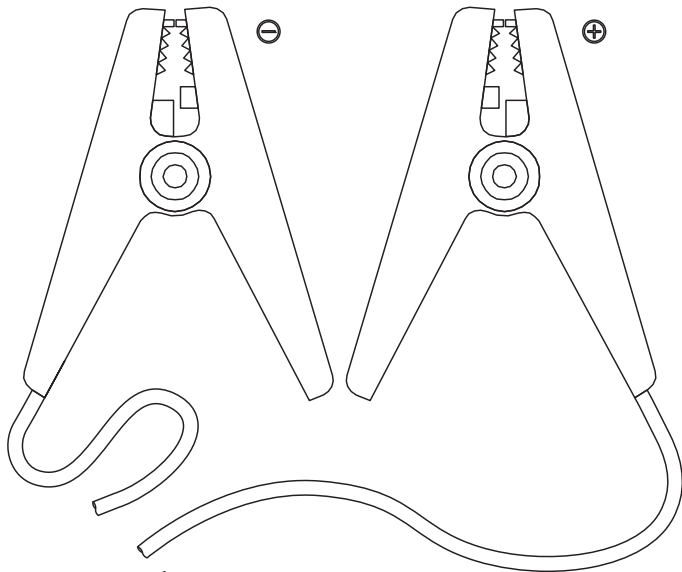
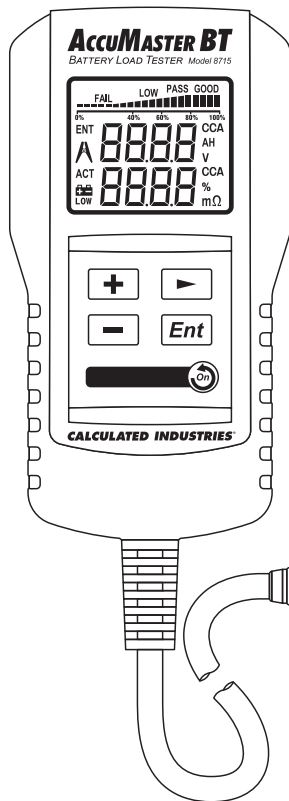


AccuMASTER™ BT

BATTERY LOAD TESTER Model 8715



Battery Compatibility

- Automotive
- Flood
- Absorbed Glass Mat (AGM)
- Gel
- Deep Cycle

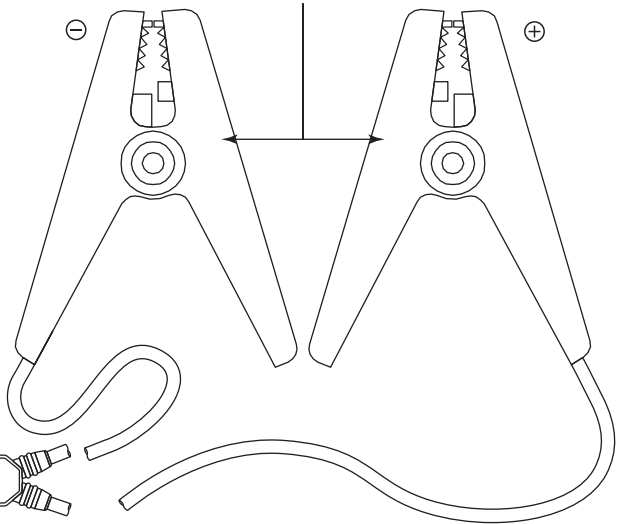
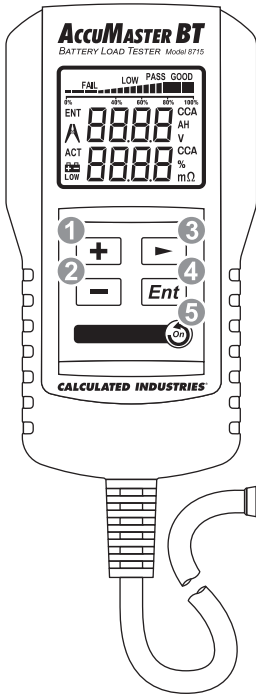
Battery Tester Applications

- Works across CCA and AH test range
- Operates on a variety of battery sizes
- Works off a 12V battery
- Checks if battery is good or needs replacement



CALCULATED INDUSTRIES®

Red Clamp (Positive)
Black Clamp (Negative)



- ① = Increase Flashing Value
- ② = Decrease Flashing Value
- ③ = Move to Next Value Space or Test Result Screen
- ④ = Enter to Start Testing
- ⑤ = Power On/Retest

Operation Procedure

1. Power for the analyzer comes from the test battery. For battery testing, place the analyzer clamps around the battery posts during testing. Red clamp (positive) terminal and black clamp (negative) terminal should be attached to the corresponding battery terminal. For higher accuracy, both sides of each battery clamp need to have a solid connection with the terminal post. A partial connection may result in the "A" displaying on the left of the screen or cause the unit not to turn on at all. To correct, ensure the clamps are properly fastened.
2. Turn on analyzer for input:
 - a. To turn on, press the "On" button for 1 second. (Remains powered down when first connected)
 - b. The screen will illuminate and a beep will sound. Device starts up in programming mode showing the last entered value or in the CCA (Cold Cranking Amp) mode if no earlier value entered.
 - c. To change between the CCA and AH mode, press "+" or "-" button to show "CCA" or "AH" on the right of the display. Default value for AH is 35 AH. If needed, press "-" to get into the CCA / Amp-Hour (AH) value input mode.
 - d. The digit on the left of the four-digit display blinks indicating the digit is changeable by pressing the "+" (increasing) or "-" (decreasing) function buttons. Press the "+" (increasing) or "-" (decreasing) function button until the correct digit shows and move to the next place value for input by pressing the "right arrow" button.
 - e. The digit on the far right of the four-digit display changes from 5 to 0 when increased or decreased, the other digits change one number at a time.



- f. After input values are entered, press the button “**Ent**”, the analyzer will start testing mode for 10 seconds. A tone will sound when the testing mode is complete.

*Note: If the voltage of the battery is too low, the “**Low**” sign will blink in the lower left corner of the screen. Recharge the battery and test again.*

- g. To re-test, press the “**on**” key.
h. To turn off the analyzer, remove clamps from terminals

3. Checking results

a. Values display:

- First row is the entered CCA value for the battery.
- Second row is the actual test CCA value of the battery.
- If AH symbol is blinking, displayed entered CCAs were estimated from entered AH value.

Press the “**▢**” button, the screen changes to the next values display.

- First row is the voltage of the battery.
- Second row is the mΩ resistance of the battery.

b. The index below the bar graph on the display screen shows the capacity of the battery which has an indication range from 0~100%.

- If the bar graph displays less than 40%, it indicates the battery is broken or too old and should be replaced.
- Graph displays between 40% to 60%, the battery is old, replacement should be considered.
- Graph displays between 60% to 80%, the battery is workable.
- Graph displays between 80% to 100%, the battery is in good condition.

What does the CCA value of the battery mean?

CCA (Cold Cranking Amp) values listed on the battery housing indicates the capacity of the battery. The CCA is determined by placing the battery at 0°F (-17.8°C) and seeing how many amps the battery can deliver continuously for 30 seconds before the voltage drops to 7.2V during the discharge. For example, when the CCA value shown on a 12V battery is 600, it means the battery supplies 600 Amps in 30 continuous seconds at 0°F before its voltage drops to 7.2V. The higher the measured CCA value by the analyzer, the better the battery will perform.

Other Information for product usage:

1. Vehicles must be turned off for more than half an hour before testing the battery. A fresh fully-charged battery should be tested after removing it from the charger for half an hour.
2. The analyzer is designed for a single 12V battery. Do not use on a series connected battery.
3. CCA value of a new battery will be higher than the value of an old battery of the same model. For example: If the CCA value of the new battery indicates 550, it may decline to 420 after one year of use.
4. Low battery “**Low**” indicates battery may not be fully charged and CCA readings may not be accurate.
 - a. If voltage is between 12.0V and 12.6V then the battery is not fully discharged and the CCA reading will read low.
 - b. If voltage is below 12.0V, the battery is discharged and readings will not be accurate.
 - c. A voltage below 11V indicates the battery may have a bad cell and needs to be replaced.



The **AccuMaster BT** is a compact and portable digital 12V battery tester, automotive battery load tester and analyzer of battery life. The tester is used to check and analyze a battery load system indicating the battery's condition. Its main function is to analyze the battery in four indexes: Voltage, Resistance, Cold Cranking Amps (CCA) value and battery condition percentage. The tester has broad compatibility with Flood, AGM, Gel and Deep Cycle batteries. Entered Amp-Hour (AH) value is converted to an estimated CCA rating and provides test results as an estimated CCA rating of the battery.

Durable and Reliable

- Repeated testing of a battery does not damage or weaken the battery
- Built-in reverse polarity protection for both the testing unit and the vehicle's system
- Has a beep reminder function
- Comes with a rugged and convenient storage case

Test Functions

- Battery Condition Percentage
- Voltage
- Cold Cranking Amps (CCA)
- Resistance

Technical Specifications:

- Item size: 5.1 x 2.75 x 1.1 inches (130 x 70 x 28mm)
- Wire length: About 21.7 inches
- Weight: 8.8 ounces
- CCA range: 0-1995
- AH range: 0-199.5
- Voltage accuracy: +/- 0.03V
- Resistance accuracy: +/- 0.3m Ω
- Uses 12V battery for power and does not require its own battery to operate
- Large easy-to-read backlit display
- Operating environment: 32°F to 104°F (0°C to 40°C), 80% relative humidity or less, non-condensing.
- Maximum Input Voltage: 15VDC
- CCA ratings are rated at 0°F. Battery output (CCA) will increase with temperature. If testing battery above 40°F then the CCA tested value may indicate a reading of about 20% higher than the CCA as rated on the battery

Includes:

- Protective storage case
- User guide
- Two-year limited warranty

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Made in China UG8715E-A

WARNING

Read this material before using this product. Failure to do so can result in serious injury.