



3M Full Facepiece Respirator 6000PD Series

*User Instructions for 3M™ Medium 6800PD
and Large 6900PD Full Facepieces*

Important: Keep these *User Instructions* for reference.

GENERAL SAFETY INFORMATION

Intended Use

The 3M™ Full Facepiece Respirators 6000 Series are NIOSH approved and designed to help provide respiratory protection against certain airborne contaminants when used in accordance with all use instructions and limitations and applicable safety and health regulations.

The 3M Full Facepiece 6000 Series meets the requirements of the ANSI Z87.1-2003 standard, high impact level, for face and eye protection. These products help provide limited eye and face protection against flying particles.

This product contains no components made from natural rubber latex.



⚠ WARNING

This respirator helps protect against certain airborne contaminants. **Misuse may result in sickness or death.** For proper use, see your supervisor, or *User Instructions* or call 3M at 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414.

These *User Instructions* provide information about facepiece use only. Important information is provided in the *User Instructions* with each of the air filtration/supplied air systems that are NIOSH certified to be used with the Full Facepiece Respirator 6000 Series. Failure to follow *User Instructions* for the air filtration/supply system being used **may result in sickness or death.**

Do not clean respirators with solvents. Cleaning with solvents may degrade some respirator components and reduce respirator effectiveness. Inspect all respirator components before each use to ensure proper operating conditions. **Failure to do so may result in sickness or death.**

When in supplied air mode, your employer must provide breathing air that meets at least the requirements of the specification for Grade D breathing air, as described in the Compressed Gas Association Commodity Specification G-7.1-1997 in the United States. In Canada, breathing air systems must be supplied with air which meets at least the requirements of CSA Standard Z180.1. Failure to do so **may result in sickness or death.**

USE INSTRUCTIONS AND LIMITATIONS

Important

Before use, the wearer must read and understand these *User Instructions*. Keep these *User Instructions* for reference.

Use For

Respiratory protection from certain airborne contaminants according to NIOSH approvals, OSHA limitations, in Canada CSA standard Z94.4 requirements, other applicable regulations and 3M instructions.

Do Not Use For

Concentrations of contaminants which are immediately dangerous to life or health, are unknown or when concentrations exceed 10 times the permissible exposure limit (PEL) in air purifying mode when qualitatively fit tested, 50 times the PEL in air purifying mode when quantitatively fit tested, 1000 times the PEL in pressure demand mode, or according to specific OSHA standards or applicable government regulations, whichever is lower.

Use Instructions

1. Failure to follow all instructions and limitations on the use of this respirator and/or failure to wear this respirator during all times of exposure can reduce respirator effectiveness and **may result in sickness or death.**
2. Before occupational use of this respirator, a written respiratory protection program must be implemented meeting all the requirements of OSHA 29 CFR 1910.134 such as medical evaluation, training and fit testing and applicable OSHA substance specific standards. In Canada, follow the recommendations of CSA Z94.4 and/or requirements of the applicable jurisdiction, as appropriate. When used in supplied air mode, your employer must supply breathing air that meets at least the requirements of Grade D breathing air in Compressed Gas Association Commodity Specifications G-7.1-1997. In Canada, breathing air systems must be supplied with air which meets at least the requirements of CSA Standard Z180.1.
3. The airborne contaminants, which can be dangerous to your health, include those that are so small you may not be able to see or smell them.
4. Leave the contaminated area immediately and contact supervisor if you smell or taste contaminants or if dizziness, irritation, or other distress occurs.
5. Store respirator away from contaminated areas when not in use.
6. Dispose of used product in accordance with applicable regulations.

Use Limitations

1. This respirator does not supply oxygen when used in air purifying modes. Do not use in atmospheres containing less than 19.5% oxygen.
2. Do not use when concentrations of contaminants are immediately dangerous to life or health, are unknown or when concentrations exceed 10 times the permissible exposure limit (PEL) in air purifying mode when qualitatively fit tested, 50 times the permissible exposure limit (PEL) when quantitatively fit tested, 1000 times the PEL in pressure demand mode, or according to specific OSHA standards or applicable government regulations, whichever is lower.
3. Do not alter, abuse or misuse this respirator.
4. Do not use with beards or other facial hair or other conditions that prevent a good seal between the face and the faceseal of the respirator.

Time Use Limitations

1. If respirator becomes damaged, leave the contaminated area immediately and repair or replace the respirator.
2. Replace filters in accordance with the filter Time Use Limitation. (See filter User Instructions.)
3. Replace cartridges in accordance with an established change schedule or earlier if smell, taste or irritation from contaminants is detected.

NIOSH Cautions and Limitations

The following restrictions may apply. See NIOSH Approval Label.

- A - Not for use in atmospheres containing less than 19.5 percent oxygen.
- B - Not for use in atmospheres immediately dangerous to life or health.
- C - Do not exceed maximum use concentrations established by regulatory standards.
- D - Air-line respirators can be used only when the respirators are supplied with respirable air meeting the requirements of CGA G-7.1 Grade D or higher quality.
- E - Use only the pressure ranges and hose lengths specified in the *User's Instructions*.
- G - If airflow is cut off, switch to filter and/or cartridge or canister and immediately exit to clean air.
- H - Follow established cartridge and canister change schedules or observe ESLI to ensure that cartridges and canisters are replaced before breakthrough occurs.
- J - Failure to properly use and maintain this product could result in injury or death.**
- L - Follow the manufacturer's *User's Instructions* for changing cartridges, canister and/or filters.
- M - All approved respirators shall be selected, fitted, used, and maintained in accordance with MSHA, OSHA, and other applicable regulations.
- N - Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- O - Refer to *User's Instructions*, and/or maintenance manuals for information on use and maintenance of these respirators.
- P - NIOSH does not evaluate respirators for use as surgical masks.
- S - Special or critical *User's Instructions* and/or specific use limitations apply. Refer to *User's Instructions* before donning.

S-Special or Critical *User's Instructions*

3M™ Mercury Vapor Cartridges (6009 and 60929) are equipped with passive 3M™ End of Service Life Indicators (ESLI). The color change indicator must be readily visible when wearing the respirator without manipulation. If you cannot readily see the ESLI, do not use. The mercury vapor cartridges must be discarded when the ESLI changes to the discard color found on the mercury vapor cartridge label; or within 30 days of opening packaging; or when ESLI becomes dirty or damaged; or when odors of vapors or gases become noticeable, whichever occurs first. Mercury vapor has no odor.

Use of the 3M™ Nose Cup Assembly 6894 is required with all 3M™ facepiece system 6000PD applications.

Cartridge and Filter Selection and Approvals

Before using any of these products, the user must read the specific use for, use limitations and warning information on the cartridge and/or filter packaging or call OH&ESD Technical Service at 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414. Do not exceed maximum use concentrations established by local regulatory agencies. Cartridges/filters are approved as assemblies for use with 3M™ Series Facepieces 6000. For NIOSH approval, refer to approval label.

LIST OF PRODUCTS

3M™ Full Facepiece 6000 Series Replacement Parts and Accessories

Full Facepiece with 3M™ Pressure Demand Adapter 6874

Number	Description
6800PD	Medium
6900PD	Large

Pressure Demand Adapter Assembly

Number	****AAD	Description
1	6874	Pressure Demand Adapter Assembly
1A	6877	Pressure Demand Cover
1B	6876	Breathing Tube Gasket
1C	6872	Pressure Demand Exhalation Valve
1D	6883	DIN Port Base
1E	6896	Center Adapter Gasket
1F	6881	DIN Air Director
1G	7980	Full Face Plug (Accessory not included with 6874)
2	6880	Bayonet Cap
3	6895	07145 Inhalation Gasket
4	6893	07144 Inhalation Valve
5	6898	37006 Lens Assembly
6	6894	37004 Nose Cup Assembly
7	6899	37007 Frame Assembly w/ Screws
8	6897	37005 Head Harness Assembly

****AAD part numbers are catalog numbers only. NIOSH approved as OH&ESD part numbers

3M™ Accessories and Parts

Number	****AAD	Description
504	07065	Respirator Cleaning Wipes
601		Quantitative Fit Test Adapter
6878	07141	Spectacle Kit
6885	07142	Lens Cover
6886		Tinted Lens Cover
7883		Neck Strap Assembly

****AAD part numbers are catalog numbers only. NIOSH approved as OH&ESD part numbers

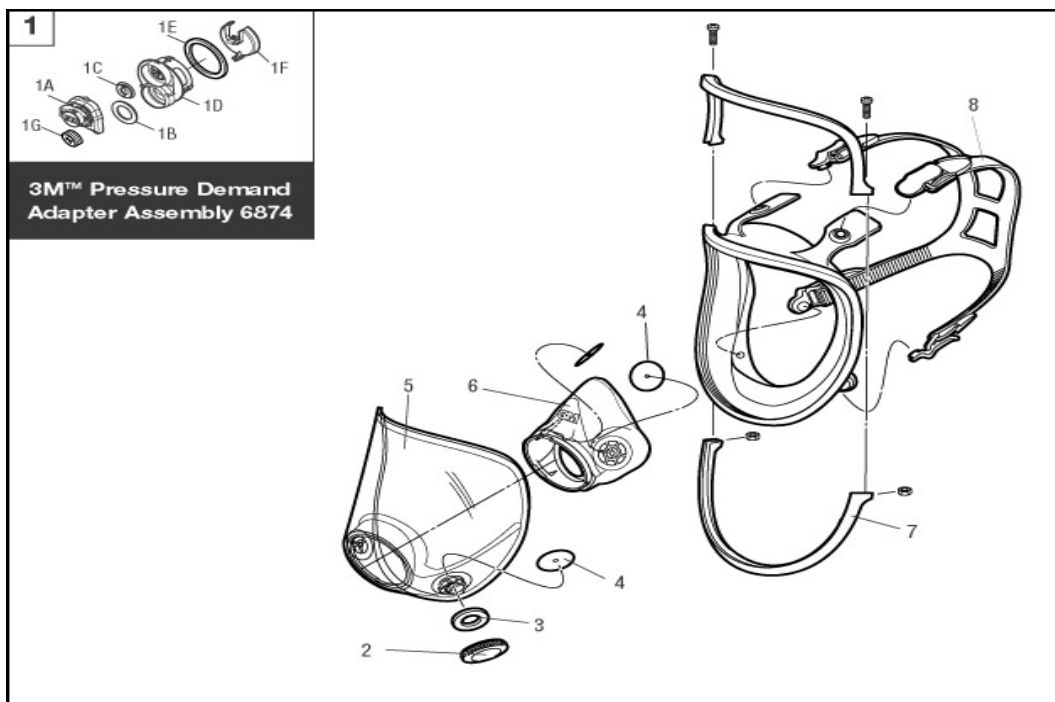


Fig 1

CAUTION

Failure to properly dispose of spent cartridges, filters, or respirators contaminated by hazardous materials can result in environmental harm. Handling, transportation and disposal of spent cartridges, filters, or respirators must comply with all applicable federal, state, and local laws and regulations.

3M™ 6000 Series Cartridges (Side-Mounted)

Number	***AAD	Description	NIOSH Approval for respiratory protection against the following contaminants up to ten times the permissible exposure limit (PEL) when qualitatively fit tested, up to fifty times the PEL when quantitatively fit tested and up to 1000 times the PEL in powered air-purifying or supplied air mode.
6001	07046	Organic Vapor	Certain organic vapors
6002		Acid Gas	Chlorine, hydrogen chloride, and sulfur dioxide or chlorine dioxide or hydrogen sulfide.
6003	07047	Organic Vapor/Acid Gas	Certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide or hydrogen sulfide or hydrogen fluoride
6004		Ammonia/Methylamine	Ammonia and methylamine
6005		Formaldehyde/Organic vapor	Formaldehyde and certain organic vapors
6006		Multi-Gas/Vapor	Certain organic vapors, chlorine, hydrogen chloride, chlorine dioxide, sulfur dioxide,

		hydrogen sulfide, ammonia/methylamine, formaldehyde or hydrogen fluoride
6009	Mercury Vapor/Chlorine Gas	Mercury vapor or chlorine gas
60921	Organic Vapor/P100	Certain organic vapors and particulates
60922	Acid Gas/P100	Chlorine, hydrogen chloride, and sulfur dioxide or chlorine dioxide or hydrogen sulfide and particulates
60923	Organic Vapor/Acid Gas/P100	Certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide or hydrogen sulfide or hydrogen fluoride and particulates
60924	Ammonia/Methylamine/P100	Ammonia and methylamine and particulates
60925	Formaldehyde/Organic Vapor/P100	Formaldehyde and certain organic vapors and particulates
60926	Multi-Gas/Vapor/P100	Certain organic vapors, chlorine, hydrogen chloride, chlorine dioxide, sulfur dioxide, hydrogen sulfide, ammonia/methylamine, formaldehyde or hydrogen fluoride and particulates
60928	Organic Vapor/Acid Gas/P100	Certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide or hydrogen sulfide or hydrogen fluoride and particulates. ¹
60929	Mercury Vapor/Chlorine Gas/P100	Mercury vapor or chlorine gas and particulates

****AAD part numbers are catalog numbers only. NIOSH approved as OH&ESD part numbers

¹3M recommended for use against methylbromide or radioiodine up to 5 ppm with daily cartridge replacement. **Note: Not NIOSH approved for use against methylbromide or radioiodine.**

Service Life of Chemical Cartridges and Filters

3M™ Series Chemical Cartridges 6000 must be used before the expiration date on cartridge packaging. The useful service life of these cartridges will depend upon activity of wearer (breathing rate), specific type, volatility and concentration of contaminants and environmental conditions such as humidity, pressure, and temperature. Cartridges must be replaced in accordance with an established change schedule, regulations or earlier if smell, taste or irritation from contaminants is detected.

Filters must be replaced if they become damaged, soiled or if an increase in breathing resistance occurs. N-series filters should not be used in environments containing oils. R-series filters may be limited to 8 hours of continuous or intermittent use if oil aerosols are present. In environments containing only oil aerosols, P-series filters should be replaced after 40 hours of use or 30 days, whichever is first.

3M™ Filters, Adapters and Retainers

Note: Only 3M™ Filters approved under NIOSH 42 CFR 84 are to be used with the 3M™ Full Facepieces 6000 Series.

Number	****AAD	Description
501	07054	Filter Retainer for Filters 5N11 and 5P71

502		Filter Adapter for Filters 2000 Series and 7093
2071		Particulate Filter, P95
2076HF		Particulate Filter, P95, hydrogen fluoride, with nuisance level acid gas relief ¹
2078		Particulate Filter, P95, 3M recommended ozone protection ² , with nuisance level organic vapor/acid gas relief ¹
2091	07000	Particulate Filter, P100
2096		Particulate Filter, P100, with nuisance level acid gas relief ¹
2097	07184	Particulate Filter, P100, 3M recommended for ozone protection ² , with nuisance level organic vapor/acid gas relief ¹
5N11		Particulate Filter, N95
5P71	07194	Particulate Filter, P95
7093		Particulate Filter, P100

****AAD part numbers are catalog numbers only. NIOSH approved as OH&ESD part numbers

1. 3M recommended for relief against nuisance levels of acid gas or organic vapors. Nuisance level refers to concentrations not exceeding OSHA PEL or applicable exposure limits, whichever is lower. Do not use for respiratory protection against acid gas/organic vapors.
2. 3M recommended for ozone protection up to 10 times the OSHA PEL or applicable government occupational exposure limits, whichever is lower. **Note: Not NIOSH approved for use against ozone.**

3M particulate filters must be immediately changed when an increase in breathing resistance is noticed.

ASSEMBLY INSTRUCTIONS

All 3M™ Full Facepiece 6000 Series equipped with the 3M™ Pressure Demand Adapter 6874 (full facepiece assemblies 3M™ 6800PD and 3M™ 6900PD) can be used in any of the following configurations:

Supplied Air Pressure Demand Respirator

Supplied Air Pressure Demand Respirator with cartridge/filter backup

– 3M™ Filters 2000 Series and 3M™ P100 Particulate Filter 7093 and Cartridges 6000 Series

Whenever the 3M™ Pressure Demand Valve W-3232 is attached to the center DIN port of the 3M™ DIN Port Adapter Assembly 6874, the 3M™ Full Face Plug 7890 must be removed from the center port and the side bayonet ports must contain appropriate filters or cartridges or be closed using 3M™ Bayonet Caps 6880.

Note: Make certain 3M™ Inhalation Port Gaskets 6895 are in place on facepiece bayonet connectors before installing filters or cartridges.



Over tightening may cause damage to the Pressure Demand Adapter housing and/or gasket and allow unfiltered air to enter the facepiece, **which may result in sickness or death.**

3M™ Pressure Demand Cover 6877

The 3M pressure demand cover employs a two-position exhalation valve. The movable cover tab must be in the “In” position for pressure demand mode. When using in negative pressure mode with filter or cartridges, the cover tab must be pulled and rotated to the “Out” position (Fig. 1).

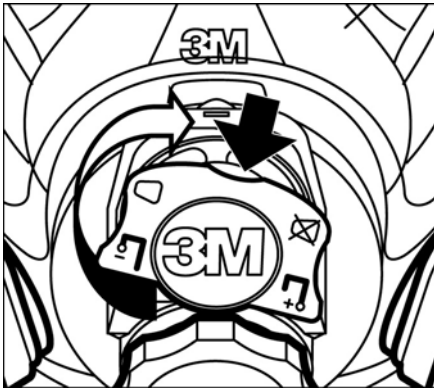


Fig. 1

Air Control Devices – Pressure Demand System Assembly

User must follow 3M™ Air Control Devices *User Instructions* for Pressure Demand Valve with Breathing Tube W-3232 and Pressure Demand Kit W-3337.

3M™ Cartridge 6000 Series Assembly

1. Align the cartridge notch with the small solid bayonet lug on facepiece and push together.
2. Turn cartridge clockwise to stop (1/4 turn). Repeat with second cartridge. (Fig. 2)
3. Check that a breathing tube gasket (gray) 6876 and the 3M™ pressure demand valve W-3232 have been installed in the center DIN port.

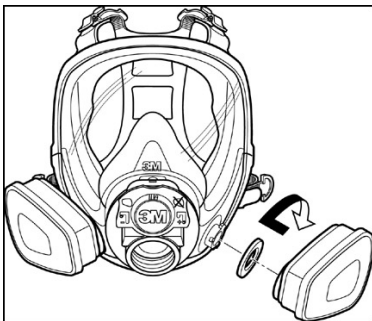


Fig. 2

3M™ 2000 Series and 3M™ Filter Assembly 7093

1. Align opening of filter with filter attachment on facepiece.
2. Turn filter clockwise until it is firmly seated and cannot be further turned.
3. Repeat for second filter. (Fig. 3)
4. Check that a 3M™ breathing tube gasket (gray) 6876 and the pressure demand valve W-3232 have been installed in the center DIN port.



Fig. 3

Filter Assembly (for 3M™ Particulate Filter, N95 5N11 and 3M™ Particulate Filter, P95 5P71)

1. Place filter into 3M™ Retainer 501 so printed side of filter faces the cartridge.
2. Press cartridge into filter retainer. It should snap securely into filter retainer. When correctly installed, filter should completely cover face of cartridge. (Fig. 4)
3. To replace filter, remove retainer by lifting on TAB.

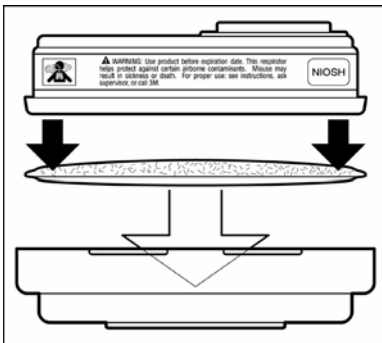


Fig. 4

3M™ Filter Adapter 502 Assembly and Filter Attachment

1. Align adapter over cartridge. Engage front snap by squeezing front of cartridge and adapter together, placing thumbs of both hands over top of adapter and fingers along bottom sides of cartridge. (Fig. 5)
2. Engage back snap by squeezing back side of cartridge and adapter together using the same hand positions. An audible click should be heard as each snap is engaged. (Fig. 6)

- Place filter onto the filter holder so that filter comes into even contact with gasket. Twist clockwise a quarter turn until it is firmly seated and filter cannot be turned further. Repeat for second filter.

Note: The 3M™ Filter Adapter 502, once installed on a 3M™ Cartridge 6000 Series, is not to be removed or reused. Removal or reuse may result in leakage, overexposure, sickness or death.



Fig. 5

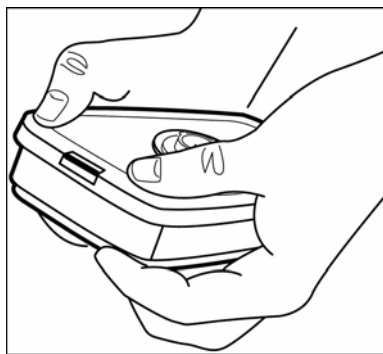


Fig. 6

3M™ 2000 Series and 3M™ Particulate Filter 7093, 3M™ Filter Adapter 502

Place filter onto the filter holder so that filter comes into even contact with gasket. Twist clockwise a quarter turn until it is firmly seated and filter cannot be turned further. Repeat for second filter.

Note: The 3M™ Filter Adapter 502, once installed on a 3M™ Cartridge 6000 Series, is not to be removed or reused. Removal or reuse may result in leakage, overexposure, sickness or death.

3M™ Supplied Air Systems

⚠ WARNING

To meet the U.S. National Institute for Occupational Safety and Health (NIOSH) requirement for minimum (4 CFM/115 lpm) and maximum (15 CFM/424 lmp) air flow, the air control valves approved for use with the 3M 6000 Series Full Facepiece Respirators must be operated within the correct supply pressure ranges and hose lengths. Failure to do so **may result in sickness or death.**

⚠ WARNING

Your employer must provide breathing air that meets at least the requirements of the specification for Grade D breathing air, as described in the Compressed Gas Association Commodity Specification G-7.1-1997 in the United States. In Canada, breathing air systems must be supplied with air, which meets at least the requirements of CSA Standard Z180.1. Failure to do so **may result in sickness or death.**

3M™ Pressure Demand Respirator Assembly

User must follow the 3M Pressure Demand *User Instructions* provided with the 3M™ W-3337 Pressure Demand Kit.

FITTING INSTRUCTIONS

Must be followed each time respirator is worn.

Note: Do not use with beards or other facial hair or other conditions that prevent a good seal between the face and the faceseal of the respirator. Standard eyeglasses cannot be worn with full facepiece respirators. If corrective eyeglasses are required a 3M Spectacle Kit must be used inside the respirator. To help maintain a good seal between the face and the faceseal all hair, hoods, or other equipment must be kept out of respirator faceseal area at all times.

Donning Respirator

1. Fully loosen all four head straps. With one hand pull hair back out of facepiece sealing area. Place chin in the respirator chin cup. While holding the facepiece in place, pull the head harness to back of head. (Fig. 7)
2. Pull the ends of the four straps to adjust tightness, starting with the neck straps first, then the forehead straps. Do not overtighten the straps. (Fig. 8)
3. Perform a positive and/or negative pressure user seal check each time the respirator is donned.



Fig. 7

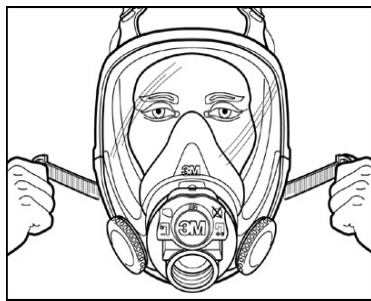


Fig. 8



Fig. 9



Fig. 10

User Seal Checks

Always check the seal of the respirator on your face before entering a contaminated area.

Positive Pressure User Seal Check

1. Remove Pressure Demand Valve with Breathing Tube from the center DIN port of respirator.

2. With the palm of your hand covering the exhalation valve cover and center DIN port, exhale gently. If facepiece bulges slightly and no air leaks are detected between your face and the facepiece, a proper seal has been obtained.
3. If faceseal air leakage is detected, reposition the respirator on your face and/or readjust the tension of the straps to eliminate air leakage and recheck seal.

If you cannot achieve a proper seal, DO NOT enter contaminated area. See your supervisor.

Negative Pressure User Seal Check with Pressure Demand Valve

1. Disconnect airline hose from air control valve.
2. With Pressure Demand Valve and breathing tube still connected to respirator and the air control valve inhale gently. If you feel facepiece collapse slightly and pull closer to your face with no leaks between the face and facepiece, a proper seal has been obtained.
3. If faceseal air leakage is detected, reposition the respirator on your face and/or readjust the tension of the straps to eliminate the leakage and recheck seal.

If you cannot achieve a proper seal, DO NOT enter contaminated area. See your supervisor.

Negative Pressure User Seal Check with 3M™ Cartridges 6000 Series

1. Place palms of hands to cover face of cartridge or open area of 3M™ Filter Retainer 501 and inhale gently. Be careful not to disturb the position of the respirator. If you feel facepiece collapse slightly and pull closer to your face with no leaks between the face and facepiece, a proper seal has been obtained. (Fig. 9)
2. If faceseal air leakage is detected, reposition respirator on face and/or readjust tension of straps to eliminate leakage and recheck seal

If you cannot achieve a proper seal, DO NOT enter contaminated area. See your supervisor.

Note: Use of 3M filter retainer 501 may aid respirator wearer in conducting a negative pressure seal check.

Negative Pressure User Seal Check with 3M™ Filters 2000 Series

1. Place your thumbs onto the center portion of the filters, restricting airflow through filters and inhale gently. Be careful not to disturb the position of the respirator. If you feel facepiece collapse slightly and pull closer to your face with no leaks between the face and facepiece, a proper seal has been obtained. (Fig. 10)
2. If faceseal air leakage is detected, reposition respirator on face and/or readjust tension of straps to eliminate the leakage and recheck seal..

If you cannot achieve a proper seal, DO NOT enter contaminated area. See your supervisor.

Negative Pressure User Seal Check with 3M™ Particulate Filter 7093

1. Using hands press or squeeze filter covers toward facepiece and inhale gently. Be careful not to disturb the position of the respirator. If you feel facepiece collapse slightly and pull closer to your face with no leaks between the face and facepiece a proper seal has been obtained.

2. If face seal air leakage is detected, reposition the respirator on your face and/or readjust the tension of the straps to eliminate the leakage **and recheck seal**.

If you cannot achieve a proper seal, DO NOT enter contaminated area. See your supervisor.

Note: Before assigning any respirator to be worn in a contaminated area, a qualitative or quantitative fit test must be performed per OSHA Standard 1910.134, or CSA Standard Z94.4.

RESPIRATOR REMOVAL

1. Fully loosen all four head straps by lifting up on buckles.
2. Remove respirator by pulling straps over head.

FIT TESTING

The effectiveness of a respirator will be reduced if it is not fitted properly. Therefore, either quantitative or qualitative fit testing must be conducted prior to the respirator being used.

Note: Fit testing is a requirement of U.S. OSHA and all Canadian jurisdictions. Therefore, either quantitative or qualitative fit testing must be conducted prior to the respirator being issued.

Quantitative Fit Testing

Quantitative Fit Testing (QNFT) can be conducted using a 3M™ Fit Test Adapter 601 and 42 CFR 84 P100 filters such as the 3M™ P100 Particulate Filters 2091 or 7093.

Qualitative Fit Testing

Qualitative Fit Testing (QLFT) with the 3M™ Qualitative Fit Test FT-10 or FT-30 Apparatus can be conducted using any of the NIOSH approved 42 CFR 84 Particulate filters.

Fit testing should be conducted using the heaviest cartridge, canister, filter or combination that each wearer will use in their work environment. Respirators should also be fit tested while wearing any personal protective equipment (PPE) the wearer may use in their work environment that may affect the fit of the respirator (e.g. hoods, hardhats, safety glasses, hearing protections, etc.).

Note: For further information concerning fit testing, contact 3M OH&ESD Technical Service at 1-800-243-4630 or a 3M location in your region. In Canada call Technical Service at 1-800-267-4414.

INSPECTION, CLEANING, AND STORAGE

Inspection Procedure

This respirator must be inspected before each use to ensure that it is in good operating condition. Any damaged or defective parts must be replaced before use. Do not enter a contaminated area with damaged or defective parts. The following inspection procedure is recommended:

1. Check facepiece for cracks, tears and dirt. Be certain facepiece, especially face seal area, is not distorted.
2. Examine inhalation valves for signs of distortion, cracking or tearing.
3. Make sure that head straps are intact and have good elasticity.
4. Examine all plastic parts for signs of cracking or fatiguing. Make sure filter gaskets are properly seated and in good condition.
5. Remove exhalation valve cover and examine exhalation valve and valve seat for signs of dirt, distortion, cracking or tearing. Examine pressure demand exhalation valve spring for signs of distortion. Replace exhalation valve cover.
6. Inspect lens for any damage that may impair respirator performance or vision.

Cleaning and Storage

Cleaning is recommended after each use.



Do not clean with solvents. Cleaning with solvents may degrade some respirator components and reduce respirator effectiveness. Inspect all respirator components before each use to ensure proper operating condition. **Failure to do so may result in sickness or death.**

1. Remove cartridges, filters and/or pressure demand valve. The center adapter, lens and face seal can also be removed if necessary.
2. Clean facepiece (excluding filters and cartridges), by immersing in warm cleaning solution, water temperature not to exceed 120° F (49° C), and scrub with soft brush until clean. Add neutral detergent if necessary. Do not use cleaners containing lanolin or other oils.
3. Disinfect facepiece by soaking in a solution of quaternary ammonia disinfectant or sodium hypochloride (1 oz. [30 ML] household bleach in 2 gallons [7.5 L] of water), or other disinfectant.
4. Rinse in fresh, warm water and air dry in noncontaminated atmosphere.
5. Respirator components should be inspected prior to each use. A respirator with any damaged or deteriorated components should be repaired or discarded before use.
6. The cleaned respirator should be stored away from contaminated areas when not in use.

REPLACEMENT PART INSTRUCTIONS

3M™ Facepiece Assemblies for 6800PD and 6900PD

The facepiece consists of the head harness assembly, nose cup assembly, center adapter assembly, lens assembly, face seal (small, medium or large), and frame assembly (top, bottom, nuts and screws).

To disassemble lens assembly from face seal, remove the two Phillips screws from top frame. Then, pull the frame top and frame bottom away from the face seal. The frame top, frame bottom, face seal and the lens assembly have vertical line markings that indicate their positions relative to one another. Make certain these markings are aligned for reassembly.

3M™ Pressure Demand Adapter Assembly 6874

The pressure demand adapter (center adapter) assembly consists of a 3M™ DIN Port Base 6883, 3M™ Pressure Demand Cover 6877, 3M™ DIN Air Director 6881, 3M™ Exhalation Valve 6872, and 3M™ Center Adapter Gasket 6896. It is secured to the center of the lens with a bayonet style, twist lock connection, which compresses the center adapter gasket 6896. The 3M pressure demand adapter assembly 6874 is locked in position by the DIN air director 6881.

To remove the center adapter from the facepiece

1. Remove nose cup assembly by pulling away from center adapter inside facepiece. (Fig. 11)
2. Squeeze the locking tab at the back of the air director 6881 and pull back to disengage from the DIN port base 6883. (Fig. 13)

3. Grasp center adapter at cover and twist counter-clockwise 1/4 turn to disengage bayonet from facepiece lens.
4. Withdraw center adapter from lens center port.

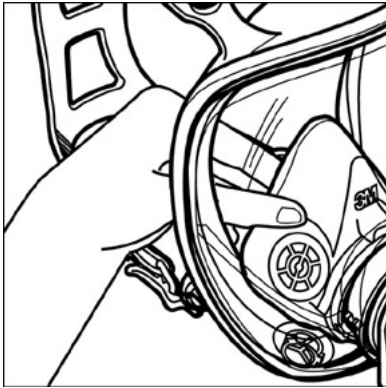


Fig. 11

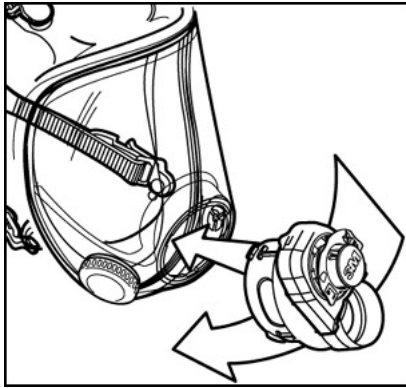


Fig. 12

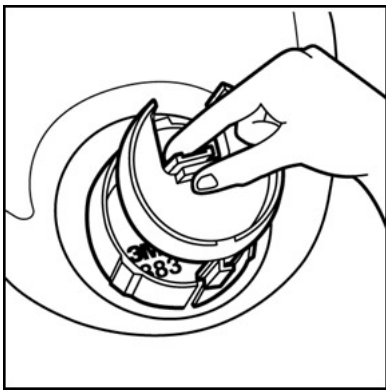


Fig. 13

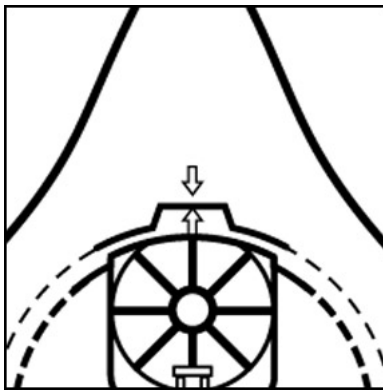


Fig. 14

To install the center adapter into the facepiece

1. Remove the 3M™ DIN air director 6881 from the 3M™ DIN base 6883.
2. Align tabs on center adapter base with notches in center port of facepiece lens.
3. Slide adapter into lens port. (Fig. 12)
4. Grasp center adapter at cover and twist clockwise 1/4 turn to stop. Be certain center adapter gasket is properly in place and sealed, and that the adapter assembly is fully engaged.
5. Align the lug at the bottom of the DIN Air Director 6881 with the slot at the bottom of the DIN Port Base 6883. (Fig. 13) Slide forward and press the center knob until the locking tab clicks into place.
6. Replace nose cup assembly onto center adapter aligning arrows. (Fig. 14)
7. Attach the 3M™ Bayonet Caps 6880 to side inlet ports on the facepiece if using in pressure demand mode.

3M™ Nose Cup Assembly Replacement 6894

The nose cup assembly 6894 consists of a nose cup and inhalation valves. It is designed to install onto the center adapter and comfortably fit over the respirator wearer's mouth and nose to aid in purging exhaled breath and prevent lens fogging.

1. Remove the nose cup assembly by pulling away from center adapter inside facepiece. (Fig. 11)
2. To replace, position nose cup assembly onto center adapter aligning arrows. (Fig. 14)

Nose Cup Requirements

The nose cup 6894 must be used at all times in pressure demand mode.



Failure to use the 3M nose cup 6894 may adversely affect respirator performance and **result in sickness or death.**

3M™ Center Adapter Gasket Replacement 6896

The 3M™ Center Adapter Gasket 6896 is designed to seal the interface between the center adapter and the lens of the Full Facepiece 6000 Series.

1. Remove nose cup assembly by pulling away from center adapter inside facepiece. (Fig. 11)
2. Squeeze the locking tab at the back of the 6881 Air Director and pull back to disengage from the DIN Port Base 6883. (Fig. 13)
3. Grasp center adapter at cover and twist counter-clockwise 1/4 turn to disengage from facepiece lens. Withdraw center adapter from lens center port.
4. Remove old 3M center adapter gasket 6896 from center adapter and replace with new gasket 6896.
5. Re-install center adapter and nose cup into facepiece lens. (Fig. 12)
6. Align the lug at the bottom of the DIN Air Director 6881 with the slot at the bottom of the DIN Port Base 6883. (Fig. 13) Slide forward and press the center knob until the locking tab clicks into place.
7. Replace nose cup assembly onto center adapter aligning arrows. (Fig. 14)

3M™ Inhalation Valve Replacement 6893

Inhalation valves are located on posts at the inside of the facepiece inhalation ports and inside the nose cup inhalation ports. These valves should be inspected before each respirator use and replaced whenever valves become damaged or lost.

1. Remove existing valve(s) by lifting from post(s).
2. Install new valve(s) onto post(s). Be certain valve(s) is fully engaged under all three lugs on post(s), lays flat, and moves freely (spins) on post. (Fig. 17)

3M™ Pressure Demand Exhalation Valve Replacement 6872

1. Remove center adapter cover by pulling out from upper latch.
2. Grasp valve and pull valve stem out from valve seat.
3. Inspect valve seat making certain it is clean and in good condition.
4. Place new valve 6872 over the exhalation port putting valve stem into center hole. Be certain the valve is fully seated and spins freely in mount. (Fig. 15)
5. Replace adapter cover by engaging top and bottom snaps (latches). Be sure the tip of the pressure demand spring is inserted into the center hole of the exhalation valve 6872.

6. Check for proper installation by pressing the valve stem from the inside of the assembly. The valve should slide freely and close by itself.

Note: Conduct a negative pressure user seal check to ensure exhalation valve is functioning properly.

3M™ Inhalation Port Gasket Replacement 6895

The gasket 6895 is designed to seal the interface between the bayonet attachment inhalation ports on the facepiece and filters/cartridges installed on the facepiece. The gaskets should be inspected with each filter/cartridge change and replaced whenever damaged or seal integrity is questionable.

1. Remove gaskets from facepiece inhalation port bayonet fittings.
2. Install new gaskets onto facepiece inhalation port bayonet fittings. Be certain gaskets are in proper position under all three bayonet lugs. (Fig. 16)

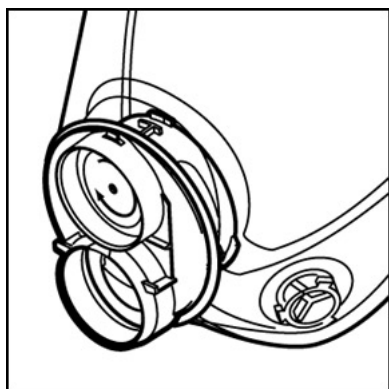


Fig. 15

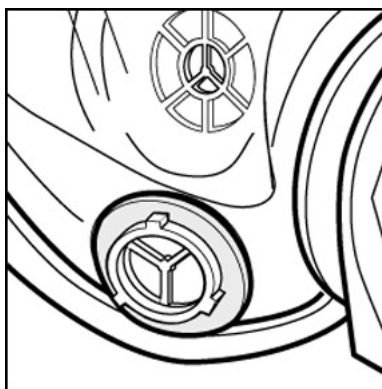


Fig. 16



Fig. 17

3M™ Head Harness Replacement 6897

Read and follow Head Harness Assembly 6897 Replacement Instructions included with replacement Head Harness for instructions on removing and replacing the Head Harness.

3M™ Lens Assembly 6898

The lens assembly 6898 consists of a hard-coated polycarbonate lens with installed bayonet attachment inhalation port fittings, inhalation valves, and inhalation port filter/cartridge gaskets. The lens is replaceable by following these steps:

1. Remove nose cup assembly from inside facepiece.
2. Squeeze the locking tab at the back of the DIN Air Director 6881 and pull back to disengage from the DIN Port Base 6883. (Fig. 13)
3. Remove center adapter assembly by turning counter-clockwise 1/4 turn and withdrawing from lens center port.
4. Remove the (2) Phillips screws from the lens/faceseal frame. Pull the frame top and frame bottom away from faceseal.
5. Remove faceseal from lens.
6. Place new lens and faceseal together aligning marks at top and bottom. Position top and bottom frame, again aligning marks top and bottom. (Fig. 18) Install and securely tighten screws. Make certain alignment marks are properly aligned top and bottom with all components.
7. Install center adapter assembly.

8. Replace nose cup assembly onto center adapter aligning arrows. (Fig. 14)

3M™ Frame Kit 6899

The frame kit 6899 includes a frame top, frame bottom, (2) Phillips head screws and (2) hex head nuts. The frame kit secures and seals the 3M™ full facepiece 6000 Series face seal to the 3M lens assembly 6898.

1. After assembling the face seal onto the lens, matching top and bottom alignment marks, position top frame, over lens and face seal, aligning center vertical marks then press in place.
2. Position bottom frame, aligning center vertical mark, and press in place. (Fig. 18)
3. Insert and tighten Phillips head screws. Make certain parts are properly aligned and sealed together.

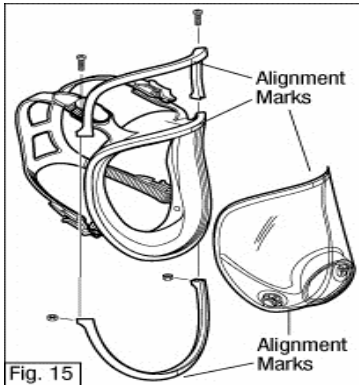


Fig. 18

FOR MORE INFORMATION

In United States, contact:

Website: www.3M.com/OccSafety

Technical Assistance: 1-800-243-4630

For other 3M products:

1-800-3M-HELPS or 1-651-737-6501

U.S. PATENTS	5,924,420
	Des. 378,610
	Des. 379,160
	Des. 388,872
	Des. 409,744
	Des. 421,116
	Des. 421,301
	Des. 433,751
	Des. 434,847

**3M Occupational Health and
Environmental Safety Division**

3M Center, Building 0235-02-W-70

St. Paul, MN 55144-1000

©3M 2007

98-0060-0058-6/2