

Dual-Purpose Operation

part no.
812958

Using the ExtendAire™ Adapter Hose Kit with the Air Mask converted with the ExtendAire™ Intermediate Pressure Accessory Kit

INSTRUCTIONS FOR USE AND MAINTENANCE

After proper installation of the Air Mask Intermediate Pressure Accessory Kit, the converted air mask becomes a combination type apparatus. First, it is a self-contained breathing apparatus for either 30 or 60 minute service. Second, it is a supplied-air respirator utilizing a supply of air from a stationary cylinder or compressor.

This apparatus is approved by the National Institute for Occupational Safety and Health (NIOSH). It is approved for use as a one-half hour/one hour pressure demand self-contained breathing apparatus for entry into and escape from oxygen deficient atmospheres, gases, and vapors. It is also approved for use as a combination apparatus for respiratory protection during entry into and escape from oxygen deficient atmospheres, gases, and vapors when not more than 20 percent of the rated capacity of the cylinder is used during entry. When used as a combination apparatus, the device shall be supplied with respirable air through 8 to 300 feet of MSA air supply hose within the pressure range of 85-90psig.

GENERAL INFORMATION

An air mask which has been converted with an Intermediate Pressure Accessory Kit includes a new intermediate pressure hose assembly. In the middle of the hose is an aluminum manifold tee with a black Snap-Tite® quick-disconnect plug. An airline hose can be connected to this plug by using an Adapter Hose Assembly.

The Adapter Hose Assembly is approximately 20 inches long. It has a different quick-disconnect on each end.

1. A Snap-Tite coupler on one end. This connects to the manifold tee on the air mask intermediate pressure hose.
2. A Foster quick-disconnect plug on the other end. This connects to an airline with suitable Foster couplers.
3. A Hansen quick-disconnect plug on the other end. This connects to an airline with suitable Hansen couples.

The Foster quick-disconnect has two significant features.

1. It is single action to connect. The coupler is pushed firmly over the plug to engage.
2. It is a non-locking type. The coupler sleeve is rotated approximately 1/8 of a turn to disengage.

The Hansen quick-disconnect has two significant features.

1. To engage: Slide the outer sleeve on the coupler end back and hold sleeve. Push coupler firmly over the Hansen plug and release sleeve to engage coupler.
2. To disengage: Slide the outer sleeve on the coupler end back (away from the plug). The disconnect will be ready to separate, remove the coupler.

The Snap-Tite quick-disconnect has two significant features.

1. It is single action to connect. The coupler is pushed firmly over the plug to engage.
2. It is a locking type that requires two actions to disconnect. Push the two sides of the quick-disconnect towards each other firmly. (The plug should advance into the coupler end approximately 1/8".) Now, slide the coupler outer sleeve away from the plug. Pull the plug out of the coupler.

⚠ WARNING

DO NOT install or attempt to use any hose assembly or fitting other than those supplied by MSA for the ExtendAire system. Failure to follow this warning can result in serious personal injury or death.

PREPARATION FOR USE

The consecutive steps described in the Air Mask User's Maintenance Manual, in addition to the steps described below, must be followed in donning the apparatus before entering a toxic atmosphere.

1. Make sure the airline source is Quality Verification Grade D breathable air with an inlet pressure between 85-90 psig. Air supply hose must be between 8-300 ft. in length and must be from MSA. A maximum of twelve sections of air supply hose may be used.
2. Don the apparatus as described in the Operation and Instructions Manual and the Intermediate Pressure Accessory Kit Installation Instructions.
3. Breathe normally.



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AIRLINE MODE

▲ WARNING

The cylinder valve on the back mounted cylinder must be closed and remain closed during use in the airline mode. Failure to do so can result in depletion of the cylinder air. Failure to follow this warning can result in serious personal injury or death.

1. Remove the dust cap from the quick-disconnect plug on the intermediate pressure hose manifold.
2. Attach the adapter hose. Locate the end with the Snap-Tite coupler. Push the Snap-Tite coupler onto the MMR intermediate pressure hose manifold tee. Pull on the coupling to ensure that it has locked in place.
3. Clip the other end of the adapter hose to the belt loop using the “dog-clip.”
4. Turn on the primary air source for use with the airline.
5. Remove the attached dust cap.
6. Push the coupling on the airline hose firmly over the plug on the adapter hose. Pull on the coupling to ensure that it has locked into place.
7. Close the cylinder valve.

▲ CAUTION

NIOSH/MSHA limitations for this device require that not more than 20 percent of the cylinder air be used during entry before connecting to the airline.

CYLINDER MODE

To switch from the airline mode back to the cylinder mode the following disengagement procedure must be followed.

1. Open the cylinder valve and air from the SCBA cylinder will be delivered to the user.
2. Disconnect the airline from the adapter hose using the quick-disconnect fitting.
3. Replace the dust cover.

EMERGENCY OPERATION

If the airline supply should fail for any reason as detected by interrupted breathing, perform the following:

1. Open the cylinder valve.
2. Disconnect the airline quick-disconnect fitting from the adapter hose.

3. Replace the dust cover.
4. If air is still not delivered to the facepiece, the second stage bypass should be activated.

AIR SUPPLY

1. Air hose. Any one or combination of hoses ranging from 8-300 feet may be used. A maximum of 12 sections of hose can be used to make up the maximum working length of hose. The adapter hose is considered one section of hose. (P/N 812858 Foster, P/N 815575 Foster SS, or P/N 10039825 Hansen SS)

Note: See air hose connection instructions P/N 995602 for airline hose and connections. Hose sections vary from 8 ft. to 100 ft. lengths. Airline connection to the apparatus is to be made through an MSA P/N 467044 quick-disconnect only.

2. Air pressure must be supplied to the inlet end of the air hose under a pressure between 85-90 psig.
3. The purity of the air supply is the responsibility of the user. The respirator is approved only when air supplied meets the requirements of the Compressed Gas Association Specification G-7.1 for Quality Verification Level (Grade) D. This requires that the air contain no more than 10 parts per million (ppm) carbon monoxide, not more than 1000 parts per million (ppm) carbon dioxide, and not more than 5 milligrams per cubic meter of condensed hydrocarbons.

AFTER USE

Follow the steps outlined in the Air Mask Operation and Instructions Manual for proper removal and storage of apparatus. To disconnect the adapter hose using the Snap-Tite quick-disconnect, follow the steps described below.

1. Push the two sides of the quick-disconnect towards each other firmly. (The plug end should advance into the coupler end approximately 1/8 inch).
2. Slide the outer sleeve on the coupler end back (away from the plug) and the quick-disconnect will be ready to separate.
3. Pull the plug out of the coupler.