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Jackson Safety PL280

Jackson Safety PL280 Pipeline Welding Helmet Instruction Manual

Model: PL280 (Item Number: 14321) | Brand: Jackson Safety

1. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before using this welding helmet. Failure to follow these instructions may result in serious personal injury.

- This welding helmet meets ANSI Z87.1+ and CSA Z94.3 standards for eye and face protection.
- Protect your eyes and face from welding arc rays and spatter. Always use the correct shade filter for your welding application.
- Inspect the helmet and filter regularly for any damage. Replace damaged parts immediately.
- Do not use this helmet for laser welding or oxy-acetylene cutting/welding unless specifically rated for such applications.
- Ensure proper ventilation in your work area to avoid inhaling welding fumes.

2. PRODUCT OVERVIEW

The Jackson Safety PL280 Pipeline Welding Helmet is engineered for durability, comfort, and productivity in demanding welding environments, particularly pipeline applications. Its compact design allows for access into tight working conditions.



Figure 2.1: Front view of the Jackson Safety PL280 Pipeline Welding Helmet, showcasing its durable fiberglass construction.

Key Features:

- **Compact Design:** Traditional bucket style for easy access in small spaces and tight areas, ideal for pipeline and overhead welding.
- **Durable Construction:** Molded from lightweight, impact-resistant fiberglass material that resists chips and cracks.
- **Heat Resistant:** Smooth design deflects sparks and spatter, and withstands high temperatures.
- **Clear Vision:** Equipped with a high-impact polycarbonate window and a 2" x 4.25" drop-in Shade 10 filter.
- **Comfortable Headgear:** Patented 370 Speed Dial ratcheting headgear with "Qwik-Fit" rear swivel headband and "Easy Grip-Easy Turn" adjuster knob for maximum comfort and easy adjustment, even with gloves on.
- **Standards Compliance:** Meets ANSI Z87.1+ and CSA Z94.3 standards.



Figure 2.2: A welder utilizing the Jackson Safety PL280 helmet for pipeline applications, demonstrating its compact design for tight spaces.

3. SETUP

3.1 Headgear Assembly and Adjustment

The helmet comes with a pre-assembled 370 Speed Dial ratcheting headgear. Follow these steps to ensure a proper and comfortable fit:

1. **Attach Headgear:** Align the headgear mounting points with the slots inside the helmet shell. Secure the headgear using the provided fasteners (knobs and screws). Ensure they are tightened securely but do not overtighten.
2. **Adjust Headband Size:** Place the helmet on your head. Use the "Easy Grip-Easy Turn" ratcheting adjuster knob at the back of the headgear to tighten or loosen the headband until it fits snugly and comfortably around your head.
3. **Adjust Top Strap:** The top strap can be adjusted to position the helmet correctly on your head, ensuring the viewing window is at eye level. Adjust the pins on the top strap to achieve the desired height.
4. **Adjust Tilt and Distance:** Use the side knobs to adjust the tilt of the helmet and the distance of the helmet from your face. This ensures optimal viewing angle and prevents the helmet from hitting your chest when flipped down.



PERFECT FIT
370 Speed Dial™
ratcheting headgear
easily adjusts even
with gloves on

JACKSON®
SAFETY

Figure 3.1: The 370 Speed Dial ratcheting headgear, designed for easy and precise adjustment to ensure a perfect fit.

3.2 Filter Installation

The helmet includes a 2" x 4.25" drop-in Shade 10 filter and a high-impact polycarbonate window. These are typically pre-installed. If replacement is needed:

1. **Remove Retaining Frame:** Locate the retaining frame on the inside of the helmet around the viewing window. Gently unclip or slide it out.
2. **Insert Polycarbonate Window:** Place the clear high-impact polycarbonate window into the outer slot of the viewing area.
3. **Insert Shade Filter:** Place the Shade 10 filter into the inner slot, ensuring it is correctly oriented.
4. **Re-install Retaining Frame:** Secure the retaining frame back into place, ensuring all components are held firmly.



CLEAR & SAFE VISION

- 2" x 4.25" drop-in shade 10 filter
- Meets CSA Z94.3 & ANSI Z87.1 + high impact standards



Figure 3.2: Inside view of the helmet, highlighting the clear and safe vision provided by the filter and polycarbonate window.

4. OPERATING INSTRUCTIONS

The Jackson Safety PL280 helmet features a flip-front design for convenience during welding operations.

1. **Pre-Weld Inspection:** Before each use, ensure the helmet is clean, the filter is correctly installed, and there are no cracks or damage to the shell or headgear.
2. **Positioning:** Adjust the headgear so the helmet sits comfortably and securely on your head, with the viewing window aligned with your eyes.
3. **Flip-Front Operation:**
 - To prepare for welding, pull the flip-front down until it locks into place, covering your eyes with the Shade 10 filter.
 - To inspect your weld or perform non-welding tasks without removing the helmet, push the flip-front up. This reveals the clear polycarbonate window, allowing for clear vision while maintaining face protection.
4. **Welding:** Begin welding only when the flip-front is in the down position and the Shade 10 filter is protecting your eyes.

5. MAINTENANCE

Proper maintenance extends the life of your welding helmet and ensures continued protection.

- **Cleaning the Helmet Shell:** Clean the helmet shell with mild soap and water. Avoid harsh chemicals or abrasive cleaners that could damage the fiberglass material. Wipe dry with a soft cloth.
- **Cleaning the Filter and Window:** Remove the filter and polycarbonate window. Clean them with a soft cloth and a non-abrasive lens cleaning solution. Do not use paper towels or rough materials that can scratch the surfaces.
- **Headgear Cleaning:** The headgear padding can be removed and cleaned with mild soap and water. Allow it to air dry completely before reattaching.
- **Inspection:** Regularly inspect the helmet for cracks, chips, or other damage to the shell, headgear, and filter. Replace any damaged components immediately. Ensure all fasteners are secure.
- **Storage:** Store the helmet in a clean, dry place away from direct sunlight, extreme temperatures, and corrosive substances.

6. TROUBLESHOOTING

If you encounter issues with your Jackson Safety PL280 welding helmet, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|--------------------------------------|--|--|
| Unclear Vision | Dirty filter/window; Scratched filter/window. | Clean the filter and polycarbonate window with a soft cloth and lens cleaner. Replace if scratched or damaged. |
| Helmet feels loose or uncomfortable | Improper headgear adjustment. | Adjust the ratcheting knob and top strap for a snug and comfortable fit (refer to Section 3.1). |
| Flip-front does not stay up/down | Worn or loose pivot mechanism. | Check and tighten the side knobs. If parts are worn, contact customer support for replacement parts. |
| Excessive heat buildup inside helmet | Normal during heavy welding; lack of airflow. | Ensure adequate ventilation in the work area. The helmet's fiberglass material is designed to deflect heat, but extreme conditions may still cause warmth. |

7. SPECIFICATIONS

| Feature | Detail |
|---------------------|----------------------------|
| Product Dimensions | 30.48 x 22.86 x 25.4 cm |
| Item Model Number | 14321 |
| Color | Fiberglass White |
| Size | One Size |
| Style | Ratchet Headgear |
| Material | Fiberglass |
| Number of Items | 1 |
| Included Components | Fixed Front Welding Helmet |
| Item Weight | 819 g (1.81 Pounds) |
| Manufacturer | SureWex USA Inc. |
| Standards Met | ANSI Z87.1+, CSA Z94.3 |
| Closure Type | Pull-On |

8. WARRANTY AND SUPPORT

For warranty information, technical support, or to order replacement parts, please contact Jackson Safety customer service. Refer to the product packaging or the official Jackson Safety website for the most current contact details and warranty terms. Always use genuine Jackson Safety replacement parts to ensure the continued safety and performance of your welding helmet.