



### SPARE PARTS LIST

Item	Description	Qty	Part No.
1	Crocodile Clip	2	HT62601
2	Sleeve Red (handle)	2	HT62602
3	Sleeve Black (handle)	2	HT62603
4	Gauge Assy	1	HT62604
5	Gauge Cover	1	HT62605
6	Plastic Grommet	2	HT62606
7	Switch	1	HT62607



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# Clarke<sup>TM</sup>

## POWER



0802

## BATTERY TESTER

Model: CVT 1

Part Nos. 6260100

## OPERATING & MAINTENANCE INSTRUCTIONS

Thank you for purchasing this CLARKE Battery Tester, which is designed to test the state and condition of 6 and 12 volt batteries.

Before using this product, read this leaflet thoroughly, and follow the instructions carefully, with particular emphasis on the safety precautions. This will ensure your own safety and that of others around you.

Although this product is of rugged construction, it should nevertheless be used with care and consideration, you can then look forward to it giving long and reliable service.

## GUARANTEE

This CLARKE product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Your receipt is required as proof of purchase.

This guarantee is invalid if the product is found to have been abused 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 in no way effects your statutory rights under common law.

## OPERATION

*With the meter disconnected from the battery, ensure the gauge needle is set to zero, using the screw on the front of the gauge as necessary.*

### 1. BATTERY TEST.

- A. Connect the RED clamp to the POSITIVE terminal, and the BLACK clamp to the NEGATIVE terminal, ensuring the contacts are clean and firm, and that on small batteries, there is absolutely no possibility of the clamps touching each other.
- B. Operate the spring loaded LOAD Switch, and hold for at least 10 seconds to allow the load to take effect. With the load switch held, read the condition of the battery on the scale provided, referring to the Battery Analysis chart, opposite.

### 2. CHARGING SYSTEM TEST

Connect the leads to the battery, as above, and run the engine at a fast idle speed. Read the gauge (charging system). Do not operate the Load Switch.

## SAFETY PRECAUTIONS

1. Always avoid creating sparks in a battery charging environment, as this could cause fire, or even an explosion.

Similarly, it is vital to avoid creating sparks when testing a battery in a motor vehicle in situ, as spikes in the system could cause serious damage to the vehicle electronic circuitry.

Ensure that the RED or POSITIVE clamp does not touch any other part of the vehicle, and be particularly careful where you place the tester within the engine compartment. The main body of the tester is metal, and if placed carelessly, it could cause a short circuit and hence damage to the electrical system.

2. Avoid dropping the tester, as this could cause damage, which may not perhaps prevent the device from working, but could nevertheless cause the readings to be inaccurate.

## MAINTENANCE

As the metal clamps are liable to come into contact with battery electrolyte, it is advisable to wipe them clean and dry after use, and apply a thin film of silicon grease to prevent the possibility of corrosion.

### BATTERY ANALYSIS

Meter reading after 10 seconds of load

LOAD TEST	BATTERY CONDITION
OK (Green Band)	Battery capacity is GOOD. May or may not be fully charged. Check the state of charge by checking Specific Gravity with a hydrometer. If SG is less than Full charge, check for possible charging system trouble. Re-charge battery to full charge
WEAK or BAD but needle is steady.	Battery capacity is unsatisfactory. Battery may be: a) defective or b) partly discharged. To determine which, check Specific Gravity. If SG is over 1.225, the battery is considered defective. If SG is below 1.225, re-charge battery and re-test. If difference in cell to cell SG is greater than 0.025 (25 points), cell trouble may exist. If charging does not bring SG to full charge level, then battery is either sulphated, or has lost its active material.
WEAK or BAD and needle is falling	Battery may be defective (e.g. A bad cell). For a quick check, release load switch, and note voltmeter reaction. If voltage recovers to its full potential after only a few seconds, the battery is probably defective. If the voltage recovers slowly, the battery may only be very run down. For more accurate results, check Specific Gravity and follow above procedure.

### TEMPERATURE COMPENSATION

Battery temperature	0° C	-10° C	-20° C
Decrease battery rating by:	1 STEP	2 STEP	3 STEP

1 STEP = 50 CRANKING AMPS