12V 24V
SMART BATTERY TESTER

USER MANUAL

Welcome

Thank you for purchasing Battery Tester. Please patiently read and understand this use manual before operating this product. if you have any questions or issues, please contact our technical support

About

Applying the most advanced conductance testing technology, and the reverse polarity protection etc., CFH-200 server as a 12V24V battery tester to provide technicians with critical information about battery health status, to find battery and charging problems quickly, easily and accurately.

Package Contents
1. Battery Tester CFH-200
2. User Manual

Compatibility

Please be noted that battery type and CCA values(Cold Cranking Amp) marked on the battery label, please refer to it before using.
FBT-200 supports the following types.
1. VRLA/GEL/AGM/EFB/STD
2. Regular Flooded

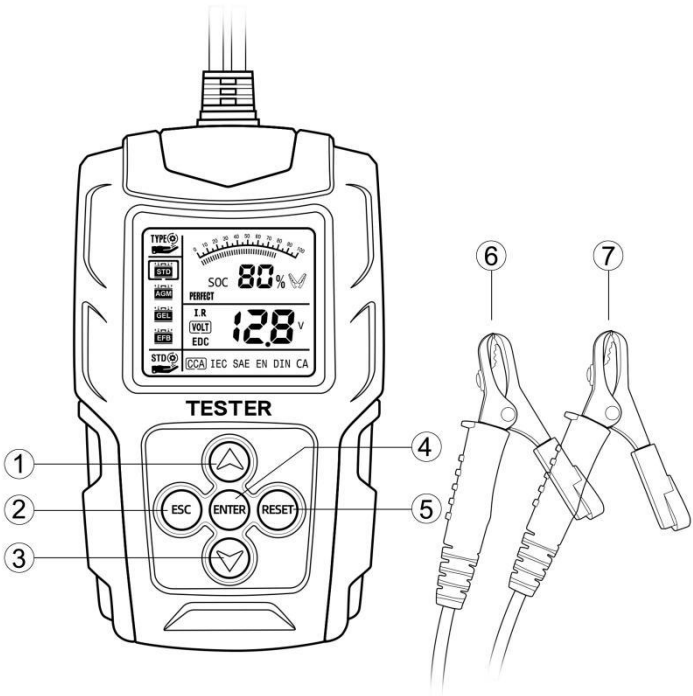
Specifications

Display: 2.7" LCD
Cable reach: 650mm (25.6 inches)
Storage Temperature: -20'C to +70'C (-4'F to 158'F)
Working Temperature: -20'C to +60'C (-4'F to 140'F)
Dimensions(L*W*H): 150*90*35mm(5.9*3.54*1.38 inch)
Weight: 325g(0.72lb)

Important

- Use this tester in accordance with there instructions, taking into account the working conditions and the work to be performed. Use of this tester for operations different from those intended could result in a hazardous situation
- Before testing, make sure the battery terminals are really clean as grease and dust could lead to errors in the test results.
- Wear eye protection when working around batteries.
- Check the insulation layer of the battery clamps is in normal condition(no damage, bareness or disconnection),in case of the electric shock.
- Test in a well-ventilated area. Explosive and toxic gases may be produced during testing
- Keep hair, hands,and clothing as well as tester leads and cords away from moving blades and belts.
- The tester is not a toy. keep it out of the reach of children.
- Do Not place the tester near the engine or exhaust pipe to avoid damaged by high temperatures, when the car engine is running.
- Do not smoke, cause sparks, or strike matches near the battery when testing
- Do not remove battery clamps while testing
- Do not put the tester into a highly humid, dusty environment.
- Do not disassemble the tester, or may cause damage.

Operation Introduction



NO	Buttons	Operation
1		Previous item, or increase the battery rating values
2		Cancel
3		Next item, or decrease the battery rating values
4		Confirm; Enter and proceed
5		Reset / Restart
6	Red Clamp	Positive battery test clamp
7	Black Clamp	Negative battery test clamp

How to Use

CFH-200 will test each battery according to the selected actual system standard and rating marked on the battery, to get the accurate results.

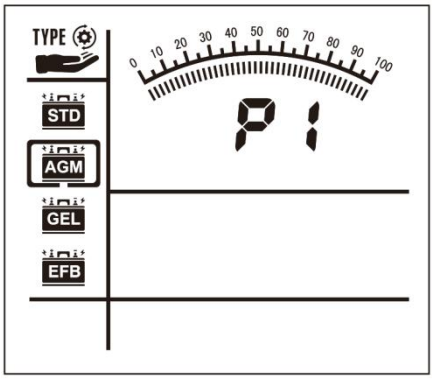
1. Before Test

the engine and all other accessory loads must be OFF during test in order to have accurate results, Turn on the vehicle headlamps for 2-3 minutes until the battery voltage drops back to normal value if the battery is just fully charged.

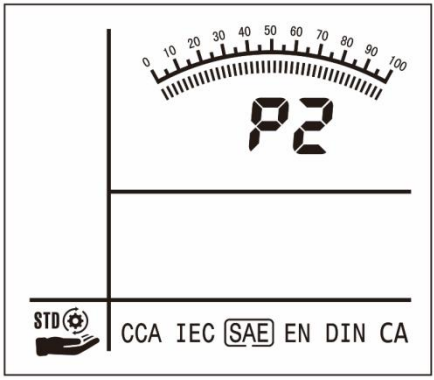
2. Steps

a. The Red(+) Positive Battery clamp is connected to the (+)positive battery terminal, and the BLACK(-) Negative Battery Clamp is connected to the (-) negative battery terminal. Ensure that the clamps have a firm, secure grip on the battery terminals for accurate results.

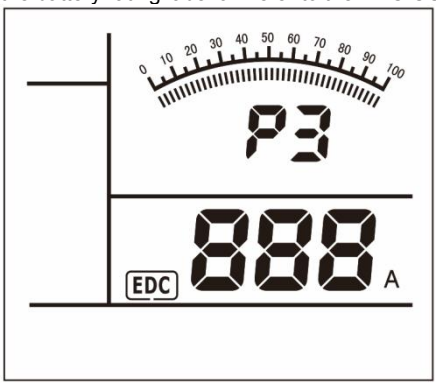
b. Press the ⌃ or ⌄ to select the "Battery Type" (specified on the battery rating label), then press "ENTER" to continue.



C. Press the ⌃ or ⌄ to select the Correct testing standard (specified on the battery rating label), then Press "ENTER" to continue.



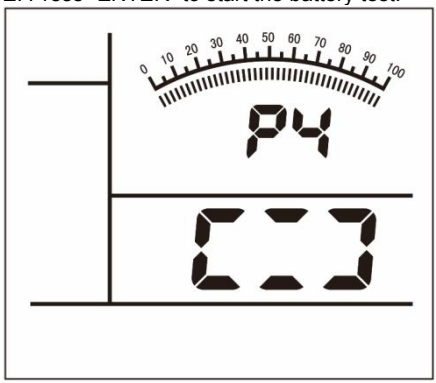
D. Hold the or to select the battery EDC/CCA values(specified on the battery rating label or Refer to the EDC/CCA Parameters Table)



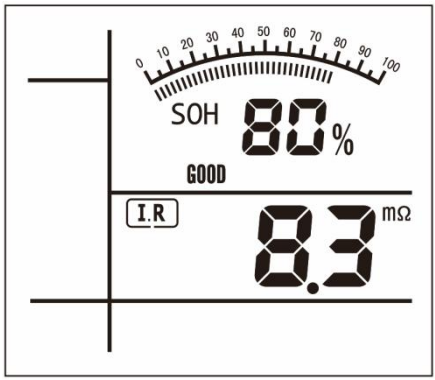
EDC/CCA Parameters Table

No	Battery Size	EDC Value	No	Battery Size	EDC Value
1	3.3AH	55A	18	28AH	340A
2	4AH	65A	19	31AH	350A
3	5AH	80A	20	33AH	360A
4	6AH	100A	21	38AH	370A
5	7AH	130A	22	40AH	380A
6	8AH	150A	23	45AH	400A
7	9AH	155A	24	50AH	425A
8	10AH	160A	25	55AH	445A
9	12AH	210A	26	60AH	465A
10	14AH	220A	27	65AH	520A
11	15AH	230A	28	75AH	550A
12	17AH	250A	29	80AH	570A
13	18AH	265A	30	85AH	600A
14	20AH	285A	31	100AH	670A
15	24AH	310A	32	120AH	700A
16	25AH	320A	33	150AH	755A
17	26AH	330A	34	200AH	995A

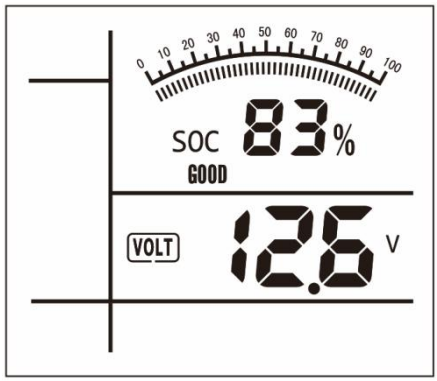
E. Press "ENTER" to start the battery test.



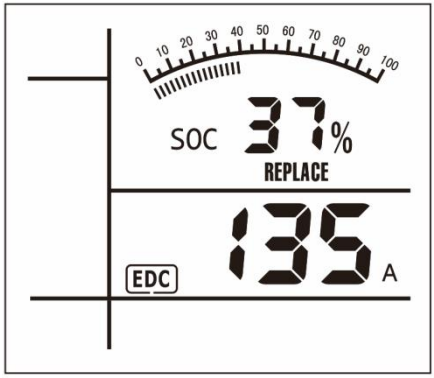
F. The test results is as Follows:



SOH: State of Health
I.R: Internal Resistance



SOC: State of Charge
VOLT: Battery Voltage



EDC/CCA: Estimated Discharge Current

Test Results Description

PERFECT	Battery Life Perfect, SOH ⩾ 90%
GOOD	Battery Life Good, SOH ⩾ 75%
BAD	Battery Life Bad, SOH ⩾ 50%
REPLACE	The battery has been scrapped, SOH < 50%
RECHARGE	Re-test the battery after charging
	The clamp is not well connected to the battery pole

Battery System Standard Description

The battery tester analyzer will test each battery according to the selected system and rating.

CCA:	Cold Cranking Amps, specified by SAE & BCI, most frequently used value for starting battery at 0'F (-18'C)
IEC:	Internal Electro Technical Commission Standard
SAE:	Society of Automotive Engineers Standard
EN:	European Automobile Industry Association Standard
DIN:	German Auto Industry Committee Standard

CA:	Cranking Amps Standard, effective starting current value at 0'C

FAQ

Q: Does this battery tester have power?
A: No, it can only be powered by the tested battery.

Q: Can CFH-200 Charge the Battery?
A: No, it will not charge any batteries, But it can detect the battery.

Q: Can CFH-200 get the battery life?
A: Yes, it will give you the health of the battery and a charge percentage.

Q: What batteries can the CFH-200 be used on?
A: it can be used on 12V and 24V batteries.

Q: Why is the result of the CFH-200 test inaccurate?
A: Maybe the parameter you set is wrong. Please input the correct data from the battery label.

Q: Why nothing is displayed?
A: Please make sure your battery voltage is higher than 8V and The positive and negative clamp are connected correctly