

USER INSTRUCTION MANUAL

CARRERA™ **ARCONE**® HELMET WITH AUTO-DARKENING FILTER

Preparations for Use

Filters:

Before you begin welding, always inspect your filter to ensure it is not damaged.

WARNING, never begin welding without first checking to see if the correct front protection plate is in place, the filter is secured properly in the filter holder, and the filter holder secured in the helmet. Failure to protect the welding filter or install the filter/filter holder correctly may cause damage and become a safety hazard should the UV/IR protection be compromised from spatter or cracks from impact.

DAMAGE CAUSED BY ABUSE SUCH AS EXCESSIVE TEMPERATURES, CRACKS FROM IMPACT, AND PITTING FROM SPATTER CAUSED BY POOR MAINTENANCE WILL VOID WARRANTY.

Welding Helmets:

WARNING, other safety precautions such as protective clothing, adequate ventilation, breathing protection, fire extinguisher, and protection for co-workers, should also be considered.

WARNING, Secondary impact protection required, such as, goggle, spectacle, or faceshield rated for the appropriate hazard per ANSI Z87.1.

Technical Information/Use

Filters:

WARNING, Severe burns are possible with a damaged lens (cracks, pits, holes, etc.). Do not use damaged lens. Optical radiation can possibly enter in from behind the helmet from other welders welding in the immediate area.

Filter Specific Features

1000FcF and 2500V (see Figure 1):

Sensitivity, Shade and Delay are adjusted using the knobs on the back of the filter. To activate the Grind Mode, turn the Sensitivity knob counter-clockwise past the white line. The filter will be locked in Grind Mode. Deactivate Grind mode by setting Sensitivity to any setting above the white line. Other functions will not work in Grind mode.

1500V, 2000V and 4000V: Shade knob is on the outside of the helmet. Sensitivity and Delay are adjusted using the knobs on the back of the filter (see Figure 2). Where applicable, Grind Mode is located on the outside shade knob.

4500V: Sensitivity, Shade, and Delay are adjusted using knobs on the back of the filter. Use toggle switch to change between Grind Mode and Weld Mode. (see Figure 3).

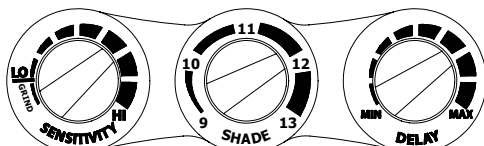


Figure 1

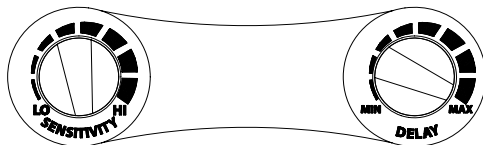


Figure 2



Figure 3

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AR Z87 W4/9-13



Technical Information/Use (continued)

Welding Helmets:

Adjust your helmet for comfort and proper sight-line (see Figure 4).

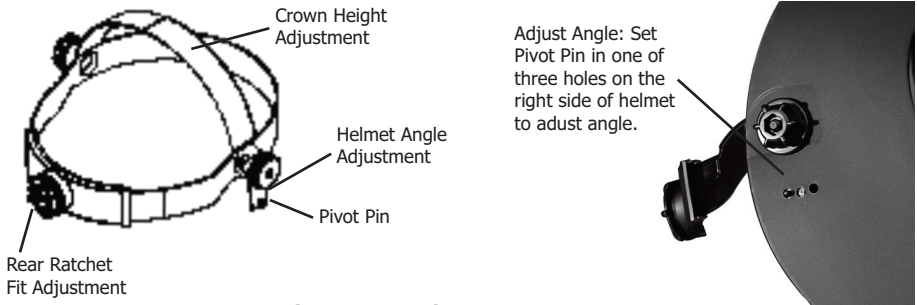


Figure 4: Headgear Adjustments

Limitations of Use

Filters:

ArcONE® welding filters are not designed for oxy-acetylene, laser, or very low amperage welding applications.

Do not weld with filter in the light state. If the filter fails to turn dark immediately stop use and contact a service provider for help.

No matter what shade the filter is set to the UV/IR protection is always there. You can never burn your eyes due to optical radiation.

Welding Helmets:

ANSI Protective clothing and accessories such as leather bibs attached to the welding helmet will protect the user from spatter and optical radiation indirectly entering from areas behind the helmet. Welding helmets do not provide complete impact protection.

Not for use in overhead welding.

ACGIH (American Conference of Governmental Industrial Hygienists) has established a TLV-TWA of 5mg/m³ for welding fumes. Welding fumes cannot be classified simply. The composition and quantity of both are dependent on the alloy being welded and the process and electrodes used.

Care and Maintenance

NOTE: Replacement components must be used in accordance with these instructions. Failure to use ArcONE® replacement components in accordance with these instructions voids certification and warranty of this product.

Filters:

Clean your filter by using window cleaner or a mild soapy solution and a soft cloth or paper towel. Dampen the cloth and wipe the lens. Do not immerse in water or solution. Ensure that the sensors are kept clean and unobstructed. Change the cover plates frequently.

Welding Helmets:

Clean your helmet by using a mild soapy solution and a soft cloth or paper towel. Do not immerse in water or solution.

WARNING, Do not throw or abuse the helmet. Doing so may crack the helmet shell or filter, and is not covered by warranty.

Store in an appropriate place to prevent damage when not in use Welding helmets may be stored and transported in their original or similar packaging. **(Storage Temp. 32°F - 100°F).**

Splatter Protection

Ensure the front cover plate is secure under all the tabs located inside the Carrera™ **ARCONE**® Welding Helmet and within the area covered by the Filter Holder.

SPATTER DAMAGE IS NOT COVERED BY WARRANTY

All cover plates are 1 mm thick (0.040").

*****To install, slide protective cover plate under top tabs then push underneath bottom tabs*****

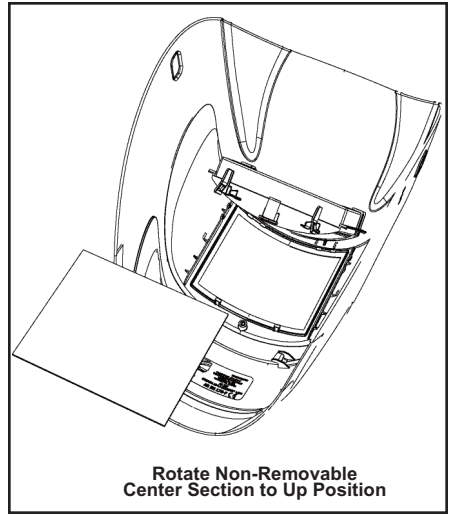


Figure 5

Parts Selection Guide

(see Filter Removal Instructions for replacing Filter and Cover Plates)

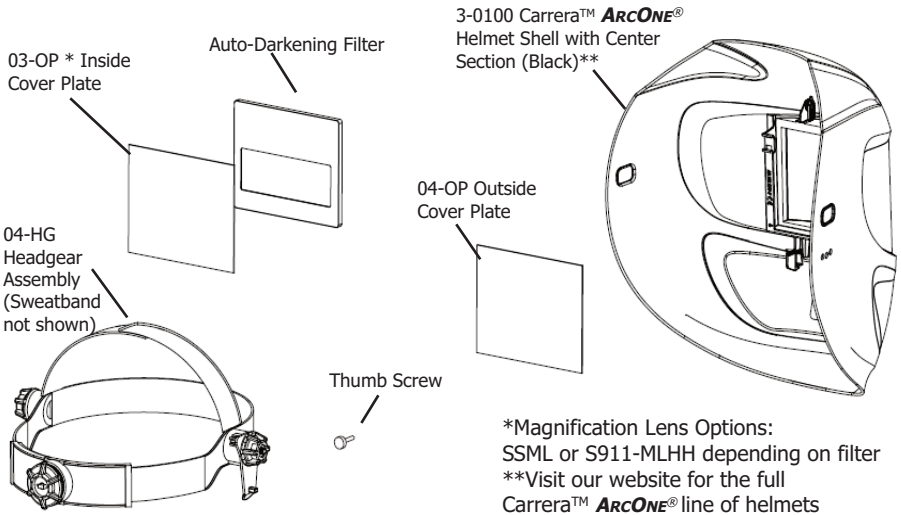


Figure 6

Filter Removal Instructions

Removable Filter Holder

1. Grab filter by top and bottom edge
2. Pull up on bottom edge of filter and slide out of the bottom of the filter holder (see Figure 7)

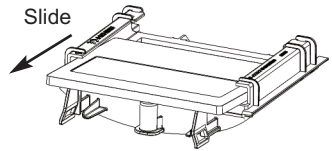


Figure 7



Critical Installation Warning!

Helmet impact rating Z87+ with Thumb Screw installed. Helmet rating Z87 without thumb screw. For Z87+ make sure Filter Holder Center Tab is secured to the Welding Helmet Centering Pin with Thumb Screw (See Figure 8). **Do not over tighten.**

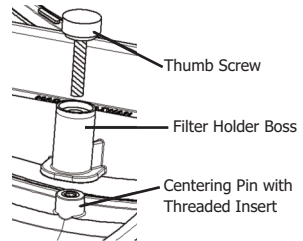


Figure 8

Warranty and Service Information

Limited Warranty

ARCONE® warrants all auto-darkening filters listed in this manual for a period of three (3) years from the date of purchase against all manufacturing defects resulting from materials or workmanship. Other components are warranted for a period of ninety (90) days. Proof of purchase establishing the date of sale and filter serial number must be provided, should a warranty claim be submitted. The purchaser's only remedy under this limited warranty shall be limited to **ARCONE**® sole option to repair, replace or refund (not to exceed the purchase price). This warranty is void in the case of unauthorized modification, tampering, and damage due to misuse, abuse, inadequate maintenance or improper storage. Some indications of operator abuse include, but are not limited to, spatter, chips, dents or cracks. This limited warranty is not transferable from the original purchaser to a secondary owner. **ARCONE**® shall in no event be liable or responsible for any injury, damage or loss resulting either directly or indirectly from the use or misuse of this product. This limited warranty is exclusive and is in lieu of any other warranty implied either oral or written. Please read the instruction manual carefully to avoid certain situations which may void this limited warranty.

RETURN PROCEDURE

1. Remove the auto-darkening filter from the helmet. Record the model number and serial number which are located on the filter edge or back. Also record the date of purchase from your sales receipt.
2. Contact **ARCONE**® Technical Service (800-223-4685) for a Return Authorization Number.
3. Return the lens only, freight pre-paid, in a box with packaging material to prevent damage, no envelopes, please. Reference the Return Authorization Number on the box and any accompanying paperwork. Include your contact information and return address (no P.O. Boxes, please).



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Please visit our website at www.arc1weldsafe.com