Technical User Guide for Oberon ArcShield Faceshields
Applicable for all Standard and Deluxe Models

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Technical Specifications & Requirements

- All arc-rated faceshields shall only be used with an arc rating that is suitable for the arc flash exposure.
- ArcShield arc ratings are located on a sticker on inside of the lower crown protector. Using any Oberon ArcShield without the lower crown is strictly prohibited.
- Compliant with the current editions of ASTM F2178 and ANSI Z87.1. Arc Flash test reports are summarized within the table below. ANSI Z87.1 is superior to CSA Z94.3.
- "True Colour" Grey Infrared (IR) faceshields compared to Green IR alternatives allow full light spectrum visibility (all colours). As a medium density filter a grey lens provides perfect colour acuity so all wire colours are visible to the worker.
- Lens constructed with Polycarbonate material providing 99.9% UV protection.
- Deluxe model sold with “Scratch-Resistant” and permanent “Anti-Fog” coatings for optimal performance.
- Wrap-around guarding to protect the face, chin, forehead, ears, and front neck area.
- High impact rated per ANSI Z87.1+ (plus symbol indicates high impact models) for maximum protection from shrapnel, projectiles and flying debris.
- Hard hats sold (designated with “CC” in the faceshield part number) with Arcshields into Canada are CSA Z94.1 Type 1 Hard Cap.
- Use only approved hard hats for mounting faceshield. Select hard hats that include ratchet style suspensions to support the weight of the faceshield when in use (engaged position)
- Requires finger type adapters to fit into slotted hard hats.
- Adapters are designed for specific hard hat models and shall not be used on non-approved hard hats.
- No metal or conductive parts.

Recommendations

- Use nylon or canvas storage bag w/ drawstring closure for arc-rated faceshield with hard hat attached.
- Recommend dedicating hard hat to arc-rated faceshield to avoid constant need to install before each use.
- Arc-rated faceshields or arc flash suit hoods require approved safety glasses to be worn under the faceshield or arc flash suit hood for primary eye protection.
- Safety glasses or goggles shall be antifogging, anti-scratch and antistatic with 99.9% UV protection.
- Select shields with the highest amount of visual light transmission. Obtain the ANSI Z87.1 manufacture spectral scan when comparing different models.
- CSA Z462-15 Standard does not allow for the use of arc-rated goggles. Full face protection is required. Oberon’s arc-rated faceshields comply with the full intention of every applicable Standard.
ASTM F2178 Test Report Summary

<table>
<thead>
<tr>
<th>Oberon ArcShield Model</th>
<th>Arc Rating (ATPV)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grey 21AGR8AF-CC+500 Deluxe Model w/CSA Hard Hat</td>
<td>8.1 cal/cm²</td>
</tr>
<tr>
<td>21AGR12AF-CC+500 Deluxe Model w/CSA Hard Hat</td>
<td>12+ cal/cm² (TBD)</td>
</tr>
<tr>
<td>Green 21ARC4AF-CC+500 Deluxe Model w/CSA Hard Hat</td>
<td>4.0 cal/cm²</td>
</tr>
<tr>
<td>21ARC8AF-CC+500 Deluxe Model w/CSA Hard Hat</td>
<td>8.4 cal/cm²</td>
</tr>
<tr>
<td>21ARC12AF-CC+500 Deluxe Model w/CSA Hard Hat</td>
<td>13.9 cal/cm²</td>
</tr>
</tbody>
</table>

Care, Use and Maintenance

- Always hold faceshield using the lower crown (chin guard), never hold or operate the shield by using the side shield extenders.
- Always activate anti-fog coatings before use by holding the inside of the faceshield close to your mouth and exhaling on the entire surface.
- Clean using mild soap and warm water.
- Cleaning wipes used for respiratory equipment and anti-bacterial disinfectant spray can be used on the inside of the hard hat and suspension components to comply with OH&S requirements to clean and disinfect before use when sharing PPE with other workers.
- Solvents shall not be used.
- For drying, a soft lint-free cloth is the best choice.
- To avoid scratches, never use a paper towel or untreated paper.
- Only consider anti-fog solutions or wipes for winter use when the shield does not have an anti-fog coating. The result of mixing the two solutions together would be irreversible damage to the original manufacture anti-fog coating.
- Store the ArcShield using an Oberon nylon or canvas storage bag.

How to Wear (Don/Doff)

How to Don (reverse order for doffing instructions)
1. Remove the ArcShield & Hard hat from the storage bag.
2. Perform pre-use inspection & checks.
3. Open ratchet suspension (turn counter clockwise).
4. Position the hard hat with ArcShield on top of your head.
5. Reach around your head using your hand and tighten the ratchet (turn clockwise).

TIP: Always hold faceshield using the lower crown (chin guard), never hold or operate the shield by using the side shield extenders.
Pre-Use Inspection & Checks

- Check the faceshield visibility, inspect for excessive scratching. If visibility is impaired or the shield is cracked or damaged remove from use (replace with appropriate lens).
- Manually adjust the shield mounting mechanism (adapters) to ensure wing nuts are firmly in place, do not over tighten or the shield won’t be able to operate correctly.
- Inspect adapters for cracks or damage, ensure fingers are locked into hard hat slots.
- Check hard hat slots and inspect for cracks that could allow the adapter to slip out.
- Ensure the nuts and bolts fastening a lower chin guard (double crown) are tight before use.

ArcShield Replacement Parts Diagram

- Adapters for slotted hard caps
- Replacement shields
- Universal miners lamp adapter (UMLA)
- Hard hat (PC-CAP)
- Replacement nuts & bolts (DC-KIT)
- Lower crown (DC-BLK) inc.
  - Nuts & bolts (DC-KIT)
- Side shield extenders (FF-500-BLK)
# ArcShield Replacement Parts Listing

<table>
<thead>
<tr>
<th>Oberon Product</th>
<th>Replacement Part Number</th>
<th>Description</th>
<th>Pricing (US Dollars)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arc Flash Faceshield Components</td>
<td>0AGR8SHLD-AF-DC</td>
<td>Deluxe 8 cal/cm² Grey ArcShield</td>
<td>TBD</td>
</tr>
<tr>
<td>Arc Flash Faceshield and Hood Window Adapters</td>
<td>0AGR12SHLD-AF-DC</td>
<td>Deluxe 12 cal/cm² Grey ArcShield</td>
<td>TBD</td>
</tr>
<tr>
<td></td>
<td>0ARC4SHLD-AF-DC</td>
<td>Deluxe 4 cal/cm² Green ArcShield</td>
<td>$35.10/EA</td>
</tr>
<tr>
<td></td>
<td>0ARC8SHLD-AF-DC</td>
<td>Deluxe 8 cal/cm² Green ArcShield</td>
<td>$35.10/EA</td>
</tr>
<tr>
<td></td>
<td>0ARC12SHLD-AF-DC</td>
<td>Deluxe 12 cal/cm² Green ArcShield</td>
<td>$35.10/EA</td>
</tr>
<tr>
<td></td>
<td>DC-KIT</td>
<td>Nylon hardware (nuts &amp; bolts) for lower crown</td>
<td>$1.27/EA</td>
</tr>
<tr>
<td></td>
<td>FF-500-BLK</td>
<td>Side Shield Extenders (2)</td>
<td>$3.30/EA</td>
</tr>
<tr>
<td></td>
<td>DC-BLACK</td>
<td>Replacement lower crown (inc. DC-KIT)</td>
<td>$8.29/EA</td>
</tr>
<tr>
<td></td>
<td>HC6P-WHT-R</td>
<td>Oberon White Polycarbonate Hard Cap, CSA Z94.1 Type 1, ratchet susp.</td>
<td>$12.00/EA</td>
</tr>
<tr>
<td>Arc Flash Faceshield Accessories</td>
<td>SF-1000</td>
<td>Adapter that fits most Bullard, Willson, and Jackson models</td>
<td>$7.36/EA</td>
</tr>
<tr>
<td></td>
<td>SF-3000</td>
<td>Adapter that fits most MSA V-GARD models</td>
<td>$7.36/EA</td>
</tr>
<tr>
<td></td>
<td>SF-4000</td>
<td>Adapter that fits most MSA Top-Gard, Dynamic Safety, North Safety models</td>
<td>$7.36/EA</td>
</tr>
<tr>
<td></td>
<td>SF-5000</td>
<td>Adapter for Oberon hard cap models</td>
<td>$7.36/EA</td>
</tr>
<tr>
<td></td>
<td>+UMLA</td>
<td>Miner’s Lamp Adapter (Factory install only)</td>
<td>$15.00/EA</td>
</tr>
<tr>
<td></td>
<td>SHLDBAG-NYLON</td>
<td>Nylon Draw String Storage bag, fits both ArcShield and Hard Cap, includes strap</td>
<td>$16.90/EA</td>
</tr>
<tr>
<td></td>
<td>SHLDBAG-CANVAS</td>
<td>Canvas Storage bag, fits both ArcShield and Hard Cap, snap cover</td>
<td>$49.00/EA</td>
</tr>
</tbody>
</table>
### Adapter Assembly Instructions

*Note: When using shields with side shield extenders, DO NOT use the white triangle shield stops. The side shield extenders have bumps that replace the need for additional parts.*

<table>
<thead>
<tr>
<th>Oberon Adapter Set includes:</th>
<th>![Image of adapter components]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right and Left Adapter</td>
<td></td>
</tr>
<tr>
<td>(Fingers that go into the</td>
<td></td>
</tr>
<tr>
<td>slots of the slotted Hard</td>
<td></td>
</tr>
<tr>
<td>hat)</td>
<td></td>
</tr>
<tr>
<td>2 - Grey Wingnuts</td>
<td></td>
</tr>
<tr>
<td>2 - White triangle Shield</td>
<td></td>
</tr>
<tr>
<td>Stops</td>
<td></td>
</tr>
<tr>
<td>2 - Black Rubber Washers</td>
<td></td>
</tr>
<tr>
<td>2 - White Nylon Bolts</td>
<td></td>
</tr>
</tbody>
</table>

#### Step #1
Take each Adapter and push the White Nylon Bolt all the way, inserting it into the side with the depression. Bolt should be flush with the back of the adapter if installed correctly.

#### Step #2
(Skip to step #3 when using side shield extenders)
Slip onto each Bolt a White Triangle Shield Stop with the projecting edges facing away from the adapter.
Step #3
Push the Adapter set through the square hole in the TAB of the Faceshield. The projections on the White Shield Stop should fit above and below the faceshield TAB if install correctly.

Step #4
Fit a Black Rubber Washer over the White Nylon Bolt. Use the thread by turning the washer into place. Push against the TAB of the Faceshield.

Step #5
Screw the Wingnut onto the Nylon Bolt. You will need to press firmly in the beginning because this process is SELF tapping. Once you get it started, it screws on easily. Screw down the wingnut until it is firmly in place against the Rubber Washer. DO NOT OVERLY TIGHTEN!! You may not be able to move the faceshield up and down if the wingnut is too tight.

REPEAT INSTRUCTIONS FOR THE OTHER SIDE OF THE FACESHIELD
ArcShield Design Specification

Available in HRC1 (4 cal), HRC2 (8 cal) and HRC2* (12 cal)

Ratchet Adjustable ABS or PC Slotted Hard Cap w/ 6 Point Suspension

Meets ANSI Z89.1-2009 & CSA Z94.1-05 (PC Cap only)

Faceshield swivels at the hard cap adapters up to sit over hard cap when not in use

Meets ANSI Z87.1-2010

Arc Series Faceshield
Proprietary Polycarbonate Material Superior VLT  (Visible Light Transmission)

Available in Deluxe Model w/
Scratch Resistant outside surface & Permanent Antifog coating inside or Standard Model uncoated

Lower Crown provides chin protection (required for rating)

Incorporates SideShield Extenders Increases protection to 20" wide
ArcShield w/Ear Muff Combination Design Specification

- Available in HRC1 (4 cal), HRC2 (8 cal) and HRC2* (12 cal)
- Ratchet Adjustable ABS or PC Slotted Hard Cap w/ 6 Point Suspension
- Meets ANSI Z89.1-2009 & CSA Z94.1-05 (PC Cap only)
- Faceshield swivels at the hard cap adapters up to sit over hard cap when not in use
- Meets ANSI Z87.1-2010

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- Proprietary **Polycarbonate** Material
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- Available in Deluxe Model w/
  - Scratch Resistant outside surface & Permanent Antifog coating inside
  - or **Standard Model** uncoated

- Lower Crown provides chin protection (required for rating)

- Incorporates Ear Muffs (NRR22)