

INTRODUCTION

Thank you for choosing one of our products. We hope you will find this welding screen highly useful. This manual contains the necessary safety warnings and precautions for the correct use of this product to grant maximum security level for the operator.

SOLTER welding filters must only be used by qualified personnel who knows and understands the risks entailed in an improper use of the same.

Should any doubt arise regarding this manual, please do not hesitate to contact us.

Modifications to the welding filter can result in serious injury.

Do not make any modifications to either the filter or the rest of the helmet. Modifications should only be undertaken by qualified technicians.

SOLTER Soldadura, S.L. declines all responsibility arising from the misuse and/or improper operation of this product. This manual must accompany the model of the filter that you have purchased and must be saved for future reference.

These filters are designed and certified in full conformity with EN 379 safety standards.

The responsibility for ensuring that this product continues to meet the requirements of the related standards lies with the people that use and repair it.

BEFORE WELDING

Before using any of the welding filters provided remove the protection film from both sides of the front lens. Keep the work area clean. Always keep the front lens cover clean. The sensors that cause the filter to darken are located here.

Before using the screen, check all operating parts and make sure there are no signs of wear or damage. Any part that is damaged should be replaced immediately before use. Test the helmet filter before each use.

Ensure that the filter is properly fixed to the protection screen in order to avoid it from detaching in the face of any impact, exposing the user to the risk of personal injury.

In case of DIN adjustable darkening filter, select the appropriate shade before each use. Check the SHADE GUIDE TABLE on the protection screen's manual.

TECHNICAL SPECIFICATIONS

MODEL	OPTIMATIC 100	
Cartridge Size	110x90x8mm	
Viewing Area	96x39mm	
CE	1/1/1/2	
Shade Variable	Ajustable (DIN 9-13)	
Power Supply	Solar Panels and 1 replaceable batt CR 2032	
On / Off	Automatic	
Sensitivity	Adjustable (LOW) (HIGH)	
Delay Time	0,1s MIN 1,0s MAX	
Operating Temp.	- 10°C a + 60°C	
Weight	0,8 Kg	

FILTER PARTS

FRONT PART



OPTIMATIC 100



- 1- Shade number markings according to the CE standard classification
- 2. Sensitivity adjustment.
- 2- Delay adjustment.
- 4- Replaceable batt CR 2032.

All filters are classified as indicates the CE Certificate for each model. The first number indicates the DIN protection level of the filter when it is open (light state). The second number indicates the DIN protection level of the filter when it is closed (dark state), showing the minimum and the maximum levels of protection. The symbol between both numbers tells us if the adjustment of the DIN level is manual or automatic.

The following three numbers indicate the optical class, diffusion of light class and variation of luminous transmittance class according to related European classification.

The further three numbers indicate the EU Directives with which the filter complies.

FILTER ADJUSTMENT

OPTIMATIC filters are provided with Automatic adjustment.

DIN level adjustment is dependant upon type of welding and current/amperes used. DIN level is the shade level of the filter during the welding process.

Sensitivity

Adjusts the amount of light needed to cause the lens to change from clear to dark state.

OPTIMATIC models have low light sensitivity in the LOW position and high light sensitivity in the HIGH position.

Delay

Adjusts the speed at which the welding filter returns to clear state once the welding process is over.

For the OPTIMATIC 100 models the DELAY you can regulate from 0,1s to 1,0s.

Filter functions

For some filters ,two modes of operation can be selected : welding or grinding.

Grinding mode: Used for metal grinding applications. In this mode the shade function is turned off.

The shade is fixed in the light state that all owing a clear view to grind a weld with the helmet providing face protection.

Grind mode is intended for Grinding not for welding.
Before restarting welding, the knob should be set back to the“ Weld ”position.

Welding mode: Used for most welding applications. In this mode the shade function is turned on.

When it optically senses a welding arc, please select a suitable shade level, delay time and sensitivity as required.

PROTECTION LEVEL ADJUSTMENT

In case of having a filter with adjustable DIN to fit the degree according to the application of which we are wanted to protect. To see the following table.

FILTERS SELECTION TABLE ACCORDING TO APPLICATION

CURRENT IN AMPS	PLASMA CUT	COATED ELECTRO- DES	MIG HEAVY IRONS	MIG LIGHT ALLOYS	TIG	MAG	ARC / AIR	PLASMA WELD
0,25					TONE 8	TONE 8		TONE 2,5
0,5								TONE 3
0,75								TONE 4
1								TONE 5
2,5								TONE 6
5								TONE 7
10					TONE 8			
15					TONE 9			
20					TONE 9			
30					TONE 10			
40		TONE 11						
60		TONE 11	TONE 10		TONE 11	TONE 9		TONE 12
80	TONE 11		TONE 12		TONE 10			
100			TONE 11		TONE 11	TONE 10	TONE 13	
125			TONE 12		TONE 12	TONE 11		
150					TONE 12	TONE 12		TONE 11
175					TONE 12	TONE 12		TONE 12
200	TONE 13	TONE 13		TONE 13		TONE 13		
225		TONE 13	TONE 13	TONE 14				
250			TONE 13	TONE 14				
275			TONE 13	TONE 13		TONE 14	TONE 15	
300	TONE 14	TONE 15						
350	TONE 15	TONE 15						
400	TONE 16	TONE 16						
450		TONE 17	TONE 17	TONE 17	TONE 17	TONE 17		
500		TONE 18	TONE 18	TONE 18	TONE 18			

ADJUSTING HEADGEAR

Headgear top (Position W)

Adjusting headgear for proper depth on the head to ensure correct balance and stability.

Headgear Tightness (Position Y)

Pressing the adjusting knob located on the back of the headgear and turn left or right to a desired tightness.

Distance Adjustment (Position Z)

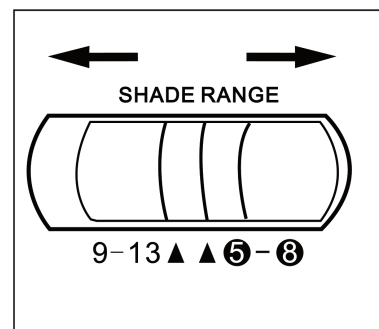
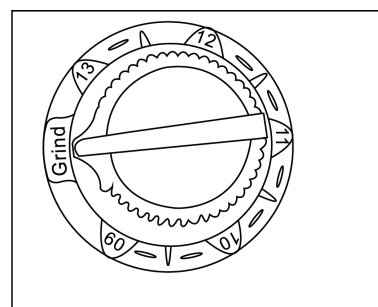
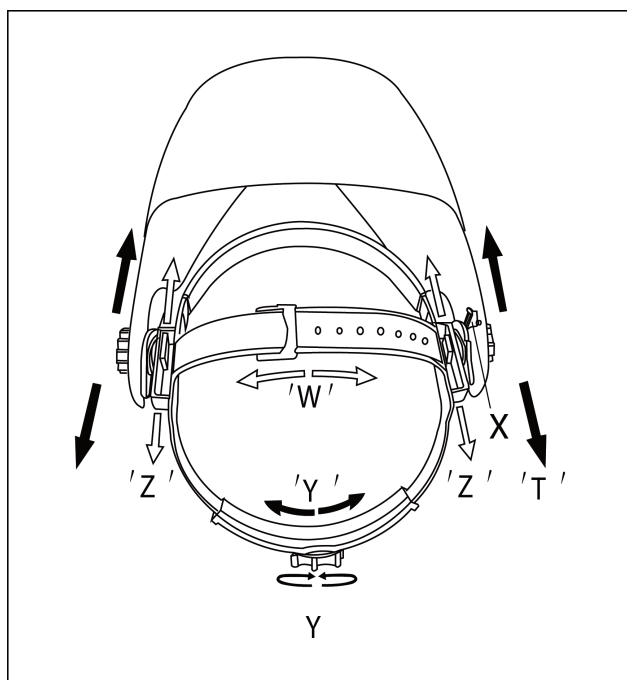
Adjust the distance between the face and the lens by loosening both outside tension knobs and press inward to free from adjustment slots. Move forward or back to desired position and retighten.

(Both sides must be equally positioned for proper vision)

Angle Adjustment (Position X)

Four pins on the right side of the headgear top provide adjustment for the forward tilt of the helmet.

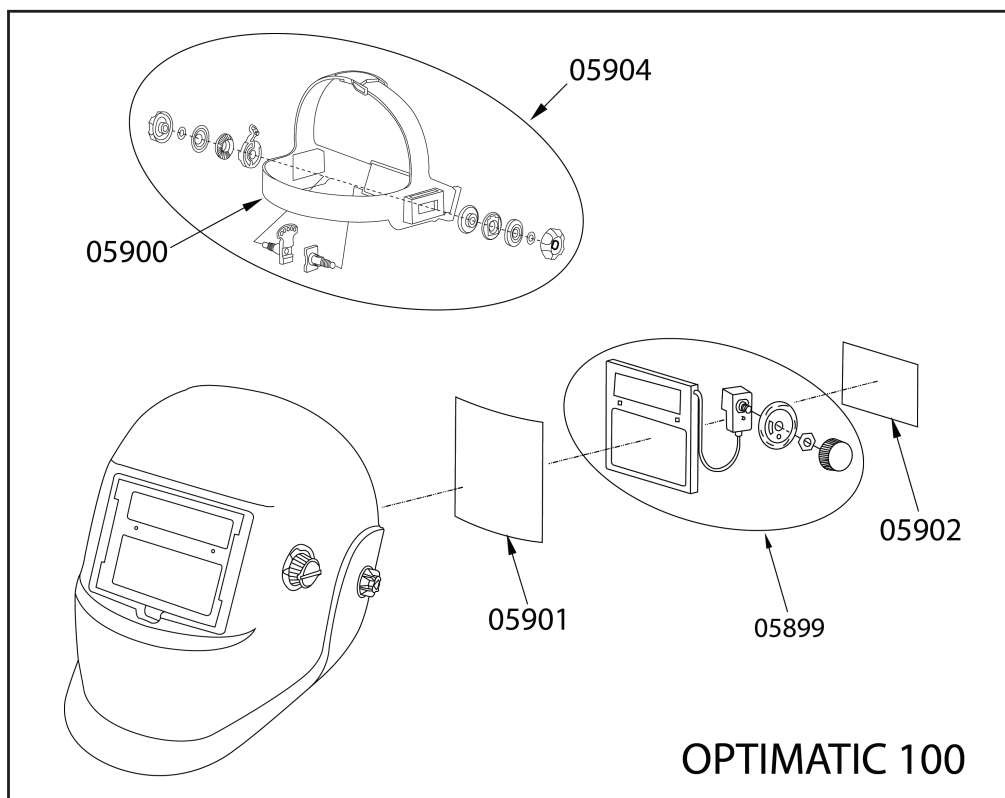
To adjust, loosen the right outside tension adjustment knob then lift on the control arm tab and move it to the desired position and retighten tension adjustment knob.



POSSIBLE ANOMALIES

PROBLEM	POSIBLE SOLUTIONS
Irregular filter darkening	The regulating tape has been incorrectly positioned or the helmet angle is not appropriate to your vision.
The filter does not darken or it flashes (Automatic filters)	The frontal filter protector is damaged or is unfit for use.
	The sensors are dirty.
	The welding current is too low.
Slow filter response (Automatic filters)	The working temperature is too low.
Insufficient vision	Frontal filter protectors or rear protectors are dirty.
	Incorrect protection range.
	Insufficient light in the working.

EXPLODED DIAGRAMS





DECLARATION OF CONFORMITY
DECLARACION DE CONFORMIDAD
DECLARACIÓ DE CONFORMITAT
DECLARATION DE CONFORMITE
DECLARAÇÃO DE CONFORMIDADE
KONFORMITATSERKLARUNG

SOLTER SOLDADURA, S. L.

We hereby state that the machine type: / Se declara que el aparato tipo: / És declara que l'aparell tipus: / On ne déclare que la machine type: / Se declara que el aparato tipo: / Die Maschine Typ:

ADF-510G / ADF-200F

Serial Number: / Número de serie: / Nombre de sèrie: / Numéro de série: / Número de série: / Seriennummer:

ALL NUMBERS

Is in compliance with the directives: / Es conforme a las directivas: / Es conforme a les directives: / Il est conforme aux directives: / É de acordo com as directivas: / Entspricht den Richtlinien:

2006/95/CE (LVD), 2004/108/CE(EMC), 2002/95/EC (ROHS)

And that the following standards apply: / Y que se han aplicado las normas: / I que s'han aplicat les normes: / Et qu'on a appliqué les normes: / E as regras foram aplicadas: / Folgende Normen kamen zur Anwendung:

EN 60974-1, EN60974-10

Technical Department
Campdevàdol, 7/2013



SOLTER soldadura, s.l.

SOLTER SOLDADURA, S.L. NIF: B- 17245127
CTRA. NACIONAL 260, KM 122
17530 CAMPDEVANOL (GIRONA) SPAIN

CERTIFICADO DE GARANTÍA

Exija su cumplimentación al adquirir el aparato:

SOLTER SOLDADURA S.L. garantiza a partir de la compra y durante 2 años, el artículo contra todo defecto de fabricación o de materiales.

En caso de avería, la garantía cubre las piezas de recambio y la mano de obra, y el titular del equipo disfrutará en cada momento de todos los derechos que la normativa vigente conceda. La garantía no cubre averías debidas a un mal uso, mal trato o deterioro accidental, así como aquellos aparatos manipulados o reparados por una persona ajena a los Servicios Oficiales SOLTER.

ESPAÑOL: Para detalles de garantía fuera de España contacte con su distribuidor local.

ENGLISH: For details of guarantee outside Spain, contact your local supplier.

FRANÇAIS: Pour les détails de la garantie hors d'Espagne, contacter votre fournisseur.

DEUTSCH: Einzelheiten über die Garantie Außerhalb des Spanien teilt ihnen gem ihr örtlicher Vertrieb mit.

PORTUGÊS: Para informações sobre garantia, fora de Espahna, contacte o seu formecedor.

SOLTER SOLDADURA S.L.