NOTE
When inhalation check valve is properly installed, disc portion of inhalation check valve will lay flat against inhalation check valve seat and stem will be captured in center hole.

(5) From outside nosecup assembly, gently pull inhalation check valve tip until stem is seated.
(6) Trim excess tip as required.
(7) Repeat steps c.(3) through c.(6) for remaining inhalation check valve.

WARNING
Failure to successfully perform a negative-pressure check may allow exposure to hazardous substances, resulting in serious personal injury or death.

(8) Perform negative-pressure check IAW paragraph 6.6.3.

6.7.1.4 Nosecup Assembly Removal and Installation.

a. Removal.

CAUTION
Press on edge of auxiliary exhalation valve assembly when removing to avoid equipment damage.

(1) From outside adapter port (2, Figure 6-11), push auxiliary exhalation valve assembly (1) into facepiece and set aside.
(2) From inside facepiece, separate nosecup assembly (1, Figure 6-12) from voicemitter duct groove (2).

![Figure 6-11. Auxiliary Exhalation Valve Assembly Removal.](image)

(3) Carefully pull nosecup assembly to remove from it from other voicemitter duct groove.

b. **Installation.**

(1) Visually inspect nosecup assembly for heat damage, cracks, discoloration, cuts, or abrasions. If damage is noted, replace as required.

(2) Inspect nosecup assembly for cleanliness. If dirt or other foreign matter is found, clean IAW paragraph 4.7.2.

(3) From inside facepiece, position raised rib (2, Figure 6-13) of nosecup assembly in notch (1) of adapter port (4). Ensure adapter port is seated within nosecup assembly groove (3).
(4) From inside facepiece, insert tapered end of auxiliary exhalation check valve into nosecup assembly as shown in Figure 6-14.

(5) Install nosecup assembly (1, Figure 6-12) into voicemitter duct groove (2). Repeat to install in other voicemitter duct groove.

(6) Verify installation check valves (1, Figure 6-15) lay flat against inside of nosecup assembly, do not interfere with crescent cutouts (2) on voicemitter ducts, and nosecup assembly is not distorted.
(7) Ensure bottom of nosecup assembly is behind chin pocket as shown in Figure 6-16.

![Figure 6-16. Chin Pocket Placement.](image)

**WARNING**

Failure to successfully perform a negative-pressure check may allow exposure to hazardous substances, resulting in serious personal injury or death.

(8) Perform negative-pressure check IAW paragraph 6.6.3.

6.7.1.5 **Voicemitter and Voicemitter Duct Removal and Installation.**

a. **Removal.**

![CAUTION](image)

Do not use tools to pry or pull rubber components. Using tools to pry or pull components during removal will damage rubber parts.

(1) Remove voice amplifier and mounting bracket IAW paragraph 6.7.1.1.

(2) Remove nosecup assembly IAW paragraph 6.7.1.4.
(3) To remove voicemitter, carefully roll back exterior flap (2, Figure 6-17) with thumb and forefinger of one hand. With index finger of other hand, pull voicemitter free (3).

![Figure 6-17. Voicemitter Removal.](image)

(4) Repeat for other voicemitter.

(5) To remove voicemitter duct, collapse voicemitter duct and remove from lens.

(6) Repeat for other voicemitter duct.

b. **Installation.**

(1) Visually inspect voicemitters and voicemitter ducts for heat damage, cracks, discoloration, cuts, or abrasions. If damage is noted, replace as required.

(2) Inspect voicemitter and voicemitter ducts for cleanliness. If dirt or other foreign matter is found, clean IAW paragraph 4.7.2.

(3) Collapse voicemitter duct and insert through hole in lens. Ensure exterior flap is on outside of lens and lens is fully seated in exterior flap groove.

(4) Use finger to ensure lens is fully seated as shown in Figure 6-18.

![Figure 6-18. Voicemitter Duct Installation.](image)

(5) Repeat steps c.(3) and c.(4) on remaining voicemitter duct.
(6) With four raised dots facing up (1, Figure 6-17), insert voicemitter (3) into exterior flap (2) until fully seated.

(7) Repeat for other voicemitter.

NOTE
Perform negative pressure check only after complete assembly of facepiece.

(8) Install nseocup assembly IAW paragraph 6.7.1.4. Ensure voicemitter duct does not interfere with inhalation check valve.

(9) Install voice amplifier and mounting bracket IAW paragraph 6.7.1.1.

WARNING
Failure to successfully perform a negative-pressure check may allow exposure to hazardous substances, resulting in serious personal injury or death.

(10) Perform negative-pressure check IAW paragraph 6.6.3.

6.7.1.6 Frame and Faceseal Removal and Installation.
Tools, Parts, and Materials.
- Screwdriver, flat-tip, 1/4 inch
- Water, fresh

a. Removal.
   (1) Remove voice amplifier and bracket IAW paragraph 6.7.1.1.
   (2) Unsnap temple clip assembly (2, Figure 6-19) from lens by positioning finger under detent (1) and lifting snap from receptacle. Repeat for other temple clip assembly.

   ![Figure 6-19. Unsnap AV-2000® Clip Assembly.]

   NOTE
   Neck clip assemblies are integrated into the frame.

   (3) Unsnap neck clip assembly (2, Figure 6-20) from lens by positioning finger under detent (3) and lifting snap from receptacle. Repeat for other neck clip assembly.
Improper use of screwdriver to pry snap apart may cause equipment damage.

(4) Using 1/4 inch flat-tip screwdriver, carefully disengage forehead snap from lens receptacle as shown in Figure 6-21.

(5) Loosen faceseal (4, Figure 6-20) from lens, working symmetrically from forehead area to chin area.

(6) Remove frame (1) and faceseal from lens.

(7) If applicable, separate frame from faceseal.

(8) If replacing frame or neck clip assemblies, remove head harness from neck clip assemblies IAW paragraph 6.7.1.2. Set aside for installation.

b. **Installation.**

**NOTE**

There are three sizes of faceseals. Ensure correct size faceseal is used.
(1) Visually inspect frame and faceseal for heat damage, cracks, discoloration, cuts, or abrasions. If damage is noted, replace as required.

(2) Inspect frame and faceseal for cleanliness. If dirt or other foreign matter is found, clean IAW paragraph 4.7.2.

(3) Align forehead centerline mark (1, Figure 6-22) on faceseal with center of forehead snap receptacle (2) on lens.

![Figure 6-22. Faceseal Alignment with Lens.](image)

(4) Insert lens fully into groove of faceseal.

**CAUTION**

Applying fresh water to frame and faceseal will aid in assembly of these components. To avoid equipment damage, commercial lubricants must not be used in assembly of facepiece components.

(5) Align chin centerline mark on frame (2, Figure 6-23) with chin centerline mark on faceseal (1).

![Figure 6-23. Chin Centerline Mark Alignment.](image)

(6) Install frame onto faceseal and lens, working from the chin area to the forehead.

(7) Ensure frame is fully seated on faceseal and lens, and that all centerline marks align.
Snaps should engage receptacles easily and smoothly. If not, snaps are not aligned.

(8) If snaps are not aligned, remove frame and faceseal and repeat steps c.(3) - (7).
(9) Engage forehead snap by positioning snap over snap receptacle on lens. Starting on side of snap opposite the detent, roll thumb toward detent until snap engages. Repeat for neck clip assemblies.
(10) If applicable, install head harness neck straps IAW paragraph 6.7.1.2.
(11) Install temple clip assembly by positioning snap over snap receptacle on lens. Starting on side of snap opposite the detent, roll thumb toward detent until snap engages. Repeat for other temple clip assembly.

NOTE

Perform negative-pressure check only after complete assembly of facepiece.

(12) Install voice amplifier and mounting bracket IAW paragraph 6.7.1.1.

WARNING

Failure to successfully perform a negative-pressure check may allow exposure to hazardous substances, resulting in serious personal injury or death.

(13) Perform negative-pressure check IAW paragraph 6.6.3.

6.7.1.7 Lens Removal and Installation.

a. Removal.
   (1) Remove voicemitters and voicemitter ducts IAW paragraph 6.7.1.5.
   (2) Remove frame and faceseal IAW paragraph 6.7.1.6.

b. Installation.
   (1) Visually inspect all components for heat damage, cracks, discoloration, cuts, or abrasions. If damage is noted, replace as required.
   (2) Inspect all components for cleanliness. If dirt or other foreign matter is found, clean IAW paragraph 4.7.2.

NOTE

Perform negative-pressure check only after complete assembly of facepiece.

(3) Install frame and faceseal IAW paragraph 6.7.1.6.
(4) Install voicemitters and voicemitter ducts IAW paragraph 6.7.1.5.

WARNING

Failure to successfully perform a negative-pressure check may allow exposure to hazardous substances, resulting in serious personal injury or death.

(5) Perform negative-pressure check IAW paragraph 6.6.3.
6.7.2 **AV-3000® Facepiece Corrective Maintenance.**

6.7.2.1 **Voice Amplifier Removal and Installation.**

**Tools, Parts, and Materials.**
- Screwdriver, cross-tip, No. 1
- Water, fresh

a. **Removal.**

(1) Depress locking lever (2, Figure 6-24) and rotate voice amplifier (1) CW to remove.

![Figure 6-24. Voice Amplifier Removal.](image)

(2) Using No. 1 cross-tip screwdriver, remove long screw (3, Figure 6-25). Set aside for installation.

![Figure 6-25. AV-3000® Mounting Bracket.](image)

(3) Using No. 1 cross-tip screwdriver, remove short screw (5) from screw tab (4). Set screw aside for installation.

(4) Separate mounting bracket (2) and remove from exterior flap (1).
b. **Installation.**

(1) Visually inspect mounting bracket and voice amplifier for heat damage, cracks, discoloration, cuts, or abrasions. If damage is noted, replace as required.

(2) Inspect mounting bracket and voice amplifier for cleanliness. If dirt or other foreign matter is found, clean IAW paragraph 4.7.2.

---

**CAUTION**

Applying fresh water to exterior flap and mounting bracket will aid in assembly of these components. To avoid equipment damage, commercial lubricants must not be used in assembly of facepiece components.

(3) Spread apart mounting bracket (2, Figure 6-25) and place over right side (as worn) exterior flap (1). Ensure hole in screw tab (4) is positioned over threaded insert in lower bezel.

(4) Ensure mounting bracket is completely seated over exterior flap.

(5) Thread short screw (5) through hole in screw tab and into threaded insert in lower bezel.

(6) Tighten short screw (5) using No. 1 cross-tip screwdriver. Do not overtighten.

(7) Using No. 1 cross-tip screwdriver, install long screw (3) into mounting bracket. Do not overtighten.

(8) Align voice amplifier (2, Figure 6-24) with mounting bracket and turn CW until locking lever (1) engages.

---

**WARNING**

Failure to successfully perform a negative-pressure check may allow exposure to hazardous substances, resulting in serious personal injury or death.

(9) Perform negative-pressure check IAW paragraph 6.6.3

---

### 6.7.2.2 EPIC Voice Amplifier Removal and Installation.

**Tools, Parts, and Materials.**

- Screwdriver, cross-tip, No. 1
- Water, fresh
- EPIC Voice Amplifier
- Batteries, non-rechargeable, size AAA, 3 - Hazardous Material

**a. Removal.**

(1) Lift locking lever (2, Figure 6-26) and rotate voice amplifier (1) CW to remove.