

Ultra Elite® Facepiece Component Housing Kit, Less Inlet Valve Disc

Installation Instructions

Replacement Kits

MMR 1/4 Turn P/N 10058890
Firehawk P/N 10059031

Removing the Component Housing Assembly from the Ultra Elite Facepiece

1. Remove the adapter assembly and the component housing cover.

2. Using a small Phillips screwdriver, remove the component housing ring screw. Grasp the ring with the thumb and forefinger of each hand. Gently spread the ring halves apart at the bottom.



3. When the facepiece rubber is out of the ring groove, lift the ring up away from the facepiece. The housing may need pulled down slightly to allow enough room to remove the ring from between the housing and the lower lens ring.

4. Remove the facepiece rubber from the component housing and pull the housing and nose-cup (if installed) out of the facepiece.



5. **Do not discard** the old component housing, ClearCommand® Voicemitter Assembly and Retainer (if so equipped), or the nose-cup (if so equipped).

Removing the Inlet Valve Disc from the Spider Valve Gasket

1. Pull the spider valve gasket out of the OLD component housing assembly. Ensure the white inlet disc valve remains attached to the spider valve gasket.
2. Hold the spider valve gasket in one hand.
3. Using the other hand, gently fold the white inlet valve disc in half and pull slightly to remove the inlet valve disc from the stem at the center of the spider valve gasket.
4. Set the inlet valve disc aside on a clean, dry surface.
5. Inspect the inlet valve disc for any damage, tears, debris etc. Use only an undamaged inlet valve disc.

Preparing the Replacement Kit for Installation

1. Pull the spider valve gasket out of the new component housing assembly.
2. Gently stretch the center hole of the inlet disc valve over and onto the new spider valve gasket stem.
3. With the pull-tab facing outward, reinsert the spider valve gasket with inlet valve disc into the facepiece at an angle so that the groove around the outer edge captures the housing

rim. The lower lip of the spider valve gasket must be completely under the rim in the component housing.

Note: The spider valve gasket may need bent slightly to work the lip under the rim all the way around. When installed correctly, the spider valve gasket will lay flat in the housing and none of the spokes will be bent.

Replacing the Voicemitter Assembly for Facepieces Equipped With the ClearCommand Communications System

1. Unscrew and remove the voicemitter assembly retaining ring on the old component housing.
2. Turn the facepiece upside down and shake out the metal voicemitter and gasket assembly.
3. Check the voicemitter and gasket assembly for damage. Replace it if it is worn or damaged.
4. Be sure that the gasket is on the voicemitter assembly.
5. Place the voicemitter assembly into the retaining ring. Be sure that the gasket side of the voicemitter is facing the component housing.
6. Replace the retaining ring onto the new component housing and hand-tighten.

Installing the Replacement Kit (New Component Housing Assembly)

1. Slide the housing into the front of the facepiece.

2. Starting at the top (narrow end) of the housing, place the housing in the facepiece groove. Work the rubber all the way around the housing. Check that the housing is completely captured inside the groove and the center-lines are lined up.



3. Moisten the facepiece housing area and the inside of the housing ring.
4. Insert the narrow end of the ring into the space between the lower lens ring and the facepiece housing area.

5. Line up the component housing ring mark with the facepiece centerline.



6. Starting at the top, work the housing ring down on the facepiece to capture the facepiece rubber in the ring groove. Work your way down each side of the ring until the facepiece rubber is completely captured inside the ring.

- Gently squeeze the ring halves together at the bottom of the housing. Watch the facepiece rubber at the top as you do this. If you see any bulges or wrinkles in the facepiece rubber, it is not captured in the groove. Rework the ring around the facepiece rubber until there are no bulges or wrinkles.



⚠ WARNING

Bulges or wrinkles indicate the facepiece rubber is not seated correctly in the ring. Re-install the ring to seat it correctly. Failure to follow this warning can cause the facepiece to leak and result in serious personal injury or death.

- When the housing ring appears to be seated, grasp the outside of the ring and the inside of the housing at the top between your thumb and forefinger and squeeze them together. Then do the same with the ring halves at the bottom.
- Install the screw and tighten using a small Phillips screwdriver.

Reassembling the Ultra Elite Component Housing Cover and Adapter

For 1/4 Turn MMR facepieces:

- Holding the adapter assembly in one hand, rotate the slip nut so that the octagon flange on the slip nut lines up with the octagon flange on the adapter.
- Thread the adapter assembly into the facepiece.
- Using a torque wrench with the spanner wrench (PN 494261), torque the adapter to a minimum 12 in.lbs. If necessary, continue to torque until the top flat on the octagon is horizontal with a maximum torque of 27 in.lbs.
- The bayonets must be in a horizontal orientation. If the bayonets are not horizontal, remove the adapter assembly and turn the slip nut to the next octagon flange alignment.
- Re-install the adapter assembly so that the bayonets are horizontal when the adapter assembly is torqued 12-27 in.lbs.
- Place the component housing cover over the adapter assembly. Tilt and rotate the cover to work it over one bayonet at a time.
- Insert the tab on the cover into the slot in the lens ring.
- Press in on the front of the cover until the cover hook snaps in place.
- Install the locking ring by sliding it into the groove on the adapter. (Do not slide it into the space between the slip nut flange and the adapter flange.)
- Place the neckstrap brackets and the spacers in the cover sockets under the locking ring.
- Install the Phillips screws and tighten.
- Verify each of the following features.
 - The adapter bayonets are locked into a horizontal position and CANNOT be rotated.
 - The slip nut is threaded completely into the facepiece and locked securely. It CANNOT be rotated.
 - The metal locking ring is locked into position and CANNOT be rotated.
 - There is no loose play in the assembly of parts.

For Firehawk slide-to-connect facepieces:

- Thread the adapter into the facepiece.

- Tighten the adapter hand tight. Use the component housing cover to continue to tighten until the top flat on the octagon aligns with the two index marks at the top of the component housing inlet.
- Insert the tab on the component housing cover into the slot in the lens ring.
- Press in on the front of the cover until the cover hook snaps in place.
- Place the neckstrap brackets in the cover sockets.
- Install and tighten the Phillips screws.
- Verify that there is no loose play in the assembly of parts.

For Firehawk push-to-connect (PTC) facepieces:

- Insert the component housing cover tab into the lens ring slot, leave the cover loose.
- Place the PTC adapter through the facepiece component housing cover and thread the adapter assembly into the facepiece hand tight.
- Continue to tighten until the top flat of the adapter octagon is horizontal.

Note: The octagon flats on the facepiece adapter must align with octagon flats of component housing.

- Press in on the front of the cover until the cover hook snaps into place.
- Place the neckstrap brackets into the cover sockets.
- Install the Phillips screws and tighten.
- Verify that there is no loose play in the assembly of parts.
- Don the facepiece and check the face-to-facepiece seal. See Facepiece Fit Check section.

Facepiece Fit Check

- Don facepiece as indicated in Operation and User Manual.
- Check the inhalation valve by inhaling. If you do not receive sufficient flow of air, do not use facepiece. The facepiece must be repaired or replaced.
- Check the facepiece fit as follows: Hold the palm of one hand over the inlet facepiece adapter and inhale. Hold your breath at least 10 seconds. The facepiece should collapse and stay collapsed against your face. If it does not, re-adjust the facepiece and test again. **If this does not correct the leak, do not use the facepiece.**
- Test the exhalation valve as follows: Take a deep breath and hold it. Block the inlet facepiece adapter 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. If this does not release the valve, do not use the facepiece.

⚠ WARNING

This device may not seal properly with your face if you have a beard, gross sideburns or similar physical characteristics (see NFPA-1500 and ANSI Z88.2). An improper facial seal may allow contaminants to leak into the facepiece, reducing or eliminating respiratory protection. Do not use this device if such conditions exist. The face-to-facepiece seal must be tested before each use. Never remove the facepiece except in a safe, non-hazardous, non-toxic atmosphere. Failure to follow this warning can result in serious personal injury or death.

Note: For questions regarding this procedure, please contact MSA Customer Service at 1-877-MSA-3473.



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