

Classic Series Welding Helmets





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SECTION 1 – WELDING HELMET SAFETY PRECAUTIONS – READ BEFORE USING

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

Symbol Usage 1-1.



DANGER! - Indicates a hazardous situation which, if not avoided, will result in death or serious injury. The possible hazards are shown in the adioining 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.

I 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 the hazards.

Arc Welding Hazards 1-2.



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 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.



ARC RAYS can burn eyes and skin.

Arc rays from the welding process produce intense visible and invisible (ultraviolet and infrared) rays that can burn eyes and skin. Sparks fly off from the weld.

- Wear a welding helmet fitted with a proper shade of filter to protect your face and eyes when welding or watching (see ANSI Z49.1 and Z87.1 listed in Safety Standards). Refer to Lens Shade Selection table in Section 1-4.
- Wear approved safety glasses with side shields under your helmet.
- Use protective screens or barriers to protect others from flash, glare, and sparks; warn others not to watch the arc.
- 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 welding, adjust the auto-darkening lens sensitivity setting to meet the application.
- Stop welding immediately if the auto-darkening lens does not darken when the arc is struck.



NOISE can damage hearing.

Noise from some processes or equipment can damage hearing.

Wear approved ear protection if noise level is high.



WELDING HELMETS do not provide unlimited eye, ear, and face protection.

Arc rays from the welding process produce intense visible and invisible (ultraviolet and infrared) rays that can burn eyes and skin. Sparks fly off from the weld.

- Use helmet for welding/cutting applications only. Do not use helmet for laser welding/cutting.
- Use impact resistant safety spectacles or goggles and ear protection at all times when using this welding helmet.
- Do not use this helmet while working with or around explosives or corrosive liquids.
- This helmet is not rated for overhead welding. Do not weld in the direct overhead position
 while using this helmet unless additional precautions are taken to protect yourself from arc
 rays, spatter, and other hazards.
- Inspect the auto-lens frequently. Immediately replace any scratched, cracked, or pitted cover lenses or auto-lenses.
- Lens and retention components must be installed as instructed in this manual to ensure compliance with ANSI Z87.1 protection standards.



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.



FUMES AND GASES can be hazardous.

Welding produces fumes and gases. Breathing these fumes and gases can be hazardous to your health.

- Keep your head out of the fumes. Do not breathe the fumes.
- Ventilate the work area and/or use local forced ventilation at the arc to remove welding fumes and gases. The recommended way to determine adequate ventilation is to sample for the composition and quantity of fumes and gases to which personnel are exposed.
- If ventilation is poor, wear an approved air-supplied respirator.
- Read and understand the Safety Data Sheets (SDSs) and the manufacturer's instructions for adhesives, coatings, cleaners, consumables, coolants, degreasers, fluxes, and metals.
- Work in a confined space only if it is well ventilated, or while wearing an air-supplied respirator.
 Always have a trained watchperson nearby. Welding fumes and gases can displace air and lower the oxygen level causing injury or death. Be sure the breathing air is safe.
- Do not weld in locations near degreasing, cleaning, or spraying operations. The heat and rays
 of the arc can react with vapors to form highly toxic and irritating gases.
- Do not weld on coated metals, such as galvanized, lead, or cadmium plated steel, unless the
 coating is removed from the weld area, the area is well ventilated, and while wearing an airsupplied respirator. The coatings and any metals containing these elements can give off toxic
 fumes if welded.

1-3. Proposition 65 Warnings



1-4. Lens Shade Selection Table

Process	Electrode Size in. (mm)	Arc Current in Amperes	Minimum Protective Shade No.	Suggested Shade No. (Comfort)*
Shielded Metal Arc Welding (SMAW)	Less than 3/32 (2.4) 3/32-5/32 (2.4-4.0) 5/32-1/4 (4.0-6.4) More than 1/4 (6.4)	Less than 60 60–160 160–250 250–550	7 8 10 11	 10 12 14
Gas Metal Arc Welding (GMAW) Flux Cored Arc Welding (FCAW)		Less than 60 60–160 160–250 250–500	7 10 10 10	 11 12 14
Gas Tungsten Arc Welding (TIG)		Less than 50 50-150 150-500	8 8 10	10 12 14
Air Carbon Arc Cutting (CAC-A)	Light Heavy	Less than 500 500-1000	10 11	12 14
Plasma Arc Cutting (PAC)		Less than 20 20-40 40-60 60-80 80-300 300-400 400-800	4 5 6 8 8 9 10	4 5 6 8 9 12 14
Plasma Arc Welding (PAW)		Less than 20 20–100 100–400 400–800	6 8 10 11	6–8 10 12 14

Reference: ANSI Z49.1:2012

1-5. Principal Safety Standards

Safety in Welding, Cutting, and Allied Processes, ANSI Standard Z49.1, is available as a free download from the American Welding Society at http://www.aws.org or purchased from Global Engineering Documents (phone: 1-877-413-5184, website: www.global.ihs.com).

Safe Practice For Occupational And Educational Eye And Face Protection, ANSI Standard Z87.1, from American National Standards Institute, 25 West 43rd Street, New York, NY 10036 (phone: 212-642-4900, website: www.ansi.org).

Industrial Head Protection, ANSI/ISEA Standard Z89.1, from American National Standards Institute, 25 West 43rd Street, New York, NY 10036 (phone: 212-642-4900, website: www.ansi.org).

^{*} Start with a shade that is too dark to see the weld zone. Then, go to a lighter shade which gives a sufficient view of the weld zone without going below the minimum.

SECTION 2 - SPECIFICATIONS

Specification	Variable Shade Helmet	VSi Helmet	Standard Fixed Shade No. 10 Helmet	Fixed Shade 2 x 4 No. 10 Flip-Up Helmet	
Viewing Field	95 x 34 mm (3.75 x 1.375 in.)	95 x 40 mm (3.75 x 1.57 in.)		35 mm 1.375 in.)	
Reaction Time	0.0000833 sec (1/12,000)	0.00005 sec (1/20,000)	0.000277 sec (1/3,600)		
Available Shades	Darkened State: No. 8 – No. 12 Light State: No. 3 Provides Continuous UV And IR Protection	Darkened State: No. 8 – No. 13 Light State: No. 3 Provides Continuous UV And IR Protection	Darkened State: No. 10 Light State: No. 3 Provides Continuous UV And IR Protection		
Sensitivity Control	Adjusts For Varying Ambient Light And Welding Arc	Adjusts For Varying Ambient Light And Welding Arc; X-Mode	Not Applicable		
Delay Control	Slows Lens Dark- To-Light State (Slow – Fast)	Slows Lens Dark- To-Light State (Between 0.1 And 1 Second)	Not Ap	pplicable	
Automatic Power Off	Shuts Le	ns Off 15–20 Minutes	After Last Arc Is S	Struck	
Low Battery Indicator		nates To Indicate 2-3 ng Battery Life	Not Applicable		
Power Supply	AAA Alkaline Batteries Only (Two)	Panasonic CR2450 Lithium Battery (Part No. 217043)	Rechargeable, Non-Replaceable Solar Cell		
Sensors	Independent/ Redundant (Two)	Independent/ Redundant (Three)		endent/ ant (Two)	
Operating Temperature	☐ When stored in e temperature befo	, ,	°C to +55°C tures, warm helmet to ambient		
Storage Temperature	☐ When stored in e temperature befo		°C to +70°C tures, warm helmet to ambient		
Total Weight	453.6g (16oz.)	640.2g (22.58oz.)	453.6g (16 oz.)	396g (13.96oz.)	
Standards	Meets ANSI Z87.1+ (2015) and CSA Z94.3 (2015) Standards			tandards	
Warranty	2 Year	s From Date Of Purch	chase (See Section 11)		

SECTION 3 - OPERATING INSTRUCTIONS

3-1. Helmet Controls

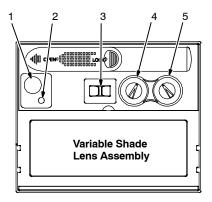








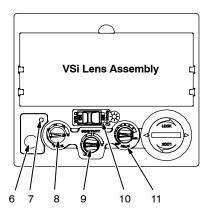




Four different lens assemblies are shown. Refer to the illustration that matches the lens on your helmet.

Variable Shade Helmet

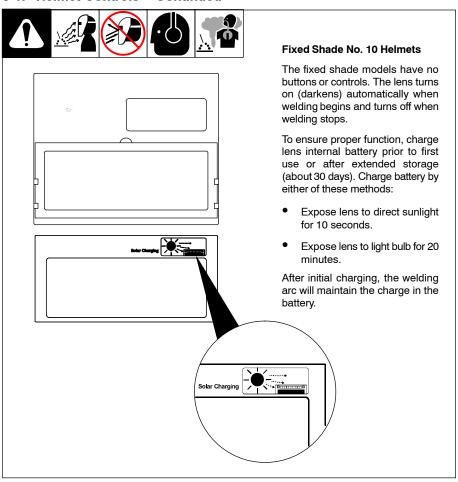
- 1 Reset Button (See Section 3-2)
- Low Battery Indicator (See Section 3-2)
- 3 Lens Delay Control (See Section 3-4)
- Variable Shade Control
 (No. 8 12) (See Section 3-5)
- 5 Sensitivity Control (See Section 3-6)



VSi Helmet

- 6 Reset Button (See Section 3-2)
- 7 Low Battery Indicator (See Section 3-2)
- 8 Variable Shade Control (No. 8 – 13) (See Section 3-5)
- Sensitivity Control (See Section 3-6)
- 10 Mode Control (See Section 3-3)
- 11 Lens Delay Control (See Section 3-4)

3-1. Helmet Controls – Continued

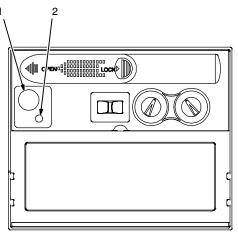


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3-2. Reset Button And Low Battery Indicator





Variable Shade Lens Assembly

The auto-darkening lens turns on (darkens) automatically when welding begins and turns off when welding stops.

1 Reset Button

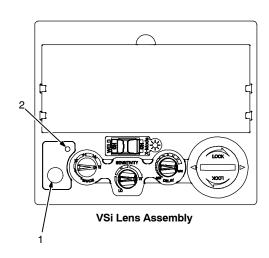
Press Reset button to check if the lens is working properly.

When the Reset button is pressed, the lens should darken twice and return to the clear state. Do not use the helmet if the lens does not function as described. (See Section 9, Troubleshooting.)

2 Low Battery Indicator

The low battery indicator lights when 2–3 days of battery life remain.

If battery power is low, install new AAA Alkaline batteries (Variable Shade helmet) or Panasonic CR2450 Lithium battery (VSi helmet) (see Section 6).



3-3. Mode Control (VSi Helmet Only)

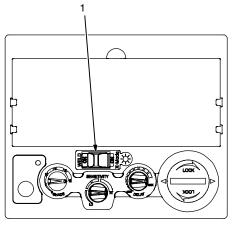












Mode Control Button

Slide Mode Control switch to select the mode appropriate for the work activity.

Slide switch away from the desired mode (Weld or X-Mode). When the switch is moved, "On" is revealed next to the active mode.

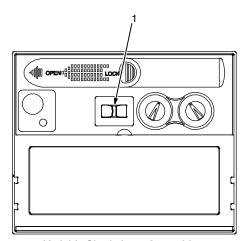
Weld Mode – used for most welding applications. In this mode the lens turns on when it optically senses a welding arc. Adjust shade, sensitivity, and delay settings as needed.

X-Mode – used for outdoor or low current welding applications. In this mode the lens turns on when it senses weld current. Adjust shade, sensitivity, and delay settings as needed.

Nearby welding may affect helmet operation when lens is in X-Mode. Stay at least 12 ft (3.7 m) away from other welding activity.

3-4. Lens Delay Control





Variable Shade Lens Assembly

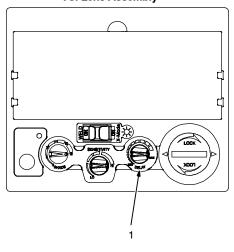
1 Lens Delay Control

The lens delay control is used to adjust the time for the lens to switch to the clear state after welding.

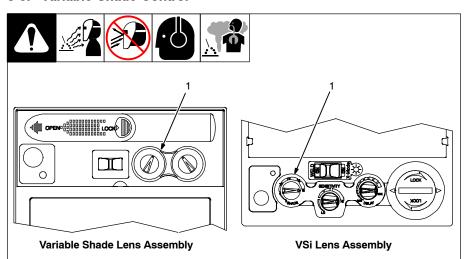
The delay is particularly useful in eliminating bright after-rays present in higher amperage applications where the molten puddle remains bright momentarily after welding.

Variable Shade helmet adjusts from Slow to Fast and VSi helmet adjusts from Min to Max (0.1 to 1.0 second).

VSi Lens Assembly



3-5. Variable Shade Control



 Variable Shade Control

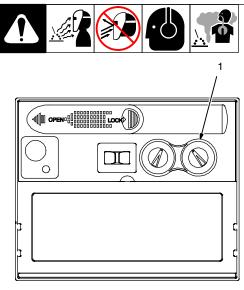
Lens shade can be adjusted from No. 8 – 12 on Variable Shade helmet, and from No. 8 – 13 on VSi helmet. Use the control to adjust the lens shade in the darkened state. Use the table below to select proper shade control setting based on your weld-

ing process.

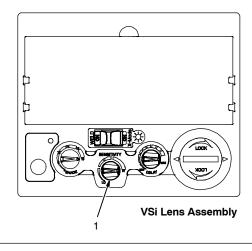
Start at darkest shade and adjust lighter to suit the welding application and your personal preference.

Application Welding	Arc Current in Amperes	Protective Shade No.
Stick Electrodes	Less than 40	9
	40-80	10
	80-175	11
	175–300	12
	300–500	13
MIG	Less than 100	10
	100–175	11
	175-300	12
	300–500	13
Gas Tungsten Arc Welding	Less than 50	10
(TIG)	50-100	11
, ,	100-200	12
	200–400	13
Air Carbon	Less than 500	12
	500–700	13
Plasma Arc Cutting	60–150	11
	150-250	12
	250–400	13
Plasma Arc Welding	Less than 50	9
Į .	50-200	10
	200–400	12

3-6. Sensitivity Control



Variable Shade Lens Assembly



1 Sensitivity Control

Use control to make the lens more responsive to different light levels in various welding processes. Use a Mid-Range or 30–50% sensitivity setting for most applications.

It may be necessary to adjust helmet sensitivity to accommodate different lighting conditions or if lens is flashing On and Off. Adjust helmet sensitivity as follows:

Adjust helmet sensitivity in lighting conditions helmet will be used in.

- Turn sensitivity control to lowest setting.
- Press On button to turn helmet On.
 Helmet lens will darken twice and then clear.
- Face the helmet in the direction of use, exposing it to the surrounding light conditions.
- Gradually turn sensitivity setting clockwise until the lens darkens, then turn sensitivity control counterclockwise until slightly past setting where lens clears. Helmet is ready for use. Slight readjustment may be necessary for certain applications or if lens is flashing on and off.

Recommended Sensitivity Settings		
Stick Electrode Mid-Range		
Short Circuiting (MIG)	Low/Mid-Range	
Pulsed & Spray (MIG)	Mid-Range	
Gas Tungsten Arc (TIG)	Mid/High-Range	
Plasma Arc Cutting/Welding	Low/Mid-Range	

SECTION 4 – ADJUSTING HEADGEAR

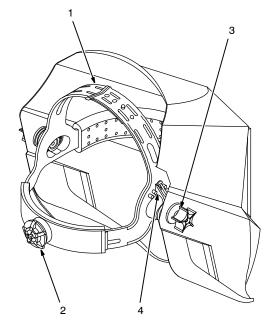












- There are four headgear adjustments: headgear top, tightness, distance adjustment, and angle adjustment.
- 1 Headgear Top Adjustment

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

Headgear Tightness Adjustment

Adjusts headgear for a secure fit. To adjust, push in the adjusting knob located on the back of the headgear. Turn knob left or right to obtain desired tightness.

- If adjustment is limited, it may be necessary to remove the comfort cushion.
- 3 Distance Adjustment

Adjusts the distance between the face and the lens. To adjust, loosen both outside tension knobs and press inward to free from adjustment slots. Move forward or back to desired position and retighten. (Both sides must be equally positioned for proper vision.)

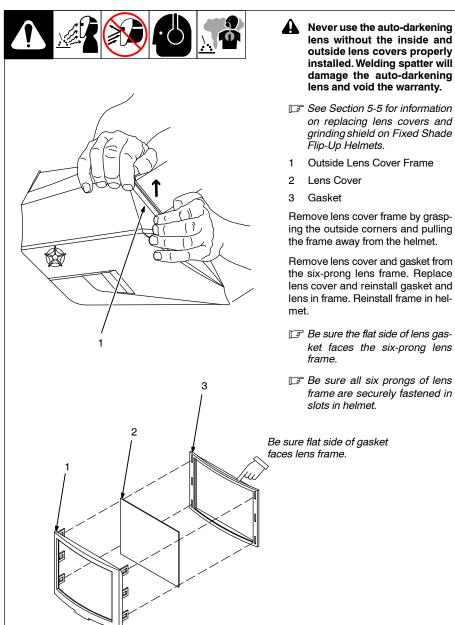
4 Angle Adjustment

Four pins on the right side of the headband top provide adjustment for the forward tilt of the helmet. To adjust, loosen the right outside tension adjustment knob then lift on the control arm tab and move it to the desired position. Retighten tension adjustment knob.

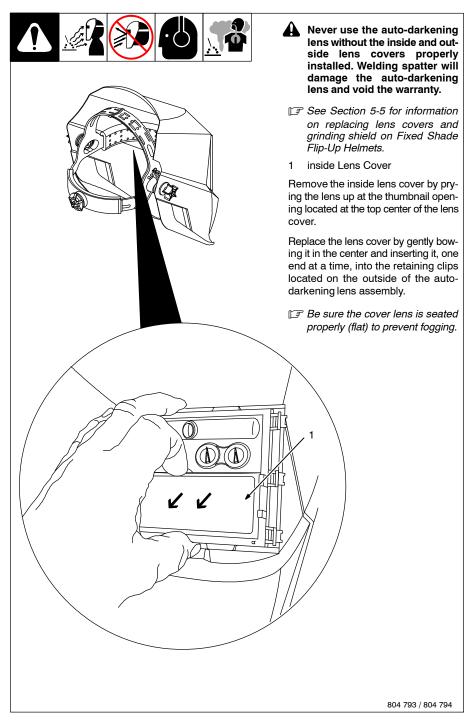
**Estimate 1.5 When using the back distance adjustment position, only the back three angle adjustment pins can be used.

SECTION 5 - REPLACING THE LENS COVERS

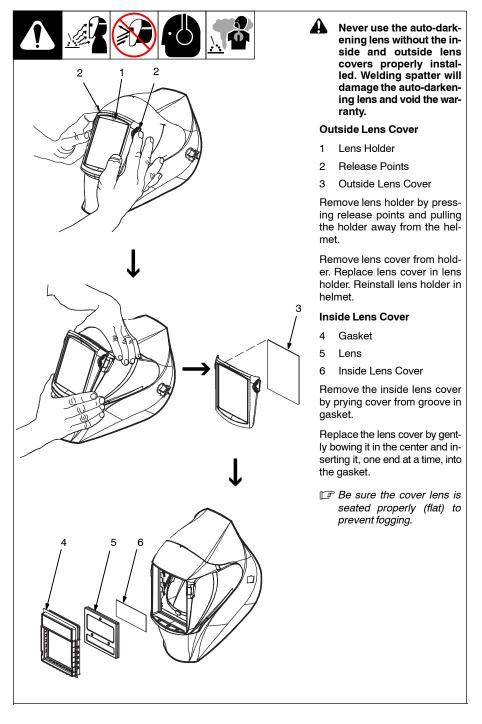
5-1. Replacing Outside Lens Cover On Variable Shade And Standard Fixed Shade Helmets



5-2. Replacing Inside Lens Cover On Variable Shade and Standard Fixed Shade Helmets



5-3. Replacing Lens Covers On VSi Helmet



5-4. Replacing Grinding Shield On VSi Helmet

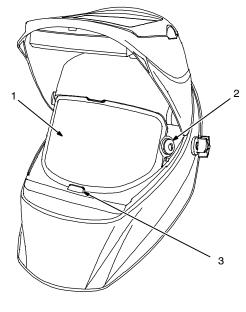














Never use the auto-darkening lens without the inside and outside lens covers properly installed. Welding spatter will damage the auto-darkening lens and void the warranty.

- Grinding Shield
- 2 Retaining Clip
- 3 Tab

Rotate both retaining clips to the Open position.

Gently push shield toward bottom tab and remove shield from helmet.

Remove retaining clips from shield. Install clips in same location on new shield. (Retaining clips are not interchangeable.)

Install new shield in helmet and rotate clips to the Lock position.

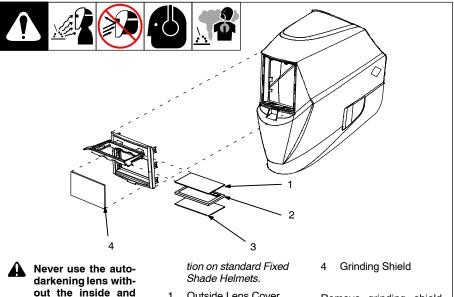
Tear-Away Protective Sheets

Tear-away sheets are available to prolong the life of the griding shield (see Parts List).

To install tear-away sheets, pull backing from both sides of the tear-away, remove white adhesive backing strips, and place on clear shield.

Ref. 804 109

5-5. Replacing Lens Covers And Grinding Shield On Fixed Shade Flip-Up Helmets



See Sections 5-1 and 5-2 for lens cover replacement informa-

outside lens covers

properly installed.

Welding spatter will

damage the auto-

darkening lens and

void the warranty.

- Outside Lens Cover
- 2 Lens
- Inside Lens Cover

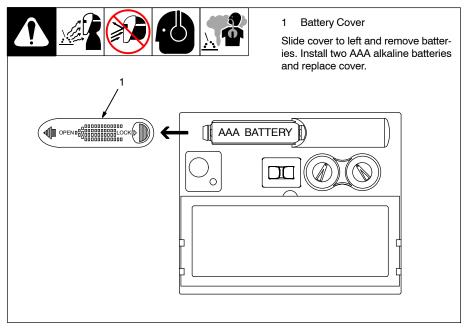
Lift flip-up frame and slide lens and covers together out of the open side of the frame. Replace lens covers. Slide lens and covers together back into frame.

Remove grinding shield from front of helmet by pushing shield from the inside. Reinstall shield by placing one edge of shield in track. Using both hands, bend shield outward until the loose end of the shield can be installed in the open track.

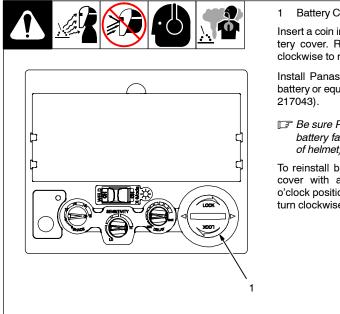
Notes		

SECTION 6 – REPLACING THE BATTERY

6-1. Replacing Battery On Variable Shade Helmets



Replacing Battery On VSi Helmet



Battery Cover

Insert a coin into the slot on the battery cover. Rotate cover counterclockwise to remove battery.

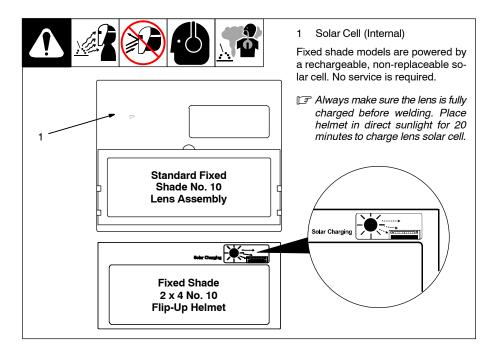
Install Panasonic CR2450 lithium battery or equivalent (Miller Part No.

☐ Be sure Positive (+) side of the battery faces up (toward inside of helmet).

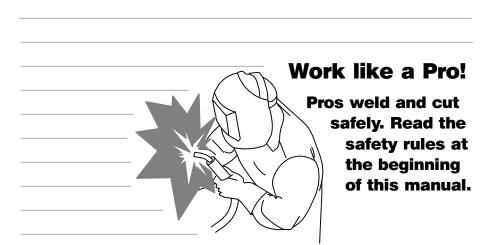
To reinstall battery cover, position cover with arrows at 6 and 12 o'clock positions, then turn cap 1/4 turn clockwise.

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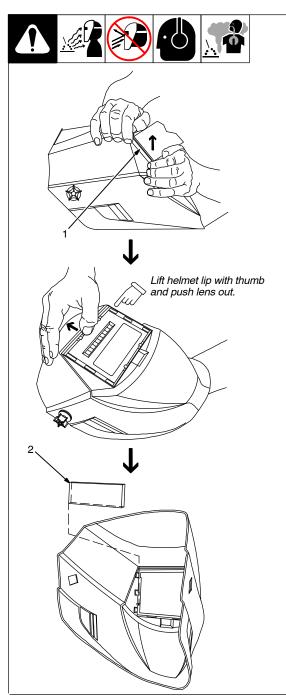
6-3. Solar Cell On Fixed Shade Helmets



Notes



SECTION 7 - INSTALLING OPTIONAL MAGNIFYING LENS



- Outside Lens Cover Frame
- 2 Optional Magnifying Lens

Remove lens cover frame by grasping the outside corners and pulling the frame away from the helmet.

Remove the auto-darkening lens assembly by gently lifting the helmet lip above the assembly and pushing assembly free of the retaining brackets.

Starting at the top, slide magnifying lens into the helmet retaining brackets. Position the lens tightly against the bottom holding pins.

Reinstall auto-darkening lens assembly and lens cover frame.

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SECTION 8 - MAINTENANCE AND STORAGE

NOTICE – Do not use solvents or abrasive cleaning detergents to clean the helmet. Do not immerse the lens assembly in water.

NOTICE – Keep helmet dry; do not expose helmet to rain or snow. Keep helmet away from fire and other sources of heat.

NOTICE – The auto-darkening lens uses sensitive electronics. Do not drop helmet or handle it in a rough manner.

The helmet requires little maintenance. However, for best performance clean helmet after each use. Using a soft cloth dampened with a mild soap and water solution, wipe the cover lenses clean. Allow to air dry. Occasionally, the filter lens and sensors should be cleaned by gently wiping with a soft, dry cloth.

Store helmet in a clean, dry, cool place free of solvent-based vapors. To prevent battery from losing power, store helmet in helmet bag or in a dark location. Remove battery(s) if helmet will be stored longer than six months.

End Of Useful Life

The welding helmet has no expiration date, and with proper care and maintenance it can provide many years of eye and face protection. The helmet can continue to be used, provided that the helmet shell/shroud is undamaged (no cracks, gaps, or holes) and the lens functions normally (switches from a light state to a dark state.)

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Notes			

SECTION 9 - TROUBLESHOOTING











Trouble	Remedy
Auto lens not On; lens does not darken momen- tarily when the Reset but- ton is pressed.	Check batteries and verify they are in good condition and installed properly. Also, check battery surfaces and contacts and clean if necessary.
Auto lens not switching; lens stays light and does not darken when welding.	Stop welding immediately. Press the Reset button on variable shade helmets. On fixed-shade helmets, make sure the lens solar cell is properly charged by placing the helmet in direct sunlight for 20 minutes. If power is on, review the sensitivity recommendations and adjust sensitivity. Clean lens cover and sensors of any obstructions. Make sure the sensors are facing the arc; angles of 45° or more may not allow the arc light to reach the sensors.
Auto lens not Switching; lens stays dark after the weld arc is extinguished, or the lens stays dark when no arc is present.	Fine-tune the sensitivity setting by making small adjustments to the control by turning it toward the "min" setting. In extreme light conditions, it may be necessary to reduce the surrounding light levels.
Sections of the auto-lens are not going dark; distinct lines separate the light and dark areas.	Stop welding immediately. The auto-lens may be cracked which can be caused by the impact of dropping the helmet. Weld spatter on the auto lens may also cause cracking. (The lens may need to be replaced; most cracked lenses are not covered by warranty).
Auto lens switching or flickering; lens darkens then lightens while the welding arc is present.	Review the sensitivity setting recommendations and increase the sensitivity if possible. Be sure the arc sensors are not being blocked from direct access to the arc light. Check the lens cover for dirt and spatter that may be blocking the arc sensors. Increasing Lens Delay to Fast position may also reduce switching.
Inconsistent or lighter auto-lens shading in the dark-state, noticeable on the outside edges and corners.	Referred to as an angle of view effect, auto-darkening lenses have an optimum viewing angle. The optimum viewing angle is perpendicular or 90° to the surface of the auto-lens. When that angle of view varies in the dark-state, welders may notice slightly lighter areas at the outside edges and the corners of the lens. This is normal and does not represent any health or safety hazard. This effect may also be more noticeable in applications where magnifying lenses are used.

Notes

SECTION 10 - PARTS LIST

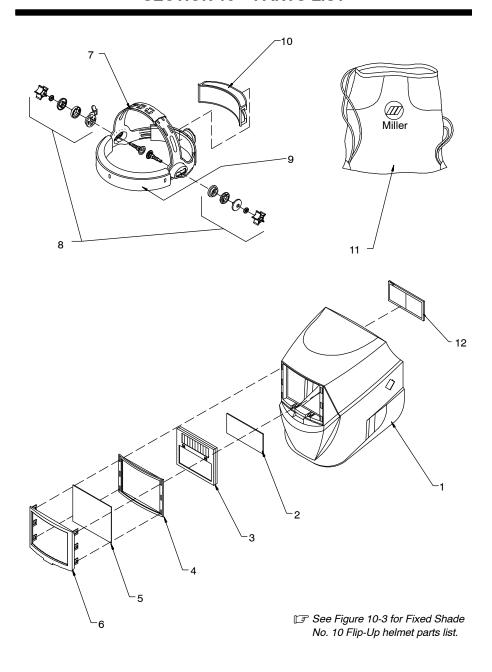


Figure 10-1. Variable Shade And Standard Fixed Shade No. 10
Auto-Darkening Welding Helmets

ItemPartNo.No.DescriptionQuantity

Figure 10-1. Variable Shade And Standard Fixed Shade No. 10 Auto-Darkening Welding Helmets

See Figure 10-3 for Fixed Shade No. 10 Flip-Up helmet parts list. 2 Lens Cover, Inside (4.25 – 1.75 in.) (5 Per Pkg.) 5 Lens, Front Cover (4.5 x 3.6875 in) (5 Per Pkg.) 8*770248 Adjustment Angle/Stop Hardware Kit 1

^{*} Adjustment Hardware Kit With O-rings.

[♦] Optional

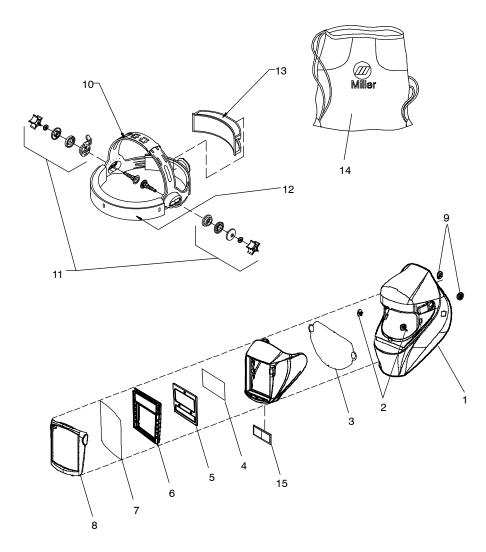


Figure 10-2. VSi Auto-Darkening Welding Helmet

Part No.

Description

Quantity

Figure 10-2. VSi Auto-Darkening Welding Helmet

	245819
	245818 Lens, Grinding Shield (Clear)
	\$254278 Lens, Tear Away Grinding Shield (Clear)
	261826 Lens Assembly, Auto-dark VSi 1
	261827 Gasket, Lens Assembly VSi (Qr)
	255070 Clips, Visor Hinge – I Series
	770246 Headgear, Gray (Includes Items 11 And 12)
	*770248 Kit, Adjustment Angle/Stop Hardware Kit 1
	079975 Replacement O-rings For Kit 770 248 (5 Per Pkg.) 1
14	♦770250 Bag, Helmet (Miller Logo)
	♦260940 Adapters, Slotted Hard Hat (Not Shown)
	\$212237Lens, 1.25 Magnification
	\$212239 Lens, 1.75 Magnification
	\$212240 Lens, 2.00 Magnification
	♦212241 Lens, 2.25 Magnification
	• 212242 Lens, 2.50 Magnification

^{*} Adjustment Hardware Kit With O-rings.

[♦] Optional

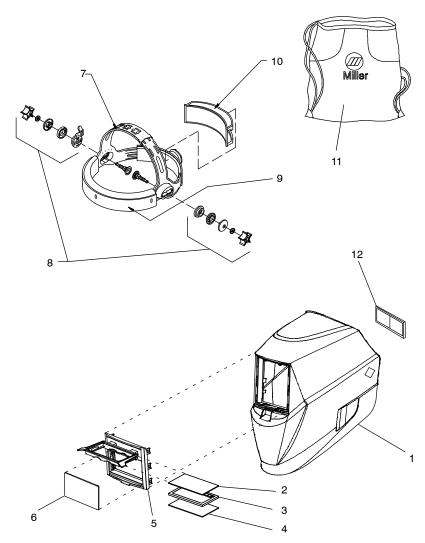


Figure 10-3. Fixed Shade No. 10 Flip-Up Welding Helmet

Figure 10-3. Fixed Shade No. 10 Flip-Up Welding Helmet

1
2
3
\$770660 Lens Assembly, 2 x 4 In. Fixed Shade No. 8 1
4
5 261829 Frame, Lens Holding, Flip-Up
6 261830 Lens, Grinding Shield, Flip-Up (Clear)
7
8
9
10
11
\$222003 Adapters, Universal Hard Hat (Not Shown)
\$260940 Adapters, Slotted Hard Hat (Not Shown)
12

^{*} Adjustment Hardware Kit With O-rings.

SECTION 11 - LIMITED WARRANTY

LIMITED WARRANTY — Subject to the terms and conditions below, Miller Electric Mfg. LLC, Appleton, Wisconsin, warrants to its original retail purchaser that the new Miller equipment sold after the effective date of this limited warranty is free of defects in material and workmanship at the time it is shipped by Miller. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

Miller Classic auto-darkening lens helmets are warranted for 2 years from the date of purchase. *Proof of purchase is required for warranty transactions so it is imperative that a copy of the original invoice or sales receipt be retained.*

This warranty provides specific legal rights, and other rights may be available depending on your state or province.

For warranty transactions, contact your Miller Distributor.

Miller Helmet Warr 2019-02

Effective January 1, 2019

[♦] Optional



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www.MillerWelds.com



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