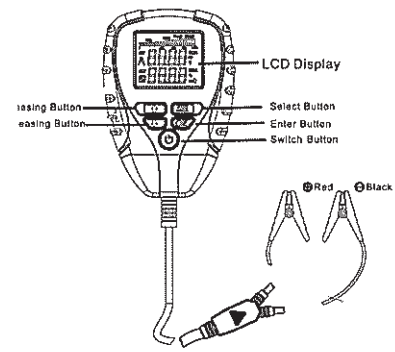


## AE310 Battery Tester/Analyser




### Test functions

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


### Technical Specifications:




- Voltage accuracy:  $\pm 0.03V$
- Resistance accuracy:  $\pm 0.3m\Omega$
- Low battery indication:  $12.4V \pm 0.1V$
- CCA range: 0-1995
- AH range: 0-199.5
- Uses 12V battery for power and does not require its own battery to operate
- Large easy-to-read backlit display
- Working temperature:  $0^{\circ}C-50^{\circ}C$





### Operation procedure:

First, for battery testing, ensure the clamps are clean. Place the clean analyser clamps around the battery posts during test. Red clamp (positive) terminal and black clamp (negative) terminal should be attached to corresponding battery terminal. For higher accuracy, both sides of each battery clamp need to have a solid connection with the terminal posts. A partial connection may result in the  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.

Second, turn on analyzer for input.


Press the  button to turn on the analyzer.

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. If the screen shows the low battery  sign, it indicates the battery may not be fully charged. Please recharge the battery and then test again, or the test readings values may not be accuracy. To change the CCA and AH mode, press the  or  to show CCA or AH on the right

of the display. The value 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 "SEL" button. The button on the far right of the four-digit display changes from 5-0 when increased or decreased, the other digits change one number at a time. According to the different modes

(CCA or Volts), first row is the entered CCA or the voltage value for the battery. Second row is the actual CCA value or mO resistance of the battery.

Note: If AH symbol is blinking, display entered CCAs were estimated from entered AH value.

After input values are entered, press the "OK" button. The analyser will start testing mode. A tone will sound for one second when the testing mode is complete. To re-test, press the  button.

Checking results: The index below the

bar graph on the display screen shows the capacity of the battery which has a 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 display between 60% to 80%, the battery is workable.
- Graph displays between 80% to 100%, the battery is in good condition.

To turn off the analyser, remove clamps from terminals.

### Battery Facts & Info.

CCA(Cold Cranking Amps): One of the most important ways to rate Battery Capability is with CCA(Cold Cranking Amps). Each battery, as it comes from the manufacturer, has a CCA rating associated with it. As the battery gets older its CCA will go down until eventually the vehicle will not start and

the battery needs replacing. The main reason for the CCA decrease is Battery Sulfation.