

Clarke®



12V LED BATTERY/ALTERNATOR TESTER

MODEL NO: CBAT1

PART NO: 6260105

OPERATION & MAINTENANCE INSTRUCTIONS



LS1113

INTRODUCTION

Thank you for purchasing this CLARKE product.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

SAFETY INSTRUCTIONS



WARNING: HIGH VOLTAGES ARE PRESENT AT THE FOLLOWING POINTS: - THE IGNITION COILS, DISTRIBUTOR CAP, IGNITION CABLE, SPARK PLUGS.



CAUTION: PLEASE READ THESE INSTRUCTIONS AS WELL AS THOSE IN YOUR VEHICLE HANDBOOK VERY CAREFULLY BEFORE USING THE TESTER. KEEP THEM IN A SAFE PLACE FOR FUTURE REFERENCE.

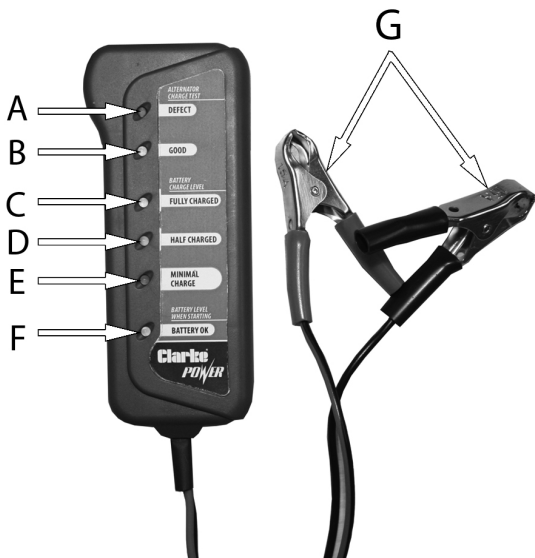
-
1. Clarke International are not liable for any damages or consequences resulting from:
 - Connection and installation errors.
 - Damage to the device due to mechanical influences or voltage surges or any modification to the device.
 - Any unauthorized manipulation to the product which would lead to cancellation of the guarantee.
 - Use of the device for purposes other than described in this instruction manual.
 - Any influence of fluids.
 2. Do not use the device in a moist or wet environment.
 3. Do not use the tester close to flammable materials.
 4. Do not use the tester in an explosive environment.
 5. Make sure the device is always positioned in a safe place.
 - The device must be placed out of reach of children.
 - Do not expose the device to direct sunlight or other heat source.
 6. Store the tester in a safe, dry place after use.
 7. Do not try to use other cables with the product.

8. Do not open the case, there are no replaceable parts inside the product.
9. If the product malfunctions, please consult your dealer.
10. Do not use the device while the vehicle is motion, the tester is not suitable for permanent installation in a motor vehicle.
11. Make sure the vehicle is securely parked and the handbrake applied before using the tester. For vehicles with automatic transmissions the "park position" must be engaged and the hand brake must be engaged.
12. Do not use other measuring devices when using the tester.
13. Seek professional help if you are unsure about anything related to the electrical system in your vehicle.

OTHER INFORMATION

1. The Battery Tester is suitable for all types of lead acid batteries (car batteries).
2. The device is not suitable for commercial purposes.
3. The device is not calibrated.

DISPLAY IDENTIFICATION



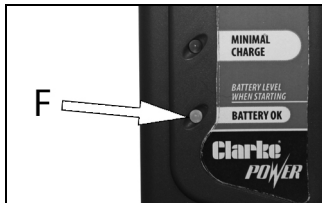
A	Alternator Defect Indicator
B	Alternator Good Indicator
C	Battery Fully Charged Indicator
D	Battery Half Charged Indicator

E	Battery Minimal Charge Indicator
F	Battery OK Indicator
G	Clamps

OPERATION

BATTERY CHECK

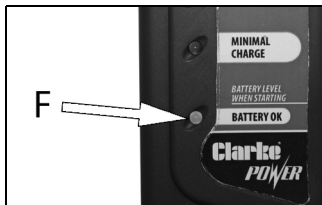
1. Connect the red clamp to the positive (+) terminal on the car battery, then connect the black clamp to the negative (-) terminal.
 - The "Battery OK" LED (F) will light up if a voltage of at least 10V is detected.
2. Remove the black clamp from the negative (-) terminal on the car battery then remove the red clamp from the positive (+) terminal.



BATTERY CONDITION WHEN STARTING THE VEHICLE

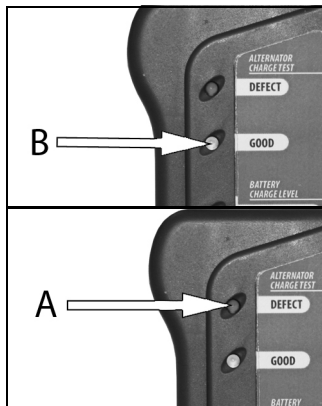
NOTE: The battery must be fully charged.

1. Connect the red clamp to the positive (+) terminal on the car battery, then connect the black clamp to the negative (-) terminal.
2. Start the vehicle.
3. During the starting process, when the starter motor is being used, the "Battery OK" LED (F) stays lit if the voltage does not drop below 10V.
 - If the "Battery OK" LED (F) does go out you should visit a professional automotive workshop.
4. Remove the clamps in the reverse order.



ALTERNATOR CHECK

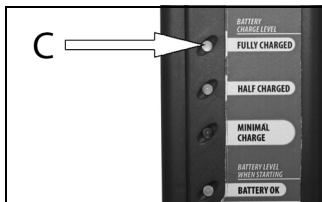
1. Connect the red clamp to the positive terminal (+) of the battery, then connect the black clamp to the negative terminal (-).
 - Check that the measuring device has a good connection to the battery
2. Start the engine and turn on the headlights and radio.
 - The "GOOD" LED (B) will light up if the alternator is producing the correct voltage.



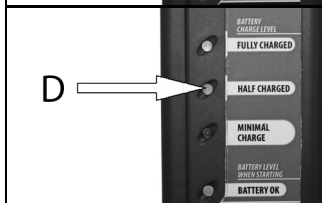
- If the "DEFECT" LED (A) lights up, the alternator is delivering an excess of more than 14.8V.
- If neither LED lights up, this means that less than 13.8V is being detected and the alternator may be defective.

BATTERY CHARGE LEVEL

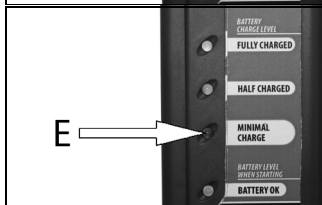
1. With the engine not running, (ignition key in the first position), turn on the headlights of the vehicle for approximately 1 to 2 minutes.
2. Turn off the headlights and remove the ignition key.
3. Now disconnect the negative terminal (-) on the car battery.
4. After 10 minutes connect the red clamp to the positive terminal (+) of the battery, then connect the black clamp to the negative terminal (-) of the battery.
5. Depending on the charge level of the battery, the LED indicates
 - FULLY CHARGED (C)



- HALF CHARGED (D)



- MINIMAL CHARGE (E)



MAINTENANCE

CLEANING

- Do not use any liquid cleaning product.
- Do not use any inflammable cleaning product.
- Do not submerge the device or spill any liquids over it.
- If needed, clean the device with a light, damp, soft cloth.

SPECIFICATION

Product Description	Alternator and battery tester
Part number	6260105
Input Voltage	12 V
Measurement (H x L x W)	18 x 123 x 52 mm
Product Weight	0,06 kg
Fuse	No fuse

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemnall Street, Epping, Essex CM16 4LG

DECLARATION OF CONFORMITY

This is an important document and should be retained.

We hereby declare that this product(s) complies with the following directive(s):

2004/108/EC *Electromagnetic Compatibility Directive.*

2011/65/EU *Restriction of Hazardous substances.*

The following standards have been applied to the product(s):

EN 61326-1:2006, EN 61326-2-2:2006

The technical documentation required to demonstrate that the product(s) meet(s) the requirement(s) of the aforementioned directive(s) has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2012

Product Description: 12V Battery and Alternator Tester
Model number(s): CBAT1
Serial / batch Number: N/A
Date of Issue: 15/08/2013

Signed:

J.A. Clarke
Director

AVAILABLE FROM YOUR CLARKE DEALER

CEOBD ENGINE FAULT CODE READER



- Access the vehicle's engine control unit to retrieve essential emission based information, to read & clear diagnostic trouble codes (DTC's) and obtain important engine performance data
- Works with all 1996 & later vehicles that are OBDII/ EOBD & CAN compliant.

CDM35 DIGITAL MULTIMETER



- Protective shock resistant holster complete with probe holders and variable height stand.
- Diode, transistor and audible continuity test.
- Automatic over range and polarity indication.
- Full overload protection on all ranges (except 20A)

A SELECTION FROM THE VAST RANGE OF

Clarke®

QUALITY PRODUCTS

AIR COMPRESSORS

From DIY to industrial, Plus air tools, spray guns and accessories.

GENERATORS

Prime duty or emergency standby for business, home and leisure.

POWER WASHERS

Hot and cold, electric and engine driven - we have what you need

WELDERS

Mig, Arc, Tig and Spot. From DIY to auto/industrial.

METALWORKING

Drills, grinders and saws for DIY and professional use.

WOODWORKING

Saws, sanders, lathes, mortisers and dust extraction.

HYDRAULICS

Cranes, body repair kits, transmission jacks for all types of workshop use.

WATER PUMPS

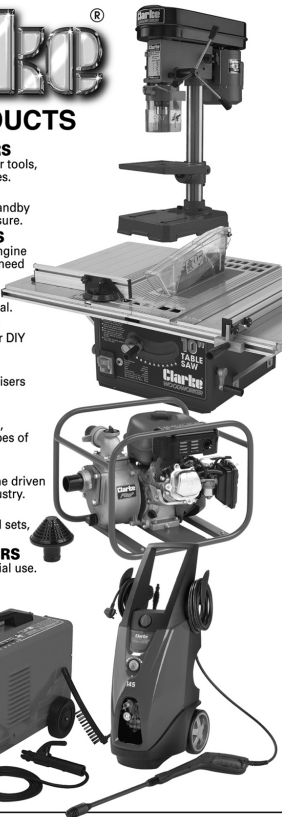
Submersible, electric and engine driven for DIY, agriculture and industry.

POWER TOOLS

Angle grinders, cordless drill sets, saws and sanders.

STARTERS/CHARGERS

All sizes for car and commercial use.



PARTS & SERVICE: 020 8988 7400

E-mail: Parts@clarkeinternational.com or Service@clarkeinternational.com

SALES: UK 01992 565333 or Export 00 44 (0)1992 565335

Clarke INTERNATIONAL Hemnall Street, Epping, Essex CM16 4LG
www.clarkeinternational.com