

Product Information

News

May 25, 2006

ULTRAVUE FACEPIECE AND ULTRA ELITE FACEPIECE

ULTRAVUE FACEPIECE

PRESSURE DEMAND EXHALATION VALVE

1. Temporarily fold the headstraps back over the front of the facepiece lens.
2. Pull the facepiece chin cup out so that you can see the inside of the exhalation valve.



3. Use the facepiece spanner wrench to loosen the valve retaining nut.

4. Unscrew and remove the retaining nut. Then, grasp the valve cover and gently pull the valve out from the underside of the facepiece.

Note: The pressure demand exhalation valve is replaced as a unit. No replacement parts are available. All components of each valve must be maintained as a unit. When cleaning the valve, do not interchange parts.

5. Installing the pressure demand exhalation valve in the facepiece:
 - a. Inspect the facepiece rubber for tears or cracks. Replace the facepiece if it is damaged. Clean the area around the facepiece mounting hole if necessary.

Note: Rub a small amount of Never-Seez (P/N 29527) on the valve threads.

- b. Line up the exhalation valve threads with the facepiece mounting hole. Place one hand inside the facepiece and stretch the hole slightly.
- c. Push the valve threads into the facepiece. Use a "threading" motion to insert the valve until the valve body rests against the facepiece rubber.

Note: The "MSA" logo on the exhalation valve cover does not have to be aligned to any special position.

- d. Pull the facepiece chin cup back so that you can see the valve, then thread the retaining nut on.
- e. Tighten the retaining nut, using the spanner wrench (P/N 461828). Reposition the facepiece headstrap.
6. Inspect the exhalation valve.
7. Visually inspect the spring to see that it is located properly in its socket.

⚠ CAUTION

Do not store the facepiece with the headstraps stretched over the lens. Doing so may distort the sealing surface and affect the facepiece seal.

8. Don the facepiece and check the face-to-facepiece seal. Follow the steps in the Facepiece Fit Check.

ULTRA ELITE FACEPIECE

MMR EXHALATION VALVE

⚠ CAUTION

Do not pull the spring retainer out of component housing slots. This could damage the component housing.

Removing the Spring and Spring Retainer

1. Slide the spring retainer to one side, then, carefully



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push center of the retainer down into the component housing freeing retainer from slots in the housing. Lift the retainer and the spring out of the component housing. Discard spring and spring retainer.

⚠ CAUTION

Be careful not to damage the slots or valve seat in the component housing. If either the slots or valve seat is damaged, the entire component housing must be replaced. Also be careful not to damage the soft rubber surface of the valve.

2. Inspect the slots in the component housing. If either appears to be damaged or distorted replace the damaged component housing.

Applying Christo-Lube to the Exhalation Valve Stem

Note: Apply Christo-Lube immediately prior to installation into the Component Housing so that dirt, debris, etc. do not get picked up by the lubricant.



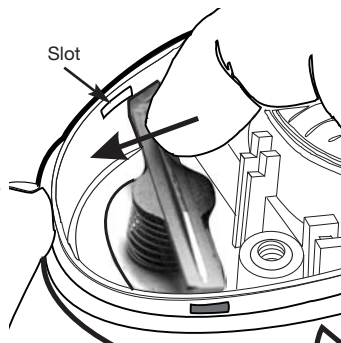
1. Apply Christo-Lube evenly to the four corners of the post as shown in the picture below.

Installing the Pressure Demand Exhalation Valve Spring and Spring Retainer

1. Place the new spring on the new (ivory) spring retainer. Place the free end of the spring over the exhalation valve boss.

Note: The retainer ends are angled. The shorter end goes down (toward the bottom part of the component housing).

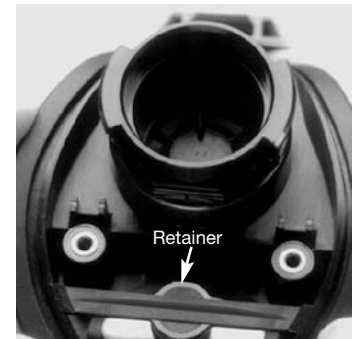
2. Insert one angled end of the spring retainer all the way into the slot on one side of the component housing. Place the other angled end of the retainer against the side of the housing above the slot, push the center of retainer down (above spring), then slide the retainer toward the bottom of the housing until the retainer snaps into slot.



⚠ CAUTION

Ensure spring retainer is secured in the sides of component housing. If the retainer does not remain secure the component housing must be replaced.

3. Check that the spring retainer is securely engaged in the slots of component housing.



- a. Carefully lift up the center of retainer. (the retainer might snap again)
 - b. Make sure the retainer is fully engaged in the slots of component housing.
 - c. Ensure that the spring is centered on the exhalation valve.
4. Inspect the slots in the component housing. If either appears to be damaged or distorted replace the damaged component housing.
 5. Install the component housing cover.

Note: If the cover hook does not snap in place, hand-tighten the adapter assembly clockwise until two corners of a flat line up with the two notches in the top of the component housing inlet. The cover should snap into place.

Facepiece Fit Check

1. Don the facepiece.
2. Cycle exhalation valve by inhaling and exhaling six times before testing the face-to-facepiece seal.
3. To check for facepiece fit, hold the palm of your hand over the inlet connection and inhale. Hold your breath at least 10 seconds. The facepiece should collapse and stay collapsed against your face. If it does not, readjust the facepiece and test again. If this does not correct the leak, do not use the facepiece.
4. To test the exhalation valve, take a deep breath and hold it. Block the inlet connection with the palm of your hand and exhale. If the exhalation valve is stuck, you may feel a heavy rush of air around the facepiece. You may need to exhale sharply to open the valve.

BMR EXHALATION VALVE

⚠ CAUTION

Do not pull the spring retainer out of component housing slots. This could damage the component housing.

Removing the Spring and Spring Retainer

1. Slide the spring retainer to one side, then, carefully push center of the retainer down into the component

housing freeing retainer from slots in the housing. Lift the retainer and the spring out of the component housing. Discard spring and spring retainer.

⚠ CAUTION

Be careful not to damage the slots or valve seat in the component housing. If either the slots or valve seat is damaged, the entire component housing must be replaced. Also be careful not to damage the soft rubber surface of the valve.

2. Inspect the slots in the component housing. If either appears to be damaged or distorted replace the damaged component housing.

Installing the Pressure Demand Exhalation Valve Spring and Spring Retainer

1. Place the new spring on the new (ivory) spring retainer. Place the free end of the spring over the exhalation valve boss.

Note: The retainer ends are angled. The shorter end goes down (toward the bottom part of the component housing). In this position, the part number on the retainer is on the left side facing the exhalation valve (down).

2. Insert one angled end of the spring retainer all the way into the slot on one side of the component housing. Place the other angled end of the retainer against the side of the housing above the slot, push the center of retainer down (above spring), then slide the retainer toward the bottom of the housing until the retainer snaps into slot.

⚠ CAUTION

Ensure spring retainer is secured in the sides of component housing. If the retainer does not remain secure the component housing must be replaced.

3. Check that the spring retainer is securely engaged in the slots of component housing.

- a. Carefully lift up the center of retainer. (the retainer might snap again)
- b. Make sure the retainer is fully engaged in the slots of component housing.
- c. Ensure that the spring is centered on the exhalation valve.

4. Inspect the slots in the component housing. If either appears to be damaged or distorted replace the damaged component housing.

Installing the Component Housing Cover

1. Place the component housing cover over the housing.
2. Insert the tab on the top of the cover into the slot in the bottom of the lens ring.
3. Press in on the front of the cover until the cover hook snaps in place.
4. Line up the screw holes in the cover with the threaded inserts in the housing.
5. Place the neckstrap retaining brackets in the component housing cover sockets. Install the Phillips screws and tighten to secure the housing and neckstrap.
6. Insert the adapter assembly in the facepiece and hand-tighten.

Note: If the cover hook does not snap in place, hand-tighten the adapter assembly clockwise until two corners of a flat line up with the two notches in the top of the component housing inlet. The cover should snap into place.

Facepiece Fit Check

1. Don the facepiece.
2. Cycle exhalation valve by inhaling and exhaling six times before testing the face-to-facepiece seal.
3. To check for facepiece fit, hold the palm of your hand over the inlet connection and inhale. Hold your breath at least 10 seconds. The facepiece should collapse and stay collapsed against your face. If it does not, readjust the facepiece and test again. If this does not correct the leak, do not use the facepiece.
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