

## 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 (Fig. 6)

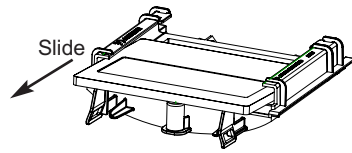


Figure 6

### 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 7). **Do not over tighten**

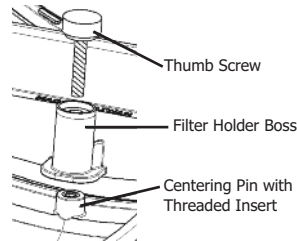


Figure 7

## SERIAL NUMBER

Located along filter edge or back



## Warranty and Service Information

### Limited Warranty

**ArcOne**® warrants all auto-darkening filters covered by this manual for two (2) years from the date of purchase against manufacturing defects resulting from materials or workmanship. 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's** sole option to repair, replace or refund (not to exceed the purchase price). This limited warranty is void in the case of unauthorized modification, tampering, and damage due to misuse, abuse, inadequate maintenance or improper storage. 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.

**Troubleshooting or Return Authorization, call (800) 223-4685 or visit [www.arc1weld-safe.com](http://www.arc1weld-safe.com)**



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# USER INSTRUCTION MANUAL CARRERA 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, such as a Clean Air Flow™ or equal, fire extinguisher, and protection for co-workers, should also be considered.***

## 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** (See Figure 1): Shade and Sensitivity are adjusted using the knobs on the back of the filter. Change the Delay by quickly pressing and releasing the Delay/Grind button. The red delay LED will turn on for Delay. Press and release the Delay/Grind button again to turn off. To activate the grind mode, press and hold down the Delay/Grind button until the red Grind LED turns on. Deactivate Grind mode by quickly pressing and releasing the Delay/Grind button again. Grind LED turns off.

**2000V:** 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). This model does not have Grind mode.

**2500V:** Same as 2000V with the addition of shade to the back. (See Figure 3)



Figure 1

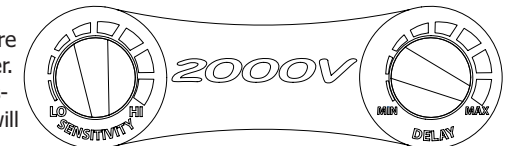


Figure 2

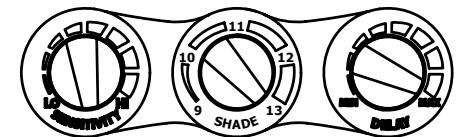


Figure 3

## Technical Use *(continued)*

Welding Helmets:

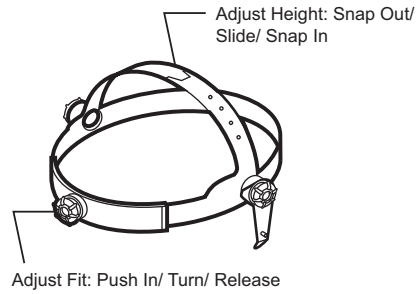
### Limitations of Use

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.**



Headgear Adjustments  
Figure 3

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.

**ACGIH** (American Conference of Governmental Industrial Hygienists) has established a TLV-TWA of 5mg/m<sup>3</sup> 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 (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 (Storage Temp. 14°F / 131°F). Welding helmets may be stored and transported in their original or similar packaging.

## Spatter Protection

Ensure the front cover plate is secure under all the tabs located inside the Carrera 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 Polycarbonate under top tabs then push underneath bottom tabs\*\*\***

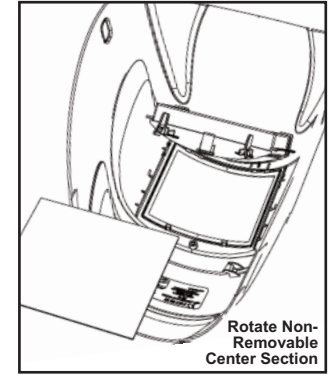


Figure 4

## Parts Selection Guide

(see Filter Removal for replacing Filter and Cover Plates)

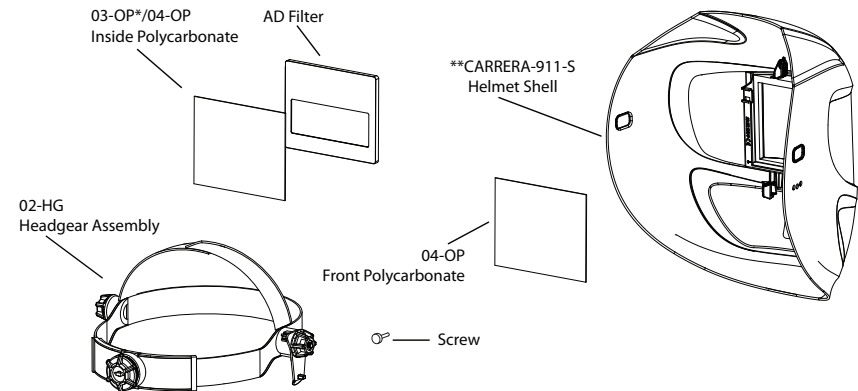


Figure 5