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Auto-Darkening Welding Helmet Shade Range 9-13

Installation, Operation and Maintenance Manual



WARNING

1. It is your job to keep yourself and others from hazards associated with welding. To do this you must familiarize with safety rules for ARC welding, handling high-pressure gas cylinders and general safety rules.
2. Arc welding gives off fumes, which can cause potential health hazard. Always keep adequate ventilation.
3. Never do welding work without adequate eye protection.
4. Always wear protective safety equipment when welding.

OWNER'S RESPONSIBILITY

The owner and/or operator shall understand these operating instructions and warnings before operating the filter. If the user knows little English, this instruction shall be read to and discussed in the operator's native language by the purchaser/owner and make sure that the operator comprehends its contents.

BEFORE WELDING

- * Before using, read the manual carefully and make sure you know all what it has shown.
- * Check to see if the auto-darkening welding helmet is suitable for the work you intend to do and make sure all parts and components are in proper order and ready for work.
- * Make sure that the power supply or the auto-darkening welding helmet is correct and ready for work.
- * Adjust the headgear according to your head size.
- * Set dark shade state, according to Shade Guide Chart, to correct shade number following Dark Shade Setting. Make sure the shade number you select is correct and suitable for the job.

WARNING: Make sure that the power supply is correct and ready to work. If battery is low, replace with new one immediately.

PRECAUTION

- * Always check the front cover lens of the Auto-darkening filter, and make sure that they are clean and no dirt is covering the sensor on the front of the filter cartridge. And also check if the Auto-darkening welding filter is secured in place.
- * Inspect all parts of the Auto-darkening welding filter, replace if it is worn or damaged, scratch, crack or pit can cause severe personal injury.
- * Adjust shade state to fit the welding work by turning the knob (or setting button for digital display).
- * Adjust the headgear or headband to fit your head size.

DARK SHADE SETTING

1. Carefully select shade number range according to the welding you want to do. The smaller the welding current, the lower the shade number, vice versa.
2. Accurate shade number is adjusted by the shade-adjusting Knob B outside the helmet. Turn knob B, the shade number can be set manually between 9 to 13.

WARNING: Make sure that the shade number range is correct and the shade you set is suitable for the welding process.

SPECIFICATION

Filter size	110×90×9mm	Power supply	Solar cells & Lithium batteries
Viewing area	98×40mm	Power on/off	Fully automatic
Light shade number	DIN.3 or DIN.4	Rate of UV transmittance	313-365nm<3.4×10 ⁻⁸ %
Dark shade range	9-13 variable from bright to dark state	Rate of IR transmittance	780-1300nm<0.0027% 1300-2000nm<0.0097%
Switch time	1/25000s	Eye protection	EN379 1/2/1
Recovery time	0.6s from dark to bright	Face protection	EN175
Arc sensor	2 pieces	Net Weight	420g±10g

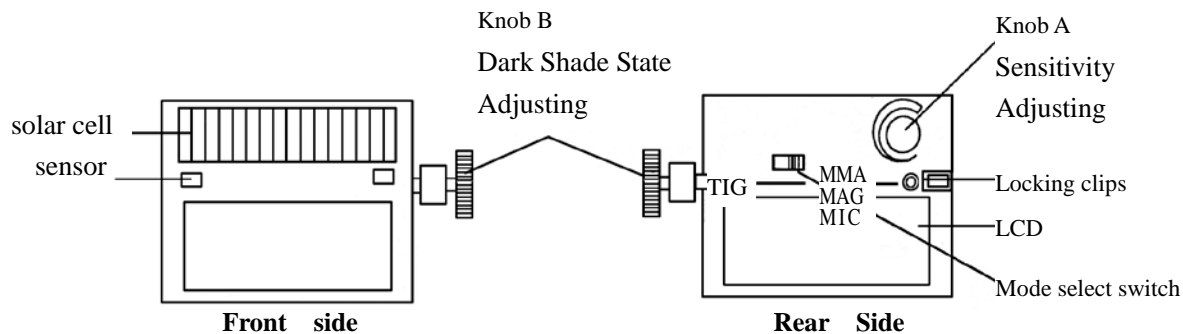
OPERATION IUSTRCTIONS

1. Taking up the welding helmet, the power will automatically switch on.
2. Put on the helmet. At this moment, you can see work piece and other things clearly.
3. Start your welding work and the view window will turn to the intended dark shade state you set immediately. If it fails, stop at once and check. Otherwise turn the shade-adjusting knob B to correct the shade state accordingly. When every thing is ok, you can continue your welding work.

WARNING: Shade number shall be correctly set for particular welding.

4. When do TIG job, press the Mode select switch to left (TIG side) and adjust knob A to desired state for welding.

WARNING: The knob A is only active when the Mode select switch is at TIG side.



WARNING: If the welding helmet is not used and/or stored, always keep the helmet with filter sensors downward. Failure to do this may cause earlier batteries exhaustion.

WARNING:

- * This Auto-darkening Welding Helmet is not suitable for laser welding.
- * This Auto-darkening Welding Helmet and the Auto-darkening filter shall never be placed on hot surfaces.
- * Never open or tamper with the Auto-darkening filter.
- * This Auto-darkening Welding Helmet will not protect against severe impact hazards, including fragmenting grinding disks, and they must never be used for protection purpose.
- * This Auto-darkening Welding Helmet will not protect against explosive devices or corrosive liquids. Do not make any modifications to either the filter 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.
- * Should the Auto-darkening Welding Helmets not darken upon striking an arc, stop welding immediately and contact your authorized technician.
- * Never immerse the filter in water.
- * Never use any solvents on filters' screen or helmet components.
- * Use only at temperatures: $-5^{\circ}\text{C} \sim +55^{\circ}\text{C}$ ($23^{\circ}\text{F} \sim 131^{\circ}\text{F}$)
- * Storing temperature: $-20^{\circ}\text{C} \sim +77^{\circ}\text{C}$ ($-4^{\circ}\text{F} \sim 158^{\circ}\text{F}$)
- * Protect filter from liquid and dirt contact.
- * Clean filters' surfaces regularly, do not use strong cleaning solutions. Always keep sensors and solar cells clean using a clean lint-free tissue/cloth.
- * Regularly replace the cracked/scratched/pitted Front Cover Lens. Severe personal injury could occur if the user fails to follow the aforementioned warnings, and fails to follow the operating instructions.

MAINTENANCE

WARNING:

Replacement of any components and/or parts shall be original from the manufacturer.

User shall not uninstall the auto-darkening welding filter. The filter must be removed by the local dealer or qualified personnel. Otherwise it will cause the warranty invalid.

* Replacing the Cover Lens if it is damaged (cracked, scratched, soiled or pitted).

1. Front cover lens.
 - 1.1 Remove the front filter-retaining frame by lifting the lower end.
 - 1.2 Remove the front cover lens.
 - 1.3 Replace a new front cover lens.
 - 1.4 Install the filter-retaining frame again.
2. Inside cover lens.
 - 2.1 Remove the inside cover lens.
 - 2.2 Replace with a new one by first inserting one end, bending it to insert the other end and then pressing down to position.

* Cleaning The Auto-darkening Welding Filter with a clean lint-free tissue or cotton cloth.

* Don't immerse the lens in water or any other liquid. Never use abrasives, solvents or oil based cleaners.

* Don't try to open the Auto-darkening Welding Filter.

STORAGE:

* The helmet and the auto-darkening welding filter shall be stored in dry and well-ventilated place.

* Do not exposed to direct sunshine.

* Do not hit, click, scratch or squeeze the helmet.

* Do not dirty the welding filter.

COMPLETE HELMETS & LENSES (SHADE SETTING INSIDE OR OUTSIDE)

1. Outside Protection Plate
2. Lens
3. Potentiometer knob
4. Inside Protection Plate
5. Shell (welding mask)
6. 2× Round Washer
7. Time-delay Return Switch
8. 2× Slid-bar
9. 3× Square Washer
10. Adjustable Limitation Washer
11. 2× Block Nut
12. Sweatband
13. Front Headband
14. Adjustable Headband
15. Adjustable Knob

