

Eastwood[®]

DO THE JOB RIGHT.[®]

Part #20520

WELDING HELMET

INSTRUCTIONS



EASTWOOD WELDING HELMETS are specifically designed to provide maximum eye and face protection from harmful UV and IR radiation emitted when welding, in a lightweight, comfortable housing. Auto-Darkening powered by solar cells and lithium-ion battery provide long, reliable life. Meets ANSI Z-87.1 safety standards.

SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.



READ AND UNDERSTAND INSTRUCTIONS COMPLETELY!

- Eastwood welding helmets are designed to protect the user's eyes and face from harmful radiation, sparks and spatter under normal welding conditions. They are not intended to offer protection against impact hazards, explosions or corrosive liquids.
- Wear appropriate eye protection under helmet to provide impact protection.
- Always test Auto-Darkening feature before each use by quickly subjecting the face of the Welding Helmet to sunlight or other bright light source. If the Auto-Darkening feature fails to function, permanent eye damage can occur from exposure to welding flash and radiation. **DO NOT USE.**
- The operating temperature range of the Auto-Darkening feature is 23°F to 130°F (-5°C to 55°C). The response time may be affected beyond the described temperatures causing an unsafe condition. **DO NOT USE** beyond recommended operating temperature range.

SAFETY INFORMATION



⚠ WARNING ELECTRIC SHOCK HAZARD!

- Improper use of an electric welder and associated equipment can cause electric shock, injury and death! Read all precautions described in the specific Welder Manual to reduce the possibility of electric shock.
- The electrode and work (or ground) circuits are electrically “hot” when the welder is on. Do not allow these “hot” parts or associated equipment to come in contact with your bare skin or wet clothing.
- Separate yourself from the welding circuit by using insulating mats, protective clothing, leather welding gloves and insulated footwear to avoid being part of the welding circuit.
- Be sure that the work piece is properly supported and grounded prior to beginning an electric welding operation.
- Always attach the ground clamp to the piece to be welded and as close to the weld area as possible. This will give the least resistance and best weld.
- Always wear dry, protective clothing and leather welding gloves and insulated footwear. Use suitable clothing made from durable flame-resistant material to protect your skin.
- If other persons or pets are in the area of welding, use welding screens to protect bystanders from sparks and harmful arc rays.
- Always weld in a clean, dry, well ventilated area. Do not operate a welder in humid, wet, rainy or poorly ventilated areas.



⚠ WARNING EYE INJURY HAZARD!

- Inadequate levels of arc ray shading can cause permanent eye injury. This helmet is capable of protection up to shade level 11 only. If your particular welding process emits arc radiation at levels higher than 11, **DO NOT USE** this helmet and seek alternate protection.

Consult the chart on the next page to verify that this helmet provides adequate protection before using.

Shade Guide Table

Welding Process	Arc Current (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
SMAW							9	10	11			12			13			14					
MIG (heavy)										10	11			12			13			14			
MIG (light)										10	11			12		13		14		15			
TIG, GTAW					9	10	11		12			13			14								
MAG/C02									10	11	12		13			14		15					
SAW											10	11	12	13	14	15							
PAC										11			12		13								
PAW				8	9	10	11	12		13			14			15							

NOTE:

SMAW – Shielded Metal Arc Welding

GTAW – Gas Tungsten Arc Welding

PAC – Plasma Arc Cutting

Shielded Semi-Automatic Arc Welding

MIG (heavy) – MIG on Heavy Metals TIG

PAW – Plasma Arc Cutting

MAG/C02 – Metal Active Gas SAW

MIG (light) – MIG on Light Alloys

OPERATION

- It is strongly recommended that the Helmet be place face up in the sun for several hours before use to ensure batteries are fully charged.
- Remove the protective film from the inside and outside surfaces of the lens.
- With normal (non-welding), ambient light viewing through the lens, your view will have a green tint. When exposed to bright light or the flash of the welding arc, the lens will quickly darken your view. Always test auto darkening by exposure to sunlight or similar bright light before use.

ADJUST HELMET FIT

Headband – Push Knob in and Turn Clockwise for decreasing size (tighten) or rotate Counter-Clockwise to increase size (loosen).

Width/Height – Push in small button on the overhead band, slide band in to shorten band or pull out to lengthen band. Snap button into the nearest of 9 available holes.

Forward or Back – This adjustment sets the distance from the user's eyes to the lens. Loosen the knobs on the sides of the helmet, slide it forward or back at the pivot points then re-tighten the knobs.

Flip-up Retention – This will allow the helmet to stay in the “flipped-up” position. Tighten or loosen the knobs slightly on either side of the helmet to increase or decrease friction.

REPLACING SHADE CARTRIDGE AND/OR CLEAR FRONT COVER LENS

1. Grasp the two semi-cylindrical retaining latches and slide them inward toward one another (**FIG 1**).
2. Rotate the Shade Cartridge up and out of the Helmet shell.
3. Remove Clear Front Cover Lens.
4. Replace Clear Front Cover Lens.
5. Place tabs of Shade Cartridge under pockets.
6. Rotate the Shade Cartridge back into place.
7. Move semi-cylindrical latches outward to latch.



MAINTENANCE

- Clean outside and inside of lens with a soft cloth and small amount of glass cleaner.
NOTE: Do not use excessive glass cleaner or allow the lens assembly to become wet or the sensitive electronics will be destroyed. Never use solvents.
- Clean headband with a cloth dampened with mild soap and water. Allow to dry thoroughly.
- Check lens assembly for damage before each use. If cracked or broken, **DO NOT USE**.

TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Auto-Dimming Does Not Function (Will not Darken)	Dirt May Be Blocking Sensors	Clean Lens Assembly.
	Batteries May Be Low	Expose the Solar Cells to a light source to recharge.
	Dirt May Be Blocking Solar Cells	Clean Lens Assembly.
Slow Response for Darkening	Operating Temperature Too Low	Do not use below 23°F (-5°C).
Poor Vision Through Lens	Dirt or Excessive Pitting May be Blocking View	Clean Lens Assembly.
Helmet Slips During Use	Helmet Fit Not Adjusted Properly	Follow fit adjustment steps in instructions.

ADDITIONAL ITEMS

#20525 Replacement Outer Lens

If you have any questions about the use of this product, please contact

The Eastwood Technical Assistance Service Department: 800.544.5118 >> email: techelp@eastwood.com

PDF version of this manual is available online >> eastwood.com/20520manual

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