



INSTRUCTIONS FOR: AUTOMATIC/MANUAL WELDING HELMET

Model: SWH099

Thank you for purchasing a Sealey Safety Product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.



IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

Ensure all workshop safety rules, regulations, and conditions are complied with when using welding equipment. The helmet will not offer protection against mis-use of workshop tools, equipment or accessories. Maintain the helmet in good condition and protect cartridge from liquid and dirt contact. Regularly replace the protective front and rear lenses and replace any damaged or worn parts. *Use genuine parts only. Non-authorized parts may be dangerous and will invalidate the warranty.* NEVER open or tamper with the automatic cartridge.

WARNING! This helmet is not suitable for use when laser or gas welding. Ensure the front lens, filter(s) and rear lens are securely in place before use. Fit the helmet and adjust the head band so the helmet will sit as low and near to your face as possible. Use helmet only in temperatures ranging from -10° C (+14°F) to + 70°C (+158°F). The eye protection plate in the helmet is **NOT** unbreakable. Helmet will not protect against severe impact hazards such as, **(but not limited to)**, fragmenting abrasive discs/grinding wheels, stones and other grinding tools, explosive devices or corrosive fluids. The helmet will only protect the eyes and face from radiation and sparks. Remove ill fitting clothing, remove ties, watches, rings, and other loose jewellery. Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes. Keep children and unauthorised persons away from the working area.

WARNING! DO NOT use the helmet if damaged or thought to be faulty. (Contact Service Agent). **DO NOT** use helmet unless you have been instructed in its use by a qualified person. **DO NOT** get the helmet wet or use in damp or wet locations. **DO NOT** leave work area with helmet in lowered position, as bright light source may darken cartridge unexpectedly. **DO NOT** place the helmet on a hot surface. Clean helmet (see Section 6) and store in a safe, dry, childproof location.

IMPORTANT: Helmet comes fitted with standard shade 10 lens - for use in automatic mode electronic cartridge must be installed (see Section 4).

▲ DANGER! If, at any time, the automatic cartridge FAILS to darken when exposed to a welding arc, DO NOT USE. Remove cartridge and return to your dealer for checking. Continued use of the product with auto-darkening feature NOT FUNCTIONING may DAMAGE YOUR EYES and CAUSE BLINDNESS. Use of

2. INTRODUCTION & SPECIFICATION

2.1. Introduction
The SWH099 Automatic Welding Helmet is supplied with a standard filter and an automatic cartridge. With the electronic cartridge installed solar cells will automatically darken the eye shade when the arc is struck.

2.2. Specification
Light transmittance, standard filterShade 10.
Light transmittance, automatic cartridgeLight state - shade 3. Dark state - shade 10
plus optional shade 1 filterLight state - shade 4. Dark state - shade 11
Operating temperature-10° C (+14°F) and + 70°C (+158°F).
Helmet materialHigh-impact plastic, stability of shape up to 220°C/428°F
UV/IR protection (all cartridge states)Maximum
Auto. response (light to dark @ room temp)0.8ms
Auto. response (light to dark @ +55°C/131°F)0.3ms
Auto. response (dark to light)0.2 to 0.3 s
Viewing area92 x 35mm (3.62 x 1.38")
Cartridge size51 x 108 x 5.3mm (2 x 4.25 x 0.21")
Weight0.3kg
Energy sourceSolar cells

CE Declaration of Conformity We, the sole importer into the UK, declare that the product listed here is in conformity with the following standards and directives. The construction file for this product is held by the Manufacturer and may be inspected on request by contacting Jack Sealey Ltd.

Automatic/Manual Welding Helmet
Model SWH099

BS EN175
BS EN379

Signed by Mark Sweetman  21st January 2000

For Jack Sealey Ltd. Sole importer into the UK of Sealey Power Welders.


NOTE: It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.

IMPORTANT: No liability is accepted for incorrect use of this equipment. **WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim. **INFORMATION:** For a copy of our latest catalogue call us on 01284 757525 and leave your full name and address, including postcode.



Sole UK Distributor,
Sealey Group, Bury St. Edmunds, Suffolk.

 01284 757500

 01284 703534

E-mail: sales@sealey.co.uk

3. CONTENT & ASSEMBLY

- 3.1. Check the content with the list below. In case of missing or damaged items contact your supplier immediately.
- Helmet with Shade 10 Filter and Front Cover Lens fitted
 - Headband with mountings
 - Automatic Cartridge + Shade 1 Filter and Clear Rear Cover Lens

- 3.2. Attach headband to helmet as shown in fig.6.

Note:

Left hand mount - Use square section pivot bolt and washer with square centre.

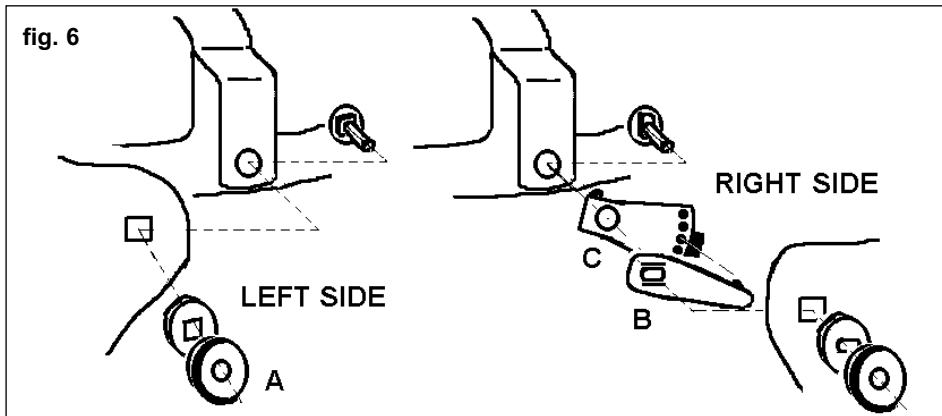
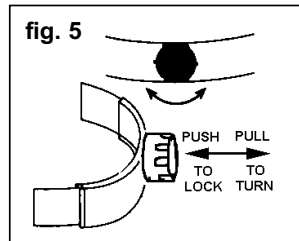
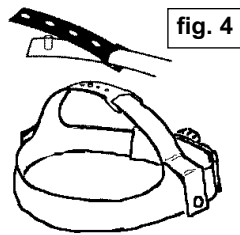
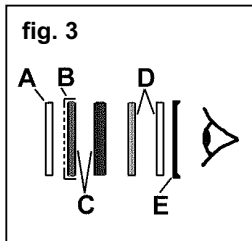
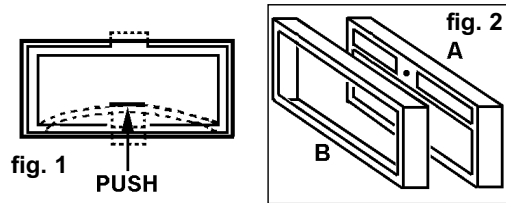
Right hand mount - Ensure when assembling the adjustment back plate (B) the two lugs are engaged against the top and bottom sides of the square hole in the helmet and that the plate is pointing forward and down. Fit adjustment lever (C) over plate (B) locating pin on B into any one of the five locating holes in C. Secure with pivot bolt, washer and nut, as shown.

4. FITTING AUTOMATIC CARTRIDGE

- 4.1. Remove the lens retaining frame by pushing lower lug towards centre of viewing area to disengage the lower side from the helmet (see fig.1).
- 4.2. Remove filter lens and filter carrier. **Leave front cover lens in position** (or refit if removed with other components).
- 4.3. Place automatic cartridge (fig.2.A) in filter carrier (fig.2.B) as shown in fig.2 and place behind front lens so that solar cells face forward and are at the top of the aperture.
- 4.4. If required, place shade1 filter behind cartridge. If shade 1 filter is not used clear rear cover lens **must** be fitted.
- 4.5. Refit retaining frame.

Note: For reference fig.3 shows lens/filter stack.

- A - Front Cover Lens
- B - Filter Carrier
- C - Std. Shade 10 Filter or Auto. Cartridge
- D - Shade1 Filter or Rear Cover Lens (for use with auto. cartridge only)
- E - Retaining Frame



5. INSTRUCTIONS FOR USE

IMPORTANT: For automatic operation the automatic cartridge supplied must be fitted to the helmet.
⚠ WARNING! Before use, ensure that you read, understand and apply Section 1 safety instructions.

- 5.1. Check that the front cover lens, filter (automatic or standard) and rear cover lens (automatic only) are correctly installed and that the retaining frame is securely in place.
- 5.2. Adjust the headband (fig. 4) so the helmet is seated on the head as low as possible. Pull out and then rotate the headband knob at the rear (fig. 5) until the headband and sweat band sit firmly but comfortably in place. Push knob in to lock selected adjustment.
- 5.3. Adjust left hand pivot knob (fig.6.A) so that helmet will stay in any position, but can be easily rotated by hand.
- 5.4. Helmet angle may be altered by lifting adjustment lever (fig.6.C) clear of the pin on adjustment back plate (fig.6.B), rotating it as required and then engaging the nearest of the five holes onto the back plate pin.

6. PROBLEM SOLVING

▲ DANGER! If, at any time, the automatic cartridge FAILS to darken when exposed to a welding arc, DO NOT USE. Remove cartridge and return to your dealer for checking. Continued use of the product with auto. darkening feature NOT FUNCTIONING may DAMAGE YOUR EYES and CAUSE BLINDNESS. Use of malfunctioning product will invalidate the warranty and any right of claim on any insurance policy.

PROBLEM	CAUSE(S)	CORRECTION
SHADE CARTRIDGE DOES NOT DARKEN OR FLICKERS.	The sensors are soiled or obstructed. Front cover lens soiled or damaged. Welding current too low. Solar cells inactive	Clean Clean or replace Adjust welding current Expose to daylight for 10 mins. and retest
POOR VISION	Lenses and/or filters soiled. Insufficient ambient light.	Check, clean or replace Illuminate work place
SLOW RESPONSE	Operating temperature too low	Do not use at temperatures below -10° C (+14°F)
WELDING HELMET SLIPS	Headband not adjusted correctly.	Readjust helmet, refer to Section 5.

7. MAINTENANCE

Replacing front/rear lens/filters/cartridge.

- 7.1. Remove lens retaining frame (see para. 4.1.) and remove lenses and filter/cartridge.
- 7.2. Replace damaged/faulty items and refit (see paras. 4.2. to 4.5.)

Cleaning

- 7.3. Clean the helmet by wiping with a soft clean cloth. Clean the cartridge surfaces regularly but do not use strong cleaning solutions.
- 7.4. Clean the sensors and solar cells with methylated spirit and a clean cloth and wipe dry with a lint-free cloth.

8. PARTS LIST

SSP101	Headshield assembly, including outer cover lens, shade 10 filter, filter carrier, lens retainer and head band plus fittings.
SWH099/LENS	Automatic cartridge plus shade 1 filter and rear cover lens.
MIG/EW200R	Cover lens, front
MIG/EW210R	Shade 10 filter
MIG/EW201R	Shade 1 filter (for use with automatic cartridge)
SWH099/ICL	Cover lens, rear (for use with automatic cartridge)
SWH099	SSP101 + SWH099/LENS