FAMB2 Half-Mask Respirator System User Manual

Type C NIOSH Approval
No. TC-19C-469 Continuous-Flow Class

Figure 1

Model FAM2M

> **⚠ WARNING**
>
> Read all instructions and warnings before using this respirator. Save this manual for future use. Failure to follow these warnings could result in death or serious injury.

General Information

Bullard's FAMB2 airline respirator, when properly used, provides a continuous flow of air from a remote air source to the respirator wearer. FAMB2 respirators offer protection from airborne contaminants that are not immediately dangerous to life or health (IDLH), or that do not exceed concentrations allowed by applicable OSHA, EPA, NIOSH or ACGIH regulations and recommendations for continuous-flow class airline half-mask respirators.

FAMB2 airline respirators are approved by NIOSH (TC-19C-xxx Type C, Continuous-Flow Class) to provide respiratory protection in general purpose applications, including spray painting, tank cleaning, chemical and pesticide handling, and other industrial or agricultural applications. The FAMB2 respirator is NOT to be used in confined spaces or IDLH conditions.

FAMB2 respirators are compatible with breathing air sources such as breathing air compressors or Bullard Free-Air® Pumps. Bullard offers the appropriate approved breathing tube assembly and air supply hose to connect the FAMB2 respirator to these breathing air sources.

FAMB2 facepieces are available in three sizes.

The new FAMB2 masks feature the Bullard logo on the bridge of the nose and are designed with a headband assembly that has four points of attachment; two on each side of the face. The three sizes of replacement masks for this style are FAM2S (small), FAM2M (medium), and FAM2L (large). Fit test kit FAMAK is available for fit-testing the FAM2S, FAM2M and FAM2L masks.

Contact Bullard or a local authorized distributor for more information about FAMB2 respirators.

Table of Contents

Component Concept

The FAMB2 airline respirator consists of three Bullard components: half-mask, breathing tube assembly and air supply hose. All must be present and properly assembled to constitute a complete NIOSH-approved respirator (see Figure 2).

1. Half-mask with cradle headband and elastic straps
2. Breathing Tube Assembly
3. Air Supply Hose

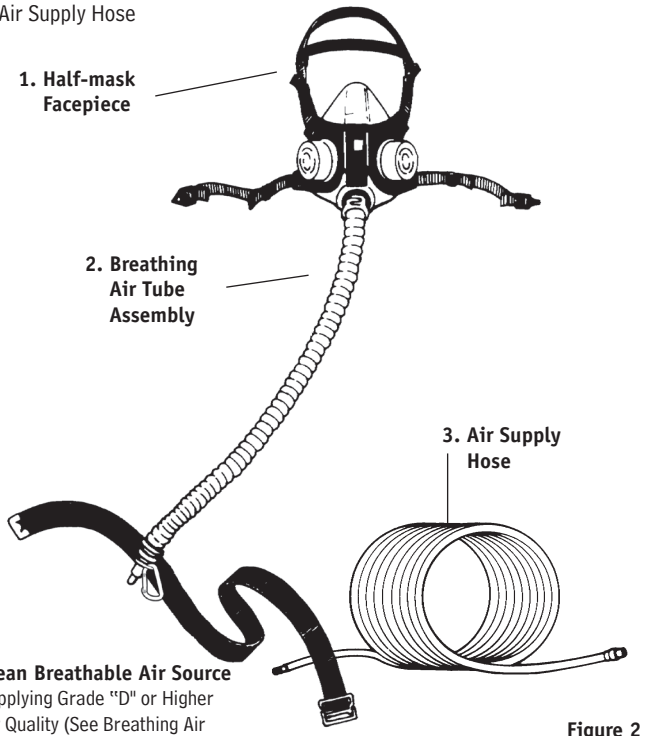


Figure 2

⚠ WARNING

Failure to use complete NIOSH approved Bullard components and replacement parts voids approval of entire assembly. Basic parts are listed on the NIOSH Approval Label on Page 8.

Mask/Fitting Assemblies

Half-Mask Respirator with Breathing Tube Assembly:

Comfortable silicone half-mask with breathing tube that connects the mask to air supply hose.

For use with breathing air compressors/continuous-flow	For use with ambient air pumps/continuous flow
Model FAMB230	Model FAMB235

Air Supply Hose Options

Connects breathing tube to air source supplying clean breathable air.

For use with breathing air compressors/continuous-flow	For use with ambient air pumps/continuous flow
V10 – 3/8" I.D. Hose 4696 Starter Hose 545 Series Extension Hose Extension hose available in 25, 50 and 100 foot lengths with a variety of quick-disconnect fitting styles and materials. See parts list for details.	**V20 – 1/2" I.D. Hose** V20 Starter/ Extension Hose Available in 50 and 100 foot lengths with a variety of quick-disconnect fitting styles and materials. See parts list for details.

⚠ WARNING

1. This respirator, when properly fitted and used, significantly reduces, but does not completely eliminate, the breathing of contaminants by the respirator wearer. You may obtain better respiratory protection from other types of respiratory protection equipment such as a valve operated, pressure-demand airline respirator or a pressure-demand, self-contained breathing apparatus respirator.
2. Before using this respirator, be sure your employer has determined that airborne contaminant concentrations do not exceed those allowed by applicable OSHA, EPA, NIOSH or ACGIH regulations and recommendations for continuous-flow airline half-mask respirators. Federal law requires that your employer measure and monitor airborne contaminant levels in the work area.
3. Improper respirator use may damage your health and/or cause your death. Improper use may also cause certain life-threatening delayed lung diseases such as silicosis, pneumoconiosis or asbestosis.
4. DO NOT wear this respirator if any of the following conditions exist:
   - Atmosphere is immediately dangerous to your life or health (IDLH).
   - You CANNOT escape without the aid of the respirator.
   - Atmosphere contains less than 19.5% oxygen.
   - Work area is poorly ventilated.
   - Unknown contaminants are present.
   - Contaminants are in excess of regulations or recommendations (as described in item 2 above).
5. Bullard recommends that you DO NOT wear this respirator until you have passed a complete physical exam (perhaps including a lung x-ray) conducted by qualified medical personnel, and have been trained in the respirator's use, maintenance and limitations by a qualified individual (appointed by your employer) who has extensive knowledge of the Bullard FAMB2 respirator.
6. DO NOT modify or alter this respirator in any manner. Use only NIOSH-approved Bullard FAMB2 components and replacement parts manufactured by Bullard for use with this respirator. Failure to use NIOSH-approved components and replacement parts such as hoses and flow-control devices, voids NIOSH approval of the entire respirator, invalidates all Bullard warranties and may cause death, lung disease or exposure to other hazardous or life-threatening conditions.
7. Inspect all components of this respirator system daily for sign of wear, tear or damage that might reduce the degree of protection originally provided. Immediately replace worn or damaged components with NIOSH-approved Bullard FAMB2 components or remove respirator from service. (See INSPECTION, CLEANING AND STORAGE section for proper maintenance of the FAMB2 respirator.)
8. Be certain your employer has determined that the breathing air source provides at least Grade D breathable air. This respirator must be supplied with clean breathable air at all times.
9. DO NOT connect the respirator's air supply hose to nitrogen, toxic gases, inert gases or other unbreathable, non-Grade D air sources. Check the air source before using the respirator. Failure to connect to the proper air source may result in serious injury or your death.
10. DO NOT use this respirator in poorly ventilated areas or confined spaces such as tanks, small rooms, tunnels or vessels, unless the confined space is well ventilated and contaminant concentrations are below the upper limit recommended for this respirator. In addition, follow all procedures for confined space entry, operation and exit as defined in applicable regulations and standards, including 29 CFR 1910.146.
11. If you have any questions concerning the use of this respirator, or if you are not sure whether the atmosphere you are working in is immediately dangerous to your life or health (IDLH), ask your employer. All instructions for the use and care of this product must be supplied to you by your employer as recommended by the manufacturer and as required by Federal Law (29 CFR 1910.134).
12. DO NOT use this respirator for abrasive blasting or underwater diving.

For technical assistance, call or write:

E.D. Bullard Company
1898 Safety Way
Cynthiana, KY 41031-9303
Toll free: 877-BULLARD (285-5273)
Tel: 859-234-6616
Fax: 859-234-8987
www.bullard.com

Cautions and Limitations

A - Not for use in atmosphere 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.
J - Failure to properly use and maintain this product could result in injury or death.
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 specified by the manufacturer.
O - Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
S - Special or critical User's Instruction and / or specific use limitations apply. Refer to User's Instructions before donning.

Operations

Protection

Respiratory

This respirator is NIOSH approved (TC-19C-xxx, continuous-flow class) for Type C applications. It can be worn for general purpose applications, including spray painting, tank cleaning, chemical and pesticide handling; and other industrial or agricultural applications.

This respirator is not approved for use in any atmosphere immediately dangerous to life or health (IDLH), or from which the wearer cannot escape without the aid of the respirator. This respirator is not approved for abrasive blasting.

Head

FAMB2 respirators DO NOT provide head protection. Wear approved head protection if head protection is required.

Face

FAMB2 respirators DO NOT provide face protection. Wear approved face protection if it is required.

Eyes

FAMB2 respirators DO NOT provide eye protection. Wear approved safety glasses or goggles at all times.

Ears

FAMB2 respirators DO NOT provide hearing protection. Use properly fitted earmuffs, earplugs or other protection when exposed to high noise levels.

Breathing Air Requirements

Air Quality

⚠ WARNING

This respirator must be supplied with clean, breathable air, Grade D or better, at all times. This respirator does not purify or filter out contaminants.

Respirable, breathable air must be supplied to the point-of-attachment of the approved Bullard air supply hose. The point-of-attachment is the point at which the air supply hose connects to the air source. A pressure gauge attached to the air source is used to monitor the pressure of air provided to the respirator wearer (See Figure 2). Supplied breathing air must AT LEAST meet the requirements for Type 1 gaseous air described in the Compressed Gas Association Commodity Specifications F-7.1 (Grade D or higher quality), as specified by Federal Law 30 CFR, Part II, Subpart J, 11.121(b).

The requirements for Grade D breathable air include:
-Oxygen 19.5-23.5%
-Hydrocarbons (condensed) in mg/m3 of gas..... 5 mg/m3 max.
-Carbon monoxide..... 10 ppm max.
-Carbon dioxide..... 1,000 ppm max.
-Odor ..... no detectable odor

-No toxic contaminants at levels that make air unsafe to breathe.
Contact the Compressed Gas Association (1235 Jefferson Davis Highway, Arlington, VA 22202) for complete details on commodity Specifications G-7.1

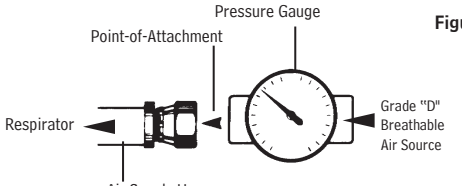


Figure 3

Air Source

Locate the source of supplied air, whether it is a breathing air compressor or an ambient air pump, in a clean air environment. Locate the air source far enough from your work site to ensure the air remains contaminant-free. Always use an inlet filter on your air source. Use suitable after-cooler/dryers with filters, and carbon monoxide monitors and alarms as necessary to assure clean, breathable air at all times. The air should be regularly sampled to be sure that it meets Grade D requirements.

Breathing Air Pressure

Air pressure must be continually monitored at the point-of-attachment while operating this respirator. A reliable air pressure gauge must be present to permit you to continually monitor the pressure during actual respirator operation.

⚠ WARNING

Failure to supply the minimum required pressure at the point-of-attachemnt for your hose length and type will reduce airflow and may expose you to life-threatening conditions, diseases, or death.

The Breathing Air Pressure Tables for the FAMB2 respirator (See page 10) define the air pressure ranges necessary to provide the respirator with a volume of air that falls within the required range of 4-15 cfm, and meets continuous-flow class requirements (Ref. 30 CFR, Part II, Subpart J, 11.124.7). Make sure you understand the information in the Breathing Air Pressure Table before using this respirator.

1. Determine the type of air source you are using (column 1), then find your breathing tube assembly (column 2).
2. Be sure your Bullard air supply hose(s) (column 3) is approved for use with your breathing tube assembly.
3. Determine that your Bullard air supply hose is within the approved length (column 4).
4. Make sure you have not exceeded the maximum number of hose sections (column 5).
5. Set air pressure at the point-of-attachment within the required pressure range (column 6) for your breathing tube assembly and air supply hose type and length. Accurate pressure readings can only be attained when air is flowing into the respirator.

Breathing Air Supply Hoses and Hose Fittings

NIOSH-approved Bullard air supply hose(s) MUST be used between the breathing tube connection fitting on the wearer's belt and the point-of-attachment to the air supply (See Figure 1). NIOSH-approved Bullard quick-disconnect fittings MUST be used to connect V20 hose lengths together. When connecting lengths of V10 hose, only use Bullard V11 hose-to-hose adaptors. Secure connection(s) until wrench-tight and leak-free.

Total connected hose length and number of hoses MUST be within the ranges specified on the Breathing Air Pressure Table (See page 5) and the respirator's NIOSH approval labels (See pages 8 and 9). The breathing tube connection fitting MUST be secured to the belt that is supplied with this respirator. Securing the air entry connection fitting helps prevent the air supply hose from snagging, disconnecting or pulling the respirator off your face.

Breathing Air Pressure Table

Model FAMB2 (Continuous-Flow Class)

This table defines the air pressure ranges necessary to provide FAMB2 Series respirators with a volume of air that falls within the required range of 4-15 cfm according to U.S. Government regulations (Ref. CFR Title 30, Part II, Subpart J, 11.124.7).

1	2	3	4	5	6
Air Source	**Breathing Tube Assembly**	**Air Supply Hose**	**Air Supply Hose Length (feet)**	**Maximum Number of Hose Sections**	**Required Pressure Range (psig air)**
Stationary or Portable Air Compressor	FAMB2T3C	V10	25	1	16-24
			50	2	21-27
			100	3	27-34
			150	3	30-40
			200	4	34-42
			250	5	36-46
			300	5	36-52
Bullard Free-Air® Pumps	FAMB2T2C	V20	50	1	3-6
			100	2	5-8
			150	2	6-12
			200	3	7-14
			250	3	7-16
			300	3	8-20

FAMB2 Respirator Assembly

Donning

1. Remove the FAMB2 respirator from the plastic shipping bag. Thread breathing tube onto FAMB2 mask port. Lace the belt through the metal slide that is attached at the quick-disconnect fitting at the end of the breathing tube. Do not wear this respirator without the belt.
2. Connect the NIOSH-approved Bullard air supply hose to the air source supplying Grade D breathable air. Clear the air supply hose by moving air through it for a few minutes before connecting it to the quick-disconnect fitting at the end of the air entry hose.

Mask

3. Loosen the mask's elastic straps. Grasp the front of the facepiece with one hand and the upper plastic strap (cradle suspension) with the other hand. Position the respirator on your face so that the inside portion of the facepiece (containing the exhalation valve) is under your chin and the narrow portion of the facepiece is over your nose.
4. Place the plastic headband straps (cradle suspension) on your head so the top plastic strap rests across the top of your head and the bottom plastic strap rests above your ears on the back of your head. Then hook the bottom elastic headband straps behind your neck and below your ears.
5. Adjust the position of the facepiece on your face for a comfortable fit. If the elastic straps are too tight, remove the respirator from your face and loosen the straps. The length of the elastic straps is adjustable.

   Slide the strap through the slot of the headband yoke to lengthen it. Do this on the four slots of the headband yoke as necessary. Replace the respirator on your face according to Steps 3 and 4.
6. Hold the respirator body with one hand. With your other hand, tighten the upper elastic straps on both sides by pulling in an upward direction away from the facepiece. Tighten just enough so the respirator is securely in place on the nose. CAUTION: DO NOT OVER-TIGHTEN! Tighten only to eliminate leakage. Over-tightening distorts the mask and may cause leakage.

   For a comfortable fit, the headband straps must be adjusted equally on both sides of the respirator. Tighten the bottom elastic straps by pulling in the appropriate direction. Tighten enough to secure the respirator under the chin.
7. To secure the elastic headband straps in place while wearing the respirator, slide the small headband slides in an upward direction. There is one headband slide on each side.
8. Perform a negative pressure fit check:

   A) With mask on and secured, place the palm of your hand over the quick-disconnect nipple located at the end of the breathing tube.

   B) Inhale until the mask collapses inward slightly (indicating there is negative pressure). Hold your breath for five seconds.

   C) The mask is deemed to be in proper position if it remained collapsed while the breath was being held and no inward leakage of outside air is detected.

   D) If mask doesn't collapse or if an inward leak is detected, re-adjust mask on face and repeat above steps until the test is passed.

⚠ WARNING

If you cannot attain proper fit, try another mask size and go through the same steps outlined above. if a proper fit is still not achieved, do not use this respirator.

9. Fasten the belt at your waist or hip level, and adjust for comfort.
10. With the air flowing, connect the quick-disconnect fitting on the respirator's air entry hose to the quick-disconnect coupler on the air supply hose. Once fitting is secured, release coupling sleeve to lock fitting together. Pull on both hoses to make sure they are attached securely.
11. Adjust the air pressure at the "point-of-attachment" to within the approved pressure range. See the Breathing Air Pressure Table on page 5 for the approved pressure range.
12. With the air flowing into your respirator, you are now ready to enter the work area.

Doffing

1. When finished working, leave the work area wearing the respirator and with the air still flowing.
2. Once completely outside the contaminated area, remove the respirator, and disconnect the air supply hose using the quick-disconnect coupling.

NOTE:
If using V20 Series (1/2" I.D.) air supply hose, the quick-disconnect coupler does not have a shut off valve. Therefore, the air will continue to flow freely after it has been disconnected from the respirator.

⚠ WARNING

LEAVE WORK AREA IMMEDIATELY IF:

- Any respirator component becomes damaged.
- Airflow into respirator mask stops or slows down.
- Air pressure gauge drops below the minimum specified in Breathing Air Pressure Table (page 5).
- Breathing becomes difficult.
- You become dizzy, nauseous, too hot, too cold or ill.
- You taste, smell or see contaminants inside respirator mask.
- Your vision becomes impaired.

⚠ WARNING

DO NOT leave respirator in work area or leave it unattended in a contaminated environment. Respirable contaminants can remain suspend in air for more than one hour after work activity ceases, even though you may not see them. Proper work practice requires you to wear the respirator until you are outside the contaminated area. If you set the respirator down in a contaminated environment, contaminants, dirt and dust could get into the respirator. When you put the respirator back on, your could breath in contaminants.

Inspection, Cleaning and Storage

This respirator and all of its components, parts and assemblies should be inspected for damage or excessive wear before and after each use to ensure proper functioning. Immediately remove the respirator from service and replace parts or assemblies that show any sign of failure or excessive wear that might reduce the degree of protection.

Use only complete NIOSH-approved Bullard FAMB2 components and replacement parts on this respirator. Refer to the parts list for correct part numbers.

The respirator should be cleaned, inspected and sanitized at least weekly or more often if subjected to heavy use. Respirators used by more than one person must be cleaned, inspected and sanitized after each use. If not cleaned, contamination may cause illness or disease.

NOTE:

REMEMBER, THE AIR YOU BREATHE WILL NOT BE CLEAN UNLESS THE RESPIRATOR YOU WEAR IS CLEAN.

Mask

Immerse the facepiece in warm water (about 120 degrees F) with mild detergent or a germicidal disinfecting detergent. The respirator body and parts may be scrubbed gently with a cloth or soft brush. All foreign matter must be removed carefully from all surfaces of the exhalation valve flaps and seats.

Wipe any areas still showing accumulations of foreign matter with a cloth moistened in a detergent or a solvent such as mineral spirits or naphtha, until clean.

More stubborn accumulations of paints, lacquers or enamels may be removed with a cloth containing a paint, enamel or lacquer stripping agent. Once the dirt or paint is loosened, it may be gently rubbed or brushed off.

⚠ WARNING

DO NOT use volatile solvents for cleaning this respirator or any parts and assembles. strong cleaning and disinfecting agents, and many solvents, can damage the silicone rubber and plastic parts. DO NOT leave solvents and strong cleaning and sanitizing agents in contact with silicone rubber or plastic surfaces any longer than necessary to loosen the accumulations of dirt or contaminants.

Rinse the respirator in clean, warm water (about 120 degrees F). Shake to remove excess water, and allow to air-dry away from direct heat, sunlight or contaminants.

Breathing Tube

Inspection

Inspect the breathing tube for tears, cracks, holes or excessive wear that might reduce the degree of protection originally provided. Be sure the quick-disconnect fitting is screwed tightly into the breathing tube so no air can escape.

If any signs of excessive wear are present, replace the breathing tube assembly immediately or remove the respirator from service.

Cleaning

To clean the breathing tube assembly, hand-sponge with warm water and mild detergent, rinse and air-dry. Do not get water inside the breathing tube. After cleaning, once again carefully inspect breathing tube for signs of damage.

Air Supply Hose

Inspection

The hose(s) should be inspected closely for abrasions, corrosion, cuts, cracks and blistering. Make sure the hose fittings are crimped tightly to the hose so that air cannot escape. Make sure the hose has not been kinked or crushed by any equipment that may have rolled over it.

If any of the above signs are present or any other signs of excessive wear are detected, replace the air supply hose(s) immediately or remove the respirator from service.

Cleaning

The air supply hose(s) should be hand-sponged with warm water and mild detergent, rinsed and air-dried. Do not get water inside the air supply hose. After cleaning, once again carefully inspect air supply hose(s) for signs of damage.

⚠ WARNING

Only use hoses that are NIOSH approved for use with this respirator. Other hoses could reduce airflow and protection, and expose the wearer to life-threatening conditions.

Failure to observe these warnings could result in death or serious injury.

Storage

After reusable respirator components have been cleaned, dried compeletely and inspected, place them in a plastic bag or an airtight container. Store the respirator and parts where they will be protected from contamination, distortion and damage from elements such as dust, direct sunlight, heat, extreme cold, excessive moisture and harmful chemicals. Store the respirator so it is protected from distortion from the weight or pressure of surrounding objects.

FAMB2 Continuous Flow Approval Label

FAMB2 RESPIRATOR SYSTEM
TYPE C CONTINUOUS FLOW SUPPLIED-AIR RESPIRATOR

This respirator is approved only in the following configurations:

Bullard
Cynthiana, KY 41031 USA
1-800-827-0423

TC-	PROTECTION[1]	MODEL	HALF MASK			BREATHING TUBE		AIR HOSE																				CAUTIONS AND LIMITATIONS
		FAMB2	FAM2L	FAM2M	FAM2S	FAMB2T2C	FAMB2T3C	46919	46918	46928FF	46917FM	46917FF	46917	46916FF	46916FS	46915	46913	4696	469650	4696100	V2050STSHUTOFF	V2025STSHUTOFF	V2025ST	V2050ST	V20100STSHUTOFF	5457	5458	5454	
19C-469	SA/CF	FAMB2	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	ABCDEJMNOS

[1] PROTECTION

CF=CONTINUOUS FLOW SA=SUPPLIED - AIR

[2] CAUTIONS AND LIMITATIONS

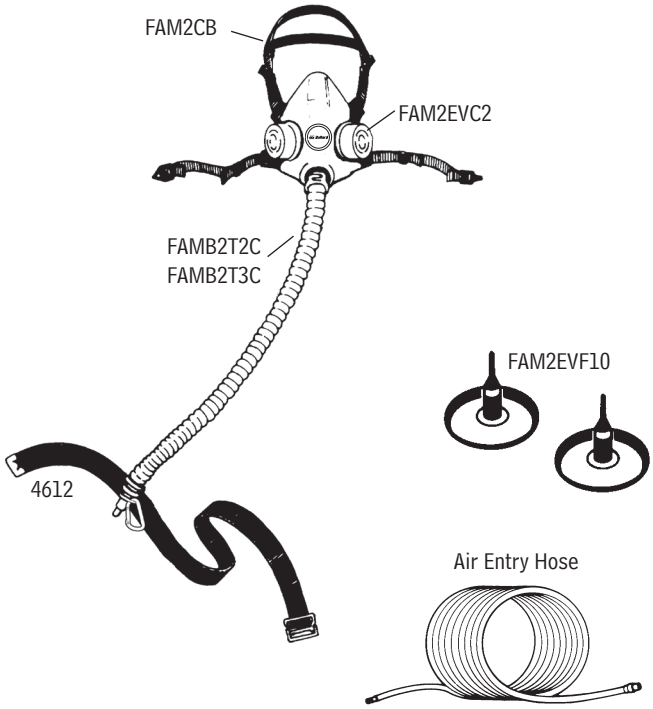
A - Not for use in atmosphere containing less than 19.5 percent oxygen.
B - Not for use in atmospheres immediately dangerous to life or health.
C - Do not exceed maximum use concentrations established by regulatory standards.
D - Air-line respirators can be used only when the respirators are supplied 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.
J - Failure to properly use and maintain this product could result in injury or death.
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 specified by the manufacturer.
O - Refer to User's Instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
S - Special or critical User's Instruction and / or specific use limitations apply. Refer to User's Instructions before donning.

Parts and Accessories

CATALOG NUMBER	DESCRIPTION
Respirator Assemblies	
Includes silicone facepiece, cradle suspension, breathing tube with fitting and belt.	
For use with breathing air compressors or breathing air cylinders	
FAMB230S	Small facepiece with constant-flow valve and 1/4" Industrial Interchange fitting, low profile breathing tube connector
FAMB230M	Medium facepiece with constant-flow valve and 1/4" Industrial Interchange fitting, low profile breathing tube connector
FAMB230L	Large facepiece with constant-flow valve and 1/4" Industrial Interchange fitting, low profile breathing tube connector
For use with Bullard Free-Air pumps	
FAMB235S	Small facepiece with constant-flow valve and 1/2" Industrial Interchange fitting, low profile breathing tube connector
FAMB235M	Medium facepiece with constant-flow valve and 1/2" Industrial Interchange fitting, low profile breathing tube connector
FAMB235L	Large facepiece with constant-flow valve and 1/2" Industrial Interchange fitting, low profile breathing tube connector
Breathing Tube Assemblies	
For use with breathing air compressors or breathing air cylinders	
FAMB2T3C	Breathing tube assembly with 1/4" Industrial Interchange fitting, low profile breathing tube connector
For use with Bullard Free-Air pumps	
FAMB2T2C	Breathing tube assembly with 1/2" Industrial Interchange fitting, low profile breathing tube connector
Breathing Air Supply Hoses	
For use with breathing air compressors or breathing air cylinders	
V10 Series Starter Hose Kit	
Includes V1025ST hose with 1/4" Industrial Interchange quick-disconnect coupler and V13 adaptor fitting (3/8" hose to 3/8" pipe).	
4696	25 ft. Industrial Interchange starter hose kit.
V10 Series Extension Hose Kits	
Includes V11 hose-to-hose adaptor fitting and V13 hose-to-pipe fitting (3/8" hose to 3/8" pipe).	
5454	25 ft. V1025EXT extension hose kit
5457	50 ft. V1050EXT extension hose kit
5458	100 ft. V10100EXT extension hose kit
For use with Bullard Free-Air pumps	
V20 Series Starter/Extension Hose Kits	
Includes 1/2" Industrial Interchange male/female quick-disconnect fitting.	
V2050ST	50 ft. 1/2" extension hose with 1/2" Industrial Interchange coupler and nipple.
V20100ST	100 ft. 1/2" extension hose with 1/2" Industrial Interchange coupler and nipple.

CATALOG NUMBER	DESCRIPTION
Accessories and Kits	
Accessories and Replacement Parts	
FAM2S	Silicone facepiece and cradle suspension, Small, with threaded breathing tube connector for FAMB2 style half mask
FAM2M	Silicone facepiece and cradle suspension, Medium, with threaded breathing tube connector for FAMB2 style half mask
FAM2L	Silicone facepiece and cradle suspension, Large, with threaded breathing tube connector for FAMB2 style half mask
FAM2CB	Cradle suspension for FAMB2 style half mask
FAM2EVC	Exhalation valve covers (2/pkg) for FAMB2 style facepiece
FAM2EVF10	Exhalation valve flaps (10/pkg) for FAMB2 style facepiece
4612	Belt, nylon webbing
S18052	Breathing tube clamp (10/pkg)
Fit Testing Accessories for FAMB2 Masks	
FAMAK	Fit test kit for FAMB2 respirator systems, includes porta count connector, sample tubing and one (1) P100 filter
PMFC2	P100 filter cartridges for fit testing, 1 per package

Parts and Accessories for FAMB2 Respirators



Return Authorization

IMPORTANT: THE FOLLOWING STEPS MUST BE COMPLETED BEFORE E. D. BULLARD COMPANY WILL ACCEPT ANY RETURNED GOODS. PLEASE READ CAREFULLY.

Follow the steps outlined below to return goods to E. D. Bullard Company for repair or replacement under warranty or for paid repairs:

1. Contact Bullard Customer Service by telephone or in writing at:

   E.D. Bullard Company
   1898 Safety Way
   Cynthiana, KY 41031-9303
   Toll free: 877-BULLARD (285-5273)
   Tel: 859-234-6616
   Fax: 859-234-8987
   www.bullard.com

   In your correspondence or conversation with a Customer Service Representative (CSR), describe the problem as completely as possible. For your convenience, your CSR will try to help you correct the problem over the telephone.

2. Verify with the CSR that the product should be returned to Bullard. Customer Service will provide you with written permission and a return authorization number.
3. Before returning the product, decontaminate and clean it to remove any hazardous materials which may have settled on the product during use. Laws and/or shipping regulations prohibit the shipment of hazardous or contaminated materials. Products suspected of contamination will be professionally discarded at the customer's expense.
4. Ship returned products, including those under warranty, with all transportation charges prepaid. Bullard cannot accept returned goods on a freight-collect basis.
5. Returned products will be inspected upon receipt. Your CSR will telephone you with a quote for required repair work which is not covered by warranty. If the cost of repairs exceeds stated quote by more than 20%, your CSR will call you for authorization to complete repairs. After repairs are completed and the goods have been returned to you, Bullard will invoice you for actual work performed.

FAMB2 Half-Mask
Respirator System User Manual

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