimh, nickel cadmium.

B. test battery voltage: 2.4 V, 3.6 V, 4.8V, 6.0 V, 7.2 V.

C. nominal voltage to 3.7 V battery equates to 3.6 V,
Nominal voltage of 7.4 V battery equates to 7.2 V.

D. test time selected project according to different needs
about 0.8-1.5 seconds.

2. Capacity test:

A. test battery types: lithium electricity, nimh, nickel

cadmium.

B. test battery voltage: 2.4 V, 3.6 V, 4.8V, 6.0 V, 7.2 V.

C. testing project: the total capacity of the battery, platform capacity, the overcharge protection, put the voltage protection voltage, short circuit and over-current protection.

D. test time according to the battery model and set up different requires approximately 1-3 hours.

3. Identification code: can read MOTOROLA series handset battery within the code, 64 + 1024 bits.

二、 Test step-by-step instructions

After startup display options for three menu, through "▲
" "▼" key selection need testing project, press "ENT"
button to enter test function.

1. Comprehensive test:

Selecting this option, enter "Settings" :

[parameter Settings]

The battery type: lithium electricity

The battery voltage: 3.6 V

Identify terminal: R1 / R2

1. 1 set explanation:

Through the button "▲" "▼" choose needs, set up the project.

The battery type: refers to the core of type. Through the button "◀" "▶" circular tumbling choice, can choose to "lithium electricity" "nimh" "nickel cadmium"

The battery voltage: refers to the battery of nominal voltage. Through the button "◀" "▶" circular tumbling choice, can choose to "2.4 V, 3.6 V, 4.8V, 6.0 V, 7.2 V"

Identify terminal: through button "◀" "▶" circular tumbling choice, can choose to "NC" "R1" "R1 / R2" "M -" "R1 / M -" "R +" "S" "T" "R1 / R +".

A. except the battery is negative outside, no other identification terminals to choose "NC".

B. measure only one after the battery cathode resistance to choose "R1".

C. need the same test two meet in battery cathode resistance to choose "R1 / R2".

D. only testing a MOTOROLA battery identification code to choose "M -".

E. need the same test one after the battery cathode resistance and a MOTOROLA battery identification code choose "R1 / M -".

F. measure only one after the battery anode resistance to choose "R +".

G. need the same test one after the battery cathode resistance and one after the battery anode resistance to choose "R1 / R +".

H. test battery (such as Ericsson sets T28, T68) to choose the "T".

I. when can choose "S" for Siemens S40 test and initialization.

After completion, press "set" button ENT to save these Settings and enter the acceptable range set to return to main menu. press "ESC button.

Note: in the above setting, if the battery type set to

"lithium electricity", and nominal voltage setting for "2.4 V, or 4.8V, 6.0 V", the system will automatically change as "nimh".

Acceptable range Settings: as follows:

Identify resistance 999.9 K Ω cap R1 limit 0.001 K Ω

Identify resistance 999.9 K Ω upper limit R2 Ω
0.001 K

Identify resistance R + cap 999.9 K Ω floor 0.001 K
 Ω

In the above six Settings, press "next" button to enter the ENT, press "set" button to enter the ESC testing interface, press "◀ " " ▶ " button to select needs to change the bits (subscript *), press "▲ " "▼" add and subtract selected bits, a plus to minimize or maximum can undertake dislocation or binary operations.

Lower limit alarm voltage instrument system Settings for 3.50 V, press "▲ " "▼" button to add and subtract 0.05 V,

Click "◀ " " ▶ " button to add and subtract 0.15 V.

Put the voltage difference cap instrument system Settings for 0.30 V, press "▲" "▼" button to add and subtract 0.01 V,

Click "◀" "▶" button to add and subtract 0.10 V.

Upper limit alarm impedance instrument system is set to 0.180 Ω , press "▲" "▼" button to add and subtract 0.005 Ω ,

Click "◀" "▶" button to add and subtract 0.015 Ω .

Fixture impedance correction instrument system Settings for 0.000 Ω , press "▲" "▼" button to add and subtract 0.001 Ω ,

Click "◀" "▶" button to add and subtract 0.010 Ω .

Control system Settings install instruments for 0003.

Set to 1, when in test end and qualified bees hints.

Set 2, tester detect has a battery connection bees hints.

Setting 3, the two are both bees hints.

The above acceptable range set after finishing, shutdown would be lost. If you don't need to change can be directly click "ESC" button to enter test. Test results more than the above set range will bees alarm, if a certain tests need not alarm, please send the acceptable range set to the maximum.

1.2. Connections methods:

TP1, TP2 connect battery cathode, TP3, TP4 connection battery anode. Connect TC3 resistance on the screen for R1, Connect TC2 resistance on the screen for R2, Connect TC1 resistance on the screen to R +, Code (M -, S, T, S TC4) connections.

1.3. The test results showed that:

Discharge, protection, charging, code (M -, S, T,) are all qualified "OK", displayed when nonconforming shows "!!" If discharge shows "0!" Said with discharge of no-load voltage difference than value. Voltage (V0), impedance (Rs), identify resistance (R1 R2, R +) test unqualified will reverse white display. M - qualified displayed when family code and earn check code, nonconforming shows "!!" . Any unqualified all can bees alarm.

Note: 1), in the test battery should make sure battery polarity, reverse access may cause damage (2), when test

instrument sets (M -, S, T,) battery, test process "ESC key may be shielding, wants to exit procedure can press" ENT button.

2. Capacity test

Selecting this option, enter "Settings".

[parameter Settings]

The battery type: lithium electricity

The battery voltage: 3.6 V

Battery capacity: 1000mah

The battery type: refers to the core of type. Through the button "◀ " " ▶ " circular tumbling choice, can choose to "lithium electricity" "nimh" "nickel cadmium"

The battery voltage: refers to the battery of nominal voltage. Through the button "◀ " " ▶ " circular tumbling choice, can choose to "2.4 V, 3.6 V, 4.8V, 6.0 V, 7.2 V"

Battery capacity: by button "◀ " " ▶ ""100mah circular tumbling choice for a 2000mah". - When the battery is

not 100 multiples of nominal capacity, can choose one near the capacity of the options for testing.

Connecting methods: TP1 and TP2 connect battery cathode, TP3 and TP4 connect battery anode.

Click "ENT" button to enter testing interface, test process in accordance with "the ESC key can exit the ongoing test,

Enter the next step.

The testing process (such as lithium battery) :
constant-current charging constant pressure charging
overcharge test (aside two minutes into constant exile
electricity lead put test results show

The test is completed shows: **the shortcircuit flow: OK**

Charging pressure: XX.. XX V

After put voltage: XX.. XX V

Discharge capacity: XXXX AH

Through button "◀ " " ▶" to check the battery in 3.6 V,
3.3 V, 3.0 V when the platform discharge capacity.

Description: for test battery products when test only battery output terminals, but can't test at both ends of the core, so the overcharge protection voltage tester display than protection board actual overcharge protection voltage high 0.05 V or so, had put protection voltage will display than actual protection board had put protection voltage 0.05 V left and right sides, this is by protective plate internal decision. If the test results showed that charging pressure equal or higher than 240 V, or put voltage equal to or less than 2.10 V, indicating that this battery protection beyond afore-mentioned numerical or no protection function.

3, identification code

Choose this function after entering identification code read interface:

For NUM:!!

0000000000000000

0000000000000000

0000000000000000

When the battery negative terminals up in TP2 terminal, will tester identification code terminals up in battery tester TC4 terminal, identification code will read interface in the first row shows OK. In the second line shows that this battery registration code, and the third row and four lines show is an EPROM within the first 16 byte data.

For NUM: OK

XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXX

If this time disconnect the battery and tester connection, so they return to their initial state, can interface on to the next test.

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Then the initial state, press the "▶" (hold this button after 1 second loosen), identification code READ interface first line into for ALL,

This mode can be read battery within all the data.

In this state, it will pick up in battery negative terminals, will TP2 terminal tester identification code terminals up in battery tester TC4 terminal, identification code will read interface in the first row shows OK, in the second line shows that this battery registration code, and the third row and four lines show is an EPROM within the first 16 byte data. And in the interface ringht corner on display 1/8.

For ALL: OK 1/8

XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXX

XXXXXXXXXXXXXXXXXXXX

Click "▼" button, the interface 3 and 4 EPRO within the guild display section 17 tao 32nd bytes, the upper-right corner will display 2/8, if then click " ▼ " button interface 3 and 4 EPRO within the guild shows 33 tao 48th bytes, the upper-right corner will display 3/8, ordinal. Repeat until display all data (128 bytes).

In the process, if press the "▲" button, will return to the last Olympics.

In this mode, if disconnect the battery and tester connection, display data will not disappear. Only press "ESC"

Key (hold this button after 1 second loosen), will return to their initial state, for the next test.

In for ALL mode, press"◀" key (hold this button after 1 second loosen), identification code Read interface first

line into for ALL, to NUM mode for.