SEALEY POWER PRODUCTS

INSTRUCTIONS FOR:

ELECTRONIC WELDING HEADSHIELD

Model No: **MIG/LITE**

Thank you for purchasing a Sealey 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. RETAIN THESE INSTRUCTIONS FOR FUTURE USE**

The MIG/LITE autodarkening welding helmet offers personal eye and face protection during welding. The helmet is fully adjustable to fit over your head. The helmet automatically darkens in less than 0.1 milliseconds when arc is struck, allowing you to see more easily during positioning. The shade varies from 9 to 12 which suits most gas and mig welders. Variable sensitivity allows for use outdoors. A variable delay on return to clear allows for use when spot welding. The unit is powered by two AA 1.5 Volt batteries.

1. SAFETY INSTRUCTIONS

- Maintain the helmet in good condition (use an authorised service agent).
- Replace or repair damaged parts. *Use recommended parts only. Non authorised parts may be dangerous and will invalidate the warranty.*
- The helmet has two independent photo sensors which must be free of dust and debris.
- Always use the helmet with an anti-spatter cover len installed to protect it from weld splatter
- For optimum results, use your MIG/LITE helmet between the temperatures of -5º C (+23ºF) and + 55ºC (+131ºF).
- Use helmet and filter for eye/face protection against harmful ultraviolet and infrared radiation sparks and splatter from welding and cutting.
- The protective plate in this helmet is ***NOT*** unbreakable. The helmet will not protect you against severe impact hazards ***(such as, but not limited to)*** fragmenting abrasive discs and grinding wheels, stones and other grinding tools, explosive devices or corrosive fluids. Appropriate eye protection must be used where these hazards exist.
- 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.
- 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.
- Maintain helmet batteries in good condition. Low power indicator operates when 8 hours or less of life is left.
- 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.
- When not in use switch the light sensor off, and store the helmet in a safe, dry, childproof area.

2. SPECIFICATIONS & TECHNICAL DATA

The Helmet.

Manufactured by plastic injection incorporating materials of 10% glass thermoplastic compound (Norylgeneral Electric Plastic).

The Headgear.

The headgear is made of thermoplastic compounds incorporating: Polyamide, Polyethylene, and Polypropylene. The helmet has a removable hygienic foam brow pad. All materials being hypoallergenic.

The Autodarkening Welding Filter:

Filter size .....1 1/2" x 3 3/4"
Switching time .....<0.1ms (0.1 millisecond = 0.0001 second) at -5ºC
<0.1ms (0.1 millisecond = 0.0001 second) at +23ºC
<0.1ms (0.1 millisecond = 0.0001 second) at +55ºC
Density 1.16
Electrical insulation .....0.07 mA
Heat Resistance.....240ºC

Provides permanent full protection against UV and IR radiation in ON and OFF modes.
Protection level against visible radiation: OFF State.....Transmission factor 7. ON State.....Transmission factor 4 without arc (light mode).
Transmission factor continuously adjustable from 9 to 12 when the arc is on (dark mode).
Arc detection by 2 independent light sensors.
Delay between dark mode and light mode continuously adjustable from 0.1 second to 1 second.
Sensitivity to arc light continuously adjustable.
If helmet is left on it will automatically switch off after 28 minutes.
Battery life of approximately 700 hours in ON mode. Red light warning indicator starting approximately 8 hours before batteries fail.
Powered by 2 x AA size 1.5 Volt alkaline batteries.

The Anti-Splatter Cover Lenses.

Made with a methyl-methacrylat compound.
Perfect optical quality.....(DIN EN 166 No. 47198 PTB 92).
Total weight complete with headgear and batteries .....548 grams.

3. CHARACTERISTICS

The helmet has a shade selector knob for proper shade selection. Refer to the following chart for shade recommended for your application.

ELECTRIC ARC WELDING OR GOUGING

Welding Processes		Current Intensity in Ampreres														
		10	15	20	30	40	60	80	100	125	150	175	200	225	250	275	300
	Coated Electrodes		8		9		10		11				12				
	M.I.G. On Heavy Metals								10		11		12				
	T.I.G. On Light Alloy										11		12				
	T.I.G. On Metals	8		9		10		11		12							
	M.A.G.						9		10		11		12				
	Gouging By ARC/AIR										10		11		12		

4. OPERATING INSTRUCTIONS

4.1. Setting Sensitivity Selector.

Helmet sensitivity can be adjusted to ambient light conditions. This is necessary for low amperage tasks such as TIG on stainless steel.

4.1.1. Switch unit on by pressing the ON button.

4.1.2. Turn the helmet straight in front of the work place adjust the sensitivity selector to the MIN position and then progressively to the MAX position until the filter switches from light to dark state.

4.1.3. Turn the sensitivity selector progressively to the MIN position until the filter switches back to the light state. Now welding can commence. If however, the filter remains dark after the weld is completed, turn again slowly until the filter returns to the light state. The unit is now set for optimum use for the specific welding application.

4.2. Setting Delay Selector.

Adjustment can be made to the time it takes for the unit to switch back to the light state after welding has been completed. Turn the selector to the required setting (MIN 0.1 second to MAX 1.0 second).

4.3. Setting Shade Selector.

To adjust the shade level turn the selector to the scale number (9-12) corresponding to the type of welding process.

4.4. Setting and Adorning the Helmet.

4.4.1. Press the ON switch (4.1.1).

4.4.2. Set the shade selector to the required setting (4.3).

4.4.3. Adjust the sensitivity selector (4.1).

4.4.4. If required set the delay selector (4.2).

4.4.5. Place helmet on your head and adjust the headband accordingly to ensure a firm but comfortable fit.

4.4.6. During welding the lens will automatically darken to pre-set shade. On removal of the arc then lens will return to the light state.

4.4.7. When work is complete, switch helmet off by pressing OFF switch (if helmet is left on it will automatically switch off after 28 minutes).

4.5. Battery Low Warning.

The welding filter has a red low warning indicator LOW BATT. When the red light warning indicator starts blinking there are approximately 8 hours of operational use left before the unit fails. Replace the batteries as soon as possible.

5. MAINTENANCE

5.1. Battery Replacement.

5.1.1. Open the battery compartment by gently pushing back the shutter latch.

5.1.2. Install the batteries according to the diagram located inside the battery compartment.

5.1.3. Close the shutter by pushing it down gently.

5.2. General.

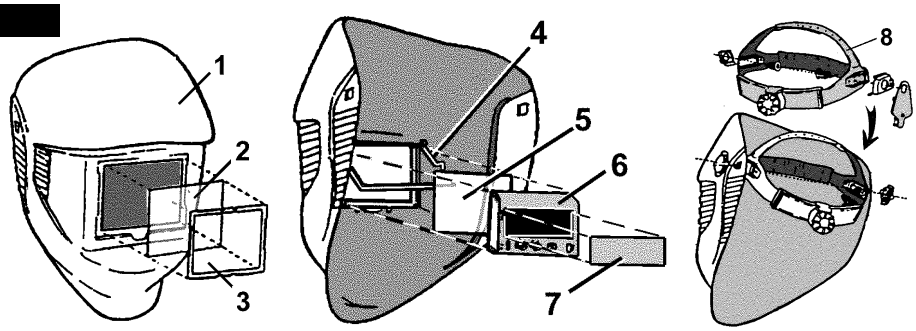
5.2.1. Periodically inspect the filter unit and cover/backing lenses. Cracked, pitted or scratched lenses reduce vision and serious reduce level of protection. Damaged components must be replaced immediately to avoid risk of injury to eyes and face.

5.2.2. Clean all lenses with a soft tissue and a suitable lens cleaning fluid. DO NOT use any solvents or abrasives.

5.2.3. DO NOT use any tool or sharp objects to remove components form the filter or helmet. To do so may damage the module resulting in malfunction and possible personal injury, and will also invalidate your warranty.

6. PARTS LIST

1. Helmet
2. Outside cover lens
3. Frame
4. Retaining Spring
5. 3.5” x 4.3” Cover lens
6. Autodarkening welding filter
7. Inside cover lens
8. Headband



Declaration of Conformity We, the sole importer into the UK, declare that the product listed below is in conformity with the following EEC 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

Signed by John Sealey Date 1st June 1998

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

Mode Shades for Electronic Welding Headshield. Model: MIG/LITE

BS679: 1989 EN169

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 responsibility is accepted for incorrect use of this product. **WARRANTY:** Guarantee is 12 months from purchase date. Proof of purchase will be required for any claim. **INFORMATION:** Please call us for a copy of our latest catalogue.

MIG/LITE - 213 -170398

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