AHV-100 Series

Auto-Darkening Welding Helmet
User Instruction Manual

AHV-100 Series Auto-Darkening Welding Helmet

WARNING

Please read and understand all instructions prior before using of the AHV-100 Series Auto-Darkening Welding Helmet.

GENERAL INFORMATION

AHV-100 Series Auto-Darkening Welding Helmet dose 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.

UV and IR radiation according to shade 16. In the event of electronic failure, the welder remains protected against

original inner and outer cover lenses. The auto-darkening welding filter should always be used with

welding fiter or the use of the filter from any other manufacturer's heimet. The manufacturer is not responsible for any failure due to modifications to the

Protection can be seriously impaired if unapproved modifications are

Ensure the front cover lens is mounted before use and remove protective

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

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

Never place the helmet on a hot surface

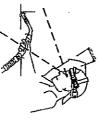
Never open or tamper with the filter cartridge

TECHNICAL SPECIFICATION

lotal Weight	Signage Temp	Operation Temp		Reaction Time	Fowler On/Off	SetSitvity control (AthV-102)		Dalkend State	light State	UW/IR Protection	Caltindge Size	Viewing Field	Viewing Field
425g	-20°C to +70°C (-4° F to -158° F)	-5℃ to +50℃ (23° F to 131° F)	0.25-0.35 seconds-fast position 0.60-0.80 seconds-slow position	0,00004 sec (1/25,000)	Fully Automatic	Adjusts for varying ambient light and welding arc	Solar cells with built in rechargeable battery	Shade DIN 9 to 13 Variable	Shade DIN 4	Permanent Shade DIN16	110mm × 90mm × 9mm/4.33" × 3.54" × 0.35"	98mm × 44mm/3.86" × 1.73" (AHV-102)	98mm×39mm/3 86"×1.57" (AHV-101)

OPERATION 1. ADJUST THE WELDING HELMET ACCORDING TO YOUR INDIVIDUAL REQUIREMENTS

to be 10° - 12° between face and helmet should also be adjusted and is recommended The headband should be adjusted both in diameter and height. The angle



Ŋ ON/OFF

The solar unit automatically switches on when exposed to light.

ω SELECT THE SHADE NUMBER

dark state Five different shade numbers, 9, 10, 11, 12 and 13, are available in the

of the helmet The shade number can be selected by turning the knob on the side

The shade setting is indicated by the arrow on the switch

RECOMMENDED SHADE NUMBERS

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5. SELECT SENSITIVITY (AHV-102)

By moving the selector switch on the rear of the cartridge the sensitivity to ambient light changes can be altered.

FOW

Suitabe for high amperage welding and welding in bright sunlight conditions.

HIGH

Suitable for low amperage welding and use in poor light conditions.

Suitable for use with steady arc process such as Tig welding

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4. SELECT DELAY TIME

By moving the selector switch on the rear of the cartridge the time taken for the lens to lighten after welding can be altered.

FAST

The lens will lighten in 0.25 to 0.35 seconds from stopping of welding depending upon ambient temperature and shade setting. This is ideal fo welding or production welding with short welds.

SLOW

The lens will lighten in 0.6 to 0.8 seconds depending upon the ambient temperature and shade setting. This setting is ideal for welding ϵ high amperages where there is an after glow from the welding.

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2 56807
4 7 55675
7 55675

Cover Lens

Triont Lans Retaining Frame

REPLACEMENT OF FRONT COVER LENS

- Remove the front cover by pulling out the tab at the base of the cover.
- Take out the old cover lens.
- Make sure that the protective film is removed from the new cover lens
- Place the new cover lens in the recess at the front of the helmet
- Place the front cover back into position by locating the top pegs in the holes, position one of the lower corners and snap in the second lower corner,

NOTE-Do not use the helmet without the cover lens and front cover ir place.

REPLACEMENT OF INNER COVER LENS

- The welding inner cover lens is removed by pulling out the top edge
- The new inner cover lens is assembled after the protective film is hook at the side and bend the lens in the middle part and locate the removed. Locate one of the sides inserting the edge under the ens under the hook at the other side.

REPLACEMENT OF WELDING FILTER

- lens and pulling off the adjusting knob from the shade button. The welding filtercan be replaced by removing the front cover, cover
- From inside the helmet push out the lug on the right hand side of
- The cartridge can now be removed from the front of the helmet

Welding current is too low, select the slow position on the filter and ensure the view of the weld is unobstructed

Change to high sensitivity.

POOR VISION

- Ensure the cover lens and the filter cartridge are clean.
- Ensure the shade number is correct and adjust accordingly
- Ensure ambient light is not too low.

WARRANTY

purchase price of the product with defects. this warranty is limited to making replacement or repairs,or to refund the the date of purchase. The manufacturers sole obligation under from defects in material and workmanship for the period of one year from The manufacturer warrants to the purchaser that the product will be free

instructions must be followed; failure to do will void the warranty. The of the use of the product. manufacturer is not responsible for any indirect damage, which arises out result from the product being tampered, misused or abused. The operation This warranty does not cover product malfunctions or damages, which

INSPECTION.

- Carefully inspect your Auto-Darkening Welding Filter regularly.

 Cracked, pitted or scratched filter glass or cover lenses reduce vision and seriously impair protection.
- These should be replaced immediately to avoid damage to the eyes.
- Inspect the complete helmet frequently and replace worn or damaged

CLEANING

- Clean the helmet 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.

TROUBLESHOOTING IRREGULAR DARKENING

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

AUTO DARKENING FILTER DOES NOT DARKEN OR FLICKERS

- Front cover lens is solled, clean or replace
- Photo sensors are dirty, wipe clean with a soft lint-free cloth

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