

Bxmgr 0700000802

Bxmgr 0700000802 Clear Front Cover Lens Instruction Manual

Compatible with ESAB Sentinel A50 Welding Helmets

1. INTRODUCTION

This manual provides essential information for the proper installation, use, and maintenance of the Bxmgr 0700000802 Clear Front Cover Lens. This product is designed as a replacement outer protective lens for ESAB Sentinel A50 welding helmets. It is crucial to read and understand these instructions before use to ensure safety and optimal performance.

Note: This lens is compatible with ESAB Sentinel A50 welding helmets only. It is NOT compatible with ESAB Sentinel A60 models.

2. SAFETY INFORMATION

- Always wear appropriate personal protective equipment (PPE), including gloves, during installation to prevent scratches on the lens and protect your hands.
- The lens is designed to withstand normal welding conditions. However, prolonged close welding can lead to thermal deformation.
- The thermal deformation temperature of the lens is 275°F (135°C). If the lens shows signs of deformation, replace it immediately to maintain clear vision and protection.
- Ensure the lens is securely installed before using the welding helmet.

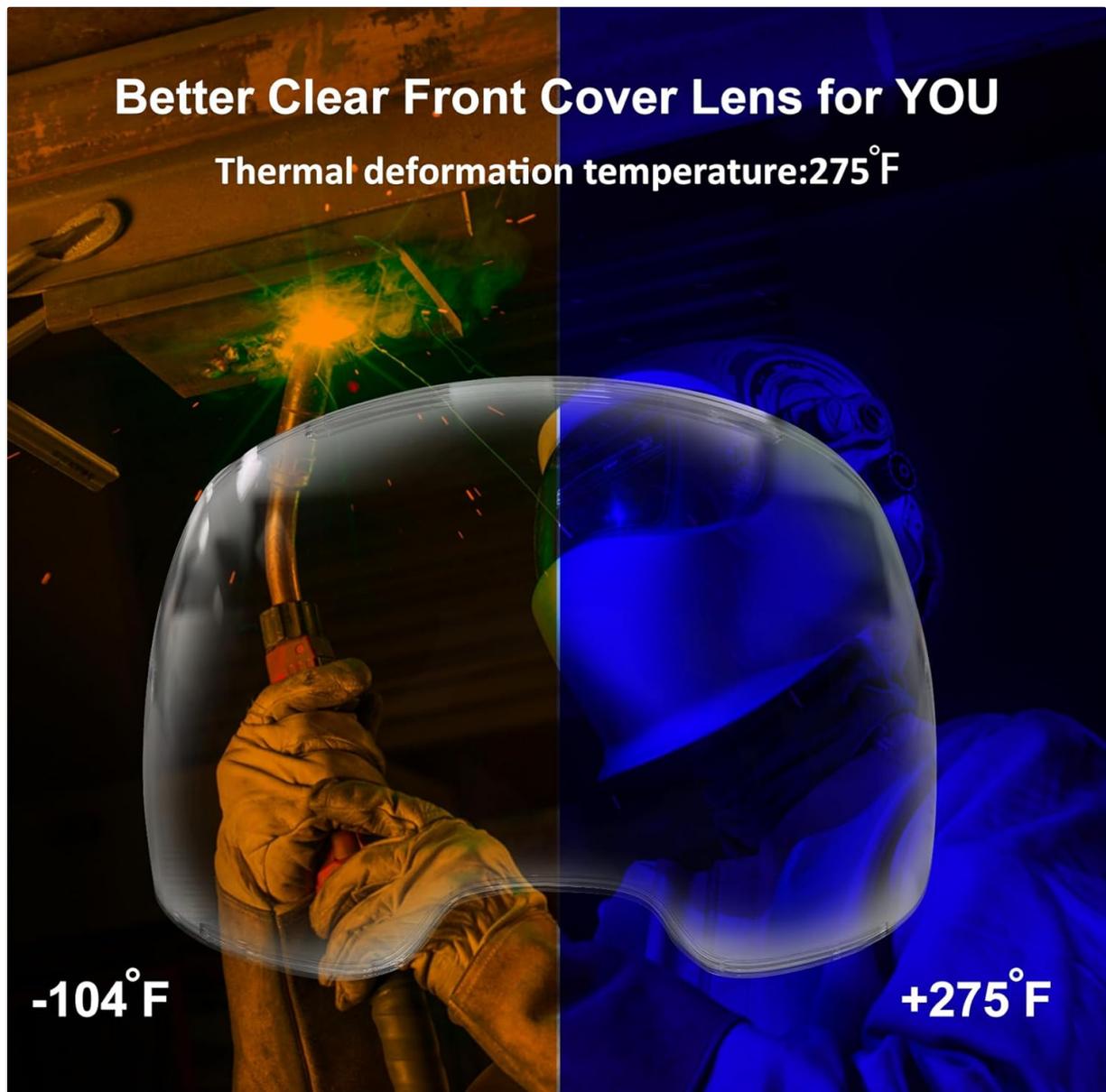


Figure 2.1: Illustration of the lens's thermal deformation temperature, indicating its resilience within a range of -104°F to +275°F.

3. SETUP AND INSTALLATION

Follow these steps to replace the clear front cover lens on your ESAB Sentinel A50 welding helmet:

- 1. Preparation:** Ensure your hands are clean, and wear gloves to prevent fingerprints or scratches on the new lens.
- 2. Disassembling the Old Lens:**
 - Locate the existing front cover lens on your welding helmet.
 - Gently press on one side of the lens (indicated as 'Press' in Figure 3.1).
 - Carefully pry up and remove the old lens from its housing.
- 3. Assembling the New Lens:**
 - Identify the groove on the welding helmet where the lens sits.
 - Insert one end of the new Bxmgr 0700000802 Clear Front Cover Lens into the groove first.
 - Carefully align the other end and press it into place until it is securely seated within the helmet's frame. Ensure the lens is flush and properly engaged in the groove.

The installation of the transparent Clear Front Cover Lens

Disassembling

① Press
② Pry up and remove the old

Assembling

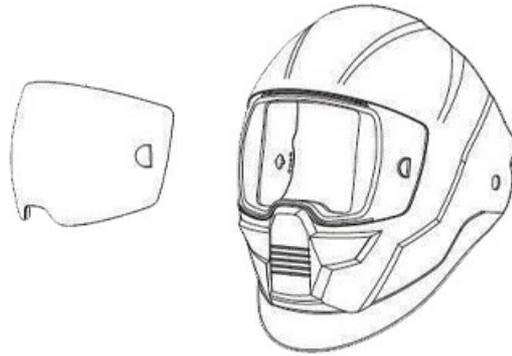
Fix the other end
Install from one end first
Notice the groove
③
①
②

Please bring gloves before installation

Figure 3.1: Visual guide for disassembling the old lens and assembling the new Bxmgr 0700000802 Clear Front Cover Lens. Remember to wear gloves.

4. OPERATING GUIDELINES

The Bxmgr 0700000802 Clear Front Cover Lens provides an extra-large field of view, measuring approximately 3.94 inches x 2.36 inches. This design ensures a wide and clear line of sight, enhancing work efficiency, especially in confined spaces.



Working temperature: -5 °C ~ +55 °C -5 °C ~ +55 °C (23 °F ~ 131 °F)

Survival Temperature 20 °C ~ +70 °C (-4 °C ~ 158 °C)

Figure 4.1: The Bxmgr 0700000802 Clear Front Cover Lens offers a viewing area of 3.94 inches by 2.36 inches.

Constructed from high-quality polycarbonate, the lens is colorless, odorless, tasteless, non-toxic, and features an 89% light transmission rate. This ensures crystal-clear clarity, reducing eye strain during extended periods of work and allowing for true color perception during welding.



Figure 4.2: The lens is designed for high clarity and light transmission, ensuring comfortable and accurate vision.

5. MAINTENANCE

Regular maintenance of your welding helmet and cover lens is essential for safety and longevity.

- **Cleaning:** Clean the lens by wiping it gently with a soft, clean cloth. For stubborn dirt, use a mild soap solution and a soft cloth, then rinse with clean water and dry thoroughly.
- **Avoid Harsh Chemicals:** Do not use strong cleaning solutions, abrasive cleaners, or solvents, as these can damage the lens material and coatings.
- **Inspection:** Regularly inspect the lens for scratches, cracks, or signs of thermal deformation. Replace the lens immediately if any damage is observed to ensure continued protection.

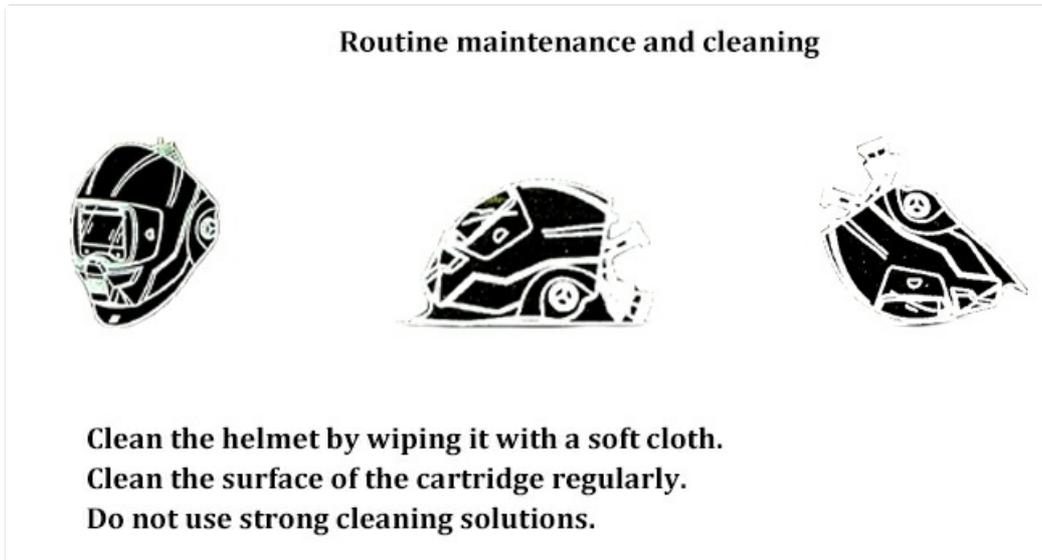


Figure 5.1: Guidelines for cleaning and maintaining your welding helmet and lens.

6. TROUBLESHOOTING

- **Lens Deformation:** If the lens appears warped or distorted, especially after prolonged close welding, it has likely exceeded its thermal deformation temperature (275°F). Replace the lens immediately.
- **Scratches:** Minor scratches can occur with use. If scratches impair visibility or compromise safety, replace the lens. Wearing gloves during installation helps prevent initial scratches.
- **Improper Fit:** Ensure you are using the correct lens for your helmet model. This Bxmgr 0700000802 lens is specifically designed for ESAB Sentinel A50 welding helmets and will not fit A60 models. Verify proper seating in the helmet's groove during installation.

7. SPECIFICATIONS

Feature	Specification
Model Number	0700000802
Compatibility	ESAB Sentinel A50 Welding Helmets (Not A60)
Material	Polycarbonate
Viewing Area Dimensions	3.94 inches x 2.36 inches

Feature	Specification
Density	1.2 G/CM ³
Light Transmittance	89%
Thermal Deformation Temperature	275°F (135°C)
Working Temperature Range	-5°C to +55°C (23°F to 131°F)
Survival Temperature Range	-20°C to +70°C (-4°F to 158°F)
Item Weight (approx.)	13.7 ounces (for a 5-pack)
Package Dimensions (approx.)	8.58 x 5.55 x 3.98 inches

8. WARRANTY AND SUPPORT

Bxmgr offers a three-year after-sales service for this product. If you encounter any issues or have questions regarding the Bxmgr 0700000802 Clear Front Cover Lens, please contact the manufacturer or your retailer for assistance. They are committed to providing satisfactory solutions.