

# Auto-Darkening Filter Welding Helmet User's Manual

## WARNING: Read and understand all instruction before using!

This Auto-Darkening Filter Welding Helmet is designed to protect the eyes and face from sparks, spatter, and harmful radiation under normal welding conditions. Auto-darkening filter automatically changes from a light state to a dark state when an arc is struck, and it returns to the light state when welding stops.

Auto-Darkening Filter Welding Helmet comes ready for use. The only thing you need to do before your welding is to adjust the position of the headband and select the correct shade number for your application.

### BEFORE WELDING

- Check the front cover lens to make sure that they are clean, and that no dirt is covering the two sensors on the front of filter cartridge. Also check the front/inside cover lens and the front lens retaining frame to make sure that they are secure.
- Inspect all operating parts before use for signs of wear or damage. Any scratched, cracked, or pitted parts should be replaced immediately before using again to avoid severe personal injury.
- Check for light tightness before each use.
- Select the shade number you require at the turn of a shade knob ( Seeing the Shade Guide Table No.1 ). Finally, be sure that the shade number is the correct setting for your application.
- Adjust headband so that the helmet is seated as low as possible on the head and close to your face. Adjust helmet's angle when in the lowered position by turning the adjustable limitation washer.

### DARK SHADE NUMBER SELECTION

The shade number can be set manually between 9 - 13. Check the Shade Guide Table to determine the proper shade number for your application. Select a shade number by turning the shade knob until the arrow points to the required setting (See Shade Guide Table No.1).

### PRODUCT FEATURES

- This model is designed & equipped with a special turnover (up & down) headband mechanism. When welder turns over the helmet to welder's head top, the headband mechanism makes helmet's gravity center to be more lower, and be coincided with the center of welder's head. The design of welding helmet greatly lowers the fatigue of welder's head (& neck) and make welder feel more comfortable than before while at working.
- At the moment of starting welding, it automatically changes filter screen from clear to dark in only 1/30,000 sec.
- Dark to clear delay adjustment: Operator can vary the time for the filter to return to clear state.
- Outside sensitivity adjustable can make the operators more convenient while operating.

-At the moment of stopping welding, the filter screen automatically changes from dark to light state according to your per-set delay time. ( Turning the time-setting switch to the "short" position--then, it can vary at 0.25s ~ 0.35s; Turning the time-setting switch to the "middle" position--then, it can vary at 0.35s ~ 0.5s; Turning the time-setting switch

### PRODUCT WARRANTY!!!

The manufacturer's sole obligation under this warranty is limited to making replacement or repairs, or refund of the purchase price for the products with defects.

This warranty does not cover product malfunctions or damages resulting from products tampering, misuse or abuse. Please follow the operating instructions carefully to maintain this warranty. Failure to do so will void the warranty. The manufacturer shall also not be hold liable for any indirect or consequential damages arising out of the use of this product.

A copy of the original receipt and serial number (located on filter cartridge's surface) are required as proof of purchase. Please carefully maintain this warranty well. This warranty is non-transferable and extends only to the original buyer purchasing the products directly from the manufacturer or through its authorized distributors, dealers, or agents.

Additionally, All auto darkening filter welding helmet are designed with three necessary special mechanism:

- A fine-turning mechanism for adjusting the incline angle between welder's eyes and filter lenses.
- A special mechanism for regulating the distance between welder's eyes and filter lenses.
- A special headgear mechanism for adjusting the up & down vertical distance between welder's eyes and filter lenses.
- The gravity center of helmet can be automatically adjustable. As a result of above mechanism action, The welder surely feels more comfortable than before, and are in working with more high proficiency at any time.



SHADE GUIDE TABLE (No.1)

Welding Process	Arc Current (Amperes)										
	0.5	2.5	10	20	40	80	125	175	225		
SMAW					9	10	11				
MIG (heavy)						10	11				
MIG (light)						10	11		12		
TIG/GTAW			9		10	11	12			13	
MAG/CO <sub>2</sub>					10	11	12				
SAW							10	11			
PAC							11			12	
PAW		8	9	10	11	12			13		

Note: \* SMAW-Shielded Metal Arc Welding.  
 \* MIG(heavy)-MIG on heavy metals.  
 \* MIG(light)-MIG on light alloys.  
 \* TIG, GTAW-Gas Tungsten Arc We  
 \* SAW Shielded Semi-Automatic Ar  
 \* PAC-Plasma Arc Cutting.