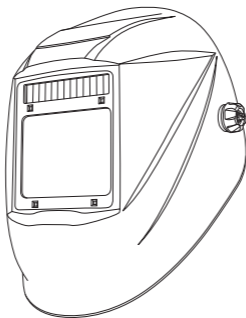


Automatic Darkening Welding Helmet User's Manual




System Description


The automatic darkening welding Helmet is used for protecting the wearer's eyes and face from sparks, spatter, strong light, ultraviolet radiation and infra-red radiation resulting from certain arc or gas welding processes.


Before use, please carefully read this user manual to understand the instructions for use of and methods for replacement of relevant parts. If you fail to follow the requirements for use in this user manual or fail to correctly wear the welding Helmet, the wearer's health will be undermined and severe or critical injuries may be caused.


Please properly and correctly use this product in compliance with local regulations and by referring to all information provided.


Please pay special attention to the warning information marked with 


Safety Warnings

 1、 This product can be only used in conjunction with parts listed in this user manual under the conditions limited by technical parameters.

 2、 This product is not suitable for laser welding and cutting operation which may cause visual impairment or permanent injury to the eyes.

 3、 This product is not designed for overhead welding or overhead cutting operation which may cause a combustion risk due to molten drops.

 4、 Materials of this product in contact with skins may cause skin allergy to a small percentage of the population. In the event that this is found, please stop using this product.

 5、 Replacement parts and films not included in this user manual or coating or other renovation of the welding mask severely impairs the protective function of this product and makes the warranty void or causes the performance and protective class of this product to be inconsistent with the certifications.

Technical Specifications

ADF Model	HB555
Optical Class:	1/1/1/2
Active Viewing Area:	100mm*80mm
Switching Time:	0.1ms
Light State Shade:	DIN3.5
Dark State Shade:	DIN5-9/9-13
UR/IR Protection:	Shade DIN16
Power ON:	Automatic
Battery Type:	CR2032*2(Replaceable)
Battery Capacity:	420mAH
Low Battery Indicator:	LED Indication
Arc Sensors:	4 pcs
Grind:	Yes
Low Battery Indicator:	Yes
Battery Capacity Test:	Yes
Operating Temperature:	-5°C - +55°C
Storage Temperature:	-20°C - +70°C

Applicable Processes



MMA



MIG/MAG



TIG

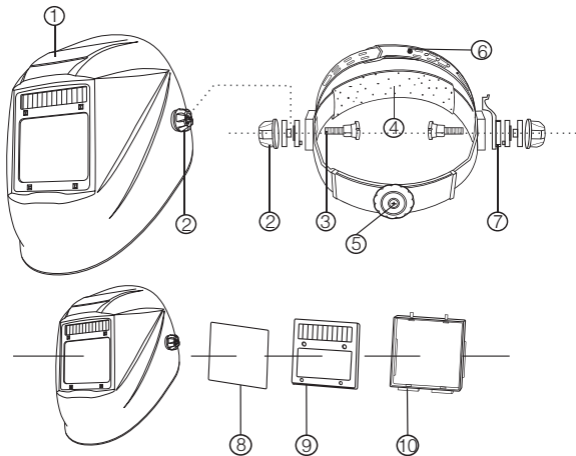


PAW



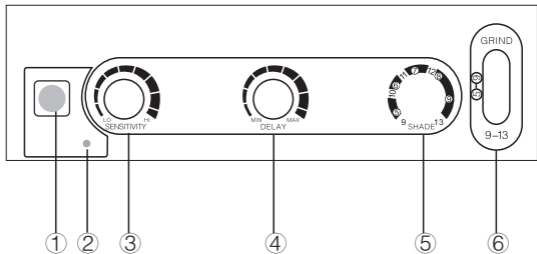
GRIND

Component Designations



1. Helmet shell; 2. Headband fixing knob; 3. Connection rod screw; 4. Sweatband; 5. Headband adjusting knob; 6. Headband adjusting buckle; 7. Angle adjusting buckle; 8. External protecting sheet; 9. Automatic darkening shield; 10. Darkening shield retainer;

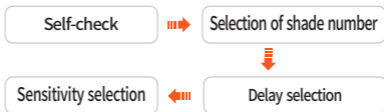
Component Designations



1. Self-check button;
2. Low battery indicator;
3. Sensitivity adjusting knob;
4. Delay adjusting knob;
5. Shade number knob;
6. Grind and Shade number switch

Instructions for USE

Selection Of Parameters Of Darkening Shield



1、 Self-check

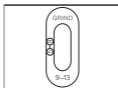
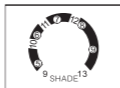
To check if the power is on and the equipment functions normally. Press the "Self-check" button lightly to observe that the darkening shield turns from bright to dark, indicating that the equipment functions normally. If there is no change, then the batteries may need to be replaced.



2、 Selection of shade number

Welding function: please refer to (Fig. 1) depending on the type of welding process and reasonably select the appropriate shade number based on the distance between the welding mask and the workpiece to be welded.

Grinding function: Pull switch select to "GRIND".



Process	Current(A)																				
	5	10	15	30	40	60	70	100	125	150	175	200	225	250	300	350	400	450	500	600	
MMA				9					10		11		12			13			14		
MAG				10			11		12		13				14						
TIG	9		10		11		12				13			14							
MIG				10				11		12		13		14							
PAC				11				12				13			14						
PAW	9		10		11		12				13				14						

(Figure 1)

3、Sensitivity selection

Adjust the sensitivity of the mask to the intensity of the arc light.

High sensitivity: this is suitable when the current is small and the arc light is weak.

Low sensitivity: this is suitable when the current is great and the arc light is strong or there is interference by strong light on the site or the distance between the mask and the weld is too small.



4、Delay selection

Long delay: this is suitable when welding is being performed with great current.

Short delay: this is suitable when spot welding is being performed.

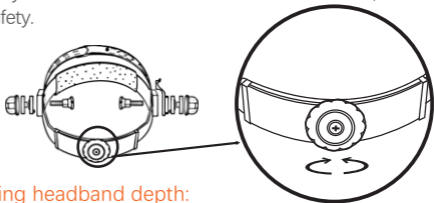


Instructions for USE

Headband Adjustment

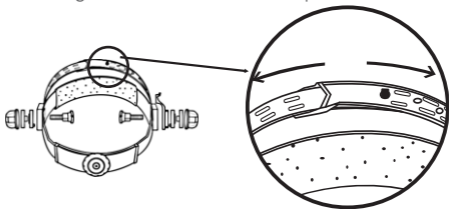
1、 Adjusting headband size

Rotate the handle to adjust the comfortability of the headband. Rotating the handle clockwise tightens the headband, while rotating the handle counterclockwise loosens the headband. Appropriately adjust the headband size to ensure the comfortability and that the headband will not fall, thereby ensuring safety.



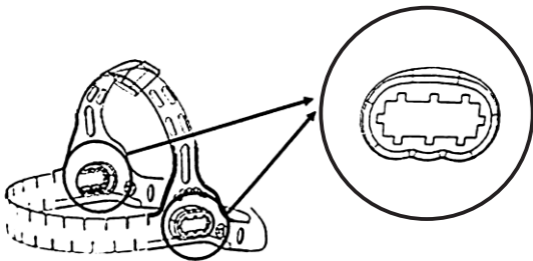
2、 Adjusting headband depth:

Adjusting the strainer on the top of the headband to different positions can adjust the depth of the headband. Adjust the wearing comfortability and the relative position between the eyes and darkening shield to ensure the best performance.



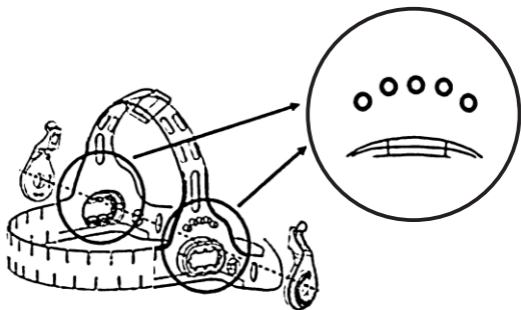
3. Adjusting the distance between the headband and darkening shield

Loosening the out-most headband knob can adjust the three-level buckle positions such as Near, Moderate and Far as shown in the figure. The user may make a flexible choice based on the distance between the eyes and darkening shield after he or she wears the welding mask to ensure the best performance.



4、 Adjusting the upward viewing angle

Loosening the out-most headband knob can adjust the 5-level buckle positions as shown in the figure. The user may make a flexible choice based on the upper and lower flip positions on the welding mask (the headband knob should be loosened or tightened as appropriate), thereby ensuring that there is the best viewing angle between his or her eyes and the darkening shield.

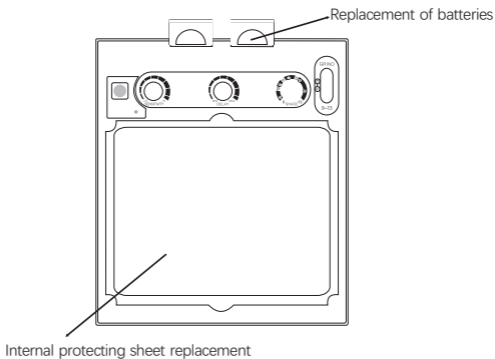


Replacement of Components

1. Replacement of batteries

When the low battery indicator on the darkening shield goes on, this indicates that the battery level is low and the batteries need to be replaced with new ones.

When you press the self-check button on the darkening shield and the darkening shield does not change, the batteries need to be replaced with new ones.



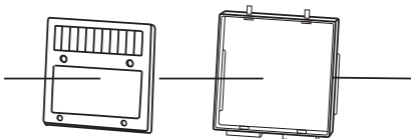
2、 Replacement of internal and external protecting sheets

Internal protecting sheet replacement: the internal protecting sheet is located in the internal clamping position of the screen of the darkening shield. Before replacement, you need to remove the internal protecting sheet from the buckled position.

External protecting sheet replacement: the external protecting sheet is located between the mask shell and darkening shield. Before replacement, you need to remove the darkening shield.

3、 Replacement of darkening shield

The method for fixing the darkening shield varies depending on the model of the welding mask. Please disassemble the welding mask by applying the specific method for the real product. A model can be disassembled by the buckle disassembly method. Another model can be disassembled by screw disassembly method.



After Service

Please properly keep the invoice or relevant vouchers of the product that you purchase as the important proof for the warranty services. Please consult local dealer for relevant after-sales service policies.

Warranty Card

Product Model		Serial Number	
Purchase Store		Purchase Date	