



CORNWELL[®]
QUALITY TOOLS

MMW45P



Passive Welding Helmet



CORNWELL[®]
QUALITY TOOLS

**Professional Quality
Welding Helmet**

SAFETY WARNINGS - READ BEFORE USING



WARNING



Read & Understand All Instructions Before Using

Welding Helmets are designed to protect the eye and face from sparks, spatter, and harmful radiation under normal welding conditions. It comes ready for use. The only thing you need to do before your welding is to adjust the position of the headband, and make sure the correct shade glass lens for your application.



WARNING



Severe personal injury could occur if the user fails to follow the above mentioned warnings, and/or fails to follow the operating instructions.

Technical Specification

Viewing Area: 133 X 114 mm (5.25" x 4.50")
UV/IR Protection: Up To Shade DIN 16 at all times.
Dark State: Shade 10
Helmet Material: High Impact Resistance Nylon
Total Weight: 1.04 Lbs



WARNING



- Be sure to read all safety warnings as well as instruction manuals before use of this helmet.
- Never place this helmet on a hot surface.
- This helmet does not provide protection against severe impact hazards, including grinding discs, explosive devices and / or corrosive liquids. In the presence of these hazards, other protection must be used.
- Do not make modifications to either the filter lens or the helmet, unless specified in this manual. Do not use replacement parts other than manufacturer's replacement parts specified in this manual. Any unauthorized parts or modifications will void the warranty and could expose the user to risk or personal injury.
- Wear ANSI / CSA approved safety goggles and ear protection at all times during use of this welding helmet. The lens is breakable and does not provide complete protection from flying particles.
- Do not use any solvents on screen or helmet components.
- Use between temperature range of -5 °C to +55 °C (23 °F to 131 °F).
- Storing temperature of -20 °C to +70 °C (-4 °F to 158 °F).
- Do not immerse helmet in water. To clean use a damp soft cloth only.
- Regularly inspect / replace front cover lens if cracks, scratches, or other damage occurs.
- **Caution:** During welding operation, dust containing chemicals known to cause cancer and birth defects may be produced. In order to reduce risk, adequate ventilation when welding is necessary and important.
- In order to reduce risk of personal injuries, inspect this helmet frequently and replace worn or damaged parts.



WARNING



Before using the helmet for welding ensure you have read and understand the safety instructions.

Instructions For Use

- The helmet comes fully assembled. Before starting to weld, adjust the helmet to fit the user properly.

Adjusting The Fit Of The Helmet

The overall circumference of the headband can be made larger or smaller by rotating the knob on the back of the headgear (See adjustment "Y" in fig. 1). This can be done while

wearing the helmet and allows just the right tension to be set to keep the helmet firmly on the head without it being too tight.

- If the headband is riding too high or too low on your head, adjust the strap which passes over the top of your head. To do this, release the end of the band by pushing the locking pin out of the hole in the band. Slide the two portions of the band to a greater or lesser width as required and push the locking pin through the nearest hole (See adjustment "W" in fig. 1).
- Test the fit of the headband by lifting up and closing down the helmet a few times while wearing it. If the headband moves while tilting, readjust it until it is stable.

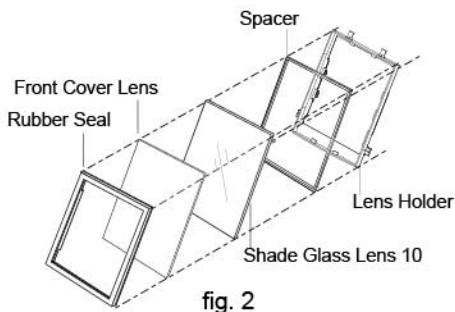
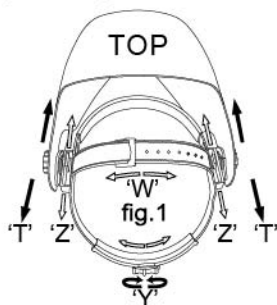
• Adjusting Distance Between The Helmet And Face

Step 1: Undo the block nut (See "T" in fig. 1) to adjust the distance between the helmet and your face in the down position.

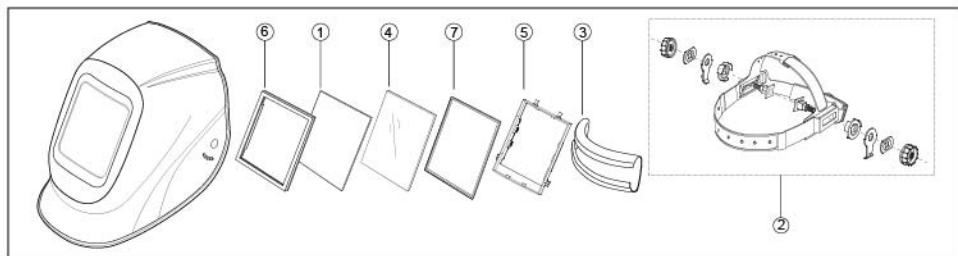
Step 2: Retighten the block nut when adjustment is complete.

Maintenance

- Replacing Front Cover Lens Plate (See fig. 2).
 - Replace the front cover lens plate if it is damaged (cracked, scratched, soiled or pitted).
 - Replacing The Shade Glass lens (See fig. 2).
 - Replace the shade glass lens if it is damaged (cracked, scratched, soiled or broken), and when fitting a new glass lens.
 - Cleaning
- Clean the helmet by wiping with a soft cloth. Clean lens surfaces regularly. Do not use strong cleaning solutions.



PARTS LIST & ASSEMBLY



Reference Number	Description	Part No.
1	Cover lens kit	MMWLK45
2	Headgear	MMWHG1
3	Sweatband	MMWSB1
4	Replacement #10 shade lens	MMWRL45-10
5	Retaining frame	MMWLR45
6	Rubber seal	MMWRS45
7	Spacer	MMWSP45

SHADE GUIDE TABLE

GUIDE FOR SHADE NUMBERS

OPERATION	ELECTRODE SIZE 1/32 in. (mm)	ARC CURRENT (A)	MINIMUM PROTECTIVE SHADE	SUGGESTED ⁽¹⁾ SHADE NO. (COMFORT)
Shielded metal arc welding	Less than 3 (2.5)	Less than 60	7	—
	3-5 (2.5-4)	60-160	8	10
	5-8 (4-6.4)	160-250	10	12
	More than 8 (6.4)	250-550	11	14
Gas metal arc welding and flux cored arc welding		Less than 60	7	—
		60-160	10	11
		160-250	10	12
		250-500	10	14
Gas tungsten arc welding		Less than 50	8	10
		50-150	8	12
		150-500	10	14
Air carbon Arc cutting	(Light)	Less than 500	10	12
	(Heavy)	500-1000	11	14
Plasma arc welding		Less than 20	6	6 to 8
		20-100	8	10
		100-400	10	12
		400-800	11	14
Plasma arc cutting	(Light) ⁽²⁾	Less than 300	8	8
	(Medium) ⁽²⁾	300-400	9	12
	(Heavy) ⁽²⁾	400-800	10	14
Torch brazing		—	—	3 to 4
Torch soldering		—	—	2
Carbon arc welding		—	—	14

⁽¹⁾ As a rule of thumb, start with a shade that is too dark, then go to a lighter shade which gives sufficient view of the weld zone without going below the minimum.

⁽²⁾ These values apply where the actual arc is clearly seen. Experience has shown that lighter filters may be used when the arc is hidden by the work piece.

Data from ANSI Z49.1-2005



CORNWELL[®]
QUALITY TOOLS

Cornwell Quality Tools
667 Seville Rd
Wadsworth, OH 44281
www.cornwelltools.com
800-321-8356
MADE IN CHINA