



OM-288281B

2021-03

Face Shield



OWNER'S MANUAL

TABLE OF CONTENTS

SECTION 1 – SAFETY PRECAUTIONS – READ BEFORE USING.....	1
1-1 Symbol Usage	1
1-2 Hazards	1
1-3 California Proposition 65 Warnings.....	2
1-4 Lens Shade Selection Table	3
1-5 Principal Safety Standards.....	3
SECTION 2 – SPECIFICATIONS	4
SECTION 3 – OPERATING INSTRUCTIONS.....	5
3-1 Adjusting Headgear.....	5
3-2 Installing Lens	6
3-3 Removing Lens	7
SECTION 4 – MAINTENANCE AND STORAGE	8
SECTION 5 – PARTS LIST.....	9

SECTION 1 – SAFETY PRECAUTIONS – READ BEFORE USING

-  **Protect yourself and others from injury—read, follow, and save these important safety precautions and operating instructions.**

1-1. Symbol Usage

-  **DANGER!** – Indicates a hazardous situation which, if not avoided, will result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

-  Indicates a hazardous situation which, if not avoided, could result in death or serious injury. The possible hazards are shown in the adjoining symbols or explained in the text.

NOTICE – Indicates statements not related to personal injury.

 Indicates special instructions.



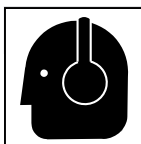
This group of symbols means Warning! Watch Out! ELECTRIC SHOCK, MOVING PARTS, and HOT PARTS hazards. Consult symbols and related instructions below for necessary actions to avoid these hazards.

1-2. Hazards

-  The symbols shown below are used throughout this manual to call attention to and identify possible hazards. When you see the symbol, watch out, and follow the related instructions to avoid the hazard. The safety information given below is only a summary of the more complete safety information found in the Principal Safety Standards listed in Section 1-5. Read and follow all Safety Standards.

-  Only qualified persons should install, operate, maintain, and repair this equipment. A qualified person is defined as one who, by possession of a recognized degree, certificate, or professional standing, or who by extensive knowledge, training and experience, has successfully demonstrated the ability to solve or resolve problems relating to the subject matter, the work, or the project and has received safety training to recognize and avoid the hazards involved.

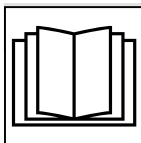
-  During operation, keep everybody, especially children, away.



NOISE can damage hearing.

Noise from some processes or equipment can damage hearing.

- Wear approved ear protection if noise level is high.



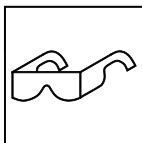
READ INSTRUCTIONS.

- Read and follow all labels and the Owner's Manual carefully before installing, operating, or servicing unit. Read the safety information at the beginning of the manual and in each section.
- Use only genuine replacement parts from the manufacturer.
- Perform installation, maintenance, and service according to the Owner's Manuals, industry standards, and national, state, and local codes.



FACE SHIELDS do not provide unlimited eye, ear, and face protection.

- Use face shield only for protection from specific welding/cutting hazards listed in Section 1-4, and for protection from low impact hazards associated with chipping, grinding, wire-brushing, and similar activities.
- This face shield meets the requirements of ANSI Z87.1+ and CSA Z94.3. The polycarbonate lenses are not unbreakable and do not provide unlimited protection.
- Use the correct lens for the application.
- Use impact resistant safety spectacles or goggles and ear protection at all times when using this face shield.
- Always keep lens in down position when using face shield.
- Do not use this face shield while working with or around explosives or corrosive liquids.
- Inspect the face shield frequently. Clean lens if dirty. Immediately replace scratched, cracked, or pitted lenses.
- Lens and retention components must be installed as instructed in this manual to ensure compliance with ANSI Z87.1+ protection standards.
- Do not use the face shield until you have been trained in its proper operation by a qualified person.
- Do not enter a hazardous area until you are sure the face shield is assembled correctly, working properly, and worn properly.
- Before each use, inspect the face shield for damage and verify it operates properly. Clean and maintain face shield according to the manufacturer's instructions.
- Do not use face shield with parts or accessories not supplied by the manufacturer.
- Face shield is not to be used as sole protection from hazardous liquids and gases, explosions, lasers, welding, brazing, cutting, grinding, and similar activities. These operations can require additional safety equipment.
- Be sure face shield is compatible with respirators and other personal protective equipment.
- Do not use tinted lenses where color perception is important, such as near traffic signals, visual displays, when making electrical connections, etc.
- Do not use face shield for protection during athletic and recreational activities.
- Wear body protection made from durable, flame-resistant material (leather, heavy cotton, wool). Body protection includes oil-free clothing such as leather gloves, heavy shirt, cuffless trousers, high shoes, and a cap.
- Before selecting and using face shield, have your safety director or an industrial hygienist assess the work area to determine if this product complies with applicable health and safety standards. If you have questions, contact Miller Electric Mfg. LLC at 1-920-735-4505.



FLYING METAL OR DIRT can injure eyes.

- Welding, chipping, wire brushing, and grinding cause sparks and flying metal. As welds cool, they can throw off slag.
- Wear approved safety glasses with side shields even under your face shield.

1-3. California Proposition 65 Warnings



WARNING – Cancer and Reproductive Harm — www.P65Warnings.ca.gov.

1-4. Lens Shade Selection Table

Process	Plate Thickness in.	Plate Thickness mm	Arc Current Amperers	Minimum Protective Shade No.	Suggested Shade No. Comfort
Plasma Arc Cutting (PAC)			Less than 20	4	4
			20 to 40	5	5
Oxyfuel Gas Welding (OFW)					
Light	Under 1/8	Under 3			4 or 5
Oxygen Cutting (OC)					
Light	Under 1	Under 25			3 or 4
Medium	1 to 6	25 to 150			4 or 5
Torch Brazing (TB)					3 or 4
Torch Soldering (TS)					2

Reference: ANSI Z49.1:2012

1-5. Principal Safety Standards

Safety in Welding, Cutting, and Allied Processes, American Welding Society standard ANSI Standard Z49.1. Website: <http://www.aws.org>.

Safe Practice For Occupational And Educational Eye And Face Protection, ANSI Standard Z87.1, from American National Standards Institute. Website: www.ansi.org.

Safety in Welding, Cutting, and Allied Processes, CSA Standard W117.2 from Canadian Standards Association. Website: www.csagroup.org.

Eye and Face Protectors, CSA Standard Z94.3 from Canadian Standards Association. Website: www.csagroup.org.

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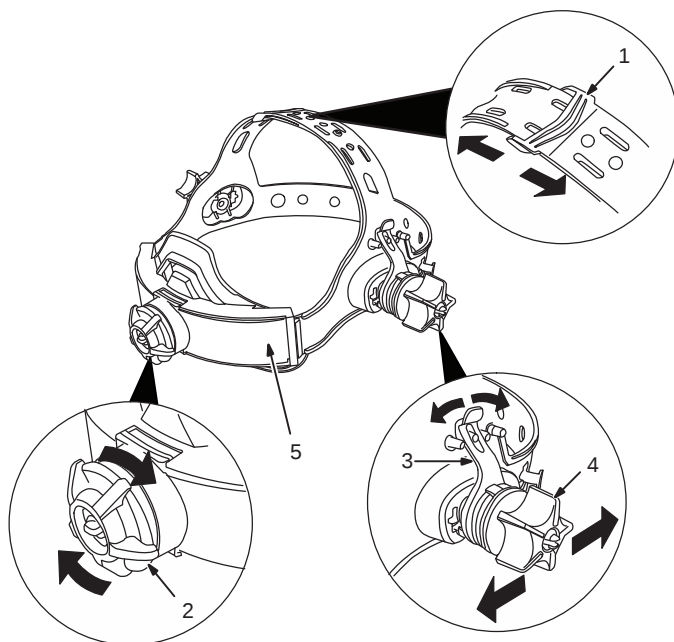
SECTION 2 – SPECIFICATIONS

 Please register your product at www.MillerWelds.com/Support/Registration

Application	Chipping, Grinding, Wire-Brushing, And Similar Activities Welding, Cutting, Brazing, And Soldering Activities Requiring Lens Shade No.5 Or Less (See Section 1-4).
Lens Material	Polycarbonate (PC)
Lens Dimensions	Length: 8.4 in. (213 mm), Width: 8.6 in. (218 mm), Thickness: 0.8 in. (2.1 mm)
Total Weight	4.4 oz (123.8 g)
Lens Options	Clear Clear With Anti-Fog No. 3 Shade No. 5 Shade
Features	Three-Dimensional Curved Lens Provides Wide Viewing Angle And Increases Facial Protection Area
Process of Manufacture	Injection Molding
Standards	Meets ANSI Z87.1+ And CSA Z94.3 Standards
Operating Temperature	14°F to 131°F (-10°C to +55°C)  <i>When Stored In Extremely Cold Temperatures, Warm Face Shield To Ambient Temperature Before Using.</i>
Storage Temperature	-4°F to 158°F (-20°C to +70°C)  <i>When Stored In Extremely Cold Temperatures, Warm Face Shield To Ambient Temperature Before Using.</i>
Warranty	90 Days From Date Of Purchase

SECTION 3 – OPERATING INSTRUCTIONS

3-1. Adjusting Headgear



 *There are four headgear adjustments: headgear top, tightness, angle, and distance.*

1 Headgear Top

Adjusts headgear for proper depth on the head to ensure correct balance and stability.

2 Headgear Tightness

To adjust tightness, push in adjustment knob and turn left or right to desired tightness.

3 Angle Adjustment

Notches on the right side of the headband provide adjustment for the backward or forward tilt of the face shield. To adjust, loosen the headgear tension knob and push the top end of the control arm outward until the

arm's stop tab clears the notches. Rotate the control arm backward or forward to the desired angle position.

4 Distance Adjustment

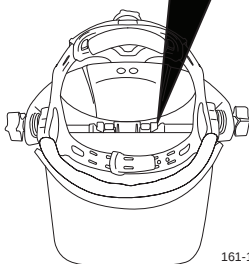
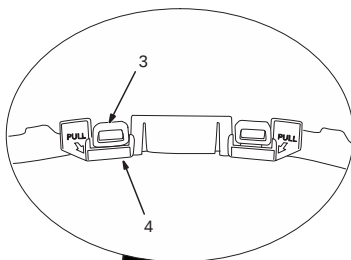
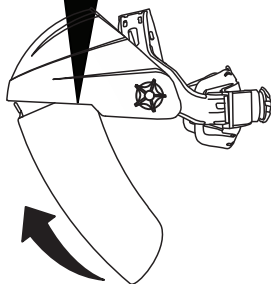
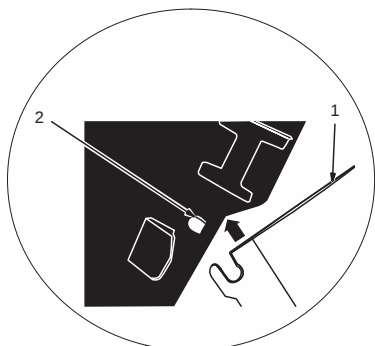
Adjusts the distance between the face and the lens. To adjust, loosen both tension knobs and slide headgear forward or backward to desired position. Tighten knobs.

 *Both sides must be equally positioned for proper operation.*

5 Headgear Cushion

The cushion disperses the weight of the headgear on the head and helps prevent the face shield from slipping when the lens is raised and lowered.

3-2. Installing Lens



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- 1 Lens
- 2 Lens Holder
- 3 Lens Tab
- 4 Shell Latch

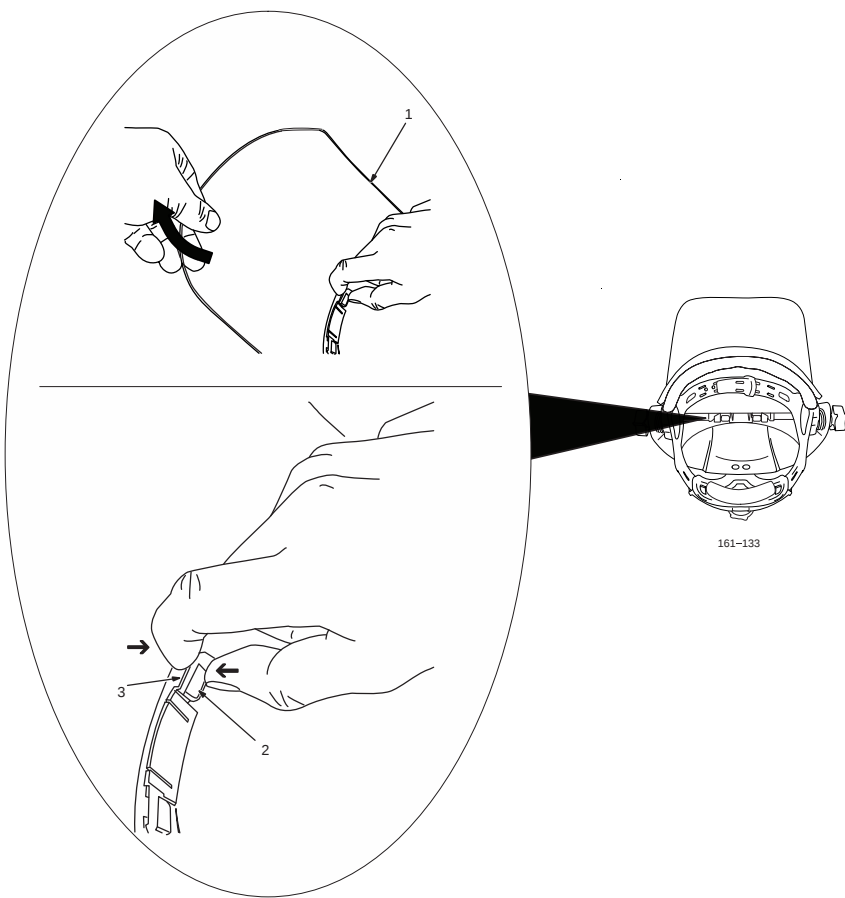
Step 1. Align grooves on each side of lens with corresponding lens holders on shell.

Step 2. Push lens toward shell until grooves lock into position on lens holders.

Step 3. Push lens tabs (on top of lens) into latches on shell.

3-3. Removing Lens





1 Lens

2 Lens Tab

3 Shell Latch

Step 1. Hold face shield with the shell down.

Step 2. Use thumb to push on lens tab while pulling on latch with index finger. Repeat this procedure on both tabs/latches until lens is released from latches.

Step 3. Carefully pull lens from shell.

SECTION 4 – MAINTENANCE AND STORAGE

 *Do not use solvents or abrasive cleaning detergents to clean the face shield. Do not immerse the face shield in water.*

 *Keep face shield away from fire and other sources of heat.*

 *Do not drop face shield or handle it in a rough manner.*

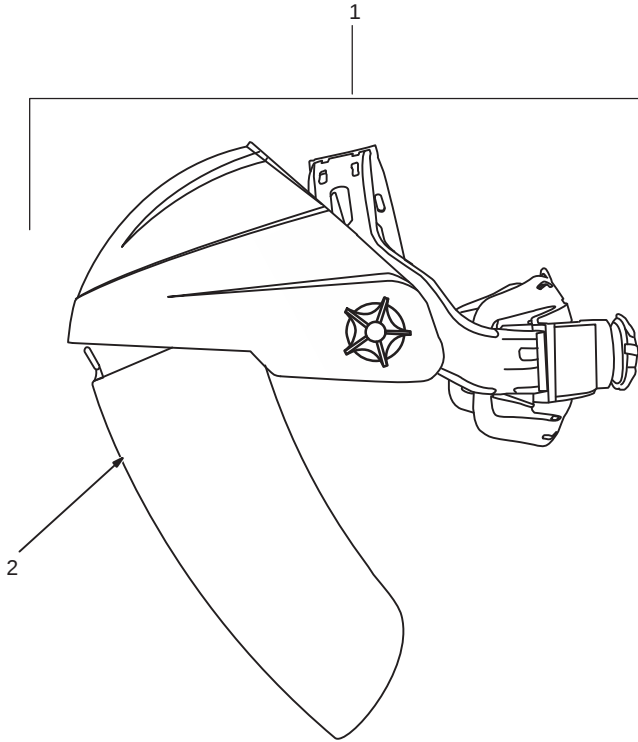
The face shield requires little maintenance. However, for best performance clean face shield after each use. Using a soft cloth dampened with a mild soap and water solution, wipe the lens clean. Allow to air dry.

Store face shield in a clean, dry, cool place free of solvent-based vapors and away from materials that may scratch the lens.

End Of Useful Life

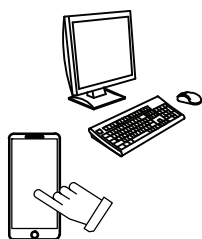
The face shield has no expiration date, and with proper care and maintenance it can provide many years of eye and face protection. The face shield can continue to be used, provided that the shell is undamaged (no cracks, gaps, or holes) and the lens is clean and free from scratches and blemishes.

SECTION 5 – PARTS LIST



Face Shield

Item No.	Part No.	Description	Qty.
1	288280	Replacement Headgear and Crown, Face Shield	1
2	288275	Replacement Lens Clear, Face Shield	1
2	288276	Replacement Lens Shade 3, Face Shield	1
2	288277	Replacement Lens Shade 5, Face Shield	1
2	288278	Replacement Lens Clear w/Anti-Fog, Face Shield	1
	222003	Hard Hat Adapter (Not Shown)	1
	259637	Hard Hat Adapter, Slotted (Not Shown)	1



For product information,
Owner's Manual translations,
and more, visit

www.MillerWelds.com