



K-12 Auto-Darkening Welding Goggle User Instructions



⚠ WARNING

Read and understand this entire instruction manual before attempting to assemble, install, operate, or maintain this tool. Failure to comply with the instructions may result in serious personal injury and/or property damage !

GENERAL INFORMATION

K-12 Auto-Darkening Welding Goggle does not protect against severe impact hazards such as fractured grinding wheels or abrasive discs explosive devices or corrosive liquids Machine guards or eye splash protection must be used when these hazards are present. The auto-darkening welding filters are designed for Arc welding or cutting applications The unit is suitable for all Arc welding processes such as MIG MAG TIG SMAW Plasma Arc and Carbon Arc. This auto-darkening welding Goggle is not recommended for "overhead" welding applications, laser welding or Laser cutting applications. In the event of electronic failure, the welder remains protected against UV and IR radiation according to shade 12. The auto-darkening welding filter should always be used with original inner and outer cover lenses. The manufacturer is not responsible for any failure due to modifications to the welding filter or the use of the filter from any other manufacturer's Goggle.

TECHNICAL SPECIFICATIONS

Cartridge Size	190mm x 185mm x 106mm
Viewing Area	90mm x 35mm
Optical Class	1/1/1/2
UV/IR Protection	Permanent Shade 12
Light State	Shade 4
Dark State	5/9-12
Switching Speed	0,1ms
Sensors	2
Sensitivity Control	Switch HI-LO
Battery Type	1 x CR 2450 (Lithium 3 Volt)
Solar Cell	Yes
Operation Temperature	23° F to 131° F
Storage Temperature	-4° F to 158° F
Standards Compliance	CE EN379

When stored in extremely cold temperature, the Goggle should be warmed up to ambient temperature before welding.

Inspect all parts for signs of wear or damage. Any scratched or cracked parts should be replaced prior to use.

SKIN CONTACT ALLERGIC ALERT! Extra protections must be taken if individuals are allergic to plastic or other materials that his/her skin may be in contact with when using this product.

NEVER place the Goggle on a hot surface.

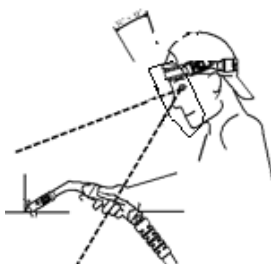
NEVER open or tamper with the filter cartridge.

1. OPERATION

ADJUST THE WELDING GOGGLE ACCORDING TO YOUR INDIVIDUAL REQUIREMENTS.

The headband should be adjusted both in circumference and height.

The angle between face and Goggle should also be adjusted and recommended to be 10-12°(Fig.1).



(Fig.1)

Adjust Goggle's headband so the goggle fits securely (Fig.2).

ON/OFF

The welding goggle needs to switch on before use please see below for instructions on how

2. PARAMETER ADJUSTMENT

1. Power button

Press the Power button (1) once a green light should appear in the shade bar and button in the depressed state (4) this mean the AWF is turned on press the button again the light should go out and the button will be in the raises state this mean the AWF is now off (Fig.4).

2. Shade control

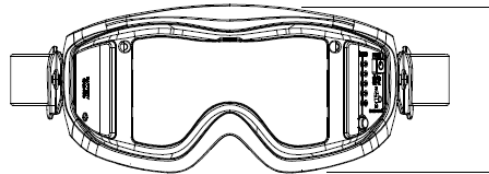
Once the AWF is turned on the shade can be altered by pressing the shade button (2) (FIG.4) the shade will be indicated by the green LED each press of the shade button will increase the shade one step. Once the AWF has reached the highest shade (shade 12) the next press will move the shade back to the bottom shade (shade 5)

3.SENSITIVITY CONTROL

The sensitivity is operated by linear switch and has two options low and HI, To operate slide the switch up for Hi and down for low (Fig.4)

4.Shade indication

The green LED indicates the shade the goggle is currently set. (Fig.4)



RECOMMENDED SETTINGS

Welding process Or related techniques	Current internally in amperes														
	0.5	2.5	10	20	40	80	125	175	225	275	350	450			
E manual Flux core electrodes Fluxed stick electrodes						9	10		11		12		13	14	
MIG / Metal-inert-Gas Argon (Ar/He) Steels, alloyed steels, Copper & its alloys etc.								10	11		12		13	14	
MIG / Metal-inert-Gas Argon (Ar/He) Aluminium, copper, nickel And other alloys.								10	11		12		13	14	15
TIG / Tungsten-Inert Gas Argon (Ar/H ₂) (Ar/He) All weldable metals such as: steels, aluminium, Copper, nickel and their alloys.						9	10		11		12		13		
MAG / Metal-active Gas(Ar/Co ₂ O ₂) (Ar/Co ₂ /He/H ₂) Construction Steel, hardened & tempered steels Cr-Ni-steel, Cr-steel & other alloyed steels.								10	11	12		13		14	15
Electric arc compressed air joining (Melt joining) carbon electrodes (O ₂) Flame grooving compressed air (O ₂)										10	11	12	13	14	15
Plasma cutting (fusion cutting) All weldable metals see WIG Centre and outer gas: Argon (Ar/H ₂) (Ar/He)									11		12		13		
Plasma cutting (Fusion cutting) Micro-plasma welding Centre and outer gas: Argon (Ar/H ₂) (Ar/He)	2.5	5	6	7	8	9	10	11	12		13		14		15
	4														

Depending upon the application conditions, the next highest or next lowest protection level can be used.
The darker fields correspond to those areas in which the corresponding welding process cannot be used.

3. MAINTENANCE

REPLACEMENT OF BATTERIES

If the indicator(1) blinks once in each 2 seconds, the batteries are low and replacement is required immediately. (Fig.4).

- 1) Unscrew the positive screw from the opposite side Fig 6 A
- 2) Carefully open the battery compartments. Fig 6 B
- 3) Put the new batteries into the compartments. Fig.6 C
- 4) Snap the compartments back into the filter.
- 5) re insert screw and tighten hand tight .



Always change both of the batteries when renewing them.



NEVER put used batteries into house hold waste because they are very toxic to the environment.

Please always have used batteries recycled properly, and stay GREEN when welding

(Fig.6)

REPLACEMENT OF EXTERIOR COVER LENS

Pull down from the top of the outer lens using the cut out tab



Remove the old lens cover., Remove the protect film on the new lens cover Put the new lens cover back onto the shield(Fig.8).

Feed the top edge of the cartridge back to the Goggle shield . Push the bottom edge of the



Ensure the front cover lens is mounted before using and the protective film on the lens cover is removed.

Ensure that the lens is clean and there is no dirt or spatter covering the 2 sensors at the front of the filter cartridge.

INSPECTION

1. Carefully inspect your Auto-Darkening Welding Filter regularly.
2. Cracked, pitted or scratched filter glass or cover lenses reduced vision will seriously impair protection.
3. Worn parts should be replaced immediately to avoid injury to the eyes.

CLEANING AND DISINFECTION

Clean the Goggle with mild soap and lukewarm water.

Clean the welding filter with a clean lint-free tissue or cloth.

DO NOT immerse in water.

DO NOT use solvents.

TROUBLE SHOOTING

AUTO DARKENING FILTER DOES NOT DARKEN OR FLICKER

- Check the lens cover for dirt and spatter that may be blocking the arc sensors.
- The sensors are dirty, wipe them clean with a soft lint-free cloth.
- Check the sensitivity setting recommendations and increase the sensitivity if possible.
- Check batteries and verify that they are in good condition and installed properly.
- Battery terminals and the contact surface of the filter are dirty or oxidized (clean both) .

THE LENS STAYS DARK AFTER THE WELD ARC IS EXTINGUISHED, OR THE AUTO-LENS STAYS DARK WHEN NO ARC IS PRESENT.

Adjust the sensitivity setting in small increments. In extreme light conditions, it may be necessary to reduce the surrounding light levels.

SLOW SWITCHING

- The operating temperature is too low, don't use at temperatures of below -5 °C.

POOR VISION

The cover lens and the filter cartridge is dirty or damaged, clean the dirty components and replace the damaged ones.

Ensure ambient light is not too low.

Ensure the shade number is correct and adjust accordingly.

IRREGULAR DARKENING

Headband has been set unevenly so the distance between the eyes and the lens is different from the left to the right side.

▲ WARNING

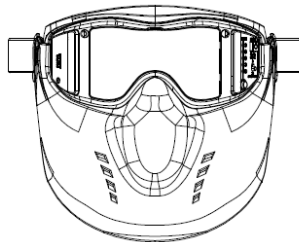
If the described malfunctions cannot be solved, stop using the Goggle immediately and contact the nearest distributor.

WARRANTY

We warrants to the purchaser that the product will be free from defects in material and workmanship for the period of one year from the date of purchase. Our sole obligation under this warranty is limited to replacement or repairs.

This warranty does not cover product malfunctions or damages, which result from the product being tampered, misused or abused. We are not responsible for any indirect damages or injury, which arises out of the use of the product.

ADF Markings



Light shade	3 / 5 / 9-12
Dark shades	W2B
Identification of the manufacturer	1 / 1 / 1 / 2
Optical class	1 / 1 / 1 / 2
Diffusion of light class	1 / 1 / 1 / 2
Variation in luminous transmittance class	1 / 1 / 1 / 2
Angle dependency class	1 / 1 / 1 / 2
Number of the standard	379 CE

Shield Markings

W2B 175 B CE

We recommend a use for a period of 3 years, but no longer than 5 years. The duration of use depends on various factors such as use, cleaning, storage and maintenance. Frequently inspections and replacement if it is damaged are recommended.

Certification and control labels

The welding filters are tested for eye protection by the following notified body: ECS GmbH Obere Bahnstrasse 74, 73431 Aalen Germany, notified body 1883 that provides approval and continual quality system under the control of the European Commission, the German Ministry for Work and the Central Office of the Provinces.



Manufactured By:

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