

# Clariflo®



## TRICKLE CHARGER

MODEL NO: ATC12VB

PART NO: 6266012

### OPERATION & MAINTENANCE INSTRUCTIONS



ORIGINAL INSTRUCTIONS

LS0618 ISS 2

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## **INTRODUCTION**

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Thank you for selecting this Clarke Trickle Charger.

Read this manual before use. The warnings and cautions in this manual help you use the trickle charger safely. Please store these instructions for future reference.

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## **RECOMMENDED USE**

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This charger must not be used for the charging of non-rechargeable batteries.

This charger is suitable for charging 12V lead acid, sealed lead-acid, GEL, maintenance-free and AGM batteries of capacities up to 100Ah (Ampere hours).

Check with your battery manufacturer if you are unsure about the suitability of this charger for use with your battery.

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## **GUARANTEE**

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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.

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## SAFETY INSTRUCTIONS

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- This charger must not be used by children under 8 years old or people with reduced physical, sensory or mental capabilities or lack of experience and knowledge.
- Children must be supervised when using this charger.
- The casing should not be opened. There are no user-serviceable parts.
- Store this product in a dry place to prevent moisture damage.
- Do not use this product if it is damaged.
- Only use this product for the purposes described in this instruction booklet. Damage resulting from incorrect use will not be covered by your warranty.
- The use of safety goggles and gloves when working with lead acid batteries is strongly advised.
- Avoid contact with the electrolyte as this is acidic and is likely to cause burns to the skin or clothes.
- Prevent short circuits which can result in a dangerous electrical discharge that could result in personal injury or damage to equipment and property.

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## OUTPUT CONNECTIONS

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The output cable from the charger terminates in a socket. Connect one of the following leads into this socket.

	<p>Crocodile clips - for connecting direct to the battery terminals, positive (Red) and negative (Black).</p>
	<p>For semi permanent connection to the battery via eyelets. For motorcycles, Boats, ATVs, Quad bikes and Scooter.</p>

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## LED STATUS INDICATOR

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NOT LIT	The battery is not correctly connected or the charger is not plugged into AC power.
RED LIGHT FLASHING	Indicates that the battery charger has AC power available. If the red light continues to flash after connection, then either the battery voltage is too low (Less than 2.0 Volts) or the output clips are not connected correctly.
RED LIGHT ON STEADY	The battery is connected and charging. The red light will stay on until the charger completes the charging step.
GREEN LIGHT FLASHING	The battery is greater than 80% charged and may be removed from the charger and used if necessary.
GREEN LIGHT ON STEADY	Charging is complete. The charger can stay connected to keep the battery fully charged for an indefinite period of time.

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## OPERATION

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### 1. PREPARATION OF THE BATTERY (FOR NON-SEALED LEAD-ACID BATTERIES ONLY)

If possible, inspect the liquid levels in each cell and top up if required, using deionized or distilled water.

The cell caps must be replaced but not tightened until charging is complete.

### 2. BATTERY CONNECTIONS

The mains supply should always be disconnected before making or breaking battery connections.

Connect the clips to the battery in the following order:

1. Connect the positive charging lead (RED) to the positive post of the battery

#### FOR BATTERIES INSTALLED IN THE VEHICLE:

2. Connect the negative charging lead (BLACK) to the vehicle chassis, well away from the battery, fuel line, and hot or moving parts.

#### FOR BATTERIES THAT HAVE BEEN REMOVED FROM THE VEHICLE:

3. Connect the negative charging lead (BLACK) to the negative post of the battery.
4. After connecting the clips, rotate them slightly to remove dirt or oxidation, thus ensuring a good contact.

## MAINS CONNECTION - CHARGING



**WARNING: DO NOT ATTEMPT TO START THE VEHICLE WITH THE CHARGER CONNECTED. THIS MAY DAMAGE YOUR BATTERY CHARGER.**

Connect the charger to mains power supply.

- If the battery is in an acceptable condition the charge cycle will now commence and the LED's will show charging information.
- If the battery is not connected properly, the red LED will flash. Charging will not begin while the red LED flashes.
- When charging begins, the red LED will turn on.
- When the battery is fully charged, the charger will switch to provide a maintenance charge and may be left connected.

### AUTOMATIC - CHARGE CYCLE

Stage 1	Diagnosis/ Analysis:	To check if the battery can accept a charge or not and prevent charging a defective battery;
Stage 2	Bulk Mode (Constant Current)	Fast speed charging, the battery is 0% to 80% charged;
Stage 3	Absorption Mode (Constant Voltage):	Absorption to voltage 14.6V, battery is 80% to 100% charged.
Stage 4	Storage/Float maintenance mode:	Automatic On-off Monitoring. The charger will shut off and will monitor the battery. If the battery falls below 12.8VDC, the charger will restart and enter into stage one.

### DISCONNECTION

1. Switch off the mains supply and unplug the charger.
2. Disconnect the clips, Negative (BLACK lead) -ve first, followed by the Positive (Red lead) +ve.
3. If the battery has been removed from the vehicle for charging, replace it and reconnect the cables.

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# MAINTENANCE

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**WARNING: ALWAYS BE SURE THE CHARGER IS UNPLUGGED BEFORE PERFORMING ANY MAINTENANCE OR CLEANING.**

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This charger requires minimal maintenance. As with any appliance or tool, a few common sense rules will prolong the life of the battery charger.

1. Store in a clean, dry place
  2. Coil up the leads when not in use.
  3. Clean the case and leads with a slightly damp cloth.
  4. Clean any corrosion from the clamps with a solution of water and baking soda.
  5. Examine the leads periodically for cracking or other damage and have them replaced if necessary.
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**WARNING: ALL OTHER SERVICE SHOULD BE DONE BY QUALIFIED PERSONNEL ONLY**

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## ENVIRONMENTAL PROTECTION

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Through purchase of this charger, the customer is taking on the obligation to deal with the WEEE in accordance with the WEEE regulations in relation to the treatment, recycling & recovery and environmentally sound disposal of the WEEE.

In effect, this means that this charger must not be discarded with general waste. Refer to the laws governing Waste Electrical and Electronic Equipment (WEEE) at a recognised disposal facility.

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