

MANUAL

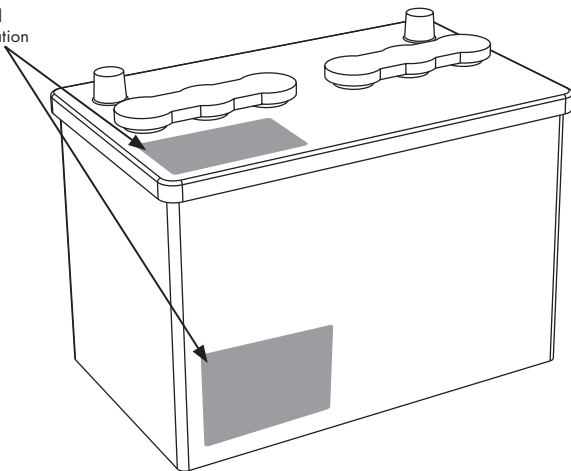
CONGRATULATIONS

On the purchase of your new professional CTEK Battery Analyzer. The Battery Analyzer represents the latest technology in battery testing and will provide you quickly and safely with easy to understand, accurate results.

IDENTIFYING YOUR BATTERY RATING

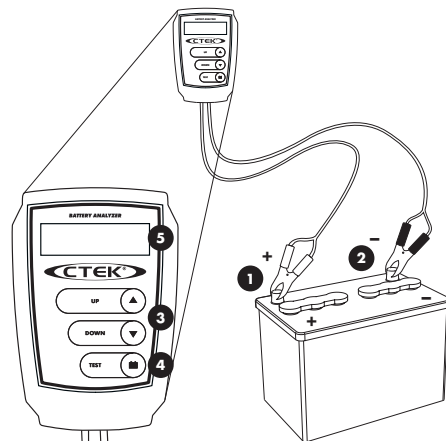
Your battery should have a label attached showing its performance rating. Use this information to set the Battery Analyzer. If not visible contact your battery supplier for guidance.

Battery label
- typical location



CONNECTING THE ANALYZER TO THE BATTERY

Note: Tests should only be undertaken with the vehicle engine and any electrical loads in the 'Off' position.



1. Connect the red clamp to the positive (+) terminal and the black clamp to the negative (-) terminal. The Battery Analyzer switches on when both connections are made.
2. Ensure a good connection by moving the clamps around on the terminals. The Battery Analyzer requires that both sides of each clamp be properly connected before testing can take place. A poor connection will result in the 'CHECK CONNECTION' warning. If this happens, clean the battery terminals and clamps and reconnect.
3. Following the start up screens, enter the rating of the battery you are testing* (EN or CCA according to Battery Analyzer model) using the '▲' and '▼' buttons. The default setting is 500 EN (or 500 CCA according to model).
4. Press the TEST button and begin the battery test.
5. The result of the test is displayed on the screen.
6. If retest is required, disconnect the Battery Analyzer, reconnect it to the battery terminals, and repeat the process.

BATTERY TEST RESULTS

BATTERY GOOD

Return the battery to service. No action required.

GOOD / RECHARGE

Fully charge the battery and return to service.

CHARGE & RETEST

Fully charge the battery and retest.
(Fully charge the battery before retesting to ensure accurate readings).

REPLACE BATTERY

Test results indicate that the battery is failing and should be replaced.

SPECIFICATIONS

BATTERY VOLTAGE MEASUREMENTS

(Operating Voltage Range: 8.0 V to 15.0 V)

Minimum (V)	Maximum (V)	Resolution (V)	Accuracy (V)
8	15	0.1	±0.1

MEASUREMENTS

Model	Range	Resolution	Accuracy
EN	200–1200 EN	25	±25
US	200–1200 CCA	25	±25

BATTERY RATING COMPARISON TABLE

Use this table to compare your reading with other popular battery standards. See battery label for details or contact your battery supplier for guidance.

SAE/CCA	EN	EN2	IEC	DIN
200	180	175	130	110
250	230	220	160	140
300	280	265	195	170
350	330	310	225	200
400	360	350	260	225
450	420	400	290	255
500	480	440	325	280
550	520	485	355	310
600	540	530	390	335
650	600	570	420	365
700	640	615	450	395
750	680	660	485	420
800	760	705	515	450
850	790	750	550	480
900	860	790	580	505
950	900	835	615	535
1000	940	880	645	560
1050	1000	925	680	590
1100	1040	970	710	620
1150	1080	1010	745	645
1200	1150	1055	775	675

SAFETY

Check the battery for any signs of damage. If not a maintenance free battery, and the electrolyte level is low, top it up and fully charge the battery. Always take suitable safety precautions when working with batteries to avoid serious injury or death.

MAINTENANCE INSTRUCTIONS

The CTEK Battery Analyzer is maintenance-free. The unit must not be opened; doing so will invalidate the warranty. The casing can be cleaned using a damp cloth and mild cleaning agent.

LIMITED WARRANTY

CTEK SWEDEN AB issues this warranty to the original purchaser of this product. This limited warranty is not transferable. The warranty applies to manufacturing faults and material defects for 2 years from the date of purchase. The customer must return the product together with the receipt of purchase to the point of purchase. This warranty is void if the Analyzer has been opened, handled carelessly or repaired by anyone other than CTEK Sweden AB or its authorised representatives. CTEK Sweden AB makes no warranty other than this limited warranty and is not liable for any other costs other than those mentioned above, i.e. no consequential damages. Moreover, CTEK Sweden AB is not obligated to any other warranty other than this warranty.

SUPPORT

CTEK offers a professional customer support: www.ctek.com.
For latest revised user manual see www.ctek.com.

- The charger is designed for charging only batteries according to the technical specification. Do not use the charger for any other purpose.
- Always follow battery manufacturers' user and safety recommendations.
- Never try to charge non-rechargeable batteries.
- Never place the charger on top of the battery or cover the charger when charging.
- Never charge a frozen or damaged battery.
- Never use a charger with damaged cables. Ensure that the cables have not been damaged by hot surfaces, sharp edges or in any other way.
- Never place a fan-cooled charger so that dust, dirt or similar can be sucked into the fan.
- A damaged cable must be replaced by a CTEK representative using an original part supplied by CTEK. A detachable cable can be replaced by the user using an original part supplied by CTEK.
- Never extend the charge cable to a total length of more than 5.0 m. Use only original parts supplied by CTEK.
- Connection to the mains supply must be in accordance with the national regulations for electrical installations.
- Chargers with grounded mains plug must only be connected to a grounded socket outlet.
- During charging, Lead-Acid batteries could emit explosive gases. Prevent sparks close to the battery. Provide for good ventilation.
- Chargers with IP-class lower than IPX4 are designed for indoor use. See technical specification. Do not expose to rain or snow.
- Connect the charger to the battery's positive pole and then to the negative pole. For batteries mounted inside a vehicle, connect the negative connection to the vehicle chassis remote from the fuel pipe. Then connect the charger to mains supply.
- Disconnect the charger from the mains supply. Next remove the negative connection (vehicle chassis) and then the positive connection.
- Don't leave any battery unattended for a longer period of time during charging. If any error occurs disconnect the charger manually.
- **(IEC 7.12 ed.5)** This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- **(EN 7.12)** This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.