



WILKINSON STAR

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User Instruction Manual

JH-HD

Jasic JH-HD User Manual

Information manual for the Jasic JH-HD welder protective helmets complying with Par.1.4 of Appendix II of the EC regulations. The Jasic JH-HD welding helmets are high quality products that contribute to the comfort and safety of the welder. The Jasic JH-HD welding helmet may be used only in connection with arc welding. Table 1 below shows how to choose the most suitable shade level:

Welding process Or related techniques	Current internally in amperes																						
	0.5	1	2.5	5	10	15	20	30	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450
E manual Flux core electrodes Fluxed stick electrodes								9	10	11			12			13			14				
MIG / Metal-inert-Gas Argon (Ar/He) Steels, alloyed steels, Copper & its alloys etc.								10		11	12			13			14						
MIG / Metal-inert-Gas Argon (Ar/He) Aluminium, copper, nickel And other alloys.								10		11	12	13		14	15								
TIG / Tungsten-inert Gas Argon (Ar/H ₂) (Ar/He) All weldable metals such as: steels, aluminium, Copper, nickel and their alloys.								9	10	11		12		13									
MAG / Metal-active Gas(Ar/Co ₂ O ₂) (Ar/Co ₂ /He/H ₂) Construction Steel, hardened & tempered steels Cr-Ni-steel, Cr-steel & other alloyed steels.								10		11	12	13			14	15							
Electric arc compressed air joining (Melt joining) carbon electrodes (O ₂) Flame grooving compressed air (O ₂)								10			11	12	13	14	15								
Plasma cutting (fusion cutting) All weldable metals see WIG Centre and outer gas: Argon (Ar/H ₂) (Ar/He)								11			12		13										
Plasma cutting (Fusion cutting) Micro-plasma welding Centre and outer gas: Argon (Ar/H ₂) (Ar/He)	2.5	4	5	6	7	8	9	10	11	12	13		14			15							

Depending upon the application conditions, the next highest or next lowest protection level can be used.
The darker fields correspond to those areas in which the corresponding welding process cannot be used.

Table 1

Information

The Jasic JH-HD welding helmet gives reliable protection for the eyes whilst electric arc welding. It offers permanent protection against UV/IR rays, heat & sparks in any state from clear to dark. The protection shades of the Jasic JH-HD welding helmet have been chosen to avoid eye damage caused by the welding arc.

Do not look directly at welding rays with unprotected eyes when the arc strikes. This can cause a painful inflammation of the cornea and irreparable damage to the lens of the eye leading to cataracts.

The Jasic JH-HD helmet allows the welder to see the point of arc strike more precisely. This leads to real time saving. The helmet does not have to be flipped up and down during welding allowing both hands to be kept free. The helmet is lightweight thus reducing user fatigue.

Range of application:

The Jasic JH-HD welding helmet can be used for the following applications:

- Electrode
- MIG
- MAG
- TIG (>5 A)

It is not suitable for use with laser systems and oxy-acetylene (gas welding) applications.

Potentially not suitable for overhead welding, a risk assessment should be carried out to determine suitability

for the application.

When pulse welding aluminum and stainless steel, it is essential that the welding helmet is kept a minimum distance of 300mm from the weld and where welding runs are greater than 5 minutes it is recommended that a heat reflective spatter lens be fitted (HR BL07). Failure to observe these criteria may invalidate the product warranty.

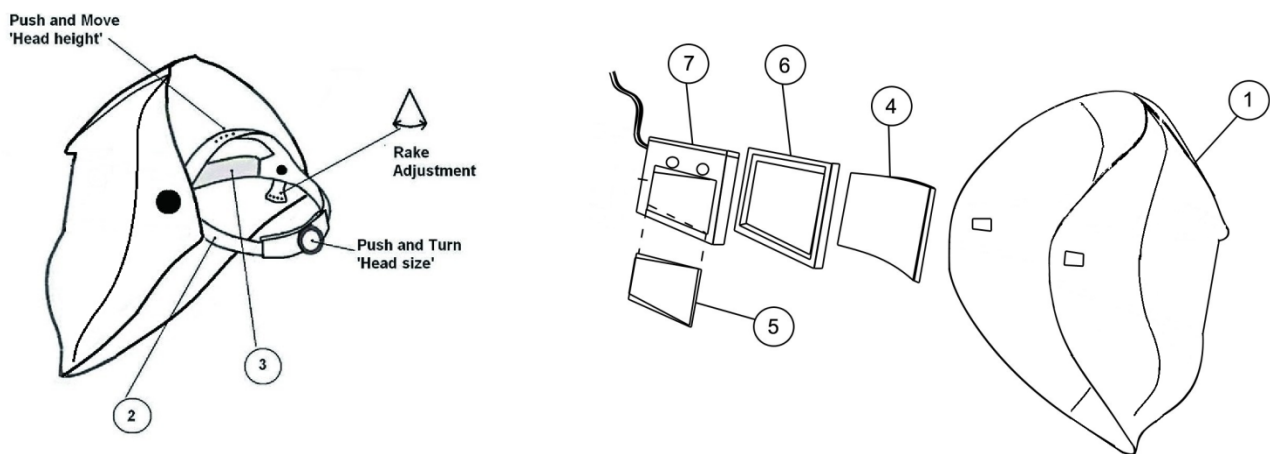
The welding filter must not be used for any other purpose other than welding. It should never be used as sunglasses whilst driving as this could lead to incorrect identification of traffic light colours.

The welding filters operate well under extreme low lighting and very strong sunlight.

Operation

Adjustment of headgear:

The Jasic JH-HD welding helmet is equipped with a comfortable headgear that can be adjusted in three different ways.



Servicing and maintenance

The Jasic JH-HD welding helmet should not be dropped. Do not place heavy objects or tools (hammers etc.) on or inside the helmet so as not to damage the electro-optical filter.

Always make sure that the helmet is equipped with an outside and inner lens (in front of the filter on the outside and on the inside behind the filter). These protection lenses must be replaced if damaged in any way (see overleaf). They are consumables and should be checked and replaced regularly.

The filter should be cleaned when changing the protection lenses. This can be done by any of the following ways:

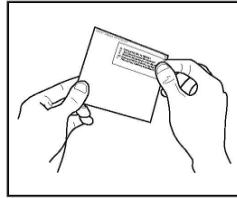
- Wipe with a clean, dry piece of cloth
- Clean with a piece of smooth cloth moistened with pure alcohol
- Clean with a commercial disinfectant
- If used properly the welding filter requires no further maintenance during its lifetime

If a filter should be replaced on the Jasic JH-HD welding helmet, use exclusively certified products (DIN-CE marks). Only Wilkinson Star welding filters can be used in these helmets.

The filter itself contains no special or toxic products and can be disposed of in the same way as other electronic devices.

Replacing the outer spatter lens:

Ensure that the helmet is always equipped with an outside lens (before the filter, on the outside of the helmet) and an inner lens (behind the filter, inside the helmet). These protection lenses must be replaced if broken, damaged or covered with welding spatter to such an extent that vision is impaired. Inner & outer lenses are consumables and must be replaced regularly with certified Wilkinson Star spare parts (CE marked).



Before using the Jasic JH-HD helmet for the first time, the protective films must be removed from the front spatter lens. The films cannot be removed from the front spatter lens with the lens in place. Please follow the instructions below to remove the spatter lens.

Inserting and removing a new protection lens:

To insert / remove the front protection lens – from the front of the helmet, simply pull the lens out from the bottom finger aperture. Insertion is from the front – just ensure the new lens is inserted correctly into the slots.

ADF settings:

To allow the filter to switch, the sensors on the front of the filter must not be covered. The filter then switches to the dark state when the arc strikes and to the clear state when it stops. The filter switches to the light state when the welding arc stops.

How to set the shade:

Select the shade by pressing the shade button. The shade number is indicated as a number in the centre of the display.

The most suitable setting can be found on the chart in this manual or chosen using your experience. This setting can also be made manually during the welding process.

Higher shade=darker Lower shade=clearer

Before using the filter we recommend the following adjustments are made:

Turn the sensitivity to the max setting by pressing the sensitivity button (each press increases sensitivity). Depending upon the surrounding light the filter will switch to the dark state or will flicker (if the surrounding light is very low, the filter may not switch to the dark state). Press the sensitivity button until the filter switches to the clear state. Sensitivity is indicated as bars in the left corner of the display.

The filter is now set to its optimum sensitivity (according to the surrounding light conditions).

Setting the delay; The clearing delay can be adjusted manually by pressing the delay button between a fast clear (0.1 sec) and a slow clear (1.0 sec) this is achieved by pressing the button until the display shows desired delay.

Spare parts for the Jasic JH-HD Welding Helmets

<u>Diagram Ref.</u>	<u>Part Number</u>	<u>Description</u>
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1	-	Helmet shell
2	TK04	Longitudinal adjustment head gear
3	SB	Sweat band
4	CR08	Front cover lens
5	BL07	Inside cover lens
6	-	Retainer cradle
7	-	ADF

Items without a part number are not available as spare parts.

Filter testing:

Before using the welding helmet, the auto darkening filter (ADF) and helmet needs to be checked according to the following procedure:

Check outer protection lens is clean and can be seen through.

Ensure the sensors are covered in any way and are clean.

Once these checks have been carried out you can now test the ADF.

Select the darkest shade (shade 13) by pressing the shade button shade indicated as a number in the centre of the display and set the sensitivity to the highest setting. Now point the sensor towards a light source, such as, an overhead light, lamp etc. The ADF should now switch to the dark state (please note if the ADF is stored in a dark area away from light, it may need to be left out in strong light for 20 minutes to absorb power. After 20 minutes, if the ADF still does not react, there is an issue with the sensor. Once the filter is in the dark state you can check the shade variation is functioning correctly, simply turn the shade knob anti-clockwise. By doing this, the shade should get lighter. If the shade does not appear to alter then you have an issue with the shade variation.

To test the delay function set the delay to the maximum setting. Now move the filter sensor away from the light source. It should take 1 second to return to the light state. Now alter the delay setting to the minimum and repeat the process, the time taken to return to the clear state should be 0.1 second. If the ADF does not react in this way then there is an issue with the delay function.

To test the sensitivity set the sensitivity to the minimum setting and point the ADF at the light source you used to test the other functions (if filter switches to dark state move away until the filter returns to clear state). Slowly turn the sensitivity clockwise until the filter switches to dark state (if it does not then move closer to the light until it reacts). If the ADF does not react then there is an issue with the light sensors.

If any of the functions fail during test or in use then please do not use the ADF and contact your local distributor.

Warning

The auto darkening filters fitted in the Jasic JH-HD helmets are not waterproof and will not work properly if they have been in contact with water.

Welding helmets and filters only resist a certain amount of heat. Please do not place them near naked flames or hot work areas etc.

Operating temperature of electronic filter minus 5°C to plus 55°C.

Materials that may get in contact with the wearers skin could cause allergic reactions to susceptible individuals.

Certification and control labels

The welding filters are tested for eye protection by the following notified body: ECS GmbH Obere Bahnstrasse 74, 73431 Aalen Germany, notified body 1883 that provides approval and continual quality system under the control of the European Commission, the German Ministry for Work and the Central Office of the Provinces.



European Conformity mark.

This confirms that the product fulfils the requirements of the Directive 89/686/EWG

Notified Body ECS GmbH
Registration Number 1883
Obere Bahnstrasse 74
73431 Aalen
GERMANY

ADF Marking Explanation:

CE 4/9-13 1/1/1/2/379

4 - Light state scale number
9 - Lightest dark state scale number
13 - Darkest state scale number
1 - Optical class
1 - Diffusion of light class
1 - Variation in luminous transmittance class
2 - Angle of Dependence classification
379 - Number of the standard

**WILKINSON STAR
SHIELD DRIVE
WARDLEY INDUSTRIAL ESTATE
WORSLEY
MANCHESTER M28 2WD**

**TEL 0161 793 8127
www.wilkinsonstar.com**

Wilkinson Star operates a policy of continuous improvement. We therefore reserve the right to make changes and improvements to any of our products without notice.