# Precision AIR Respirator Assembly, Donning, and Doffing

## Purpose
Instructions for the assembly, donning, and doffing of the Precision AIR respirators.

## Background
Prior to first use all healthcare workers must be fit tested by a Qualified Occupational Health professional and/or designate and receive training on the appropriate donning and doffing of the respirator.

### Assembly
Assembly is required before use: the head halo and face seal are packaged together, filter cartages separately.

New filter cartridges must be applied to the respirator, each time, prior to donning. Filter cartridges include filter and plastic casing.

## Required Materials
- Precision AIR respirator
- Filter cartridges
- Alcohol based hand rub (ABHR)

## Equipment:
- Head halo with face seal (barrel)
- Filter cartridges
## Steps for Donning Process:

<table>
<thead>
<tr>
<th>Step</th>
<th>1) Perform hand hygiene.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Use alcohol-based hand rub or soap and water.</td>
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<tr>
<th>Step</th>
<th>2) Place the harness around the filter ports.</th>
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<tr>
<td>2.1</td>
<td>Prior to loading the filter, place the harness around the filter ports using the raised tabs feature to align the right and left harnesses on their respective sides of the respirator. The harness will only fit if placed in correct direction.</td>
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<tr>
<th>Step</th>
<th>3) Unpackage the filter cartridge.</th>
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<tr>
<td>3.1</td>
<td>Unpackage the filter cartridge immediately prior to intended use. Ensure the filter pancake (insert) is sitting flush against the bottom face of the cap with the writing facing towards the outside of the cartridge (as shown). Remove the filter and reinsert if it has creases or is bunching along the edges.</td>
</tr>
</tbody>
</table>
Step 4) **Align the filter cartridge with port and harness.**

4.1 Align the **filter cartridge** with filter port and harness. Carefully align threads and rotate clockwise until hand tight. Repeat this process for the other filter port.

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Step 5) **Position the respirator for donning.**

5.1 Spread-out the **neck straps** and bring the respirator up to your face.

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Step 6) **Place the head halo over the head.**

6.1 Ensure the straps are loosely fitted. Use one hand to hold the mask body to your face. Use your other hand to gently bring the head halo over the crown of your head.
### Step 7) Loop the neck straps.

7.1 Loop the **neck straps** around your neck and connect the hook and loop.

![Image of a person wearing a respirator with neck straps looped around their neck.]

### Step 8) Adjust the straps for the proper fit.

8.1 To tighten, pull on the straps in the direction parallel to the strap tensioner, as shown. Tighten the head halo straps one notch at a time. Tighten the neck straps one notch at a time until the respirator is snug against your face and ensuring enough slack for proper neck mobility.

![Image of a person adjusting their respirator straps.]

### Step 9) Straps are evenly tightened.

9.1 Ensure straps are evenly tightened on both sides.

![Image of a person with evenly tightened respirator straps.]
### Step 10) Attach the loose head halo strap ends.

10.1 Attach the loose **head halo** strap ends into the hook feature on the **head halo** (just above the ears).

![Image of respirator with head halo attached](image)

### Step 11) Perform a seal check.

11.1 Perform a seal check by placing hands flat against the respirator caps and breathing in and out forcefully. It should be hard enough to make the respirator expand and collapse.

Inhale and exhale sharply. Be careful not to disturb the position of the respirator. If air leaks around the respirator body, re-adjust the respirator.

![Image of respirator undergoing a seal check](image)

### Step 12) Test that proper seal is achieved.

12.1 Tighten top straps if air is leaking out of the nose region.

Tighten bottom straps if air is leaking out of the chin region.

If you **CANNOT** achieve a proper seal, **DO NOT** enter the patient area.
### Steps for Doffing Process:

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<th>2) Doffing the respirator</th>
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<tr>
<td>2.2</td>
<td>Unhook bottom back neck strap using both hands.</td>
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<tr>
<td>2.3</td>
<td>Lean forward and pull head halo forward with both hands to remove respirator</td>
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<tr>
<td>2.4</td>
<td>At the same time guide the respirator away from your face</td>
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</table>
### Step 3) Dispose respirator

| 3.1 | Place the respirator in the designated container, labeled as “SOILED AIR RESPIRATOR” to be taken to MDR. |

### Step 4) After doffing

| 4.1 | Perform hand hygiene and immediately re-apply procedure mask as appropriate. |