

Instructions for TSI Model 8025-29 Fit Test Adapter Kit

This kit is designed to work with the following respirator and gas mask facepieces:

- MSA Advantage 1000 (including CBA-RCA version)
- MSA Millennium
- 3M FR-M40
- U.S. Military MCU-2/P and MCU-2A/P
- U.S. Military M40



MSA Advantage 1000



MSA Advantage 1000
CBA-RCA



MSA Millennium



MCU-2/P



M40

The masks listed above are all of similar design. Each has a center-mounted voicemitter (speaking diaphragm) that is held in place with a large diameter retaining ring. Some models may be equipped with voice amplification modules (not shown) that must be temporarily removed to use this adapter.

Kit contents:

Qty	Description
2	Voicemitter Ring Wrench (MSA part no. 807543)
2	Voicemitter Retaining Ring (MSA part no. 805111)
1	Adapter disk with fitting
1	Pair of P100 bayonet filters (MSA part no. 815369)
1	P100 filter with 40mm NATO thread (MSA part no. 491010)
1	Plastic carry case (not shown)
1	Instruction sheet (this document)



Voicemitter Ring Wrench
(MSA p/n 807543)



Voicemitter
Retaining
Ring



Adapter Disk



P100 Bayonet Filters
(MSA p/n 815369)



P100 Filter (40 mm)

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Note: This procedure assumes that you are testing each person in their own assigned mask which involves installing the adapter on each mask and then removing it after the fit test. It is also acceptable to use this adapter to "permanently" install on a set of masks (e.g. small, medium and large) to create a set of test masks that can be shared.

Step 1: Disassemble Mask

Use the voicemitter ring wrench to unscrew the voicemitter retaining ring on the front of the mask and remove the voicemitter by pushing it out from inside the mask. Some models use a gasket either under or on top of the voicemitter disk. Make note of all gasket locations to make certain that the mask will be reassembled correctly.



Step 2: Install Adapter Disk

Place the adapter disk onto the mask. It does not matter which side of the adapter disk is facing out. If there was a gasket under the voicemitter disk when you took it apart, use it under the adapter disk now also.



Step 3: Install Retaining Ring

Install the voicemitter retaining ring and tighten it down with the wrench. If there was a gasket between the ring and the voicemitter disk when you took it apart, use it under the retaining ring now also. The retaining ring should be firmly tightened using the wrench. Be careful not to over-tighten.

Note: If the mask is equipped with an optional voice amplification device such as the MSA ESP[®] or if the speaking diaphragm is integrated with the retaining ring such as on the MCU-2A/P mask, the assembly must be removed and temporarily replaced with the standard metal retaining ring (MSA part no. 805111 included in this kit).



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Step 4: Attach P100 or HEPA Filter(s)

Attach one or two P100 filters depending on the design of the mask. Advantage 1000 models use two bayonet mount filters. Military style masks use a single filter with a 40mm NATO thread. Both types are included in this kit.



Note: Filter canisters used for domestic preparedness applications can usually be used in place of P100 filters because they usually contain a P100 (HEPA) filter along with sorbent material for gas absorption. Make sure the canister has a P100 element in addition to the sorbent materials before using.

Step 5: Connect PortaCount

Attach PortaCount sample line to the fitting on the adapter disk and proceed with fit testing.



After the fit test:

At the completion of the fit test, remove the adapter disk and restore the mask to its original configuration. If the mask uses a voicemitter gasket, make sure it is in place under the voicemitter, and that the smooth side of the voicemitter (without seams) is against the gasket. Consult the facepiece manufacturer's instructions if you are not certain how to reassemble the mask components.