



OM-288717B

2023-02

Ultra HDV

**Auto-Darkening Helmet w/
Clearlight Lens**




OWNER'S MANUAL


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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. Arc Welding 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. 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.



ARC RAYS can burn eyes and skin.

Arc rays from the welding process produce intense visible and invisible (ultra-violet 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 Principal 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 leather or flame-resistant clothing (FRC). 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.

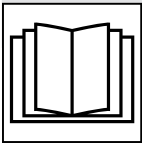
- Wear approved ear protection if noise level is high.



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

Arc rays from the welding process produce intense visible and invisible (ultra-violet 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.
- This helmet provides protection from projectiles associated with grinding, chipping, and related activities; it is not a hard hat and does not provide protection from falling objects.



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 air-supplied respirator. The coatings and any metals containing these elements can give off toxic fumes if welded.

1-3. California Proposition 65 Warnings

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

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)	Less than 60	7	--
	3/32-5/32 (2.4-4.0)	60–160	8	10
	5/32-1/4 (4.0-6.4)	160–250	10	12
	More than 1/4 (6.4)	250–550	11	14
Gas Metal Arc Welding (GMAW) Flux Cored Arc Welding (FCAW)		Less than 60	7	--
		60–160	10	11
		160–250	10	12
		250–500	10	14
Gas Tungsten Arc Welding (TIG)		Less than 50	8	10
		50–150	8	12
		150–500	10	14
Air Carbon Arc Cutting (CAC-A)	Light	Less than 500	10	12
	Heavy	500–1000	11	14
Plasma Arc Cutting (PAC)		Less than 20	4	4
		20–40	5	5
		40–60	6	6
		60–80	8	8
		80–300	8	9
		300–400	9	12
Plasma Arc Welding (PAW)		400–800	10	14
		Less than 20	6	6–8
		20–100	8	10
		100–400	10	12
		400–800	11	14

Reference: ANSI Z49.1:2021

*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.

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.

Industrial Head Protection, ANSI/ISEA Standard Z89.1 from American National Standards Institute. Website: www.ansi.org.



Australian National Work Health Safety Policy from Safe Work Australia. Website: www.safework-kaustralia.com.

Safety in Welding and Allied Processes, AS1674.1 and AS1674.2 part 1 and 2 from SAI Global. Website: www.saiglobal.com.




Helmet 2022–01

SECTION 2 – DEFINITIONS

2-1. Additional Safety Symbol Definitions

	Warning! Watch Out! There are possible hazards as shown by the symbols.
	Accidental ingestion prevention. Keep battery away from children. Battery is harmful if swallowed.

2-2. Miscellaneous Symbols And Definitions

	Positive
	Negative
	Power On/ Off

SECTION 3 – SPECIFICATIONS





INJURY due to impact. Falling objects can be hazardous.

Head covering by the helmet provides protection from projectile particles, associated with grinding and chipping. For Australia & New Zealand, rating is "High Impact" in accordance with AS/NZS1337.1

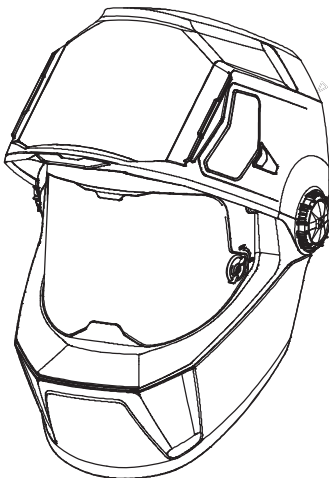
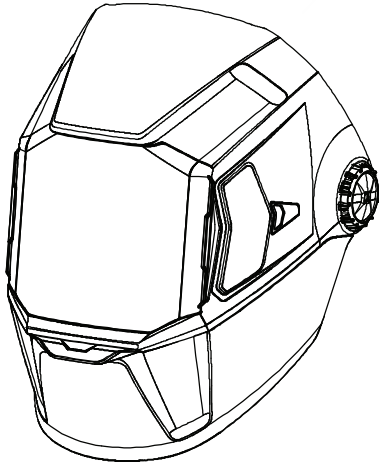


WARNING: The helmet is not to be considered a hard hat, and will not provide protection from falling object. If head protection is required consult your safety officer. For Australia & New Zealand the helmet does not meet the requirements of AS/NZS 1801.

Specification	Ultra HDV
Viewing Field	3.81 x 2.62 in. (97 x 60 mm)
Reaction Time	0.0000400 sec (1/25,000)
Available Shades <i>All Shades Provide Continuous UV And IR Protection.</i>	<p>Weld Mode Darkened State: No. 8 – No. 12.5 Light State: No. 2.5</p> <p>Cut Mode Darkened State: No. 5 – No. 8 Light State: No. 2.5</p> <p>Grind Mode Light State: No. 2.5</p> <p>X-Mode Darkened State: No. 8 – No. 12.5 Light State: No. 2.5</p>
Sensitivity Control	Adjustable For Varying Ambient Light And Welding/Cutting Arc.
Delay Control	Slows Lens Dark-To-Light State Between 0.1 And 1.0 Seconds
Automatic Power Off	Shuts Lens Off 45 Minutes After Last Arc Is Struck
Low Battery Light	Red LED Illuminates To Indicate 2-3 Days Remaining Battery Life
Power Supply	CR2450 Lithium Battery
Sensors	Independent/Redundant (Four)
Operating Temperature	14 F to 131° F / -10 C to +55° C  <i>When Stored In Extremely Cold Temperatures, Warm Helmet to Ambient Temperature Before Welding.</i>
Storage Temperature	-4 F to 158° F / -20 C to +70° C  <i>When Stored In Extremely Cold Temperatures, Warm Helmet to Ambient Temperature Before Welding.</i>
Total Weight	709 g (25 oz)
Standards	EN 379 Optical Class 1/1/1/2 Australian and New Zealand AS/NZS 1337.1 High Impact AS/NZS 1338.1
Impact Rating	High Impact AS/NZS 1337.1 B
Warranty	Three Years From Date Of Purchase (Section 12)

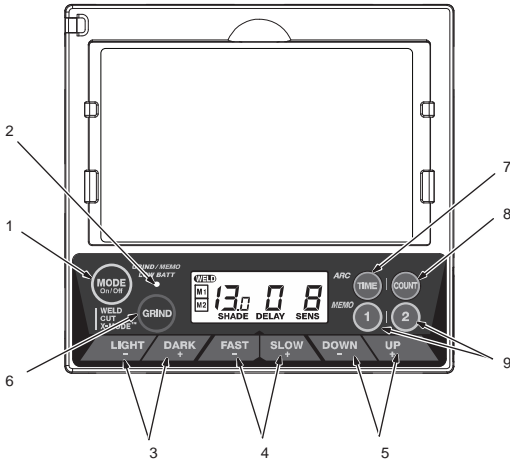
SECTION 4 – OPERATING INSTRUCTIONS

4-1. Helmet Configurations



The Ultra HDV helmet features a flip-up auto-darkening lens and a separate, clear grinding shield. Flip the lens up when grinding and performing other non-welding work. Flip the lens down when welding or cutting.

4-2. Helmet Controls



☞ After One-Touch system is activated (Section 4-3), the auto-darkening lens turns on (darkens) automatically when welding begins and turns off when welding stops.

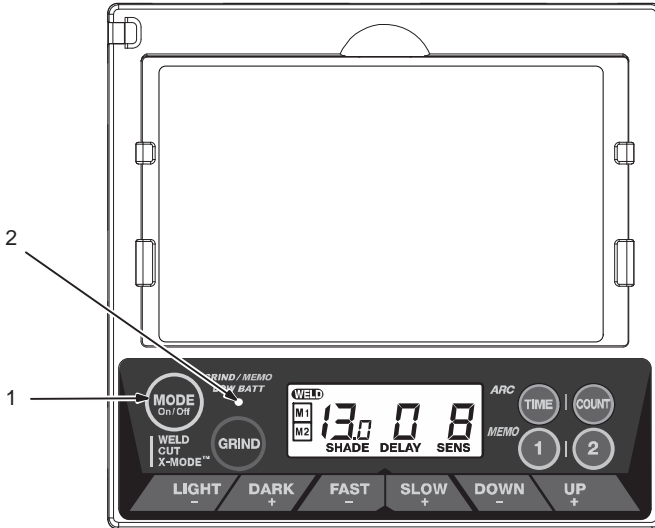
- 1 Mode (On/Off) Button (On/Off) (Section 4-3)
- 2 Grind/Memo Low Battery Light (Section 4-3)
- 3 Variable Shade Control Buttons (See Section 4-5)
- 4 Lens Delay Control Buttons (See Section 4-6)
- 5 Sensitivity Control Buttons (Section 4-7)
- 6 Grind Button
- 7 Arc Time Button
- 8 Arc Count Button
- 9 Memo Buttons

☞ The lens assembly saves the shade, sensitivity, and delay settings.

☞ Activate lens by pressing the Mode (On/Off) button longer than one second (Section 4-3).

☞ The Memo 1 and Memo 2 buttons save the current mode, shade, sensitivity, and delay settings (Section 4-10).

4-3. Mode Control And Grind/Memo/Low Battery Light



☞ After One-Touch system is activated), the auto-darkening lens turns on (darkens) automatically when welding begins and turns off when welding stops.

1 Mode Button

Activate lens by pressing the Mode button longer than one second.

Press Mode button to check if the lens is working properly and to begin lens adjustments.

When the Mode button is pressed, the helmet control menu is displayed. Do not use

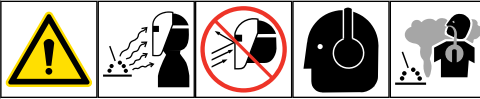
the helmet if the lens does not function as described.

2 Grind/Memo/Low Battery Light

The Grind/Memo/Low Battery light blinks red when the lens is in the Grind mode. The red light remains lit when 2–3 days of battery life remains.

If battery power is low, replace with CR2450 lithium battery (one required). See Section 7-1.

4-4. Mode Control Settings



- 1 Mode (On/Off) Button
- 2 Grind Mode Button

Press Mode button to select the mode appropriate for the work activity:

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.

Cut Mode- Used for cutting applications. In this mode the lens turns on when it optically senses a cutting 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.

Grind Mode- Used for metal grinding applications. In this mode the shade is fixed shade No. 3. No lens adjustments are possible.

To use the Grind mode, press the Grind button once. Press Mode button to return to prior setting.

4-5. Variable Shade Control



1 Mode Control Button

2 Variable Shade Adjustment Buttons

Use the Light and Dark adjustment buttons to adjust the lens shade in the darkened state. Use the table in Section 1-4 to select proper shade control setting based on your welding process. The shade ranges for each mode are as follows:

Weld- No. 8 – No. 13

Cut - No. 5 – No. 8

Grind - No. 3 only

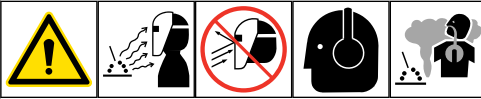
X-Mode - No. 8 – No. 13

Start at the highest setting and adjust lighter to suit the application and your personal preference.

Variable Shade Adjustment Procedure

- Press the Mode (On/Off) button to turn lens On. Helmet display appears.
- Press Mode (On/Off) Button to select desired function: Weld, Cut, Grind, or X-Mode.
- Use Light and Dark adjustment buttons to select desired shade.
- Begin welding or continue with other lens adjustments.

4-6. Lens Delay Control



1 Mode (On/Off) Button

2 Lens Delay Adjustment Buttons

Use the Lens Delay Fast and Slow buttons to adjust the time for the lens to switch to the clear state after welding or cutting.

The delay is particularly useful in eliminating bright after-rays present in higher amperage applications where the molten puddle remains bright momentarily after welding. Use the Lens Delay Fast and Slow buttons to adjust delay from 0 to 10 (0.1 to 1.0 second).

The delay ranges for each mode are as follows:

Weld, Cut, And X-Modes - No. 0–No. 10

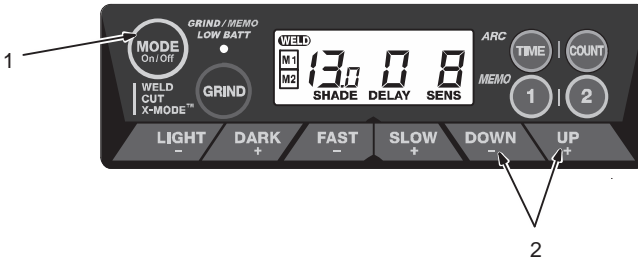
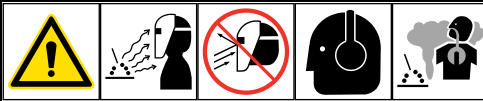
Grind Mode- No delay adjustment

There is no lens delay adjustment in the Grind mode.

Lens Delay Adjustment Procedure

- Press Mode (On/Off) button to turn lens On. Helmet control display appears.
- Press Mode button to select desired function: Weld, Cut, or X-Mode.
- Use Lens Delay Fast and Slow buttons to select desired delay.
- Begin welding or continue with other lens adjustments.

4-7. Sensitivity Control



- 1 Mode (On/Off) Button
- 2 Sensitivity Adjustment Buttons

Use Sensitivity 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.

The sensitivity ranges for each mode are as follows:

Weld, Cut, X-Modes - No. 0 – No. 10

Grind Mode - No sensitivity adjustment

⚠ Do not weld in the Grind mode; the lens will not darken.

Sensitivity Adjustment Procedure

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

- Press Mode (On/Off) button to turn helmet On. Helmet display appears.
- Press Mode (On/Off) button to select desired function: Weld, Cut, or X-Mode.
- Use Sensitivity Up and Down buttons to adjust sensitivity control to lowest setting.
- Face the helmet in the direction of use, exposing it to the surrounding light conditions.
- Press Sensitivity Up button until the lens darkens, then press Sensitivity down button until lens clears.

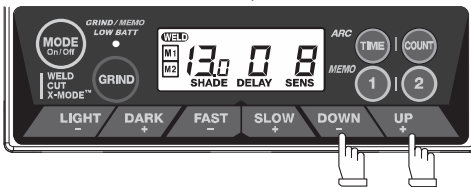
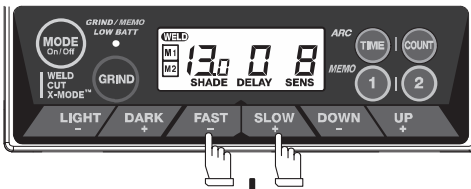
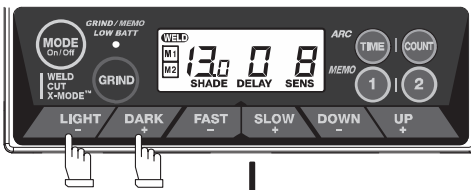
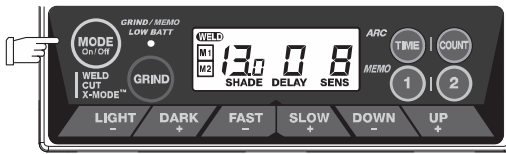
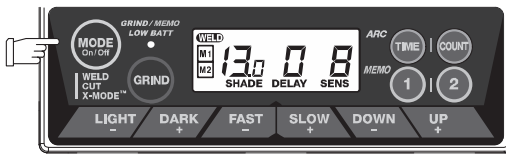
Helmet is ready for use. Slight readjustment may be necessary for certain applications or if lens is flashing on and off.

Reduce Sensitivity setting if lens stays dark longer than Delay setting.

Recommended Sensitivity Settings

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

4-8. Typical Lens Adjustment Procedure



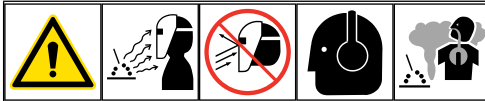
☞ Lens assembly displays prior settings when turned On. Retained settings are not shown in example.

☞ In the Grind mode the lens is a fixed shade No. 3. No lens adjustments are possible.

Adjusting Lens Assembly

- Turn lens On. Display screen appears.
- Select mode (Weld, Cut, Grind, X-Mode).
- Select shade by pressing Light (-) and Dark (+) buttons.
- Select Delay by pressing Fast (-) and Slow (+) buttons.
- Select Sensitivity by pressing Down (-) and Up (+) Buttons.
- Begin work.

4-9. Arc Time And Arc Count Buttons



Press the Mode (On/Off) button to select either the Arc Time or Arc Count function.

1 Arc Time Button

Press Arc Time button to record the amount of time the lens assembly is in the dark state (exposed to arc). Press and hold the Arc Time button to reset.

2 Arc Count Button

Press Arc Count button to record the number of times the lens darkens (exposed to arc). Press and hold the Arc Count button to reset..

The lens automatically exits either function after 30 seconds of inactivity.

4-10. Memo Buttons



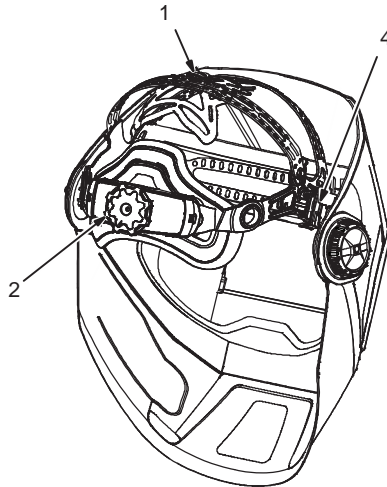
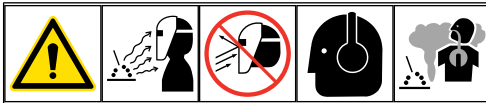
1 Memo Buttons


Use Memo buttons 1 and 2 to save (and restore) lens mode, shade, delay, and sensitivity settings. Each Memo button can save one group of settings.

- Press Memo 1 or Memo 2 button for one second to save the lens current settings.
- Press Memo 1 or Memo 2 button to restore the Memo 1 or Memo 2 saved settings.

SECTION 5 – ADJUSTING HEADGEAR

5-1. 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, turn the adjusting knob located on the back of the headgear left or right to desired tightness.

3 Angle Adjustment (Not Shown)

Seven slots on the right side of the headband provide adjustment for the forward tilt of the helmet. To adjust, lift and reposition the control arm to the desired position.

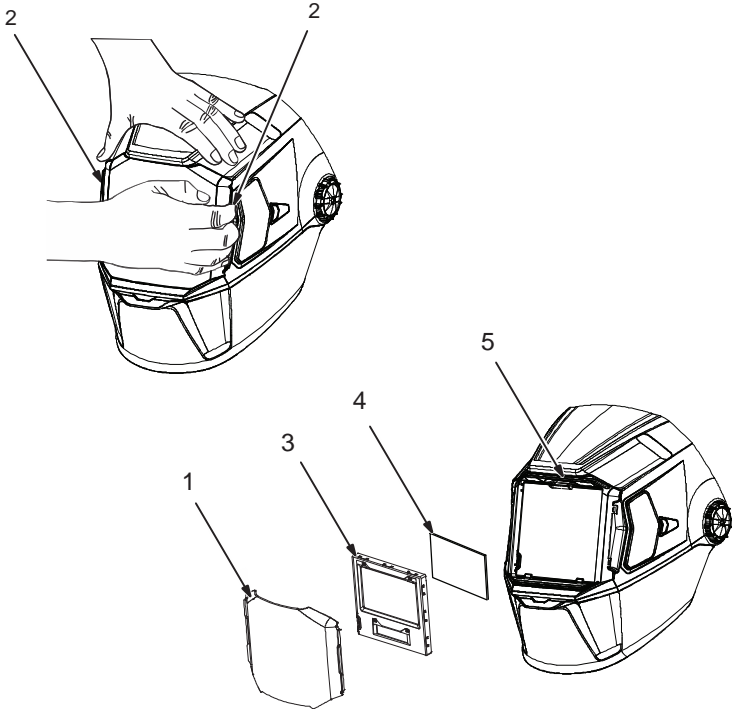
4 Distance Adjustment

Adjusts the distance between the face and the lens. To adjust, press black tabs on the top and bottom of the pivot point and use other hand to slide headgear forward or backward. Release tabs. (Both sides must be equally positioned for proper vision.)

 *Numbers on the adjustment slides indicate set position so both sides can be adjusted equally.*

SECTION 6 – REPLACING LENS COVERS

6-1. Replacing The Lens Covers



⚠ 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.

Outside Lens Cover


- 1 Outside Lens Cover
- 2 Outside Lens Cover Release Points

Remove outside lens cover by pulling the cover away from the helmet on either side of the lens cover.

Inside Lens Cover

- 3 Auto-Darkening Lens
- 4 Inside Lens Cover

Remove the inside lens cover by pulling top center of lens cover from lens holding channels. Replace the lens cover by gently bowing it in the center and inserting it, one end at a time, into the lens holding channels.

 *Be sure the cover lens is seated properly to prevent fogging.*

Auto-Darkening Lens

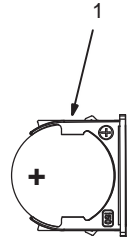
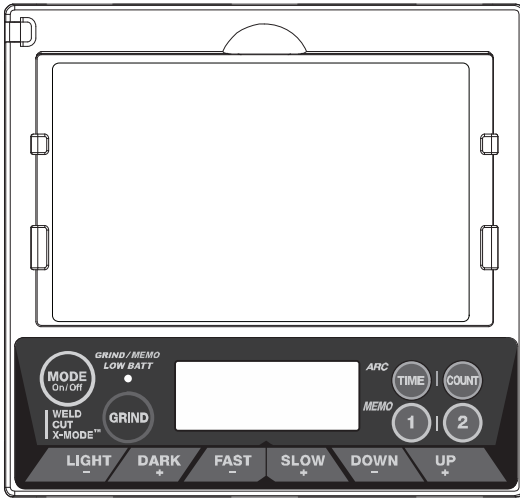
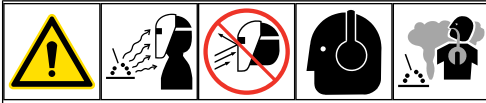
- 5 Lens Release Tab

Remove outside lens cover as instructed previously. Press up on lens release tab while pushing auto-darkening lens assembly out of shell from the inside.

Reinstall lens by aligning lens on release tabs. Press on lens until it snaps into place.

SECTION 7 – REPLACING THE BATTERY

7-1. Replacing The Battery



To replace the battery, begin by removing the auto-darkening lens assembly (see Section 6-1).

1 Battery Tray

After removing the lens assembly, slide the battery holding tray out and remove the old battery.

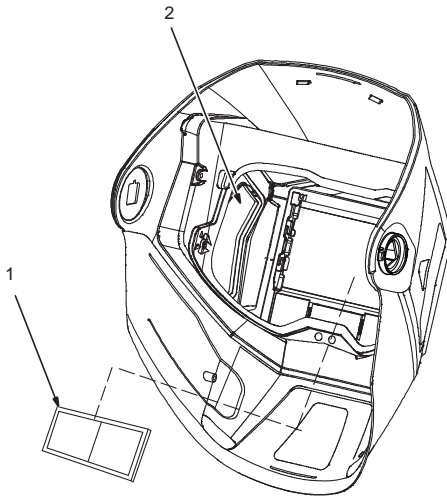
Replace with CR2450 lithium battery (one required).

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

Reinstall the battery tray. To test, press the Mode (On/Off) button. The display screen should turn on. Reinstall the lens assembly.

SECTION 8 – INSTALLING OPTIONAL MAGNIFYING LENS AND SLIDING SIDE COVERS

8-1. Installing Optional Magnifying Lens And Sliding Side Covers




1 Optional Magnifying Lens

Starting at the bottom, slide magnifying lens into the helmet retaining brackets.

Align the magnifying lens with the auto-darkening lens assembly.




Reverse procedure to remove magnifying lens.

 *To prevent lens fogging, install flat side of magnifying lens toward auto-darkening lens.*

2 Side Covers

Hold and pull/push small handle at center edge of side cover to slide cover from helmet shell.

SECTION 9 – MAINTENANCE AND STORAGE

-  *Do not use solvents or abrasive cleaning detergents to clean the helmet. Do not immerse the lens assembly in water.*
-  *Keep helmet dry; do not expose helmet to rain or snow. Keep helmet away from fire and other sources of heat.*
-  *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.

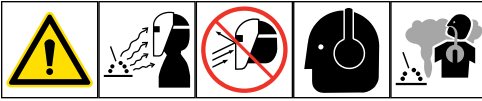
Store helmet in a clean, dry, cool place free of solvent-based vapors. To prevent battery from losing power, store helmet in helmet bag or in a dark location. Remove battery(s) if helmet will be stored longer than six months.

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.)

SECTION 10 – TROUBLESHOOTING

10-1. Troubleshooting



Trouble	Remedy
Auto lens not On – auto-lens does not darken momentarily when the Mode (On/Off) button is pressed.	Check battery and verify it is in good condition and installed properly.
	Check battery surfaces and contacts, and clean if necessary.
	Check battery for proper contact and gently adjust contact points if necessary. This is particularly important if the helmet has been dropped.
Not switching – auto-lens stays light and does not darken when welding or cutting.	Stop welding or cutting immediately: Press the Mode (On/Off) button.
	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.
Not Switching – auto-lens stays dark after the arc is extinguished, or the auto-lens stays dark when no arc is present.	Reduce Sensitivity setting (see Section). 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 or cutting 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).
Switching or Flickering – the auto-lens darkens then lightens while the welding or cutting 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 0.1 - 0.3 second 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.

SECTION 11 – PARTS LIST

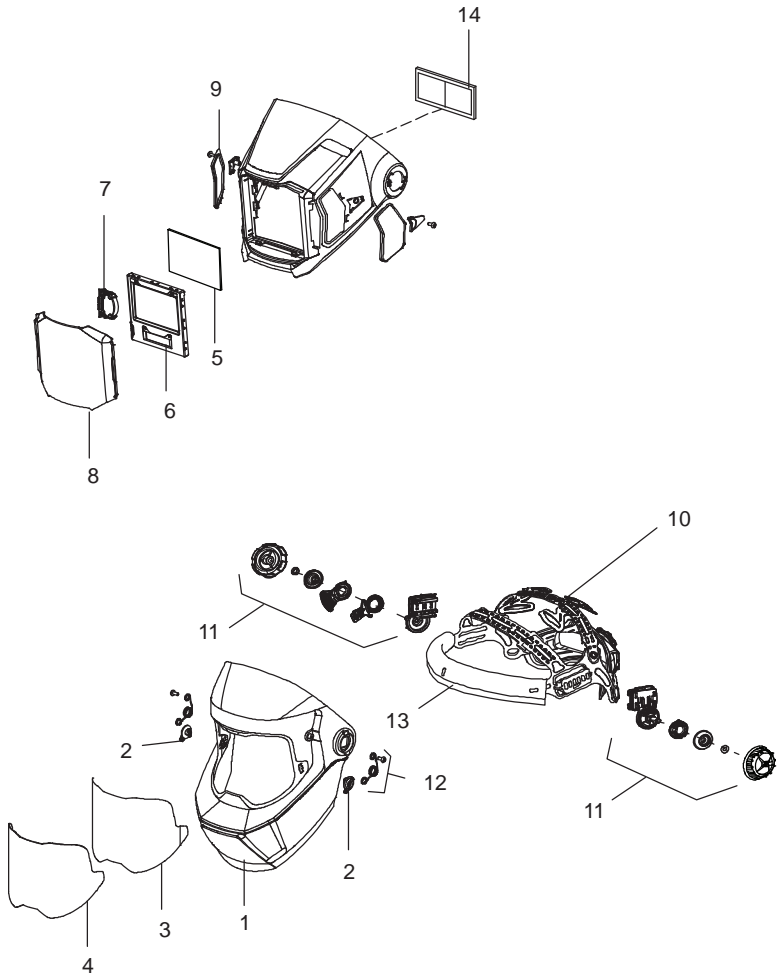


Figure 11-1. Ultra HDV Auto-Darkening Helmet

Ultra HDV Auto-Darkening Welding Helmet

Item No.	Part No.	Description	Qty.
1	305002	Helmet, Shell Ultra HDV	1
	216714	Label, Warning Helmet En/Sp/Fr	1
2	245819	Clip, Retaining Grinding Shield Left And Right	2
3	305007	Lens, Grinding Shield (Clear)	1
4	258853	Shield, Grinding Tear Away	1
5	216327	Lens Cover, Inside 4.1875 x 2.5 In	1
6	305005	Auto-Darkening Lens Assy.	1
7	259574	Tray, Battery	1
	217043	Battery, Non-Rechargeable CR2450	1
8	305004	Lens Cover, Front	1
9	305006	Covers, Side Window	2
10	260486	Headgear, Grey	1
11	265891	Adjustment Angle/Stop Hardware Kit (Includes Left And Right Sides w/O-Rings)	1
12	284548	Spring, Torsional	1
13	770249	Headband, Fabric	1
14	◆212238	Lens, 1.50 Magnification	1
14	◆212240	Lens, 2.00 Magnification	1
14	◆212242	Lens, 2.50 Magnification	1
	◆770250	Bag, Helmet Miller Logo	1

◆ Optional

SECTION 12 – LIMITED WARRANTY

LIMITED WARRANTY (AUSTRALIA)

Welding Industries of Australia (WIA) warrants to the original retail purchaser that the Miller Auto-Darkening welding helmet purchased (Product) will be free from defects in materials and workmanship for a period of 3 years from the date of purchase of the Product by the customer. If a defect in material or workmanship becomes evident during that period, Welding Industries of Australia will, at its option, either:

- Repair the Product (or pay for the costs of repair of the Product); or
- Replace the Product.

In the event of such a defect, the customer should return the Product to the original place of purchase, with proof of purchase, or contact Welding Industries of Australia on 1300 300 884.

Any handling and transportation costs (and other expenses) incurred in claiming under this warranty are not covered by this warranty and will not be borne by Welding Industries of Australia. Welding Industries of Australia will return the replacement Product (if found faulty) or the original Product (if not faulty) freight free to the customer.

This warranty covers the auto-darkening lens only, and does not extend to the helmet shell, headgear or accessories included in the original purchase package.

The obligation of Welding Industries of Australia under this warranty is limited to the circumstances set out above and is subject to:

- The customer being able to evidence the acquisition of the Product, the purchase price paid for the Product and the relevant defect in materials or workmanship;
- The Product not having been altered, tampered with or otherwise dealt with by any person in a manner other than as intended in respect of the relevant Product; and
- The Product not having been used or applied in a manner that is contrary to customary usage or application for the relevant Product or contrary to any stated instructions or specification of Welding Industries of Australia.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits given by this warranty are in addition to other rights and remedies which may be available to the customer under any law in relation to goods and services to which this warranty relates.

Warranty provided by:

Welding Industries of Australia (ABN 63 004 235 063)

A Division of ITW Australia Pty Ltd

5 Allan Street, Melrose Park, South Australia, 5039

Ph. 1300 300 884

Email: info@welding.com.au

Web: www.welding.com.au

LIMITED WARRANTY (NEW ZEALAND)

Weldwell warrants to the original retail purchaser that the Miller Auto-Darkening welding helmet purchased (Product) will be free from defects in materials and workmanship for a period of 3 years from the date of purchase of the Product by the customer. If a defect in material or workmanship becomes evident during that period, Weldwell will, at its option, either:

- Repair the Product (or pay for the costs of repair of the Product); or
- Replace the Product.

In the event of such a defect, the customer should return the Product to the original place of purchase, with proof of purchase, or contact Weldwell on 06 834 1600.

Any handling and transportation costs (and other expenses) incurred in claiming under this warranty are not covered by this warranty and will not be borne by Weldwell. Weldwell will return the replacement Product (if found faulty) or the original Product (if not faulty) freight free to the customer.

This warranty covers the auto-darkening lens only, and does not extend to the helmet shell, headgear or accessories included in the original purchase package.

The obligation of Weldwell under this warranty is limited to the circumstances set out above and is subject to:

- The customer being able to evidence the acquisition of the Product, the purchase price paid for the Product and the relevant defect in materials or workmanship;
- The Product not having been altered, tampered with or otherwise dealt with by any person in a manner other than as intended in respect of the relevant Product; and
- The Product not having been used or applied in a manner that is contrary to customary usage or application for the relevant Product or contrary to any stated instructions or specification of Weldwell.

Our goods come with guarantees that cannot be excluded under the New Zealand Consumer Guarantees Act. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits given by this warranty are in addition to other rights and remedies which may be available to the customer under any law in relation to goods and services to which this warranty relates.

Warranty provided by:

Weldwell (NZBN 9429039833129)

A Division of the ITW Welding Group

64 Thames Street, Napier 4110

Ph. 0800 WELDWELL

Email: info@weldwell.co.nz

Web: www.weldwell.co.nz

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

www.MillerWelds.com

Visit our Australian website at

www.welding.com.au

Phone 1300 300 884

Visit our New Zealand website
at

www.weldwell.co.nz

Phone 0800 9353 9355