

ENVO[®] MASK RESPIRATOR TRAINING



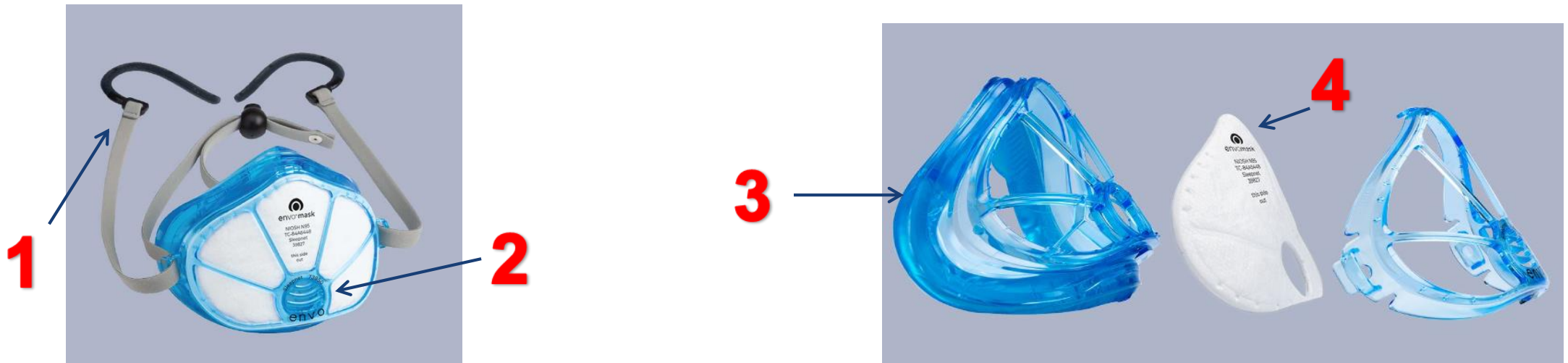
Beth Israel Lahey Health

What is an N95 Respirator?

- N95 respirators will filter at least 95% of particles 0.3 micrometers in size or larger when worn properly
 - N: Non-oil particulates
 - 95: Filtration efficiency
- **envo®** mask is a reusable N95 option
 - Filters should be changed every day/shift or sooner if they are grossly contaminated, damaged/deformed, become wet or if breathing becomes more difficult
- N95s are regulated by OSHA, approved by NIOSH
 - BILH only provides NIOSH-approved N95 respirators

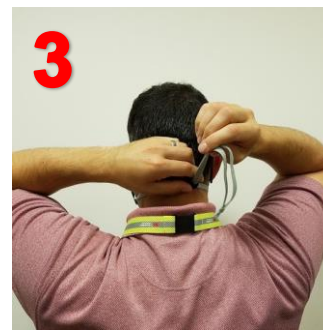
Inspect your respirator prior to each use for integrity

- Examine all the parts of the respirator for signs of tears, breakage, or other damage.
- Parts to examine include the (1) QuickFit headgear (including adjustable ball), (2) exhalation valve, (3) AIRgel® cushion, and (4) filter. *Filters can be examined while the respirator is assembled.*
- Inspect the filter prior to each use to ensure there are no holes or damage, and not soiled or clogged.
 - Verify the exhalation valve is flat and seated in the valve port (first photo).
 - Replace any damaged parts.
 - Replace the filter if soiled or clogged.



Don respirator as follows for a successful user seal check

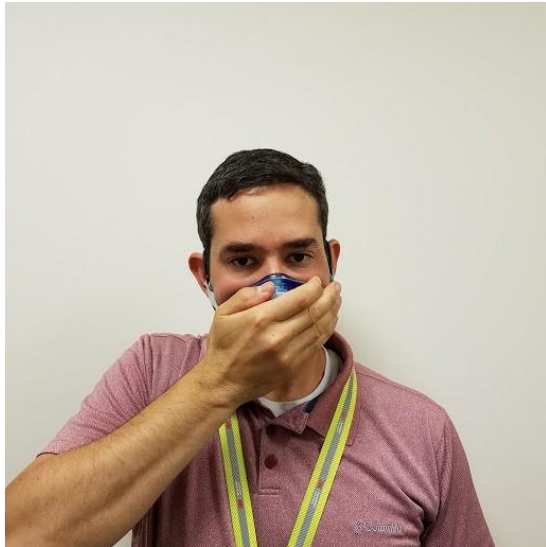
- Perform hand hygiene
- Remove mask from case and inspect for integrity
- Place the mask over your head and wear it around your neck
- Adjust the ball so that the mask is 4 inches from your face, this will also be the resting place for your mask when it is not in use
- Hold ear clips in each hand and hook clips over your ears simultaneously (1)
- Use hands to align mask on your face properly (2)
- Adjust the ball for a secure fit and a good seal (3)



Note: When donned appropriately, envo® mask will rest *at chin level*.

Performing a user seal check is required every time prior to entering a contaminated area

- Check your mask seal by placing one or two hands over the respirator and inhale
 - The air gel cushion should compress with inhalation
 - If you cannot feel the air gel compressing into your face, adjust the mask and try again
 - Avoid contact with the actual filter during user seal checks

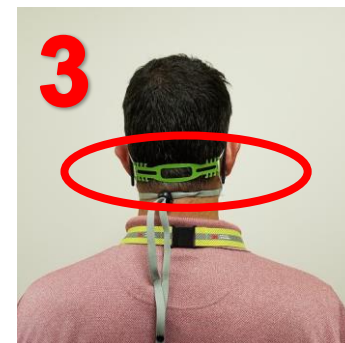


OR



Respirators with exhalation valves require additional PPE

- After performing successful user seal check, wear either a surgical mask *plus* eye protection(1, *preferred*), or a full face shield alone(2) if masks not available
- Surgical masks previously worn during your shift can be used over the envo[®] mask and then disposed of AFTER patient care is performed
 - Use of an ear protector(3) will help the surgical mask stay in place over your respirator
 - Wear a bouffant cap over the head harness when performing or assisting with an aerosol-generating procedure
 - After exiting patient room, dispose of surgical mask, remove respirator, and replace with a new surgical mask



Follow the removal procedure to prevent self contamination

- Remove additional PPE in appropriate order and perform hand hygiene
- Remove surgical mask and eye protection (preferred) or full face shield
 - Dispose of surgical mask in regular trash and/or
 - Clean and disinfect eye protection or full face shield for reuse
- Adjust the ball to loosen the mask (1)
- Grasp both ear clips simultaneously and pull away from your face (2)
- Remove respirator by lifting up over your head; avoid touching the respirator itself and only manipulate the ear clips and straps



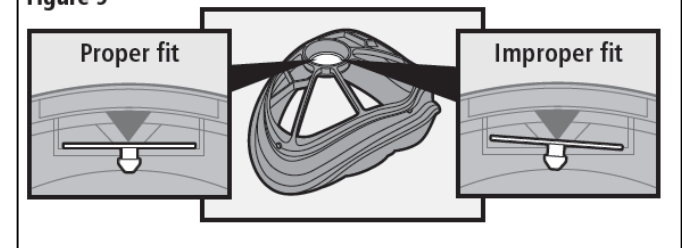
Individual healthcare workers will clean their own respirators

- 1) Clean and disinfect your respirator *after each use* with hospital-approved germicidal wipes, following manufacturer's contact times for the disinfectant
- 2) Wipe all components of mask face, body, and headgear, **avoiding contact with the actual filter** and the interior and exterior of your storage case
- 3) Only if filter becomes wet or damaged during cleaning, discard and replace
- 4) Multiple wipes may be used during this process
- 5) Allow to air dry completely prior to storing
- 7) Place the respirator into your reusable PPE bag
- 8) Remove gloves
- 9) Perform hand hygiene
- 10) Carry your PPE bag on your person or store in your department's designated storage location



IMPORTANT: AFTER WASHING, INSPECT THE EXHALATION VALVE TO ENSURE THE VALVE REMAINS PROPERLY FITTED AND LYING FLAT, SEALING THE VALVE PORT. DO NOT USE THE RESPIRATOR IF THE EXHALATION VALVE IS DAMAGED OR NOT PROPERLY FITTED.

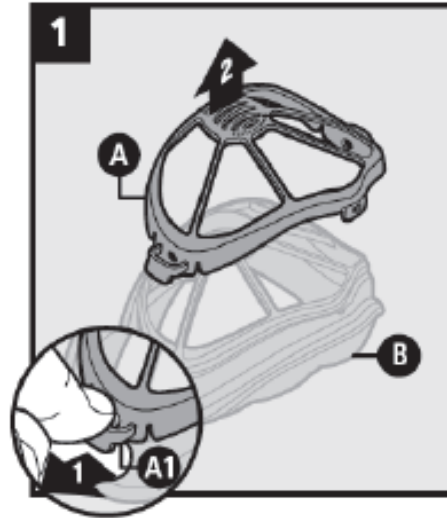
Figure 9



Filters will be changed once per day/shift and as needed based on poor integrity

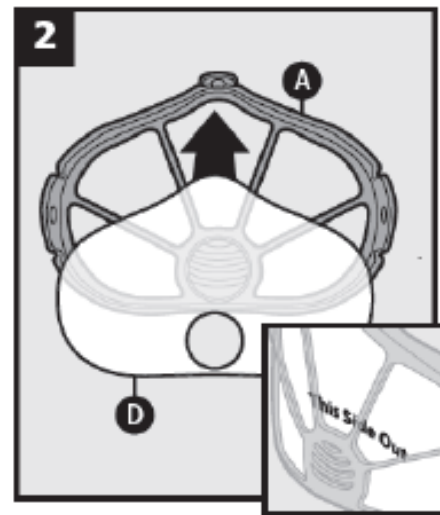
- Inspect filters prior to each use while the respirator is assembled
- Excessive disassembly and reassembly can cause the filter to become deformed more rapidly and should be avoided unless changing the filter
 - Routine cleaning and disinfection will occur with the filter in place and the respirator assembled
- If a new filter is determined to be necessary once per day/shift or if grossly contaminated, damaged/deformed, becomes wet or if breathing becomes more difficult
 - See your supervisor or appropriate department for a replacement filter
 - Follow the steps on the following slides for a successful filter change

Steps to disassemble and reassemble during filter change

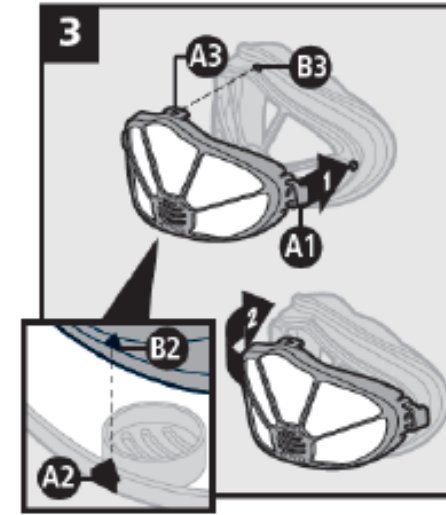


Place the respirator mask on a flat surface with the AIRgel[®] cushion side up. Remove filter cover (A) by placing thumb over headgear tab (A-1) and index finger under tab resting on the filter cover frame. Using thumb, aggressively pull tab away from the center of the mask body (B). When tab releases, separate mask body and filter cover.

Inspect exhalation port (B4) as shown in figure 9.



Insert filter (D) in filter cover (A). Verify the filter writing is visible when wearing the mask or the filter will not perform as designed. Examine from the front side to verify the filter is laying flat and that there are no gaps between the filter and cover as shown in figure 10.



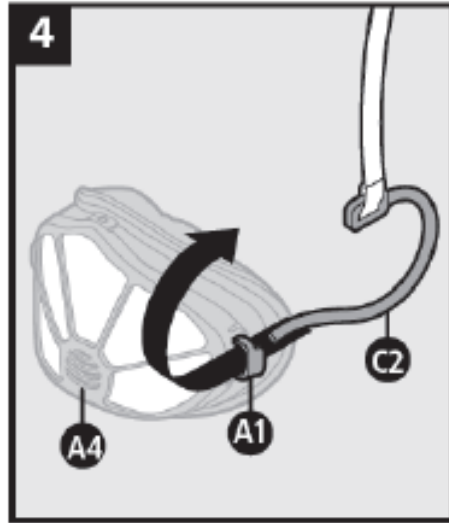
Align position clip (A3) over mask body position pin (B3).

Align arrows (A-2) and (B-2). Press slot/release tab (A-1) until you hear an audible 'click'. Repeat on the other side.

Verify the filter remained in proper position by checking for gaps between the filter and filter cover.

See Manufacturer's Instructions for Use package insert in envo[®] mask kit for more details

Steps to disassemble and reassemble during filter change (continued)

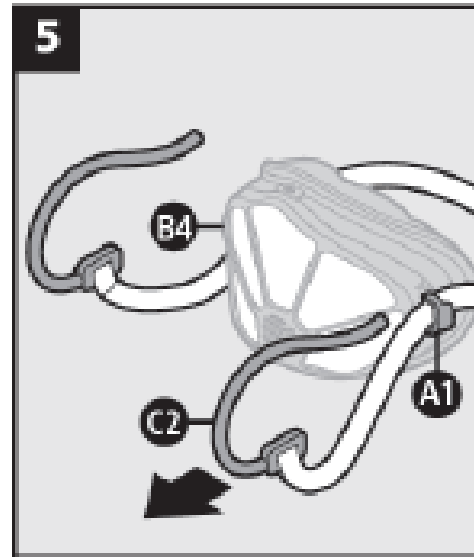


Remove QuickFit headgear from packaging.

Place the respirator mask vertically on a flat surface with the exhalation port (A-4) on the bottom.

With the AIRgel® cushion facing you, gently slide the ear clip (C-2) elongated end facing down through the headgear slot/release tab (A-1) of the filter cover.

Repeat on the other side.



Gently pull the ear clip (C-2) and fabric stitched loop (C-3) through the headgear slot/release tab (A-1).

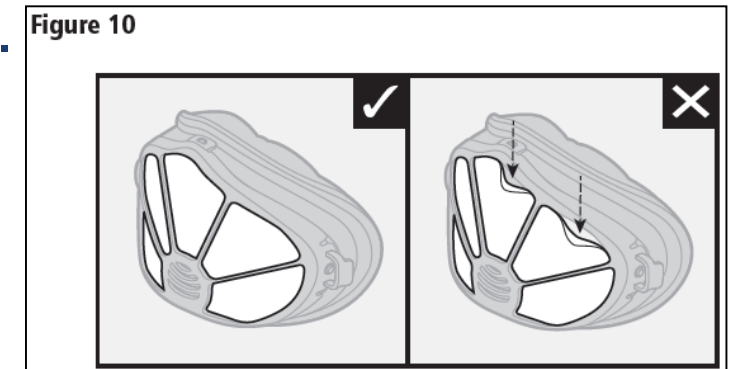
Repeat on the other side.

See Manufacturer's Instructions for Use package insert in enviro® mask kit for more details

Filters must be properly attached for adequate filtration

Tips for securing enviro[®] mask filter:

- Open the new filter and mold it to the mask by holding it in place for a couple seconds to unflatten the filter.
- Place the mask on a flat surface and place the filter on top; it should contour to the mask.
- Place the filter cover over the filter and secure one side at a time. Apply pressure to one side to and then apply pressure on the filter cover working to the other side.
- Once the filter cover is secure, run your finger along the filter where it meets the respirator to ensure the filter is tight and without gaps (see *Fig 10*).



Questions?

Please contact your supervisor or Safety Officer for questions around envo[®] mask trainings