

Summary

The RAZORWELD RWX5000 ADF welding helmet is a high quality Solar and Battery operated helmet incorporating RAZORBLUE lens technology. The helmet features 4 independent Arc sensors and has an impressive 3.94" x 2.36" viewing area. This helmet features a variable shade 9-13 and is TIG operable to 5 amps. The adjustable delay and adjustable sensitivity settings are a real added bonus and the grind mode is standard on this helmet. Our helmet is lightweight, beautifully designed and offers excellent neck and head protection. A 2 year warranty is offered on this helmet

WARNING

Read and understand all instructions before using.

- Be sure that the shade of the lens is the correct shade number for your welding or cutting application
- The helmets and lenses are not suitable for overhead welding applications, lazer welding or cutting.
- Welding helmets are designed to protect the eyes and face from sparks, spatter and harmful radiation under normal welding and cutting conditions. They are not designed to be used for purposes other than these.
- This helmet will not protect against explosive devices or corrosive liquids. Machine guards or eye splash protection/ devices must be used when these conditions exist.
- Impact resistant, primary eye protection, spectacles or goggles that meet current ANSI specifications are to be worn when necessary and when required when using this helmet.
- Avoid work positions that could expose unprotected areas of the body to sparks, spatter, direct and indirect radiation. Use adequate precautions and common sense when placed in a position which could result in Arc burn.
- Check for component tightness before each use. Ensure also that the outer and inner protective lens are free from spatter and dirt so that the ADF filter can function normally.
- Inspect all operating parts before each use for signs of wear and/or damage. Any scratched, cracked or pitted parts should be replaced immediately. If in doubt replace!

- Do not make any modifications to either the welding lens or helmet, other than those specified in this manual. Do not use any replacement parts other than those specified in this manual, Unauthorized modifications and replacement parts will void the warranty and expose the user to the risk of personal injury.
- The recommended operating temperature range for the welding lens is 14Â°F ~ 149Â°F (-10Â°C ~ 65Â°C). Do not use this device beyond these temperature limits.
- If this lens does not darken when striking the arc, stop welding immediately and call the reseller
- Do not immerse this lens in water as this model is not waterproof
- Do not use any solvents on any lens or helmet components
- Failure to follow these warnings and/or failure to follow all of the operating instructions could result in severe personal injury.

Characteristics

The RWX5000 automatic welding helmet is equipped with a high quality ADF Filter. The filter is transparent before welding, so the operators may see the work surface clearly. When striking the arc, the filter darkens automatically. When the arc goes out, the filter will become transparent again. The switching time from light to dark is about extremely fast. The switching time from dark to light has a range of 0.1-0.9 seconds. The mask is equipped with a continuous darkness-adjusting facility, so the operator may select a dark shade number ranging from 9 to 13. The RWX5000 automatic helmet gives the operators a permanent complete protection against UV/IR even in non weld mode. The UV/IR protection level is up to DIN15 continuously The power is provided by solar cells, and replaceable battery (x 2)The mask is also equipped with 4 sets of photo sensors to sense arc light conditions .In addition, the mask is also provided with an outer protection plate made of a high polymer material. The plate is wear-resistant and Thermostable ensuring a long life.The RWX5000 is standard with the RazorBlue lens technology. This Technology is a feature that greatly improves the optics allowing the user to see a full spectrum of colors increasing vision clarity. It also helps to alleviate eye fatigue making it safer for extended periods of welding.

Main specifications

1. Filter dimension	5.25" x 4.5"
2. View area	3.94" x 2.36"
3. Light shade number	4
4. Dark shade number	9-13
5. UV/IR protection	DIN15
6. Time from light to dark	1/10000 s
7. Time from dark to light	0.1-0.9s
8. Sensitivity /Delay	Adjustable stepless
9. Power supply	solar cells & replaceable battery
10. Operating temperature	-10°C-65°C(14°F-149°F)
11. Warranty	2 years
12. Grind function	Yes
13. Optical Classification	1/1/1/2

Method of operation

1. Assemble the mask as shown in the construction and assembly figure(see page6)
2. The power supply
The power of the helmet is provided by solar cells with two lithium batteries . Turning on or off is automatically controlled by the electronic circuit. It is not necessary to turn the welding helmet on or off to conserve battery life or to initiate the welding shade activity
3. Shade selection
When striking the arc, the lens window darkens immediately. At this moment, according to the operators requirement, the operator can adjust the **SHADE** knob (12) in the direction as shown by the arrow to select the optimum darkness. The shade is variable from 9-13
4. Delay time selection
By moving the **DELAY** selector knob (14) on the rear of the cartridge, the time taken for the lens to lighten *after* welding can be altered from 0.1~0.9 seconds.
Turn to MIN: The refers to the time the lens will lighten after welding. The shortest time is 0.1 seconds depending upon the welding point temperature and shade set. This setting is ideal for track welding or production welding with short welds.

Turn to **MAX**: The longest time this delay can be set to is

0.9 seconds depending upon welding point temperature and shade setting. This is idea when welding at high temperatures and when the welded material is still giving off visual heat or "Glow"

5. Sensitivity selection.
By moving the **SENSITIVITY** selector knob (13) on the rear of the cartridge, the sensitivity to ambient light changes can be altered.
Turn to **LO**: The photo sensitivity changes to be lower. Suitable for high amperage welding and welding in bright light conditions (lamp light or sun light).
Turn to **HI**: The photo sensitivity changes to be higher. Suitable for low amperage welding and using in pool light conditions. Suitable for using with steady arc process such as TIG welding. Most operators will keep the sensitivity in the HI position
6. The welding harness can be easily adjusted to suit each operators comfort zone. The helmet has an easy to use push and turn feature (19)
7. Welding/grinding function
Welding/grinding function can be selected by moving the Knob (16)



- 8.Low battery warning light
The light will flash when the battery is low (11)
- 9.Grind flash
The light will flash when using grind function (15)

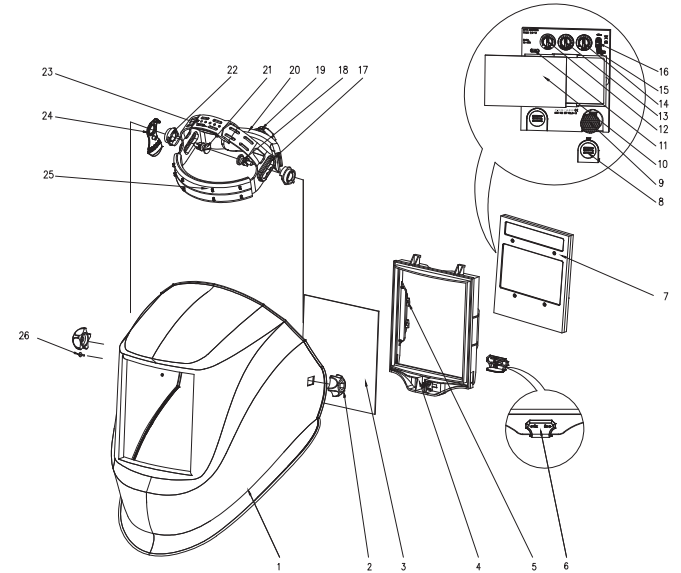
Points for attention

- 1. Be sure that the helmet is be used in its correct condition and check it often according to the WARNING content.
- 2. There is a liquid crystal-valve in the filter, although it has an inner and outer protection plate, it is important to avoid heavy knocks and unnecessary rough treatment.
- 3. The outer protection plate of helmet should be periodically inspected and cleaned, keep it clear. if a break, crack or pitting occurs replace immediately
- 4. In order to operate the helmet more efficiently and safely, please select the correct dark shade number.
- 5. The high quality high technology features of the filter must be kept away from water as the lens is NOT waterproof.
- 6. Please ensure that the filter sensors receive as much of the ARC light as possible to fully operate the sensors so the helmet can operate at the optimum level. Make sure they are clean and un-obstructed
- 7. Please use the automatic filter at temperatures between -10°C-65°C(14°F-149°F)
- 8. Please don't disassemble the filter, any problems arising, please contact our company or agent.

Packing list

- 1. Mask body (including control cassette) ----- 1 piece
- 2. Headgear ----- 1 piece
- 3. Operation manual -----1 piece

CONSTRUCTION AND ASSEMBLY FIGURE FOR RWX5000 AUTOMATIC WELDING HELMET WITH RAZORBLUE LENS



1. Helmet shell

2. Block nut

3. Outer protection plate

4. Lens retainer

5. Magnifying lens holder

6. Retainer lock

7. Auto filter

8. Battery cover plate

9. Battery

10. Inner protection plate

11. Low battery flashing light

12. Shade knob

13. Sensitivity knob

14. Delay knob

15. Grinding flashing light

16. Welding/grinding selecting knob
17. Headgear slider (with 3 slots)

18. Headgear screw (with 3 slots)

19. Headband tightness adjusting knob

20. Headgear connector

21. Headgear screw (long,on right)

22. Block washer(on right)

23. Headband adjusting buttons

24. Segmental position plate(on right)

25. Sweatband

26. Positioning point for the segmental plate

WELDING PROCESS	CURRENT AMPERES																								
	0.5	1	2.5	5	10	15	20	30	40	50	60	100	125	150	175	200	225	250	275	300	350	400	450	500	
Covered Electrode									Shade 9	Shade 10			Shade 11						Shade 12			Shade 13		14	
MIG Plate Welding										Shade 10			Shade 11						Shade 12				Shade 13		14
MIG Sheet Metal											Shade 10		Shade 11						Shade 12		Shade 13		Shade 14		15
TIG								Shade 9	Shade 10		Shade 11		Shade 12			Shade 13					Shade 14				
MAG									Shade 10	Shade 11		Shade 12							Shade 13		Shade 14		Shade 15		
Arc Gouging										Shade 10		Shade 11		Shade 12		11	12	13	14					15	
Plasma Cutting												Shade 11		Shade 12							Shade 13				
Plasma Welding	4	5	6	7	8	9	10	11	12	13	14	15													

RECOMMENDED SHADE NUMBERS

INSTRUCTION MANUAL FOR RWX5000 AUTOMATIC WELDING HELMET



INCORPORATING RAZORBLUE LENS TECHNOLOGY

PLEASE READ THIS MANUAL BEFORE OPERATING THE RWX5000