

Summary

The RAZORWELD RWX2000 ADF welding helmet is a low cost, high quality helmet applicable for nearly all welding applications. The helmet features 2 independent arc sensors with solar powered cells. This helmet features a variable shade 9-13 and is TIG operable to 5 amps. The adjustable delay and adjustable sensitivity featuring 3 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. This high quality and affordable Electronic helmet make it a standout on today's market

WARNING

Read and understand all instructions before using.

- Be sure that the dark shade of the lens in the welding helmet is the correct shade number for your application.
- The helmets and lenses are not suitable for "overhead" welding application, laser welding, or laser cutting applications.
- Welding helmets are designed to protect the eyes and face from sparks, spatter, and harmful radiation under normal welding conditions. They will not protect against severe impact hazards,
- This helmet will not protect against explosive devices or corrosive liquids. Machine guards or eye splash protection must be used when these hazards are present.
- Impact resistant, primary eye protection, spectacles or goggles that meet current ANSI specifications, must be worn at all times when using this welding helmet.
- Avoid work positions that could expose unprotected areas of the body to spark, spatter, direct and/or reflected radiation. Use adequate protection if exposure cannot be avoided.
- Check for light tightness before each use. Before each use, check that the protection plates are clean and that no dirt is covering the sensors on the front of the lens.
- Inspect all operating parts before each use for signs of wear or damage. Any scratched, cracked, or pitted parts

should be replaced immediately.

- 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.
- 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.
- The recommended operating temperature range for welding lens is 14°F ~ 149°F (-10°C ~ 65°C). Do not use this device beyond these temperature limits.
- Failure to follow these warnings and/or failure to follow all of the operating instructions could result in severe personal injury.

Characteristics

The RWX 2000 automatic welding mask is equipped with a filter set that will darken upon ARC. The filter is transparent before welding, so the operators may observe the work surface clearly. When welding is stopped the filter will become transparent again. The switching time from light to dark is approx 0.1ms. There are 3 options for delay time: slow, medium and fast. The mask is equipped with continuous darkness-adjusting unit, so the operator may select an arbitrary dark shade number ranging from NO.9 to NO.13.

The RWX2000 automatic welding Helmet gives the operator complete protection against UV/IR even in the transparent mode. The UV/IR protection level is up to DIN15 at all times. The power is provided by use of the solar cells so no battery changing is required.

The mask is equipped with 2 sets of photosensors to sense arc light. In addition, the mask is also provided with

an outer protection plate made of high polymer materials. This plate is wear-resistant and thermostable giving it high durability and a long life.

Main specifications

1. Filter dimension	4.33" x 3.54"
2. View area	3.54" x 1.57"
3. Light shade number	4
4. Dark shade number	9 - 13
5. UV/IR protection	up to DIN15
6. Time from light to dark	0.1ms
7. Time from dark to light	Slow position: 0.9s Medium position: 0.5s Fast position: 0.1s
8. Sensitivity	Low, Medium, High
9. Grinding function	Yes, external
10. Power supply	Solar cell, CR2450 Battery
11. Operating temperature	-10°C ~ 65°C (14°F ~ 149°F)
12. Storing temperature	-20°C ~ 80°C (-4°F ~ 176°F)
13. Warranty	two years

Method of operation

1. Assemble the mask as shown in the construction and assembly figure (see page 5)
2. The power supply
The power supply of the RWX2000 helmet is provided by 2 solar cells and one non-replaceable CR2450 Battery. Turning the helmet on or off is automatically controlled by the circuit.
3. Darkness selection
Striking the arc, the observing window darkens immediately. At this moment, according to the technical requirements, the operator can adjust the darkness "knob" 6 in the direction as shown by the arrow to select the optimum darkness.

4. Delay time selection

By moving the DELAY selector knob 10 on the rear of the cartridge, the time taken for the lens to lighten after welding can be altered.

Turn to FAST: The time the lens lightens after welding is about 0.1 second depending upon welding point temperature and shade setting. This setting is ideal for track welding or production welding with short welds.

Turn to MEDIUM: The time the lens lightens after welding is about 0.5 second depending upon welding point temperature and shade set.

Turn to SLOW: The time the lens lightens after welding is about 0.9 second depending upon welding point temperature and shade setting. This setting is ideal for welding at high amperage.

5. Sensitivity selection.

By moving the SENSITIVITY selector knob 9 on the rear of the cartridge, the sensitivity to ambient light changes can be altered.

Turn to LOW: The photo sensitivity changes to be lower. Suitable for high amperage welding and welding in bright light conditions such as Sunlight

Turn to MEDIUM: The photo sensitivity changes to medium.

Suitable for medium amperage welding and welding in medium light conditions.

Turn to HIGH: The photo sensitivity changes to be higher.

Suitable for low amperage welding and using in poor light conditions. Suitable for using with steady arc process such as TIG welding.

6. The head harness may be changed for operator comfort. Use the headband adjusting button 13 and the segmental positioning plate 14 to select an appropriate position suitable for the operator.

By pushing and turning the adjustment screw 12, the perimeter of the head band can be adjusted.

7. Grind Selection

Turn shade adjusting knob anti-clockwise until you feel the "click". You can now grind with the helmet. Remember to

turn the knob back when you want to weld again.

8. Lock&Unlock

Turn to left(←) to unlock the ADF frame. Turn to right (→) to lock the ADF frame.

Points for attention

1. Be sure that the helmet is to be used in the correct condition and check it according to the WARNING instructions

2. There is a liquid crystal-valve in the filter, although it has an inner and outer protection plate, it is important to take care with the filter.

3. The outer protection plate of helmet should be periodically inspected and cleaned, keep it clear. In case of break, cracks or pitting the plate must be replaced.

4. In order to operate more efficiently and with safety, please select the correct dark shade number.

5. The filter is not water-proof , please pay attention to preventing it getting wet.

6. Be sure to ensure that when using this helmet that the sensors are unobstructed to allow the helmet to work efficiently. If they are obstructed they will not function correctly

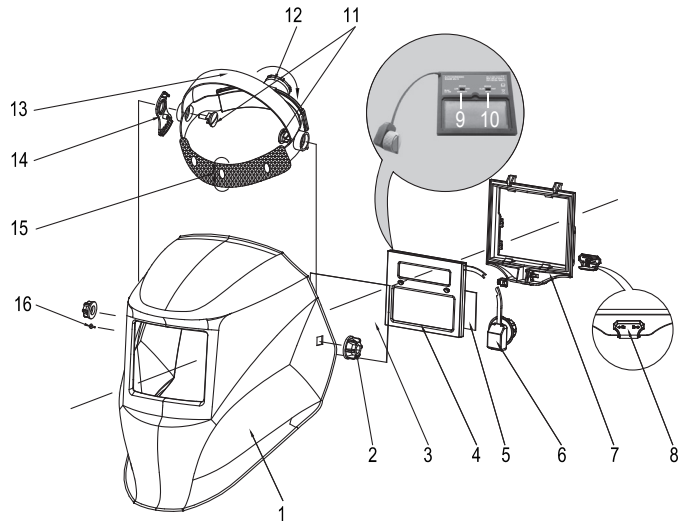
7. Please use the automatic filter at temperature between -10°C ~ 65°C (14°F ~ 149°F)

8. Please don't disassemble the filter, any problems contact the reseller.

Packing list

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

CONSTRUCTION AND ASSEMBLY
FIGURE FOR RWX2000 AUTOMATIC
WELDING HELMET:



- 1.Helmet shell
- 2.Block nut
- 3.Outer protection plate
- 4.Automatic filter
- 5.Inner protection plate
- 6.Shade knob
- 7.Frame
- 8. ADF frame lock
- 9.Sensitivity
- 10.Delay
- 11.Screw for fixing headband
- 12.Headband tightness adjusting knob
- 13.Headband adjusting button
- 14.Segmental positioning plate
- 15.Sweat band
- 16.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
Covered Electrode									Shade 9	Shade 10			Shade 11			
MIG Plate Welding									Shade 10				Shade 11			
MIG Sheet Metal									Shade 10				Shade 11			
TIG									Shade 9	Shade 10			Shade 11			
MAG									Shade 10				Shade 11			
Arc Gouging									Shade 10				Shade 11			
Plasma Cutting									Shade 10				Shade 11			
Plasma Welding									Shade 10				Shade 11			

RECOMMENDED SHADE NUMBERS

INSTRUCTION MANUAL FOR
RWX2000
AUTOMATIC WELDING HELMET



GRIND MODE AS STANDARD!

PLEASE READ THIS MANUAL BEFORE
OPERATING THE RWX2000