

Clarke®

weld



ARC ACTIVATED HEADSHIELD

Model Nos CWH6, CWH7 & CWH8

Part Nos: 6000671, 6000672 & 6000688

ASSEMBLY & OPERATING INSTRUCTIONS

CE

GC01/12

INTRODUCTION

Thank you for purchasing this CLARKE Headshield.

Please read this manual thoroughly and follow the instructions carefully and follow the instructions given. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to the product 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 its intended purpose. 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.

ENVIRONMENTAL PROTECTION



If broken, do not dispose of this product with general household waste. This product contains valuable raw materials and should be disposed of appropriately at a recognised disposal facility.

SPECIFICATION

Viewing Field (W x H)	90 X 40 mm
Shade Number in Light State	DIN4
Shade Number in Dark State	DIN 9-13 Outside Adjustment
UV/IR Protection	max shade DIN16 at all times
Operating Temperature Range	-5°C - +55°C
Weight	0.5kg
Switching Time from light to dark	0.7 m sec
Delay Time from dark to light	0.15 - 0.3 seconds
Lens Power Control	Auto-on, Auto-off after 15 min idle time
Power Supply	Solar Cells / two AAA batteries
Construction material	Polypropylene (fireproof)

GENERAL SAFETY WARNINGS

- The protective plate in this headshield is breakable and will not protect against impact hazards.
- This Headshield is designed for use in arc welding or cutting applications such as MIG/MAG, TIG, MMA, Plasma Arc, and Carbon Arc.
- Use this headshield for face and eye protection against harmful rays, sparks and spatter from welding and cutting.
- **This headshield is not suitable for laser welding, laser cutting or “overhead” welding applications or for oxyacetylene.**
- Never place this product on a hot surface.
- In the event of failure, the headshield remains protected against UV and IR radiation.
- Do not make any modifications to this product. Protection can be seriously impaired if modifications are made.
- When necessary, use identical replacement parts. This will ensure that the safety of the product is maintained.
- Only trained welders should use this product.
- Do not use without protective plate (6) installed. Do not use if any part of the headshield is cracked or broken.
- Do not use this headshield for welding outside the range of DIN 9-13. Harm to the eyes and impaired eyesight may result.

Please keep these instructions in a safe place for future reference.

PREPARATION & USE

Refer to the part numbers on Page 6.

ASSEMBLY

1. Install headband (8) by removing the thumbscrews (3) individually, and fasten again after passing each spindle (12) through the holes on the sides of the hood. Ensure square lugs of the spacer (15) and back washer (13) seat in the headshield and the adjustment tab (9) is locked in position.
2. Remove protective film from lens before use.

ADJUST HEADBAND TO FIT

1. The headband (8) should be adjusted both in diameter and height to fit the wearer's head. To do this, press the adjustment knob (10) on the back of the headband and turn the nut either left or right to expand or contract the headband.

2. The top headband can be adjusted by bending the strap and positioning the peg in the appropriate hole.
3. When the thumbscrews (3) are tight, the angle of tilt can be quickly and repeatably adjusted using the adjusting tab (9), by placing it on the chosen peg on the headband.

BATTERY INSTALLATION

1. Remove the battery compartment door by gently prising up the lid as shown.
2. Install the batteries (2 x AAA 1.5 volt batteries) according to the diagram located on the battery compartment lid.
3. Close the lid by pushing it down gently.



USING THE HEADSHIELD

1. Remove the protective film from both sides of the cartridge (1).
2. Ensure the battery indicator light on the lens is illuminated before welding.
 - The window will be set to Light DIN 4 state, and you will be able to see the workpiece. The lens will automatically darken when an arc is struck.
3. Test the lens by striking an arc on the workpiece for the first time. Replace the batteries if the lens is not operating correctly. Check also that the outer screen and lens are clean and clear at all times.
4. Change the shade of setting as required using the shade adjustment knob (4). Refer to the table opposite.
5. When the helmet is not used for 15 minutes, the power will automatically shut off. There is no OFF switch.

SELECT THE SHADE SETTING

On striking an arc, the window will automatically darken to a preset level. You can adjust this level using the shade knob (4) on the side of the headshield, corresponding to the type of welding process.

- There are five levels available; 9, 10, 11, 12 and 13. Check the table to determine which value you should select.
1. Set the shade selector (4) to the required setting.
 2. During the welding operation the lens will automatically darken to the pre-set shade. On removal of the arc, the lens will return to the light state.

BATTERY LOW WARNING

The filter cartridge has a red 'low battery' warning indicator. When the red light warning indicator illuminates, the batteries should be replaced as soon as possible.

Welding Process	Arc Current (Amperes)																	
	10	20	30	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450
SMAW		9			10		11			12				13			14	
MIG(heavy)					10		11			12				13			14	
MIG(light)					10		11			12		13		14		15		
TIG, GTAG	9	10		11			12		13			14						
MAG/CO2				10		11		12		13			14		15			
SAW							10		11		12		13		14		15	
PAC					11			12			13							
PAW	9	10	11		12			13			14				15			

Shade numbers according to BS 679, DIN 4647-1 and EN 169



WARNING: DO NOT USE FOR WELDING OUTSIDE THE RANGE OF DIN 9-13. INJURY TO THE EYES & LOSS OF EYESIGHT MAY BE CAUSED.

CARE AND MAINTENANCE

GENERAL

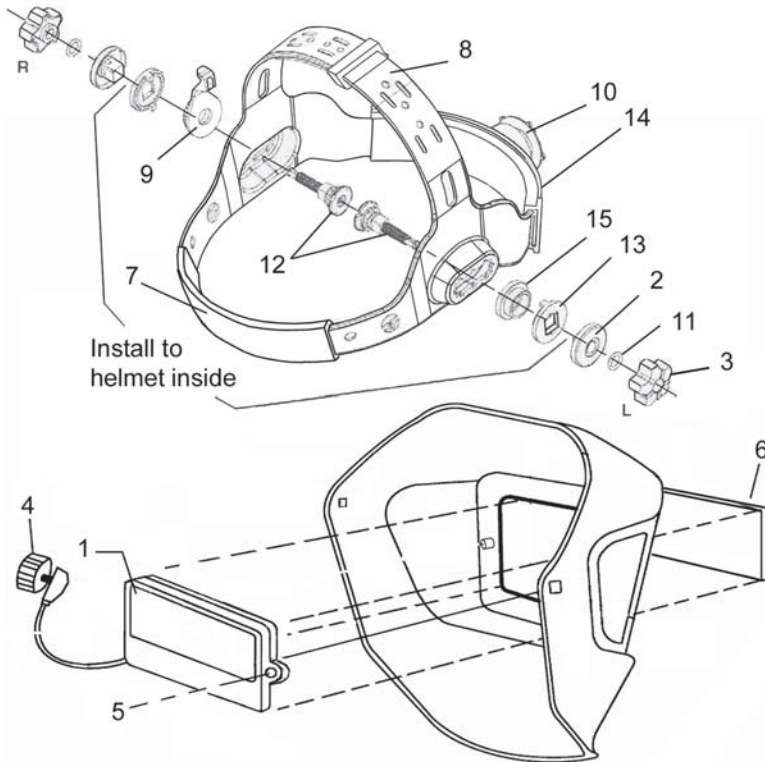
Damaged components must be replaced immediately to avoid risk of eye and face injuries. Periodically inspect the filter cartridge and lenses. Cracked, pitted or scratched lenses reduce vision and seriously reduce level of protection and should be replaced with genuine, certified spare parts. The outer screen can be removed for cleaning or replacement by prising it away at its lower edge with the thumb. When replacing, take care it lays evenly on the lips provided.

CLEANING & STORAGE

The cartridge (5) can be wiped with a household glass cleaner when dirty. Apply the cleaner with a clean cloth or paper towel. **DO NOT USE ALCOHOL TO CLEAN. DO NOT APPLY CLEANER DIRECTLY TO THE CARTRIDGE.** The headshield should be stored in its box or similar place.

Clean all lenses with a soft tissue and suitable lens cleaning fluid. Do not use solvents. Never use tools or other sharp objects to remove material from the filter or helmet. This may cause damage which may cause incorrect function and invalidate the warranty.

COMPONENT PARTS



No	Description
1	Cartridge
2	Spacer
3	Thumbscrew for Headband
4	Shade Selector Knob
5	Fixing Screw
6	Outer Screen
7	Sweat Band
8	Headband

No	Description
9	Adjustment Tab
10	Headband Adjustment Knob
11	Rubber O-Ring
12	Spindle
13	Block Washer
14	Headband Tensioner
15	Spacer
- - -	AAA 1.5volt Battery

DECLARATION OF CONFORMITY



Clarke[®]
INTERNATIONAL

Hemnal 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):

89/686/EEC *Personal Protective Equipment Directive*

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

EN 379:2009; EN 175:1997:1997.

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: 2010

Product Description:	Arc activated welding head shields
Model number(s):	CWH6, CWH7, CWH8
Serial / batch Number:	N/A
Date of Issue:	07/01/2011

Signed:



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J.A. Clarke
Director

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WATER PUMPS

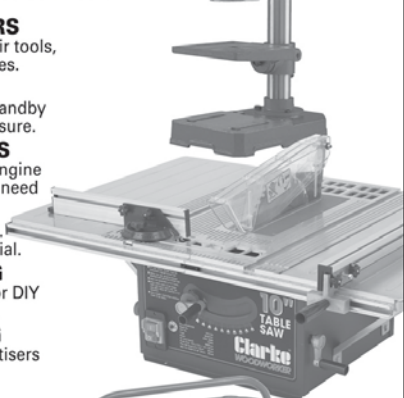
Submersible, electric and engine driven for DIY, agriculture and industry.

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PARTS & SERVICE: 020 8988 7400

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