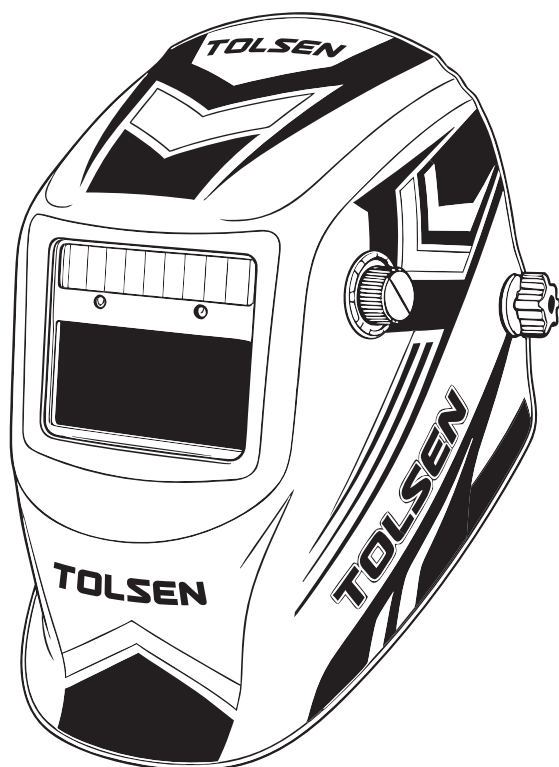


TOLSEN

AUTOMATIC WELDING MASK 45084

INSTRUCTION MANUAL



CE

SAVE THIS MANUAL !

You will need this manual for safety instructions, operating procedures and warranty.
Put it and the original sales receipt in a safe dry place for future reference.

SAFETY WARNINGS

WARNING!

The Solar-Powered Auto-Darkening Welding Helmet is suitable for most welding applications. This helmet's 1/30,000-second switch time automatically darkens the lens the moment you start welding. No matter what shade the filter is set to, the UV/IR protection is always present.

ARC RAYS CAN INJURE EYES AND BURN SKIN



Before welding, always inspect helmet and auto-darkening filter (ADF) to be sure they are fitted properly and in good condition.

Keep the sensors, solar cell and filter lens clean. Clean the filter cartridge using a soap water solution and soft cloth.

Do not use solvents or abrasive cleaning detergent. Do not weld in the overhead position while using this helmet.

Inspect the filter lens frequently and immediately replace any scratched, cracked, or pitted filter lens or cover lenses.

Always wear safety glasses or goggles under the welding helmet, and protective clothing to protect your skin from radiation, burns and spatter.

SPECIFICATIONS

Viewing Area	92×42mm
Cartridge Size	110x90mm
Arc Sensor	2
UV/IR Protection	UP to shade DIN 16 at all times
Light State	DIN 4 (Grind)
Dark State	External variable shade, DIN9-13
Sensitivity Control	Low-High, by infinitely dial knob
Switch Time (Light to Dark)	1/25,000S, from Light to Dark
Delay Control (Dark to Light)	0.1-1.0S, by infinitely dial knob, from Dark to Light
Power Supply	Solar cell and replaceable 1xCR2032 lithium battery
TIG AMP Rating	DC≥10, AC≤10
Operating Temperature	-5°C to +55°C
Storing Temperature	-20°C to +70°C
Other Function	ADF Self-test Button and Low Voltage Indicator

A line drawing of a helmet from a top-down perspective. It features a chin strap with a buckle (1), a forehead strap (2), and two side straps (3). Arrows (4) point outwards from the side straps, and an arrow (5) points upwards from the forehead strap, indicating adjustment directions.

1. Adjust the headgear diameter with the twist knob on the back. The knob is locked until pushed in. Once unlocked, twist clockwise to tighten and counterclockwise to loosen.
2. Adjust the height by snapping the pin into the hole to lock securely in place.
3. To adjust the viewing angle, loosen the knob on both sides of the helmet and change angle locker to the desired tilt position (5 selection and positioned in the middle by default). Once achieving the desired angle, tighten the knobs until snug. The helmet should still swing up, but it should not drift downward when in place for welding.

- | | Welding Process | Arc Current(Amperes) | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------|--|---|----|----|----|----|----|----|-----|-----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| | | 1.5 | 6 | 10 | 15 | 30 | 40 | 60 | 70 | 100 | 125 | 150 | 175 | 200 | 225 | 250 | 300 | 350 | 400 | 450 | 500 | 600 | |
| ☑ | SMAW | 8 | | | | | | 9 | | 10 | | 11 | | 12 | | | 13 | | | 14 | | | |
| ☑ | MAG | | | | | | | 8 | | 9 | | 10 | | 11 | | | 12 | | | 13 | | | 14 |
| ☑ | TIG | 8 | | | | 9 | | | 10 | | 11 | | | 12 | | | 13 | | | | | | |
| ☑ | MIG(heavy) | | | | | | | 9 | | | 10 | | 11 | | 12 | | 13 | | 14 | | | | |
| ☑ | MIG(light) | | | | | | | 10 | | | 11 | | 12 | | 13 | | 14 | | | | | | |
| ☑ | PAC | | | | | | | 9 | | 10 | | 11 | | 12 | | | 13 | | | | | | |
| ☑ | PAW | 4 | | 5 | | 6 | | 7 | | 8 | | 9 | | 10 | | 11 | | 12 | | | | | |
| | Note | ★ SMAW-Covered electrodes
★ MAG-Metal arc Welding
★ TIG-Gas Tungsten Arc Welding
★ MIG(Heavy)-MIG with heavy metals | | | | | | | | | | ★ MIG(light)-MIG with light alloys
★ PAC-Plasma jet cutting
★ PAW-Microplasma arc welding | | | | | | | | | | | |

SENSITIVITY CONTROL

The sensitivity can be set to LOW or HIGH by using the infinitely dial knob. The LOW setting suits excess ambient light or with another welding machine close by. The HIGH setting suits low amperage welding and welding in areas with low light conditions, especially low amperage argon arc welding. Selections between LOW and HIGH are suitable for most of indoor and outdoor welding operations.

DELAY CONTROL

When welding ceases, the viewing window automatically changes from dark back to light but with a pre-set delay to compensate. The delay time can be set to MIN (0.1 sec) or MAX (1.0 sec), by infinitely dial knob inside the cartridge. The minimum delay suits spot or short welds. The maximum delay suits heavy current welding and reduces eye fatigue from the arc. Selections between MIN and MAX are suitable for most of indoor and outdoor welding operations.

MAINTENANCE

FRONT COVER LENS REPLACEMENT

Replace the front cover lens if it is damaged (cracked, scratched, pitted or dirty). Remove the old front cover lens by pressing two Lock Switches at the bottom of the Retaining Frame and pull the frame and ADF out. Take the old front cover lens out, and remove any protective film before installing the new one.

INSIDE COVER LENS REPLACEMENT

Replace the inside cover lens if it is damaged (cracked, scratched, pitted or dirty). Place your finger or thumb into the recess and flex the inside cover lens upwards until it releases from one edge. Then remove any protective film before installing the new one.

BATTERY REPLACEMENT

When low voltage indicator turns red, you have to change batteries. Rotate cover plates on the ADF, and replace the old battery by CR2032 lithium battery. After that, put on cover plates of battery and rotate to lock.

CLEANING AND STORING

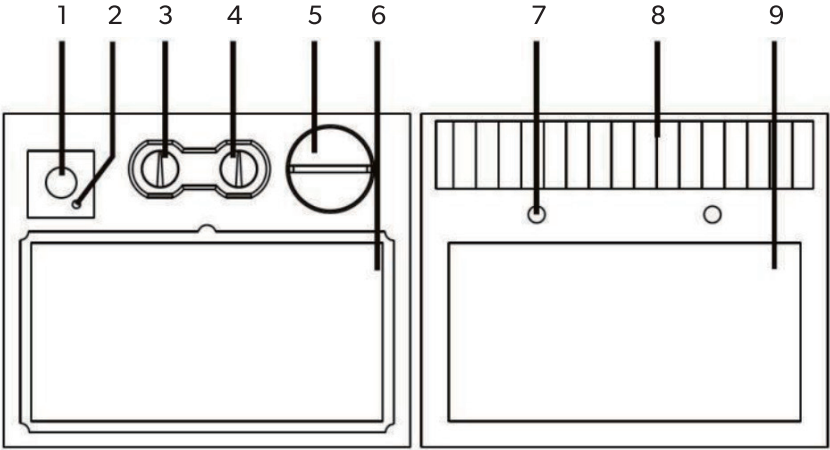
Keep the sensors, solar cell and filter lens clean. Clean filter cartridge and helmet shell by using a soapy water solution and soft cloth. Do not use solvents or abrasive cleaning detergent. Switch the product to Grind Mode and put it in a clean, dry location for storage.

TROUBLE SHOOTING

PROBLEM(S)	POSSIBLE CAUSE(S)	SUGGESTED SOLUTION(S)
Difficult to see through filter	Protective film on front/inside cover lens not removed	Remove protective film
	Front/inside cover lens dirty	Clean or replace front/inside cover lens
	Filter lens dirty	Clean filter lens
Filter does not darken when arc is struck	Grind Mode Selected	Select Weld Mode and adjust Shade from 9 to 13
	Sensors or Solar Panel blocked	Make sure sensors or solar panel are exposed to weld arc without blocking
	Set Sensitivity to LOW	Adjust sensitivity to required level
	Low Voltage of lithium battery	Replace with new lithium battery if indicator turns red
Filter darkens without arc	Set Sensitivity to HIGH	Adjust sensitivity to required level
Filter remains dark after welding	Set Delay to MAX	Adjust delay to required level

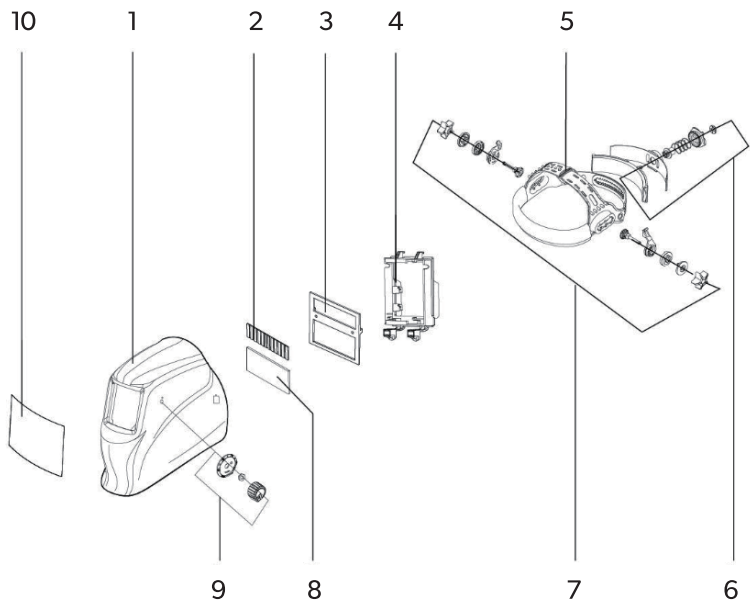
PARTS BREAKDOWN

PARTS LIST-ADF

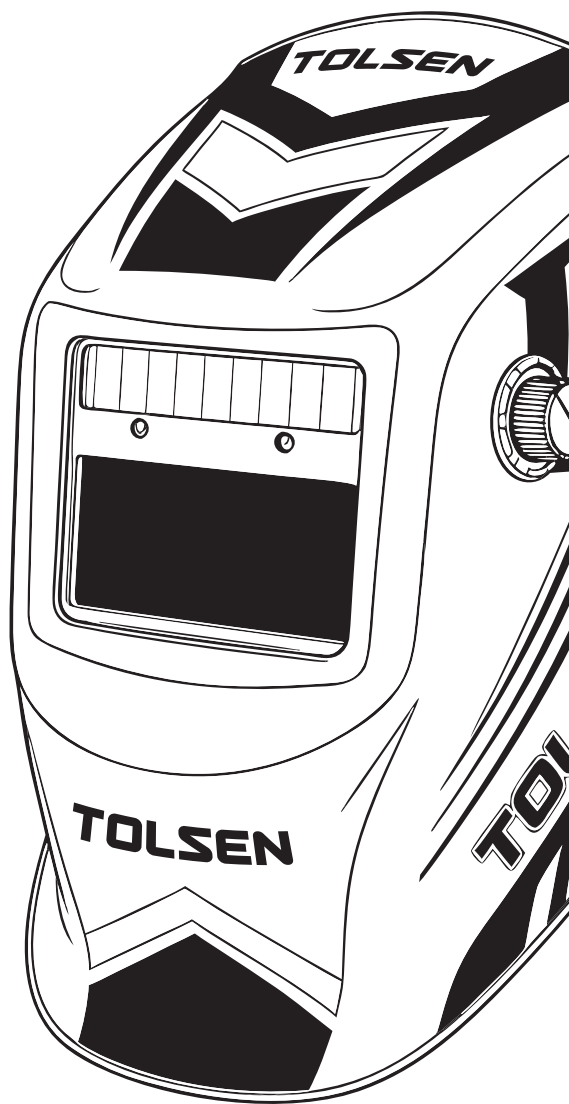


Part #	Description
1	Self-test Button
2	Low Voltage Indicator
3	Delay Control Knob
4	Sensitivity Control Knob
5	Lithium Batteries
6	LCD
7	Arc Sensors
8	Solar Panel
9	UV/IR Filter

PARTS LIST-WHOLE PRODUCT



Part #	Description
1	Helmet Shell
2	Solar panel
3	ADF shell
4	Fixture
5	Headgear Height Adjusting Pin
6	Headgear Diameter Adjusting Knob
7	Headgear Angle& Distance Adjusting Knobs
8	UV/IR Filter
9	Shade No. Adjusting
10	Front Cover Lens



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SCAN TO VISIT
PRODUCT LINK

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