

Jackson Safety JCK46159

Jackson Safety True Sight II Digital Variable Auto-Darkening Welding Helmet Instruction Manual

Model: JCK46159

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Jackson Safety True Sight II Digital Variable Auto-Darkening Welding Helmet, Model JCK46159. Please read this manual thoroughly before operation and retain it for future reference.

The True Sight II welding helmet is designed to protect your eyes and face from sparks, spatter, and harmful radiation under normal welding conditions. It features an advanced auto-darkening filter (ADF) with a digital keypad for precise control over welding parameters.

2. SAFETY INFORMATION

WARNING: Failure to read, understand, and follow all instructions can result in serious personal injury.

- Always wear appropriate eye and face protection during welding operations.
- This helmet is not suitable for laser welding or overhead welding applications.
- Do not use the helmet if the auto-darkening filter (ADF) is cracked or damaged.
- Ensure the helmet is properly fitted and adjusted before beginning any welding task.
- This product meets ANSI Z87.1-2010, CSA Z94.3 compliant, and is DIN Plus certified for safety standards.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- Jackson Safety Auto-Darkening Welding Helmet (Model JCK46159)

- Instruction Manual (this document)

4. SETUP

Before using your welding helmet, perform the following setup steps:

1. **Headgear Adjustment:** Adjust the headgear straps to ensure a comfortable and secure fit. The helmet should sit firmly on your head without being too tight or loose.
2. **Distance Adjustment:** Adjust the distance between your eyes and the auto-darkening filter for optimal viewing.
3. **Angle Adjustment:** Set the helmet's tilt angle to your preference.
4. **Magnifying Lens (Optional):** This helmet features a built-in holder for magnifying lenses (sold separately). If desired, insert the appropriate magnifying lens into the designated slot.



Figure 1: The Jackson Safety True Sight II Digital Variable Auto-Darkening Welding Helmet. This image shows the black helmet with its auto-darkening filter visible, ready for use.

5. OPERATING INSTRUCTIONS

The True Sight II helmet features a digital keypad for easy control, even with gloved hands.

5.1 Power On/Off

The helmet features an auto-off function to conserve battery life. To activate, simply expose the sensors to light. The helmet will automatically power off after a period of inactivity.

5.2 Mode Selection

Use the digital keypad to select one of the three operating modes:

- **Weld Mode:** For all standard welding processes (TIG, ARC, MIG). The ADF will darken automatically upon arc ignition.
- **Grind Mode:** The ADF remains in a light state (shade 3-4) for grinding operations, providing eye protection from flying debris without darkening.
- **Torch Mode:** Optimized for torch cutting applications, offering appropriate shade levels.

5.3 Adjustments

The digital keypad allows for precise adjustment of the following parameters:

- **Shade Level:** Variable shades from 5-13. Adjust according to the welding process and amperage. Refer to welding safety standards for recommended shade levels.
- **Sensitivity:** Controls how sensitive the sensors are to the welding arc. Adjust for different ambient light conditions and welding processes. Higher sensitivity means the filter will darken with less light.
- **Delay:** Determines how long the filter remains dark after the welding arc ceases. Adjust for different welding applications to prevent eye fatigue from afterglow.

6. MAINTENANCE

Proper maintenance ensures the longevity and performance of your welding helmet.

- **Cleaning:** Clean the auto-darkening filter and cover lenses regularly with a soft, clean cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** The helmet features a low battery alert. When indicated, replace the batteries according to the instructions provided in the battery compartment. Use only recommended battery types.
- **Inspection:** Periodically inspect the helmet for any signs of damage, including cracks in the shell or ADF, loose components, or worn headgear. Replace damaged parts immediately.
- **Storage:** Store the helmet in a dry, clean environment away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter issues with your welding helmet, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Filter does not darken when arc is struck.	Low battery. Sensors are blocked or dirty. Sensitivity setting is too low. Helmet is in Grind Mode.	Replace batteries. Clean sensors. Increase sensitivity setting. Switch to Weld Mode.
Poor visibility.	Cover lenses are dirty or scratched. Incorrect shade level selected.	Clean or replace cover lenses. Adjust shade level appropriately.

Problem	Possible Cause	Solution
Helmet feels uncomfortable or unstable.	Headgear not properly adjusted.	Re-adjust headgear for a secure and balanced fit.

8. SPECIFICATIONS

Model Number	JCK46159
Viewing Area	4.0 In. x 3.25 In.
Optical Clarity Rating	1/1/1/1
Variable Shade Range	5-13
Operating Modes	Weld, Grind, Torch
Sensors	Four (4)
Power	Auto-off function, Low battery alert
Certifications	ANSI Z87.1-2010, CSA Z94.3 compliant, DIN Plus certified
Item Weight	2.16 pounds
Product Dimensions	10.9 x 9.4 x 10.9 inches
Manufacturer	SUREWERX USA (for Jackson Safety)

9. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Jackson Safety True Sight II Digital Variable Auto-Darkening Welding Helmet, please contact Jackson Safety customer service or visit their official website. Keep your purchase receipt as proof of purchase.

For further assistance, you may visit the [Jackson Safety Store on Amazon](#).