SOLDATECH

CE

TYPE
EWH2

Read this manual thoroughly before using the auto-darkening welding helmet.

Manual 082024V1

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Storing the User Manual

- Keep the user manual near the auto-darkening welding helmet in an accessible location.
- Store the user manual in a place where it will not become damp.
- Use the user manual in a normal manner without causing damage to it.
- The use of the auto-darkening welding helmet by individuals unfamiliar with the instructions and procedures described in this manual is strictly prohibited.

This user manual is part of the auto-darkening welding helmet and should therefore be kept carefully with the helmet. If the auto-darkening welding helmet is transferred to another person, the user manual must be provided with it.

NLD 1. Symbolen label

ENG 1. Symbols label

NLD Lees voor gebruik de gebruikershandleiding.

ENG Read the user manual before use.

NLD Draag altijd een veiligheidsbril bij het gebruik van de lashelm.

ENG Always wear safety glasses when using the welding helmet.

NLD Draag veiligheidshandschoenen.

ENG Wear safety gloves.

NLD Zorg ervoor dat er voldoende ventilatie is tijdens het lassen.

ENG Ensure there is adequate ventilation during welding.

NLD Vervang versleten of beschadigde onderdelen onmiddellijk.

ENG Replace worn or damaged parts immediately.

NLD Vervang de laslens onmiddellijk als deze beschadigd is.

ENG Replace the welding filter immediately if it is damaged.

NLD Zorg dat de tintinstelling voldoende oogbescherming biedt voor het type werk dat u gaat uitvoeren.

ENG Ensure that the shade level provides adequate eye protection for the type of work you are going to perform.

NLD De lashelm is niet geschikt voor laserlassen.

ENG The welding helmet is not suitable for laser welding.

2. General

Each Soldatech automatic welding helmet is manufactured in accordance with the European Directive EU-2016/425. Each automatic welding helmet is supplied with a manual and a declaration of conformity, which should be carefully preserved and maintained.

As equipment improvements are continually made, the holder of the “Soldatech” brand reserves the right to alter the specifications of the equipment described in the manual.

3. Safety Instructions

1. This auto-darkening welding helmet is not suitable for laser welding or oxy-fuel welding and cutting processes.
2. Never place the helmet or the auto-darkening filter on a hot surface.
3. Do not open or modify the auto-darkening filter.
4. This welding helmet does not provide protection against impact and crush hazards.
5. The helmet does not protect against explosive substances or corrosive liquids.
6. Do not make modifications to the helmet or filter unless otherwise indicated in this manual.
7. Use only the replacement parts specified in this manual.
8. Unauthorized modifications and replacement parts will void the warranty and may cause personal injury.
9. Immediately stop welding if the helmet does not darken when an arc is struck and contact your supervisor or dealer.
10. Do not immerse the filter in water.
11. Do not use solvents on the filter lens or other helmet components.
12. Use the helmet only at temperatures between -10°C and +55°C.
13. Storage temperature: -20°C to +70°C.
14. Store the helmet in a dry, cool, and dark place.
15. Protect the filter from contact with liquids and dirt.
16. Clean the filter surface regularly with a clean, lint-free cloth; do not use strong cleaning agents.
17. Keep the sensors and solar cells clean.
18. Regularly replace the front lens if it is cracked, scratched, or damaged.
19. Materials that come into contact with the skin may cause allergic reactions under certain conditions.

4. Use

ADJUSTING THE FIT OF THE HELMET

- Adjusting the Headband Circumference: Turn the knob ('Y' FIG. 1) at the back of the headband to increase or decrease the circumference. This adjustment can be made while wearing the helmet to achieve the proper tension.
- Adjusting the Headband Height: Adjust the strap that goes over your head ('W' FIG. 1) by pressing the locking pin out of the hole, sliding the strap, and then pressing the locking pin into the nearest hole.
- Adjusting the Distance Between the Helmet and Your Face: Loosen the block nuts ('T' FIG. 1) on both sides to adjust the distance between the helmet and your face. Ensure that your eyes are equidistant from the lens to guarantee even shading. Tighten the block nuts again once the adjustment is complete.
- Adjusting the Viewing Angle Position: See FIG. 2 for instructions.

SELECTING OPERATING MODE

- Use the switch at the back of the shading cartridge to select the mode that suits your work:
- Welding Mode: Suitable for most welding applications. The shading function is activated upon detection of an arc. Adjust the shade level, delay time, and sensitivity (see FIG. 4a and FIG. 4b).
- Grinding Mode: Suitable for metal grinding applications. The shading function is turned off. The lens provides a fixed DIN 3.5 level for clear visibility during grinding and facial protection (see FIG. 3).
- Shade Level: Select the desired shading level based on the welding process by consulting the "Shading Table." Turn the shade adjustment knob on the side of the helmet to the desired level.

ADJUSTING SENSITIVITY

Set the sensitivity to "high" or "low" using the stepless rotary knob at the back of the shading cartridge. The "Mid-High" setting is typically suitable for daily use. For low welding currents, TIG welding, or special applications, use the maximum sensitivity level. If the helmet is affected by ambient light or nearby welding equipment, set the sensitivity to "low" (see FIG. 4a). Start with a high sensitivity setting and reduce it until the helmet responds only to the welding arc flash without unwanted activations.

ADJUSTING DELAY TIME

After stopping welding, the viewing window changes from dark to light with a preset delay. You can set the delay time to "fast" (0.1 sec.) or "slow" (1.0 sec.) using the rotary knob at the back of the shading cartridge (see FIG. 4b). A shorter delay is suitable for spot welding, while a longer delay is appropriate for high-current applications and TIG welding with lower current or TIG/MIG/MAG pulse. You are now ready to use the helmet. The shading can be adjusted during use via the potentiometer control.

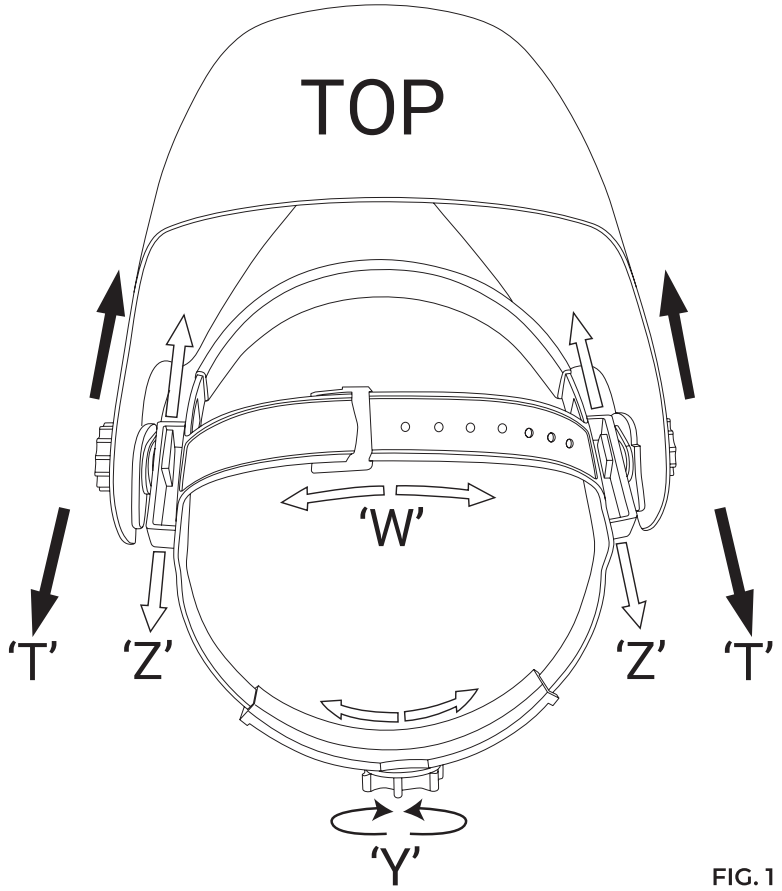
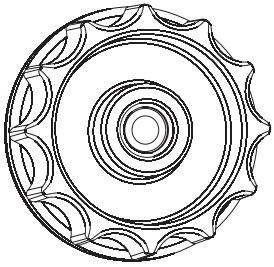


FIG. 1



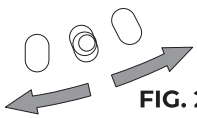


FIG. 2

FIG. 3

FIG. 4a

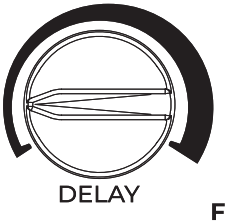


FIG. 4b

SHADE GUIDE TABLE

ARC CURRENT (AMPERES)	WELDING TECHNIQUE							
	PAW	PAC	SAW	MAG/ CO2	TIG/ GTAW	MIG (light)	MIG (heavy)	SMAW
0.5 — 1 — 2.5 — 5 — 10 — 15 — 20 — 30 — 40 — 60 — 80 — 100 — 125 — 150 — 175 — 200 — 225 — 250 — 275 — 300 — 350 — 400 — 450 — 500								
5 — 10	8				9			
15 — 20	9							
20 — 30	10				10			9
30 — 40	11							
40 — 60	12			10	11			10
60 — 80		11				10	10	
80 — 100				11				11
100 — 125	13				12	11	11	
125 — 150			10	12				
150 — 175		12						
175 — 200			11	13	13	12	12	12
200 — 225								
225 — 250			12			13		
250 — 275	14							
275 — 300			13	14	14		13	13
300 — 350		13				14		
350 — 400			14					
400 — 450								
450 — 500	15		15	15		15	14	14

Betekenis afkortingen:
SMAW: Shielded Metal Arc Welding
TIG, GTAW: Tungsten Inert Gas
MIG (heavy): MIG on heavy metals
MIG (light): MIG on light alloys
PAW: Plasma Arc Welding
PAC: Plasma Arc Cutting
SAW: Submerged Arc Welding
MAG/CO2: Metal Active Gas

5. Maintenance

REPLACING THE FRONT LENS
Replace the front lens if it is damaged (cracked, scratched, dirty, or pitted). Place your finger or thumb in the notch at the bottom of the lens and bend the lens upward until it detaches from one edge. (See FIG. 5)

REPLACING THE INNER LENS
If it is damaged (cracked, scratched, dirty, or pitted).

REPLACING THE SOLAR PATTERN
(See Figures 5a and 5b)

INSTALLING A NEW CARTRIDGE
Take the new shading cartridge and thread the potentiometer cable under the wire loop before dropping the cartridge into the mounting frame inside the helmet. Press the wire loop clip down, ensuring that the front of the loop stays properly under the mounting lugs, as shown in FIG. 5b. Attach the potentiometer to the inside of the helmet, with the shaft passing through the hole. Push the shading control knob onto the shaft.

CLEANING
Clean the helmet by wiping it with a soft cloth. Regularly clean the cartridge surfaces. Do not use strong cleaning agents. Clean the sensors and solar cells with alcohol and a clean cloth, then dry them with a lint-free cloth.

fig.5

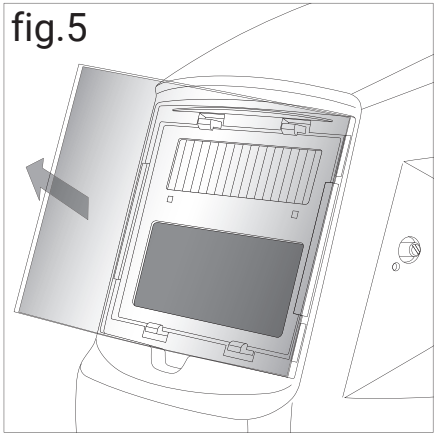


fig.5a

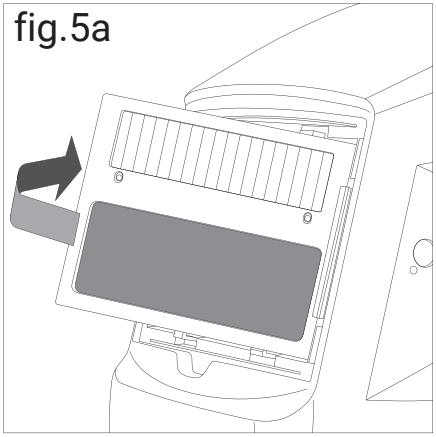
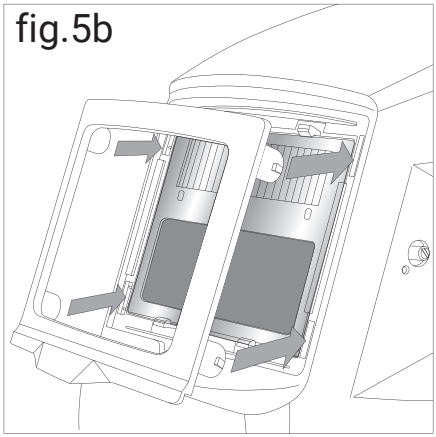


fig.5b



COMMON PROBLEMS AND SOLUTIONS

Uneven Shading or Dimming:

- The headband may be unevenly adjusted, resulting in an unequal distance between the eyes and the filter lens.
- Readjust the headband to minimize the difference.

Auto-Darkening Filter Does Not Darken or Flickers:

- The Front Lens Cover is Dirty or Damaged: Replace the lens cover.
- The Sensors are Dirty: Clean the sensor surfaces.
- The Welding Current is Too Low: Increase the sensitivity setting.

Slow Response:

- The Operating Temperature is Too Low: Do not use the helmet at temperatures below -10°C.

Bad visibility

- The Front/Inner Lens Cover and/or Filter is Dirty: Replace the lens.
- Insufficient Ambient Light: Ensure adequate ambient light for proper operation.
- The Shade Number is Incorrectly Set: Adjust the shade number to the correct setting.
- Check if the Protective Film on the Front Cover is Removed: Ensure that any protective film on the front cover has been removed.

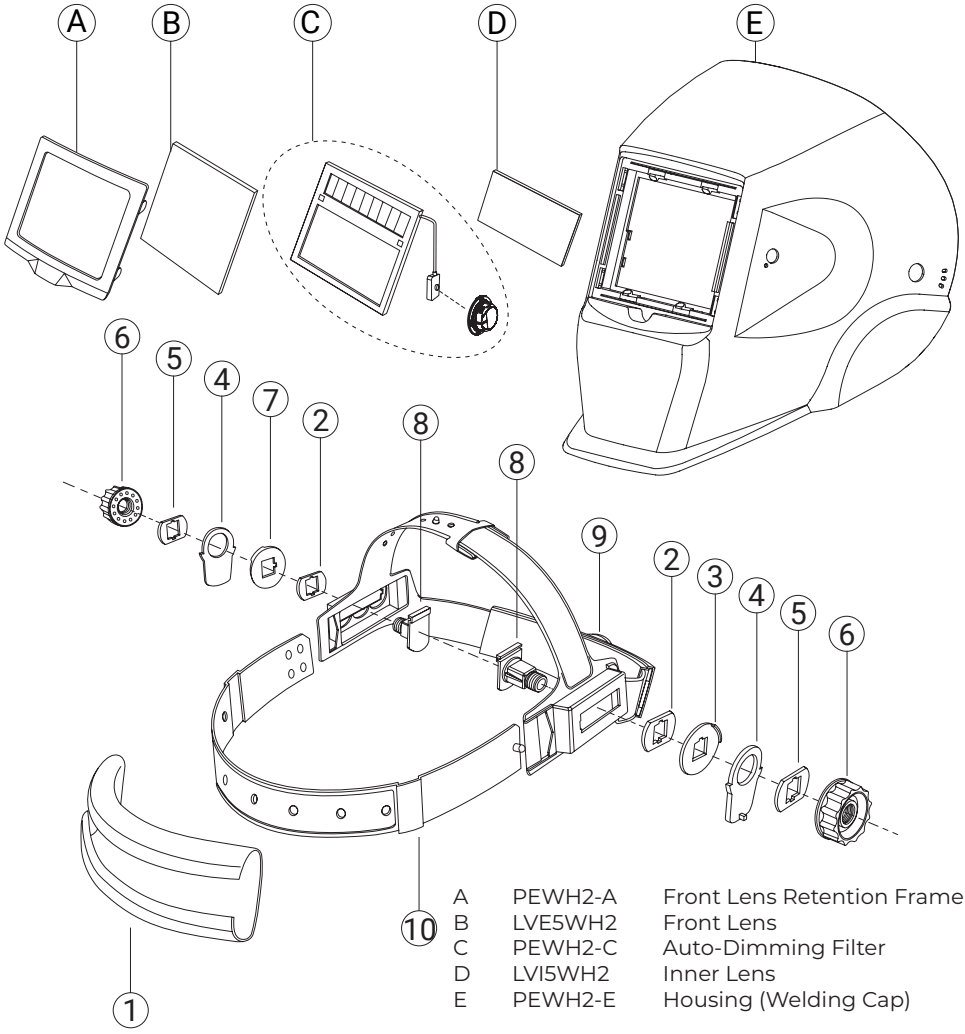
Welding Helmet Slips:

- The Headband is Not Properly Adjusted: Readjust the headband to ensure a secure and comfortable fit.

6. Specifications

Optical Class:	1 / 1 / 1 / 2
Field of View:	96 x 40 mm (3.78” x 1.57”)
Cartridge Size:	110 x 90 x 9 mm (4.33 x 3.54 x 0.35 inch)
Arc Sensor:	2
Light State:	DIN 3.5
Dark State:	Variable Shade 9 ~ 13
Shade Adjustment:	External, variable shade
Power On/Off:	Fully automatic
Sensitivity Adjustment:	Low — High, with a stepless rotary knob
UV/IR Protection:	Always up to shade DIN16
Power Supply:	Solar cell. No battery replacement needed
Switching Time:	1/16000 s from light to dark
Delay (Dark to Light):	0.1 ~ 1.0 s with an infinite rotary knob
Low Current TIG:	≥ 10 ampere (DC); ≥ 10 ampere (AC)
Grinding:	Yes
Operating Temperature:	-10°C ~ +55°C (14°F ~ 131°F)
Storage Temperature:	-20°C ~ +70°C (-4°F ~ 158°F)
Helmet Material:	High-impact nylon
Total Weight:	430 g
Application Range:	Electrode welding (SMAW); TIG DC&AC; TIG Pulse DC; TIG Pulse AC; MIG/MAG/CO2; MIG/MAG Pulse; Plasma Arc Cutting (PAC); Plasma Arc Welding (PAW); Air Carbon Arc Cutting (CAC-A); Grinding
Approved:	CE, ANSI Z87.1, CSA Z94.3, AS/NZS 1338.1

7. Parts



A	PEWH2-A	Front Lens Retention Frame
B	LVE5WH2	Front Lens
C	PEWH2-C	Auto-Dimming Filter
D	LVI5WH2	Inner Lens
E	PEWH2-E	Housing (Welding Cap)
1	PEWH2-1	Sweatband
2	PEWH2-2	Ring
3	PEWH2-3	Left Limiting Ring
4	PEWH2-4	Limiting Ring
5	PEWH2-5	Ring
6	PEWH2-6	Block Nut
7	PEWH2-7	Right Limiting Ring
8	PEWH2-8	Screw
9	PEWH2-9	Adjustable Headband
10	PEWH2-10	Front Headband

8. Warranty

1. The warranty begins on the date specified on the purchase receipt and is valid for 12 months.
2. The warranty is non-transferable without written consent from your supplier.
3. A purchase receipt is required to make any warranty claims.
4. The warranty only applies if the product is used according to the provided instructions and solely for its intended purpose.
5. No modifications may be made to the product.
6. The warranty does not cover misuse.
7. Shipping costs are not covered under the warranty.
8. Repairs must be carried out exclusively by your supplier. Any repairs performed by third parties will void the warranty claim.
9. Repairs during the warranty period do not extend the warranty validity. However, a three-month warranty will be provided for the repair if the original warranty period has expired.
10. Any maintenance tasks described in the user manual must be performed in a timely manner.
11. For warranty claims, you must contact the point of sale where you purchased the item.

ENG

EG-verklaring van overeenstemming - Declaration of conformity – EG- Konformitätserklärung - Declaration de conformite - Dichiarazion di conformita- Declaracion de conformidad

Wij, We, Wir, Nous, Noi, La empresa,
Valkenpower BV, Industrieweg 4, 6051 AE Maasbracht, Nederland,
verklaren geheel onder eigen verantwoordelijkheid dat het product
declare under our sole responsability that the product
erklären in alleiniger Verantwortung, dass das Produkt
déclarons sous notre seule responsabilité que le produit
dichiariamo sotto la nostra responsabilià che il prodotto
declaramos bajo nuestra exclusiva responsabilidad que el producto

Type **Model** **Type** **Type** **Tipo** **Tipo**	**Beschrijving** **Description** **Beschreibung** **Description** **Descrizione** **Descripción**	**Merk** **Brand** **Marke** **Marque** **Marca** **Marca**
EWH2	Auto. verduisterende lashelm Auto-darkening welding	Soldatech

Waarop deze verklaring betrekking heeft, in overeenstemming zijn met de volgende normen:
To which this declaration relates is in conformity with the following document:
Auf welches sich diese Erklärung bezieht, den folgenden Normen entspricht:
Auquel se réfère cette déclaration est conforme à le document suivant:
A cui si riferisce dichiarazione, corrisponde ai suguenti documenti:
Al que se refiere la presente declaración, corresponde a los siguientes documentos:

Europese Verordening, European Regulation, Europäische Verordnung, Règlement Européen, Regolamento Europeo, Reglamento Europeo:
EU 2016/425

Nederland, Maasbracht, 26-07-2024

Directeur Valkenpower

B.A.H.Valkenburg

Serienummer
Serial number:

Valkenpower BV, Industrieweg 4, 6051 AE Maasbracht, Nederland