

INSTRUCTIONS FOR:

Welding Helmet Auto Darkening Shade 11

MODEL NO: **S01000**

Thank you for purchasing a Siegen Power 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 OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. PLEASE KEEP INSTRUCTIONS SAFE FOR FUTURE USE.

1. SAFETY INSTRUCTIONS

- □ WARNING! THIS HELMET IS NOT SUITABLE FOR USE WITH LASER WELDING OR CUTTING OR FOR OVERHEAD WELDING APPLICATIONS.
- ✓ Ensure all workshop safety rules, regulations and conditions are complied with when using welding equipment. The helmet will not offer protection against misuse of workshop tools, equipment, or accessories.
- Maintain the helmet in good condition and protect cartridge from liquid and dirt contact. Regularly replace the protective lens and replace any damaged or worn parts. Use genuine parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ Ensure the front cover window is 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 to 60°C.
- ✓ Remove ill fitting clothing, remove ties, watches, rings and other loose jewellery.
- ✓ Maintain correct balance and footing.
- ✓ Ensure the floor is clear from obstructions, not slippery and wear non-slip shoes.
- ✓ Keep children and unauthorised persons away from the working area.
- WARNING! The helmet will only protect the eyes and face from radiation and sparks. It will not protect against explosive devices or corrosive liquids.
- X DO NOT use helmet for any purpose for which it is not designed.
- **X DO NOT** use helmet unless you have been instructed in its use by a qualified person.
- X DO NOT open or tamper with the shade cartridge.
- X DO NOT get the helmet wet or use in damp or wet locations.
- X DO NOT leave work place with helmet in lowered position, as bright light source may darken cartridge unexpectedly.
- x DO NOT place the helmet on a hot surface.
- X DO NOT use helmet without front cover window fitted. To do so will invalidate your warranty.
- ✓ Clean helmet (see section 5.5) and store the helmet in a safe, dry, childproof location.
- WARNING! The materials of the helmet may, when coming into contact with the wearers skin, cause an allergic reaction to susceptible individuals.
- □ WARNING! Before welding always inspect the cartridge filter to ensure that it is not damaged. To test the filter prior to welding, direct the front of the cartridge filter to a bright light source which will cause the lens to darken. Then using your hand rapidly cover and uncover the sensor. The filter should lighten momentarily then return to a dark state.
- □ WARNING! DO NOT use the helmet if damaged or you suspect it may be faulty. (Contact Sealey dealer).
- DANGER! DO NOT USE if, at any time, the face plate in the cartridge FAILS to darken when exposed to a welding spark. Remove cartridge and return to your Sealey dealer for checking.
 Continued use of the product knowing that the auto darkening feature is NOT FUNCTIONING may DAMAGE YOUR EYES and CAUSE BLINDNESS.

2. INTRODUCTION

Shade 11 welding helmet. Complies to BS EN 379, BS EN 175 and DIN standards. Features automatic switching from light to dark on striking arc. Fitted with adjustable sensitivity and delay controls for switching light to dark. Fitted with solar panel power supply - no batteries required. Deluxe contiured helmet with fully adjustable headband featuring front pad for added comfort. Suitable for MIG, TIG and arc welding.



3. SPECIFICATION

Model No:	S01000
Shade Active:	11
Shade Inactive:	3
Grinding Function	.No
Viewing Area:	92 x 41mm
Operating time Light/Dark:	0.3ms
Operating Temperature	-10°C to +60°C
Power:	Solar Cells
Weight	.495g

fig.1

4. INSTRUCTIONS FOR USE

- WARNING! Before using the helmet for welding ensure you have read and understood the safety instructions in Section 1.
- 4.1 Assemble the headband parts (see fig.1) into the mask as indicated in fig.2. Before the mask can be used the headband must be adjusted to fit the user properly.

4.2 ADJUSTING THE FIT OF THE HELMET.

The overall circumference of the headband can be made larger or smaller by pushing in and rotating the knob on the back of the headband (See adjustment 'A' in fig.2). This can be done whilst wearing the helmet and allows just the right tension to be set to keep the helmet firmly on the head without it being too tight.

- 4.3 If the headband is riding too high or too low on your head adjust the strap which passes over the top of your head. To do this release the end of the band by pushing the locking pip out of the hole in the band. Slide the two portions of the band to a greater or lesser width as required and push the locking pip through the nearest hole (See adjustment 'B' in fig.2).
- 4.4 Test the fit of the headband by lifting up and closing down the helmet a few times whilst wearing it. If the headband moves whilst tilting re-adjust it until it is stable.

4.5 ADJUSTING HELMET TILT.

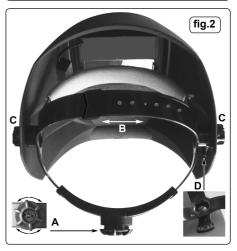
If the cartridge window is not aligned with the eyes when the helmet is in the lowered position adjust the tilt of the helmet in relation to the headband. Referring to fig.2 loosen the knob 'C' adjacent to the tilt plate 'D'. Lift the tilt plate off the fixed peg within the helmet and rotate it to the required position and allow one of the holes in the plate to drop back over the pea. Retighten the clamp knob 'C'.

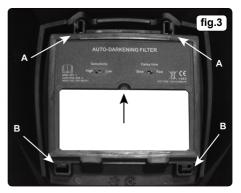
4.6 SELECTING DELAY TIME/RESPONSE TIME

4.6.1 The delay time in which it takes the lens to change from dark to light or vice versa can be set to 'slow' or 'fast.' The swtich is on the inside of the cartridge, (see fig.3.)

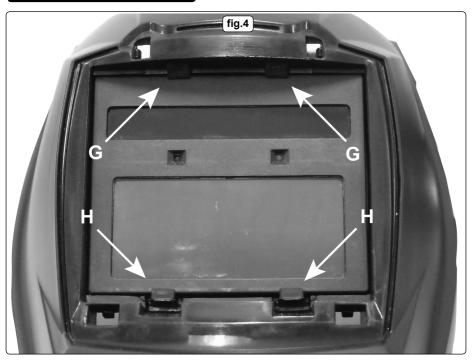
4.7 SENSITIVITY

- 4.7.1 For normal ambient light conditions set the sensitivity knob to the high setting (fig.3).
- 4.7.2 For conditions where there is an excess of light, which may affect the performance of the lens, move the switch to the low setting.





5. MAINTENANCE



5.1 CHANGING THE SHADE CARTRIDGE.

All components clip into the front of the helmet as shown in fig.4 above, (shown without front cover.)

- 5.1.1 To access the cartridge firstly remove the front cover by releasing the four clips accessible on the inside of the helmet above and below the cartridge.
- 5.1.2 Release the top clips first (see 'A' in fig.3) by pressing them inwards and forwards. Then release the bottom clips (see 'B' in fig.3) by pressing them downwards and forwards. Lift off the front cover.
- 5.1.3 Referring to fig.4, push downwards on the two clips 'H' whilst pushing the bottom edge of the cartridge outwards from inside the helmet. When it is free from the lower clips pull the cartridge downwards and forwards to free it from the upper retainers. (See 'G' in fig.4.)

5.2 FITTING NEW CARTRIDGE.

(Part No: S01000.03)

- 5.2.1 Take the new shade cartridge and hook the top edge under the upper retainers 'G'. Push firmly on the bottom edge of the cartridge so that it snaps into place behind the two clips 'H'.
- 5.2.2 Place the front cover 'A' onto the front of the helmet so that the cover clips pass into the matching holes in the helmet. Press firmly on the top of the cover to engage the top clips then press firmly at the base of the cover to engage the lower clips.

5.3 REPLACING OUTER PROTECTIVE COVER LENS.

(Part No:S01000.01)

Remove the front cover as described in sections 5.1.1 and 5.1.2.

5.3.1 Remove the lens from the back of the front cover

- by lifting one vertical edge and sliding the whole lens sideways until it releases from its retaining points. The lens will flex sufficiently to allow you to do this.
- 5.3.2 Flex the new lens and slide it in from one side under the retaining points until it is in position. Ensure that it laps over the inside of the lens opening on either side.

5.4 REPLACING CARTRIDGE PROTECTIVE LENS. (Part No: \$01000.02)

The protective cartridge lens that can be seen on the inside of the helmet should be replaced if damaged. The lens is held in place at its four corners.

- 5.4.1 To remove the lens place your finger tip into the scoop just below the cartridge controls (see fig.3) and flex the lens upwards until the upper corners release. Lift out the lens.
- 5.4.2 Take the new lens and place one vertical edge under the corner retainers in the lens recess. Flex the lens in the middle and tuck the other end into the corner retainers.

5.5 CLEANING.

Clean helmet by wiping with a soft cloth. Clean cartridge surfaces regularly. Do not use solvent based cleaners. Clean sensors and solar cells with methylated spirit using a clean cloth and wipe dry with a lint-free cloth.

6. PROBLEM SOLVING

Problem	Cause	Solution			
Irregular darkening or dimming.	The headband may have been unevenly set on the two sides of the helmet (unequal distances from the eyes to the shade cartridge).	Readjust the distance of the shade cartridge.			
Shade cartridge does	The sensors are soiled or obstructed.	Clean.			
not darken or flickers.	Front cover lens oiled or damaged.	Clean or replace.			
	Welding current too low.	Adjust weld amps.			
Poor vision.	Operative lenses and/or shade cartridge soiled.	Check, clean or replace.			
	Insufficient background lighting.	Adjust light.			
Slow response.	Operating temperature too low.	Do not use at temperatures below -10°C (14°F).			
Welding helmet slips.	Headband adjustments incorrect.	Refer to section 4.			

7. SHADE GUIDE & MARKINGS

	CURRENT (AMPERES)																	
WELDING	0.5	2.	5 1	0	20 4			60	125	125 1		5 22	225 27		75 350		450	
PROCESS		1.0	5.0)	15	30	5	0	100	1	50	200	250	3	300	400)	500
Covered Electrode	Shade 9 S10 Shade 11 Shade 12 Shade 13									ade 13	S14							
MIG Plate Welding	Shade 10 Shade 11 Shade 12 Shade 13 S1										S14							
MIG Sheet Welding	Shade 10 S								Sh	ade	e 11	Shade 12			S13		S14	S15
TIG	Shade 9 S10 Shade 11 S12 Shade 13 Shade 14																	
MAG	Shade 10 S11 S12 Shade 13 S14 S15									S15								
Arc Gouging	Shade 10 S11 S12 S13 S14 S15									S15								
Plasma Cutting	Shade 11 Shade 12 Shade 13																	
Plasma Welding	4	5	6	7	8	9	10	11	S12 Shade 13 Shade 14 S				S15					

Meaning of the markings on the filter:											
4 9 13 SEALEY 1 3 1 379											
Light state scale no.	Lightest dark state scale no.	Darkest state scale no.	Manufacturers identification.	Optical class.	Diffusion of light class.	Variation in luminence transmittance class.	Number of the applied standard.				





Environmental Protection

Recycle unwanted materials instead of disposing of them as waste. All tools, accessories and packaging should be sorted, taken to a recycling centre and disposed of in a manner which is compatable with the environment. When the product is no longer required, it must be disposed of in an environmentally protective way. Contact your local solid waste

authority for recycling information. 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.

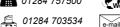
INFORMATION: Call us for a copy of our latest catalogue on 01284 757525 and leave your full name and address including your postcode.



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