



**3M 6000DIN Series  
Respirator Full Facepiece**

*User Instructions for 3M™ 6700DIN  
Full Facepiece (Small), 6800DIN Full  
Facepiece (Medium), 6900DIN Full  
Facepiece (Large)*

*(Keep these instructions for reference)*



## ⚠ WARNING

These *User Instructions* provide information about the facepiece use only. Important information is provided in the *User Instructions* with each of the air filtration/supplied air systems. Failure to follow *User Instructions* for the air filtration/supply system being used may result in sickness or death.

This respirator helps protect against certain airborne contaminants. **Misuse may result in sickness or death.**

**Do not clean respirator 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.

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## GENERAL SAFETY INFORMATION

### Intended Use

The 3M™ 6000 Series Full Facepiece Respirators are 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.

This product contains no components made from natural rubber latex.

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### 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.

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## USE INSTRUCTIONS AND LIMITATIONS

### Important

Before use, the wearer must read and understand these *User Instructions*. Keep these 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 powered air purifying or supplied air 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 training and fit testing and applicable OSHA substance specific standards. In Canada, CSA standard Z94.4 requirements must be met.
3. The airborne contaminants which can be dangerous to your health include those that are so small you cannot see them.
4. Leave 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 mode. Do not use in atmospheres containing less than 19.5% oxygen.
2. Do not use when concentrations of contaminants are immediately dangerous to life and 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 powered air purifying or supplied air 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 face seal 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 Limitations.
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 Matrix.

- 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.
- F- Do not use powered air-purifying respirators if airflow is less than four cfm (115 lpm) for tight fitting facepieces or six cfm (170 lpm) for hoods and/or helmets.
- 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 cartridge and canisters are replaced before breakthrough occurs.
- I- Contains electrical parts which have not been evaluated as an ignition source in flammable or explosive atmospheres by MSHA/NIOSH.
- 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 Use 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. Mercury vapor cartridges must be discarded when the ESLI changes color; 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.

To assemble 3M™ Dual Airline Combination Breathing Tubes with 3M™ Cartridges/Filters, the facepiece inhalation valves must be removed.

If the facepiece is to be used in air purifying mode (without using the 3M™ SA-1600 or SA-2600 breathing tubes), the inhalation valves must be replaced in the facepiece before use.

Use of the 3M™ 6894 Nose Cup Assembly with the 3M™ 6000DIN Series Full Facepieces must be in accordance with the NIOSH approval for the system being used.

–Nose cup is not to be used with the Powerflow™ Face-Mounted PAPR

–Nose cup use is optional with 3M™ GVP and Breathe Easy™ Belt-Mounted PAPR systems.

–Nose cup must be used for all other 6000DIN facepiece applications.

## **⚠ WARNING**

OSHA Standard 29 CFR 1910.134 requires that employers provide breathing air for supplied air respirator systems which “shall meet at least the requirements of the specification for Grade D breathing air as described in the Compressed Gas Association Commodity Specification ANSI/CGA G-7.1-1997.” Testing of output air from a compressor against this standard is required prior to using with a supplied air respirator. In Canada, breathing air systems must be supplied with air which meets at least the requirements in Table 1 of CSA Standard Z180.1-2000. Failure to do so may result in sickness or death.

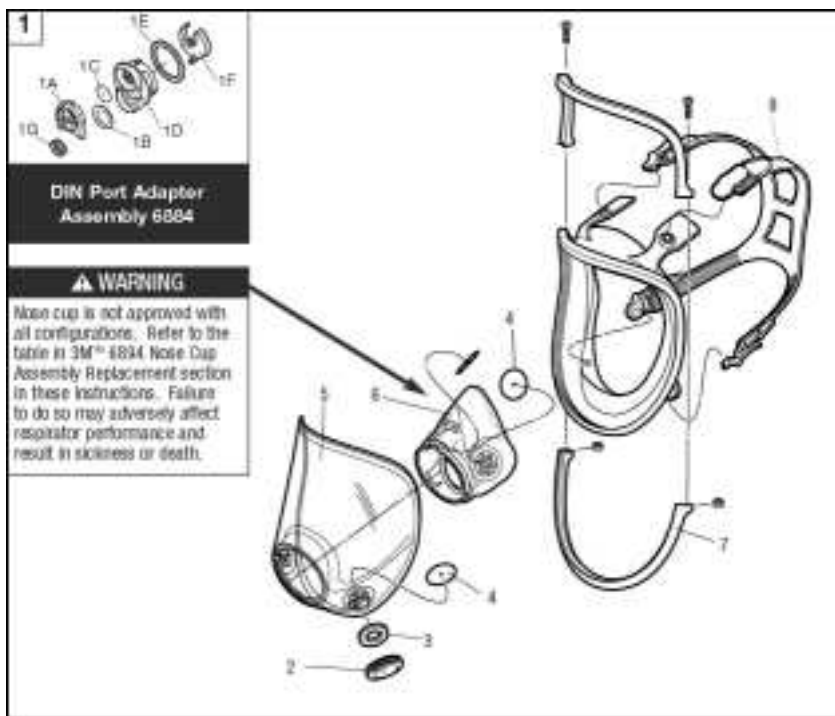
# LIST OF PRODUCTS

## 3M™ 6000 Series Full Facepiece Replacement Parts and Accessories Full Facepiece with DIN Port Adapter (6884)

6700DIN	Small
6800DIN	Medium
6900DIN	Large

### 1 6884 DIN Port Adapter Assembly

1A	6882	DIN Cover	2	6880	Bayonet Cap
1B	6876	Breathing Tube Gasket	3	6895	Inhalation Gasket
1C	6889	Exhalation Valve	4	6893	Inhalation Valve
1D	6883	DIN Port Base	5	6898	Lens Assembly
1E	6896	Center Adapter Gasket	6	6894	Nose Cup Assembly
1F	6881	DIN Air Director	7	6899	Frame Assembly w/Screws
1G	7890	Full Face Plug (Accessory not included w/6884)	8	6897	Head Harness Assembly



## 3M™ Accessories

Number	Product Name
504	Respirator Cleaning Wipes
601	Quantitative Fit Test Adapter
6878	Spectacle Kit
6885	Lens Cover (100 pack)
6886	Tinted Lens Cover (25 pack)
7883	Neck Strap Assembly
7915-5	Tyvek® Shroud
7993	Welder's Shroud

## 3M™ Cartridges

### 3M™ Responder Cartridge and Canister (Front-Mounted)

Number	Product Name	
450-02-11R06	CP3N Canister	Alpha chloroacetophenone (CN), ortho chlorobenzylidene malonitrile (CS); and P100
FR-64	FR-64 Cartridge	Organic vapor, chlorine, hydrogen chloride, chlorine dioxide, sulfur dioxide, ammonia, methylamine, formaldehyde, hydrogen fluoride, hydrogen sulfide (escape only), alpha chloroacetophenone (CN), ortho chlorobenzylidene malonitrile (CS) or phosphine; and P100

**Note:** Important information is provided in the *User Instructions* with 3M™ Responder Cartridges and Canisters, which must be understood by wearer before use.

### 3M™ 6000 Series Filters and Cartridges (Side-Mounted)

Number	Product Name	NIOSH Approval (for respiratory protection against the following contaminants up to fifty times the permissible exposure limit with Quantitative Fit Test)
6001	Organic Vapor	Certain organic vapors
6002	Acid Gas	Chlorine, hydrogen chloride, and sulfur dioxide or chlorine dioxide or hydrogen sulfide (escape only).
6003	Organic Vapor/Acid Gas	Certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide or hydrogen sulfide (escape only) 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 (escape only), 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 (escape only) and particulates
60923	Organic Vapor/Acid Gas/P100	Certain organic vapors, chlorine, hydrogen chloride, and sulfur dioxide or hydrogen sulfide (escape only) 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 (escape only), 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 (escape only) hydrogen fluoride and particulates <sup>1</sup>
60929	Mercury Vapor/Chlorine Gas/P100	Mercury vapor or chlorine gas and particulates

1. 3M recommended for use against methylbromide or radioiodine up to 5 ppm with daily cartridge replacement.

### **Service Life of 3M™ 6000 Series Cartridges**

3M™ 6000 Series Chemical Cartridges should 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 or earlier if smell, taste or irritation from contaminants is detected.



## 3M™ Filters (Side-Mounted), Adapters and Retainers

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

Number	Product Name
501	Filter Retainer for 5N11 and 5P71 Filters
502	Filter Adapter for 2000 Series and 7093 Filters
2071	P95 Particulate Filter
2076HF	P95 Particulate Filter, hydrogen fluoride, with nuisance level acid gas relief <sup>1</sup>
2078	P95 Particulate Filter, 3M recommended for ozone protection <sup>2</sup> , with nuisance level organicvapor/acid gas relief <sup>1</sup>
2091	P100 Particulate Filter
2096	P100 Particulate Filter, with nuisance level acid gas relief <sup>1</sup>
2097	P100 Particulate Filter, 3M recommended for ozone protection <sup>2</sup> , with nuisance level organic vapor relief <sup>1</sup>
5N11	N95 Particulate Filter
5P71	P95 Particulate Filter
7093	P100 Particulate Filter

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 (not NIOSH approved for use against ozone)

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

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.

## ASSEMBLY INSTRUCTIONS

All 3M™ 6000 Series Full Facepieces equipped with the 3M™ 6884 DIN Port Adapter (full facepiece assemblies 6700DIN, 6800DIN and 6900DIN) can be used in any of the following configurations:

### Powered Air Purifying Respirator (PAPR)

- 3M™ GVP Belt-Mounted PAPR
- 3M™ Powerflow™ Face-Mounted PAPR
- 3M™ Breathe Easy™ Belt-Mounted PAPR

### Supplied Air Respirator (SAR)

- 3M™ Dual Airline
- 3M™ Air Control Devices – Continuous Flow (excluding W-3196 Air Regulating Kit and stainless steel options)

### Negative Pressure

- 3M™ Responder FR-64 Cartridge and CP3N Canister (Front-Mounted)
- 3M™ 2000 Series and 7093 Filters and 6000 Series Cartridges (Side-Mounted)

Whenever the air filtration/supply system, including responder canisters or cartridges, are attached to the center DIN port of the 6884 DIN Port Adapter Assembly, the 3M™ 7890 Full Face Plug must be removed from the center port and the two bayonet ports must be closed using 6880 bayonet caps and 6895 Inhalation Port Gaskets.

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

### 3M™ 6000 Series Cartridge (Side-Mounted) 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. 1)
3. Check that a 6876 breathing tube gasket (gray) and 7890 plug have been installed in the center DIN port.



**Fig. 1**

### 3M™ 2000 Series and 7093 Filter (Side Mounted) Assembly

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. 2)
4. Check that a 6876 breathing tube gasket (gray) and 7890 plug has been installed in the center DIN port.



Fig. 2

### Filter Assembly (for 3M™ 5N11 and 5P71 Filters)

1. Place filter into 3M™ 501 Retainer 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. 3)
3. To replace filter, remove retainer by lifting on TAB.

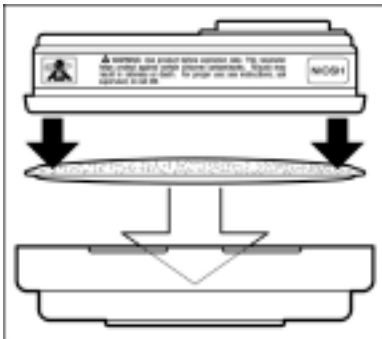


Fig. 3

## 3M™ 502 Adapter Assembly

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. 4)
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. 5) **The 3M 502 adapter should not be removed or reused once engaged. It is not designed for reuse. Removal and reuse may result in leakage.**



Fig. 4

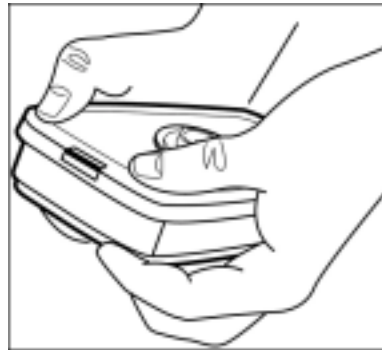


Fig. 5

## 3M™ 2000 Series and 7093 Filters/3M™ 502 Adapter Assembly

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 502 adapter, once installed on a 3M 6000 Series Cartridge, is not to be removed or reused. Removal and reuse may result in leakage.

## 3M™ Supplied Air Systems

### 3M™ Air Control Devices – Continuous Flow

User must follow *User Instructions* provided with approved Air Regulating Valve Assemblies.

### 3M™ Dual Airline Respirator Assembly

User must follow Dual Airline Supplied Air Respirators *User Instructions* provided with the 3M™ Dual Airline Supplied Air Respirators.

### Assembly of 3M™ Combination Dual Airline Respirator with Cartridges and Filters

The 3M™ SA-1600 (front-mounted) and SA-2600 (back-mounted) versions of the 3M dual airline breathing tubes allow use of selected NIOSH approved 3M™ 6000 Series Cartridges and 2000 Series Filters. For the listing of approved cartridges and filters, reference the NIOSH approval label included with 3M dual airline adapter kits.

To assemble 3M™ Dual Airline Combination Breathing Tubes with 3M™ Cartridges/Filters, the facepiece inhalation valves must be removed.

If the facepiece is to be used in air purifying mode (without using the 3M SA-1600 or SA-2600 breathing tubes), the inhalation valves must be replaced in the facepiece before use.

### **Using the 3M™ Combination Dual Airline Breathing Tubes without Cartridges and Filters**

To use the 3M combination dual airline breathing tubes (SA-1600 and SA-2600) without cartridges or filters, attach a 3M™ 6880 Bayonet Cap to each outer bayonet mount on the dual airline breathing tube. When used as a straight, Type C, continuous flow supplied air respirator, the Assigned Protection Factor is 1000 times the PEL or TLV guidelines for full facepiece respirators.

#### **WARNING**

The 3M™ Dual Airline is NIOSH approved only with the 6894 nose cup assembly in place. Failure to do so may result in sickness or death.

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### **3M™ Responder Cartridge and Canister Assembly**

#### **WARNING**

The 3M CP3N canister and FR-64 cartridge are NIOSH approved only with the 6894 nose cup assembly in place. Failure to do so may result in sickness or death.

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#### **WARNING**

Overtightening may cause damage to the DIN Port Adapter housing and/or gasket and allow unfiltered air to enter the facepiece, which may result in sickness or death.

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Important information on proper use and use limitations is provided in the *User Instructions* with the CP3N Canister and FR-64 Cartridge. The two bayonet ports on the lens must be closed using 6880 Bayonet Caps and 6895 Inhalation Port Gaskets. Before installing the canister, check that the 6876 Breathing Tube Gasket is in place and in good condition. Screw the responder canister/cartridge into the DIN Port Adapter and tighten with moderate hand pressure (Fig. 6).

### 3M™ GVP PAPR Assembly

Screw 3M™ GVP-123 breathing tube elbow adapter into the center port of the 6884 adapter assembly. User must follow *User Instructions* provided with the GVP Belt-Mounted Powered Air Purifying Respirator Assembly.

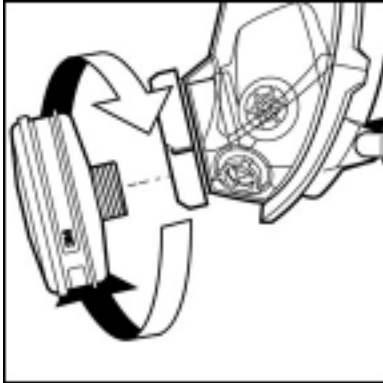


Fig. 6

### 3M™ Breathe Easy™ Turbo PAPR Assembly

Screw the threaded adapter on the 3M™ 520-01-77 Breathing Tube into the center port of the 6884 Din port adapter assembly. User must follow *User Instructions* provided with the Breathe Easy™ Turbo PAPR Assembly.

### 3M™ Powerflow™ PAPR Assembly

User must follow *User Instructions* provided with the Powerflow™ PAPR.

#### ⚠ WARNING

The Powerflow systems are not NIOSH approved for use with a nose cup. Use of a nose cup, may result in sickness or death.



#### ⚠ WARNING

The connection between the Powerflow™ PAPR assembly and the 3M™ 6000DIN Full Facepiece must be checked every time the unit is assembled or swiveled. This check should be performed outside the contaminated environment. Entering the contaminated area while the connection between the PAPR assembly and the facepiece is loose may result in sickness or death.

## FITTING INSTRUCTIONS

**Must be followed each time respirator is worn.**

### Donning and User Seal Check

1. Fully loosen all four head straps, place facepiece on face and pull 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

### Negative Pressure Seal Check

#### 3M™ Powerflow™ PAPR and Responder Canister/Cartridge

1. Place palms of hands over the air inlet of the cartridge/canister.
2. Inhale gently. If you feel the 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 respirator on face and/or readjust tension of straps to eliminate air leakage. **If you cannot achieve a proper seal, DO NOT enter the contaminated area. See your supervisor.**

#### 3M™ GVP and Breathe Easy™ PAPRs

1. Place the palm of the hand over the breathing tube opening (Fig. 9).
2. Inhale gently. If you feel the 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 respirator on face and/or readjust tension of straps to eliminate air leakage. **If you cannot achieve a proper seal, DO NOT enter the contaminated area. See your supervisor.**



**Fig. 10**



**Fig. 11**

### **3M™ 6000 Series Cartridges (Side-Mounted)**

1. Place palms of hands to cover face of cartridge or open area of 3M™ 501 Filter Retainer and 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. (Fig. 10)
2. If faceseal air leakage is detected, reposition respirator on face and/or readjust tension of straps to eliminate leakage. **If you cannot achieve a proper seal, DO NOT enter the contaminated area. See your supervisor.**

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

### **3M™ 2000 Series Filters (Side-Mounted)**

1. Place your thumbs onto the center portion of the filters, restricting airflow through filters and 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. (Fig. 11)
2. If faceseal air leakage is detected, reposition respirator on face and/or readjust tension of straps to eliminate the leakage. **If you cannot achieve a proper seal, DO NOT enter the contaminated area. See your supervisor.**

### **3M™ Dual Airline**

User must follow *User Instructions* for Dual Airline Supplied Air Respirators.

### **3M™ Air Control Devices – Continuous Flow**

User must follow *User Instructions* provided with approved Air Regulating Valve Assemblies.



## Positive Pressure Seal Check

1. Remove breathing tube, Powerflow™ PAPR assembly or cartridge/canister from the center DIN port, as applicable.
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 (Fig. 9).
3. If faceseal air leakage is detected, reposition respirator on face and/or readjust tension of straps to eliminate air leakage **If you cannot achieve a proper seal, DO NOT enter the contaminated area. See your supervisor.**

## FIT TESTING

**Note:** Fit testing is a U.S. Occupational Safety and Health Administration (OSHA) and Canadian CSA Z94.4 standard requirement. Therefore, either quantitative or qualitative fit testing must be conducted prior to the respirator being issued. (Quantitative Fit Testing [QNFT] can be conducted using a 3M™ 601 Fit Test Adapter and 42 CFR 84 P100 filters such as the 3M™ 2091 or 7093 Particulate Filters.)

Qualitative Fit Testing (QLFT) with the 3M™ FT-10 or FT-30 Qualitative Fit Test Apparatus can be conducted using any of the NIOSH approved 42 CFR 84 particulate filters. Use of Qualitative Fit Testing may reduce the respirator's Assigned Protection Factor (APF). Reference U.S. OSHA 29 CFR 1910.134.

**Note:** For further information concerning fit testing contact 3M OH&ESD Technical Service

## INSPECTION, CLEANING, AND STORAGE

The 3M™ 6000 Series Respirator must be inspected before each use to ensure that it is in good operating condition. The facepiece should be repaired or replaced upon observation of damaged or defective parts. The following inspection procedure is suggested.

1. Check facepiece for cracks, tears and dirt. Be certain facepiece, especially faceseal 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. 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 breathing tubes. The center adapter, lens and facesal 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.
6. The cleaned respirator should be stored away from contaminated areas when not in use.

## REPLACEMENT PART INSTRUCTIONS

### 3M™ Facepiece Assemblies for 6700DIN/6800DIN/6900DIN

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

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

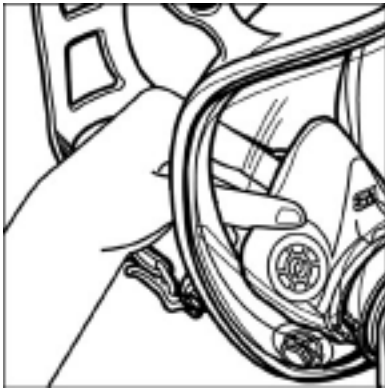
### 3M™ 6884 DIN Port Adapter Assembly Replacement

The DIN port adapter (center adapter) assembly consists of a 3M™ 6883 Din Port Base, 6882 DIN Cover, 6881 DIN Air Director, 6889 Exhalation Valve, 6876 Breathing Tube Gasket and 6896 Center Adapter Gasket. It is secured to the center of the lens with a bayonet-style twist lock connection which compresses the 6896 center adapter gasket. The 6884 DIN port adapter assembly is locked in position by the 6881 DIN air director.

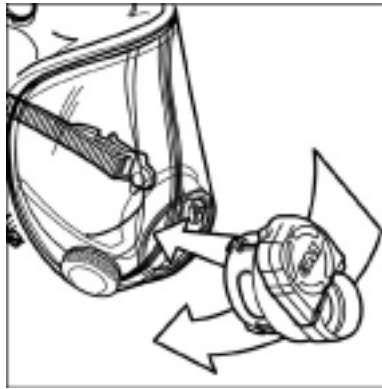
#### To remove the center adapter from the facepiece

1. Remove nose cup assembly (except in 3M™ Powerflow™ Systems) by pulling away from center adapter inside facepiece (Fig. 12).
2. Squeeze the locking tab at the back of the 6881 air director and pull back to disengage from the 6883 DIN port base (Fig. 13).

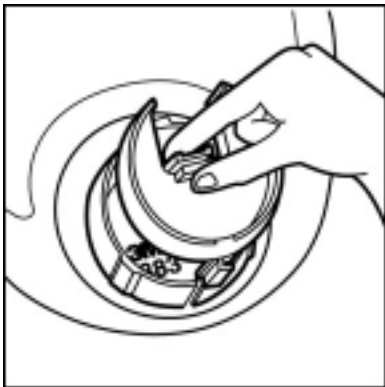
3. Grasp center adapter at cover and twist counter-clockwise 1/4 turn to disengage bayonet from facepiece lens.
4. Withdraw center adapter from lens center port.



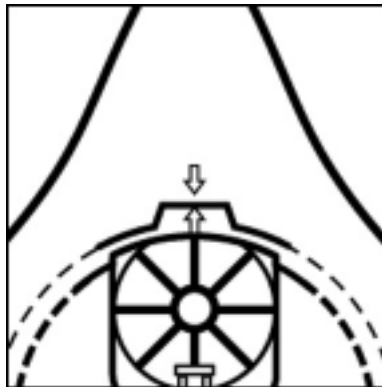
**Fig. 12**



**Fig. 14**



**Fig. 13**



**Figure 15**

**To install the center adapter into the facepiece**

1. Remove the 6881 DIN air director from the 6883 DIN base.
2. Align tabs on center adapter base with notches in center port of facepiece lens.
3. Slide adapter into lens port (Fig. 14).
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 6881 air director with the slot at the bottom of the 6883 DIN port base (Fig. 13). Slide forward and press the center knob until the locking tab clicks into place.
6. Replace nose cup assembly, where applicable. Refer to the table in 3M™ Nose Cup Assembly Replacement section in these instructions.
7. Attach the 3M™ 6880 Bayonet Caps to side inlet ports on the facepiece if using in one of the following 3M configurations: belt-mounted or face-mounted PAPR systems, or the responder cartridge or canister in the negative pressure mode.




## 3M™ 6894 Nose Cup Assembly Replacement

The 6894 nose cup assembly 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. 12).
2. To replace, position nose cup assembly onto center adapter aligning arrows (Fig. 15).

### Nose Cup Requirements

Use of the 3M™ 6894 Nose Cup Assembly with the 3M™ 6000DIN Series Full Facepiece must be in accordance with the following table.

Nose Cup Use Requirements for 3M™ 6000DIN Series Full Facepiece			
3M™ Respirator System	NIOSH Approved Only With Nose Cup	NIOSH Approved Only Without Nose Cup	NIOSH Approved With or Without Nose Cup
Belt-Mounted PAPRs			
Powerflow™ Face-Mounted PAPR			
Supplied Air 6000 Series Cartridges 2000 Series Filters CP3N Canister FR-64 Cartridge Dual Airline			



Failure to use or not use the 3M 6894 nose cup in accordance with the above requirements may adversely affect respirator performance and result in sickness or death.

### 3M™ 6896 Center Adapter Gasket Replacement

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

1. Remove nose cup assembly and center adapter assembly as described in previous DIN Port Adapter and Nose Cup Replacement sections.
2. Remove old 6896 gasket from center adapter and replace with new 6896 gasket.
3. Re-install center adapter and nose cup into facepiece..

### 3M™ 6893 Inhalation Valve Replacement

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. 18).

### 3M™ 6889 Exhalation Valve Replacement

1. Remove center adapter cover by pulling out from bottom 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 6889 over the exhalation port and push or press valve stem into center hole. Be certain the valve is fully seated and spins freely in mount (Fig. 16).
5. Replace adapter cover by engaging top and bottom snaps (latches).

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

### 3M™ 6895 Inhalation Port Gasket Replacement

The 6895 gasket is designed to seal the interface between the bayonet attachment inhalation ports on the facepiece and filters/cartridges, or dual airline breathing tubes installed on the facepieces. 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. 17).

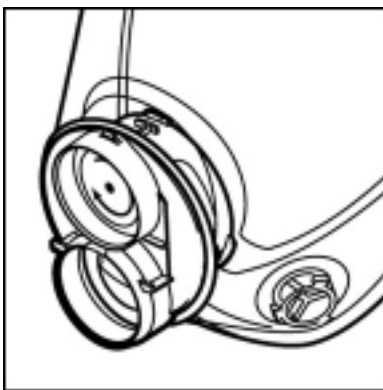


Figure 16

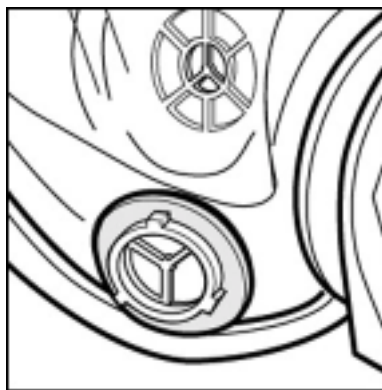


Figure 17



Figure 18

### 3M™ 6897 Head Harness Replacement

The 6897 head harness assembly consists of the head harness and buckles for the 3M 6000 series full facepiece. To replace the head harness assembly:

1. Remove existing harness by pulling attachment buttons out of holes in face seal tabs.
2. Attach new harness by pressing attachment buttons into holes in face seal tabs with twisting motion. Be certain buttons are fully seated. Head harness should be assembled with 2 short straps to top of respirator and 3M and 6897 marking on harness facing away from respirator (Fig. 19).

### 3M™ 6898 Lens Assembly

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

1. Remove nose cup assembly and center adapter assembly as described in previous DIN port adapter and nose cup replacement sections.
2. Remove the (2) Phillips screws from the lens/face seal frame. Pull the frame top and frame bottom away from face seal.
3. Remove face seal from lens.
4. Place new lens and face seal together aligning marks at top and bottom. Position top and bottom frame, again aligning marks top and bottom (Fig. 20). Install and securely tighten screws. Make certain alignment marks are properly aligned top and bottom with all components.
5. Install center adapter assembly.
6. Replace nose cup assembly.

### 3M™ 6899 Frame Kit

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

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. 20).
3. Insert and tighten Phillips head screws. Make certain parts are properly aligned and sealed together.



Fig. 19

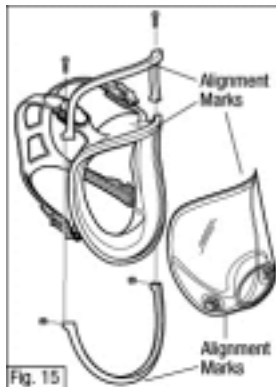


Fig. 20

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fax: (858) 488-6320

**NBC Safety**  
World Leaders in Defense Technology

tel: (858)488-3300

[sales@NBCsafety.com](mailto:sales@NBCsafety.com)

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