

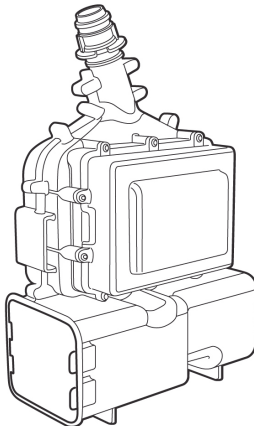


User Instructions for

Limited-Use Public Health Emergency Powered Air Purifying Respirator (PAPR) Assembly

IMPORTANT NOTICE:

This device has been approved by NIOSH in accordance with its Limited Public Health Emergency PAPR guidance issued in April 2020 and adheres to FDA's March 28, 2020 letter addressing use of NIOSH approved PAPRs. Use of this device is authorized only until the declaration that circumstances exist justifying the authorization of the emergency use of personal respiratory protective devices during the COVID-19 outbreak is terminated under Section 564(b)(2) of the Federal Food, Drug, and Cosmetic (FD&C) Act, or until the Emergency Use Authorization is revoked under Section 564(g) of the FD&C Act, or until the approved configuration can no longer be maintained, whichever is shorter.



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

⚠ WARNING!



This product, when used as part of an approved respiratory protection system, helps protect against certain airborne contaminants. Before use, the wearer must read and understand the *User Instructions* provided as part of the product packaging. Follow all local regulations. In the U.S., a

written respiratory protection program must be implemented meeting all the requirements of OSHA 29 CFR 1910.134, including training, fit testing, and medical evaluation. **Misuse may result in serious bodily injury, sickness or death.** For correct use, consult your supervisor and *User Instructions* or call Technical Service in the U.S.A. at 1-833-804-3673.

!!! IMPORTANT READ FIRST!!!

- Battery packs should be charged immediately and fully upon receipt.
- Read and understand the contents of these *User Instructions* prior to use, including all warnings and advisories.
- The Limited-Use Public Health Emergency PAPR System is not designed or approved to meet intrinsic safety standards.
- The filter used in the system is not replaceable.
- Do not, at any time, immerse the blower unit or battery pack in water or other liquid.
- Do not drop PAPR assembly from a height greater than 1 m (3.3 ft). If PAPR assembly falls from a height greater than 1 m (3.3 ft), do not use PAPR.

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FOREWORD

Read and understand all instructions and warnings before use. Keep these *User Instructions* for reference. If you have questions regarding these products contact Technical Service. Check www.corporate.ford.com/ppe.html for potential updates to these *User Instructions*.

Contact Information

Website: www.corporate.ford.com/ppe.html

TECHNICAL SERVICE: 1-833-804-3673

System Description

The Limited-Use Public Health Emergency PAPR assembly is designed to be used with the Ford hoodtop listed on the approval label to form a complete National Institute of Occupational Safety and Health (NIOSH) approved respiratory system. This device may only be used in accordance with the Important Notice on page 1 of these *User Instructions*. **The Limited-Use Public Health Emergency PAPR does not provide protection against vapors or gases and is not designed as an intrinsically safe system.** See the “NIOSH Approval” section in these *User Instructions* for additional information regarding approvals.

The PAPR assembly consists of a blower unit with high efficiency particulate air (HEPA) filter, lithium-ion battery pack, breathing tube, hoodtop, and waist belt. The blower unit draws ambient air through its filter and supplies filtered air to the hoodtop via a breathing tube. An audible low battery alarm will activate when the battery pack is nearing depletion to warn the user to leave the contaminated area.

LIST OF WARNINGS AND CAUTIONS WITHIN THESE USER INSTRUCTIONS

WARNING!

1. Before use, the wearer must read and understand these *User Instructions*. Follow all local regulations. **Misuse may result in injury, sickness or death.** For correct use, consult supervisor and *User Instructions*, or call Technical Service at 1-833-804-3673.
2. The battery packs, chargers and Ford PAPR assemblies are **not** designed to be intrinsically safe. **Do not use in flammable or explosive atmospheres. Doing so may result in serious injury or death.**
3. Always correctly use and maintain the lithium-ion battery packs. **Failure to do so may cause fire or explosion or could adversely affect respirator performance and result in injury, sickness, or death.**
 - a. Do not charge batteries with unapproved chargers, in enclosed cabinets without ventilation, in hazardous locations, or near sources of high heat.
 - b. Do not immerse.
 - c. Do not use, charge, or store batteries outside the recommended temperature limits.
 - d. Charge in an area free of combustible material and readily monitored, and outside of a classified intrinsically safe area.
4. **Failure to follow these *User Instructions* may reduce respirator performance, overexpose you to contaminants, and may result in injury, sickness, or death.**
 - a. Do not use with parts or accessories other than those described in these *User Instructions* or on the NIOSH approval label for this respirator.
 - b. Always read and follow all *User Instructions* supplied with your Ford hoodtop and other system components in order to ensure correct system operation.

(Continued)

WARNING! (Continued)

- c. Do not turn off the blower unit, remove the hoodtop, or reach your hand into the hoodtop while inside the contaminated area. This could allow contaminants to enter the respirator and **may result in sickness or death.**
5. Filter is not replaceable by the user. Do not use PAPR if airflow is below minimum flow level based on the Air Flow Indicator. Do not use PAPR if filter becomes submerged in liquid.
6. Dispose of lithium-ion battery packs according to local environmental regulations. Do not dispose of in standard waste bins, in a fire or send for incineration. **Failure to properly dispose of battery packs may lead to environmental contamination, fire or explosion and may result in serious injury or death.**
7. To reduce exposure to hazardous voltage:
 - a. Do not attempt to service the chargers. There are no user-serviceable parts inside.
 - b. Do not substitute, modify or add parts to the chargers.
 - c. Inspect the chargers and power cords before use. Replace if any parts are damaged.
 - d. Do not use the chargers outdoors or in wet environments.

LIMITATIONS OF USE

Do not wear this respirator system to enter areas where:

- Atmospheres are oxygen deficient, including high altitudes.
- Contaminant concentrations are unknown.
- Contaminant concentrations are Immediately Dangerous to Life or Health (IDLH).
- Contaminant concentrations exceed the maximum use concentration (MUC) determined using the Assigned Protection Factor (APF) for the specific respirator system or the APF mandated by specific government standards, whichever is lower.
- Atmospheres are flammable or explosive.
- Temperatures are very high or very low (see *Technical Specifications* for details).
- The environment is subject to high magnetic fields.

Plan to leave the contaminated area immediately if the low battery alarm activates to obtain a fully charged battery before automatic shutdown of the PAPR. Designed primarily for use in indoor, climate-controlled environments. Unit airflow does not compensate for high altitudes. Unit has been calibrated at sea level. Please check airflow with Air Flow Indicator per *User Instructions* at higher elevations to ensure minimum flow rate is met. For additional limitations, refer to the *User Instructions* for the hoodtop found in Appendix A and the cautions and limitations under the “NIOSH Cautions and Limitations” in these *User Instructions*.

RESPIRATOR PROGRAM MANAGEMENT

Occupational use of respirators must be in compliance with applicable health and safety standards. By United States regulation, employers must establish a written respirator protection program meeting the requirements of the Occupational Safety and Health Administration (OSHA) Respiratory Protection standard 29 CFR 1910.134 and any applicable OSHA substance specific standards. For additional information on this standard contact OSHA at www.OSHA.gov. The major sections of 29 CFR 1910.134 are listed here for convenience. Consult an industrial hygienist with questions concerning applicability of these products to your job requirements.

Major Sections of OSHA 29 CFR 1910.134

Section	Description
A	Permissible Practice
B	Definitions
C	Respiratory Protection Program
D	Selection of Respirators
E	Medical Evaluation
F	Fit Testing
G	Use of Respirators
H	Maintenance and Care of Respirators
I	Breathing Air Quality and Use
J	Identification of Cartridges, Filters, and Canisters
K	Training and Information
L	Program Evaluation
M	Recordkeeping

APPROVALS, CAUTIONS, AND LIMITATIONS

NIOSH Approval

This device has been approved by NIOSH in accordance with its Limited-Use Public Health Emergency PAPR guidance issued in April 2020. Refer to the *User Instructions* and/or the NIOSH approval label provided with the Ford PAPR for a listing of components used to assemble a complete NIOSH approved respirator system or contact Technical Service. This device has been designated for the following Protection:

HE	High-efficiency particulate air filter for powered air-purifying respirators.
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NIOSH Cautions and Limitations

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
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.
I*	Contains electrical parts that may cause an ignition in flammable or explosive atmospheres.
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 as specified by the manufacturer.
O	Refer to User 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 Instructions and/or specific use limitations apply. Refer to User Instructions before donning.
PH	The limited PAPR approval will be effective until the declaration that circumstances exist justifying the authorization of the emergency use of personal respiratory protective devices during the COVID-19 outbreak is terminated under Section 564(b)(2) of the Act, or the EUA is revoked under Section 564(g) of the Act, or until such time that the approved configuration can no longer be maintained whichever may be shorter.

UNPACKING AND BATTERY CHARGING

Unpacking

Inspect the package contents for shipping damage and ensure all components are present. The product should be inspected before each use following the procedures in the *Inspection* section of these *User Instructions*.

WARNING!

1. The battery packs, chargers, and the Ford PAPR assembly are **not** tested or certified as intrinsically safe. **Do not use in flammable or explosive atmospheres. Doing so may result in serious injury or death.**
2. Always correctly use and maintain the lithium-ion battery packs. **Failure to do so may cause fire or explosion or could adversely affect respirator performance and result in injury, sickness or death.**
 - a. Do not charge batteries with unapproved chargers, in enclosed cabinets without ventilation, in hazardous locations, or near sources of high heat.
 - b. Do not immerse.
 - c. Do not use, charge, or store batteries outside the recommended temperature limits.
 - d. Charge in an area free of combustible material and readily monitored, and outside of a classified intrinsically safe area.

Battery Charging

For full safety and operational instructions, refer to DeWalt Instruction Manual included with the supplied battery and charger.

Two DeWalt battery packs and one DeWalt battery charger are provided with the Limited-Use Public Health Emergency PAPR. Only use authentic DeWalt battery packs and battery chargers with this PAPR system.

- DeWalt battery packs: DCB230 (3Ah), DCB205 (5Ah)
- DeWalt battery charger: DCB112

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To charge a battery pack:

1. Plug the charger into an appropriate outlet before inserting battery pack.
2. Insert the battery pack (Fig. 1-1) into the charger, making sure the battery pack is fully seated in the charger. The red (charging) light will blink continuously indicating that the charging process has started.
3. The completion of charge will be indicated by the red light remaining ON continuously. The battery pack is fully charged and may be used at this time or left in the charger. To remove the battery pack from the charger, push the battery release button (Fig. 1-2) on the battery pack.

Note: To ensure maximum performance and life of lithium-ion battery packs, charge the battery pack fully before first use.

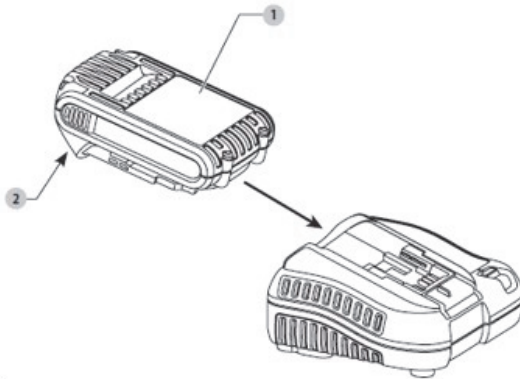


Fig. 1 – Battery Charging

IMPORTANT NOTE:

Ensure the battery is fully seated in the charger and verify LED on charger indicates battery is charging (Fig. 2) before leaving the unit. The battery must click into place on charger.

Charger Operation

For full safety and charging instructions, refer to DeWalt Instruction Manual included with the supplied battery and charger.

Refer to the indicators below (Fig. 2) for the charge status of the battery pack.

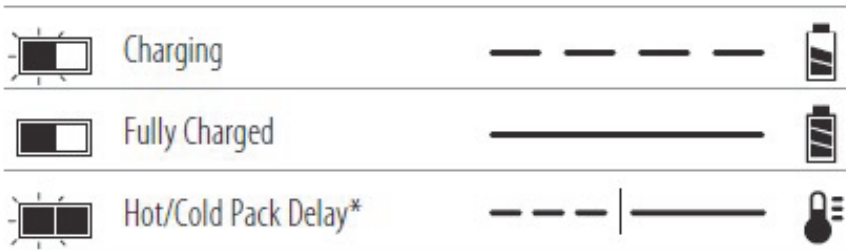


Fig. 2 – Charger Operation

* The red light will continue to blink, but a yellow indicator light will be illuminated during this operation. Once the battery pack has reached an appropriate temperature, the yellow light will turn off and the charger will resume the charging procedure.

The compatible charger(s) will not charge a faulty battery pack. The charger will indicate faulty battery pack by refusing to light or by displaying a problem pack or charger blink pattern.

Note: This could also mean a problem with a charger.

If the charger indicates a problem, take the charger and battery pack to be tested at an authorized service center.

COMPONENT DESCRIPTION AND ASSEMBLY

The **Limited-Use Public Health Emergency PAPR** has multiple components. At a minimum, each NIOSH approved configuration of this PAPR system should include approved hoodtop, breathing tube, blower unit, battery, and a belt. Refer to the supplied *User Instructions* for each of these components for additional information prior to use.

Installation and Removal of Battery Packs

Note: Only certain 20V DeWalt battery packs (DCB230, DCB205) can be used with the Limited-Use Public Health Emergency PAPR. Attempts to use any other battery pack will void the NIOSH approval, system warranty, may not provide respiratory protection, and may damage the PAPR.

Note: Battery Support Foam is included with PAPR assembly. **DO NOT THROW AWAY.** If Battery Support Foam does not come installed, it will need to be installed before use. This foam is used to inhibit battery pack movement once installed in battery compartment.

To install a charged battery pack:

1. Locate battery compartment cover on side of blower unit.
2. Open battery compartment cover by releasing both latching tabs, one at a time.
3. Remove battery adapter from compartment. NOTE: The adapter is not removable and attached via wiring to the blower unit. **Do not use excessive force when extracting adapter from battery compartment.**
4. **FIRST USE ONLY:** If Battery Support Foam does not come installed in battery compartment, remove paper backing from Battery Support Foam, exposing adhesive. Place Battery Support Foam (adhesive side down) on battery compartment floor (Fig. 3a).
5. Connect battery to battery adapter (Fig. 3b). Ensure connection is secure.
6. Place battery/adapter back in battery compartment on top of Battery Support Foam.
7. Close compartment cover, securing both latching tabs.

To remove the battery pack:

1. Open battery compartment cover by releasing both latching tabs, one at a time.
2. Remove battery pack from compartment and disconnect battery pack from adapter by pushing button.
3. Place adapter back in battery compartment on top of Battery Support Foam.
4. Close compartment cover, securing both latching tabs.

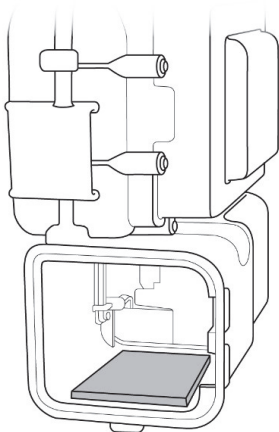


Fig. 3a – Battery Support Foam Installed

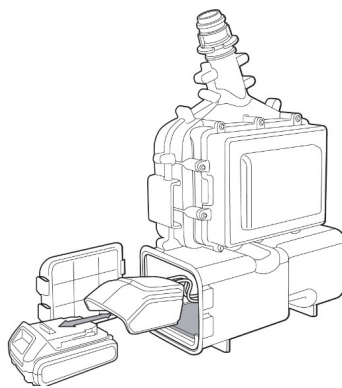


Fig. 3b – Battery Installation

Breathing Tubes

The Limited-Use Public Health Emergency PAPR is approved for use with Ford breathing tubes only.

Install:

1. Identify the blue connector labelled “TO BLOWER”.
2. With the “TO BLOWER” label facing away from the user’s body, align the orientation marks with the 2 ribs (Fig. 4a) on the outlet of the PAPR unit. The loop in the tube should be to the user’s left side (Fig. 4b).
3. Push the connector on straight until it clicks in place (Fig. 4c). Pull gently on the connector to verify it is secured.

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4. Holding the hood connector (with Ford oval label), guide the hood end of the tube *over* the end of the tube at the PAPR unit (Fig. 4b).
5. Push the connector straight onto the hood spigot until it clicks in place. Pull gently on the connector to verify it is secured. If necessary, rotate the hood connector on the hood spigot to minimize twisting of the hood material.

Removal:

1. Squeeze the retainer ring on the tube and gently pull the tube off the hoodtop.
2. Turn the blower unit upside down so that the outlet faces down (Fig. 4d) to help minimize the potential for contamination of the outlet.
3. Squeeze the retainer ring on the tube and gently pull the tube off the blower unit.

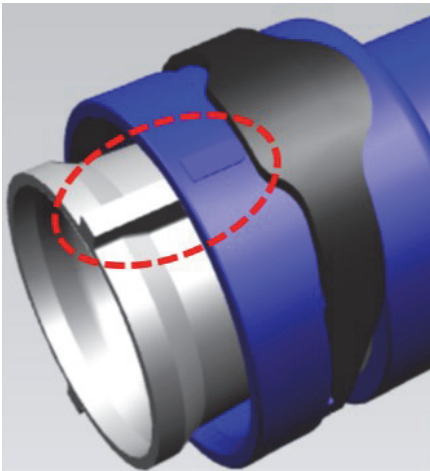


Fig. 4a – Breathing Tube Ribs



Fig. 4b – Breathing Tube Loop

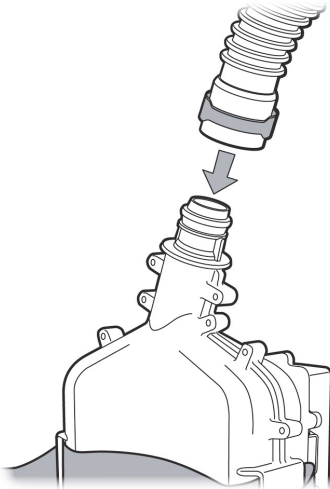


Fig. 4c – Installing Breathing Tube

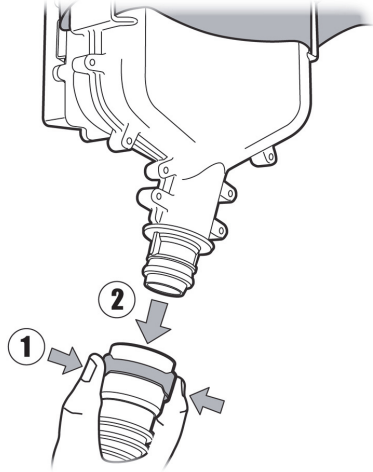


Fig. 4d – Removing Breathing Tube

Hoodtop

The Limited-Use Public Health Emergency PAPR is approved for use with a Ford hoodtop only. Refer to the hoodtop *User Instructions* in Appendix A of this document for information on attaching and donning the hoodtop to be used, and to determine Assigned Protection Factor (APF) for the complete respiratory protection system.

Belts

Install the belt by threading the end of the belt through the retaining slots on the back side of the blower unit (Fig. 5). Position the blower unit so it rests in the small of the back or other location around the waist. Tighten belt for a snug fit.

Three belt sliders are included. The sliders are optional and two could be placed on the belt on both sides of the blower unit to prevent the blower unit from moving along the belt. The third slider could be used as a keeper for extra belt length if desired. Place the sliders on the belt so the rounded side is on the exterior of the belt.

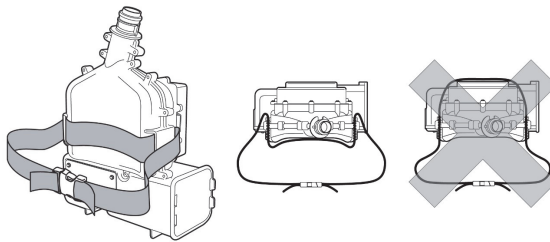


Fig. 5 – Belt Install

Filter

The high efficiency particulate air (HEPA) filter used in the system is not replaceable. If the filter becomes clogged, damaged, or immersed, or if the system stops working, discontinue using PAPR immediately. **Do not attempt to change filter.**

OPERATING INSTRUCTIONS

Power PAPR on

Push the power control button on bottom of unit to the depressed position (Fig. 6).

Power PAPR off

Push the power control button on bottom of unit and release to the raised position (Fig. 6).

Low Battery Alarm

The low battery alarm will sound when battery charge is approaching depletion. **When the low battery alarm sounds, users must immediately exit the hazardous area and replace the battery.**

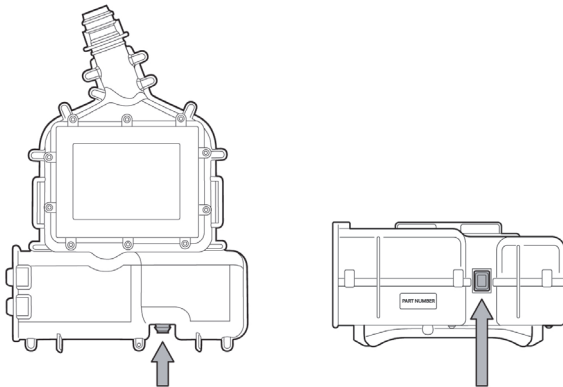


Fig. 6 – On/Off Power Button Location

INSPECTION

WARNING!

Failure to follow these *User Instructions* may reduce respirator performance, overexpose you to contaminants, and may result in injury, sickness, or death.

1. Do not use with parts or accessories other than those manufactured by Ford as described in these *User Instructions* or on the NIOSH approval label for this respirator.
2. The Limited-Use Public Health Emergency PAPR assembly is an approved respiratory protection system. Always read and follow all *User Instructions* supplied with your Ford hoodtop and other system components in order to ensure correct system operation.
3. Do not turn off the blower unit, remove the hoodtop, or reach your hand into the hoodtop while inside the contaminated area. This could allow contaminants to enter the respirator and **may result in sickness or death.**

Before each entry into a contaminated area, the following inspection must be performed to help ensure proper function of the respirator system. Respirator systems are intended to help reduce exposures to certain contaminants and should always be handled with care and fully inspected prior to use.

1. PAPR system: Closely inspect the entire PAPR system including the blower unit, breathing tube, battery, belt, and hoodtop. Pay particular attention to component connection points for wear or damage. If parts are missing or damaged, do not use PAPR assembly.
2. Battery pack: Confirm that the battery pack is fully charged. Ensure plastic surrounding electrical contact pins are intact. The battery pack must be securely connected to the blower unit.
3. Breathing tube: Examine the entire breathing tube for tears, holes or cracks. Bend the tube to verify that it is flexible. Ensure the gaskets located at both ends of the breathing tube (i.e. hoodtop and blower unit connections) are present and not damaged. The breathing tube should fit securely into the air source connection.
4. Hoodtop: Follow the *User Instructions* found in Appendix A of this document to ensure correct system operation.

5. Airflow check:

The airflow from the Limited-Use Public Health Emergency PAPR is pre-calibrated and non-adjustable. The Air Flow Indicator must be used to verify minimum required airflow is attained prior to each use. During use, if you suspect the PAPR is not delivering a minimum of 170 lpm (6 cfm), exit the contaminated area, see your supervisor, and recheck the airflow with the Air Flow Indicator.

- Ensure float ball in the Air Flow Indicator moves freely in the tube and the gasket at the bottom end of the tube is in place. Rinsing with clean water may help free a stuck ball. Allow tube and ball to dry prior to using.
- Insert the Air Flow Indicator into the outlet of the Limited-Use Public Health Emergency PAPR blower unit. If the breathing tube is in place, it must be removed to allow the Air Flow Indicator to be inserted (Fig. 7).
- Turn the blower unit on by pushing the power control button. **Run the Limited-Use Public Health Emergency PAPR for 1 minute to allow the airflow to stabilize.**
- With the Air Flow Indicator in a vertical position, ensure that the bottom of the floating ball rests at, or above, the minimum flow mark. Air Flow Indicator must be in the vertical position for an accurate reading.

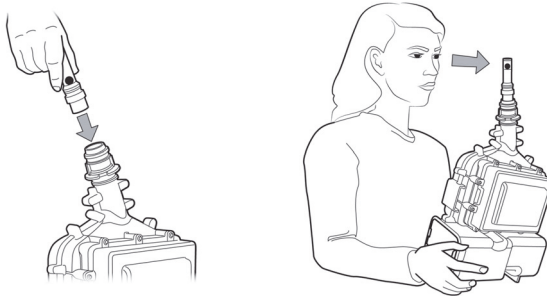


Fig. 7 - Checking Airflow

Note: If the Air Flow Indicator ball fails to rise at or above the minimum flow level, do not use the blower unit. Refer to the Limited-Use Public Health Emergency PAPR Troubleshooting Guide or contact Technical Service.

ENTERING AND EXITING THE CONTAMINATED AREA

Prior to entering the contaminated area, complete the inspection procedures listed in these *User Instructions* and ensure the selected PAPR setup is appropriate protection for the given airborne contaminant and concentration.

1. Turn the blower unit on.
2. Check the airflow with the Air Flow Indicator.
NOTE: High environmental noise levels or use of hearing protection may interfere with the user's ability to hear the audible low battery alarm.
3. Connect breathing tube to blower unit and hoodtop.
4. Don the Limited-Use Public Health Emergency PAPR assembly and hoodtop. Enter the work area.
5. Leave the contaminated area immediately if any of the following conditions occur:
 - a. Any part of the system becomes damaged.
 - b. Airflow into the respirator decreases or stops.
 - c. The low battery alarm triggers.
 - d. Breathing becomes difficult.
 - e. You feel dizzy or your vision is impaired.
 - f. You taste or smell contaminants.
 - g. Your face, eyes, nose or mouth become(s) irritated.
 - h. You suspect that the concentration of contaminants may have reached levels at which this respirator may no longer provide adequate protection.
6. Do not turn off the blower unit, remove the hoodtop, or reach your hand into the hoodtop in areas where the air is contaminated. This could allow contaminants to enter the respirator and **may result in sickness or death.**
7. Follow your facility's specific exiting and decontamination procedures for turning off the blower unit and removing the respirator system.

CLEANING, DISINFECTION, STORAGE, AND DISPOSAL

The **Limited-Use Public Health Emergency PAPR** should be cleaned and inspected after each use and prior to storage.

Cleaning and Disinfecting

It is important to always read and follow the PAPR and hoodtop *User Instructions* for donning, doffing, use, and storage of the assembly. The following general guidelines are for cleaning and/or disinfecting your Limited-Use Public Health Emergency PAPR assembly.

General

Cleaning is recommended after each use. Nitrile or vinyl gloves should be worn during cleaning as well as other personal protective equipment (PPE) as indicated.

Inspect all parts for damage or other signs of excessive wear. Replace all damaged parts prior to storage or next use.

With any disinfecting agent, follow the EPA label in regard to usability, application and contact time, and ensure all components are thoroughly rinsed with fresh, warm water and thoroughly dried before use or storage.

Initial Steps and Inspection

It is important to follow the *User Instruction* inspection procedures supplied with the Limited-Use Public Health Emergency PAPR and hood to identify any damage, excessive wear, or deterioration of components and replace them as necessary.

Detach the belt from the blower unit and the hoodtop from the breathing tube. Remove all the belt sliders from the belt (if present).

Cleaning

If cleaning to remove visible soil before disinfection, clean all parts of the PAPR assembly with a clean soft cloth dampened with warm water containing a mild pH neutral (pH 6-8) detergent.

While the breathing tube is still attached to the blower, begin cleaning with the exterior of the breathing tube, then the exterior of the blower unit. Avoid allowing liquid to enter the breathing tube.

Do not immerse the blower unit or battery pack in water. Open the battery compartment cover, then wipe the outside of the battery pack and the battery cavity of the blower unit. **Do not attempt to clean the battery connection wiring. Ensure the electrical contacts of the blower unit and battery pack are dry prior to using or charging.** Wipe the belt. Replace the cloth if it becomes visibly dirty.

Disinfecting

Disinfect the PAPR assembly with the disinfectant cleaner. Follow the user instructions and/or EPA label for the selected disinfectant. Surfaces must be visibly wet with disinfectant for the full specified contact time.

With breathing tube attached, start by wiping the exterior of the breathing tube and the top of the blower unit outlet. Remove the breathing tube. Taking care not to allow liquid to drip into the blower, disinfect the rest of the blower body and belt.

Rinse

Remove disinfection solution from the PAPR assembly by wiping with a clean cloth dampened with fresh water. Rinse the cloth often to help ensure effective removal of the disinfectant solution. Do not allow liquid to enter the air inlet or outlet ports, or the battery compartment.

Certain components may be submerged in a tub of fresh water: the belt and breathing tube. To minimize drying time of the breathing tube, avoid submerging the ends (openings) of the breathing tube under water.

All components should be allowed to air-dry completely prior to reuse or storage. Air-dry in an uncontaminated atmosphere, temperature not to exceed 49 °C (120 °F). Breathing tube drying can be accelerated by connecting it to the blower unit and using it to force air through the tube until dry. If using this method, orient the blower and breathing tube in such a way that prevents liquid from entering the blower.

After Cleaning and Drying

1. Reassemble unit as described in the *User Instructions*.
2. Inspect the PAPR unit and hoodtop following the inspection procedures in the *User Instructions* for that item.

Always read and follow the user instructions and/or EPA label for your selected disinfectant. Ford strongly recommends that a water rinse/wipe down occur after disinfection to thoroughly remove disinfection solution and reduce the possibility of user irritation and premature degradation of equipment.

Your facility should review all applicable information thoroughly prior to selecting a disinfecting product for your equipment and specific application. Follow the hygiene and infection control practices established by your employer for the targeted organisms. Please note that evaluation of the effectiveness of these agents with regards to inactivating viruses has been performed by the CDC or disinfectant manufacturers, not by Ford.

Please always refer to the latest information from trusted sources such as the World Health Organization (WHO), the US Centers for Disease Control and Prevention (US CDC), and the US Occupational Safety and Health Administration (OSHA) regarding selection, use, maintenance and cleaning of personal protective equipment.

Note that components of PAPR respiratory systems may become damaged over time with prolonged or extended use of disinfecting products. Users must inspect the components of their PAPR respiratory systems following each disinfecting cycle and prior to re-use. If you discover any signs of damage, immediately stop using the PAPR.

If you have any questions or concerns, please contact Technical Services at 1-833-804-3673.

Storage

Clean the system prior to storing. Store in a clean/dry environment not exposed to contaminant dusts, gasses or vapors. Do not hang blower or hoodtop by the breathing tube or hang the blower from the hoodtop. The system must be fully inspected prior to next use.

Battery Pack Maintenance and Storage

Battery packs should be charged prior to storage. For short-term storage, the battery pack may be left attached to the blower unit. Refer to the Limited-Use Public Health Emergency PAPR *User Instructions* for specific maintenance and storage recommendations.

Normal use of the battery and natural aging of battery cells will gradually decrease the battery's available capacity. If battery life begins to noticeably degrade, consider replacing battery.

Disposal

WARNING!

Dispose of lithium-ion battery packs according to local environmental regulations. Do not dispose of in standard waste bins, in a fire or send for incineration. **Failure to properly dispose of battery packs may lead to environmental contamination, fire or explosion and may result in serious injury or death.**

Please dispose or recycle batteries according to federal, state, provincial and local regulations.

The blower unit and charger contain electronic components. Dispose of according to local and government regulations.



= Do not throw battery in trash. Dispose of product as directed by local regulations.



= Do not throw electronic waste in trash. Dispose of product as directed by local regulations.

TECHNICAL SPECIFICATIONS

Airflow	Minimum airflow > 170 lpm (6 cfm)
Respirator System Operating Temperature Operating Altitude Range	41 °F to 100 °F (5 to 38 °C) Operating range not specified. Please check airflow with Air Flow Indicator per <i>User Instructions</i> at higher elevations to ensure minimum flow rate is met.
Storage Conditions Relative humidity Temperature (Daily Storage)	<90% 41 °F to 100 °F (5 to 38 °C)
Battery charging* * Based on the internal temperature of the battery	Range: 32 °F to 104 °F (0 °C to 40 °C)
Approximate System Weight (blower unit, hoodtop, breathing tube, belt and specified battery)	7.0 lbs. (3187 grams) with 3Ah battery 7.8 lbs. (3554 grams) with 5Ah battery
Ingress Protection (IP) Rating	IP-52 Only suitable for use in light rain.
Battery Pack Chemistry Run Time Time to recharge *See DeWalt Instruction Manual included with supplied battery packs and charger for more details on battery pack and charger specifications	Lithium-ion 3Ah Battery: Approximately 4-6 hours 5Ah Battery: Approximately 8-10 hours 3Ah Battery: Approximately 1.5 hours 5Ah Battery: Approximately 2.5 hours NOTE: Consult a transportation specialist for any requirements or limitations prior to transporting lithium-ion battery packs.
Low battery alarm	Activates when approximately 10-15 minutes of power remains. Power down the blower unit and replace the battery pack to reset alarm.
Intrinsic Safety	The Ford assembly is NOT designed as an intrinsically safe system.
Latex	The Ford assembly was not made with natural rubber latex.

LISTING OF COMPONENTS AND ACCESSORIES

Consult the guide below for a listing of Limited-Use Public Health Emergency PAPR part numbers.

Please refer to the Technical Service website at www.corporate.ford.com/ppe.html for information on obtaining optional accessories or replacement parts.

PAPR Assembly Kit Components	
Part Name	Part Number
Blower Unit	USA1-01910
Breathing Tube	USA1-6K689
Belt	USA1-M7H37
Battery Pack (3 Ah)	DEWALT DCB230
Battery Pack (5 Ah)	DEWALT DCB205
Battery Charger (2.0 Amp) *DeWalt user instructions included	DEWALT DCB112
PAPR User Instructions	USA1-19G218
Hoodtop (Large-Medium)	USA1-98802
Battery Support Foam (may come installed)	USA1-8678
Air Flow Indicator	USA1-9F835
Accessories (not included)	
Part Name	Part Number
Shoulder Harness	USA1-60240
Hoodtop (Medium-Small)	USA1-16A37

TROUBLESHOOTING GUIDE

WARNING!

To reduce exposure to hazardous voltage:

1. Do not attempt to service the chargers. There are no user-serviceable parts inside.
2. Do not substitute, modify or add parts to the chargers.
3. Inspect the chargers and power cords before use.
4. Do not use the chargers outdoors or in wet environments.

The blower unit should not be opened to attempt repairs or for any other reason. If the PAPR system does not function as expected, discontinue use immediately.

Contact Technical Service to help identify additional possible causes and corrective actions for other problems you may experience.

Fault	Possible Cause(s)	Possible Solution(s)
Battery alarm sounds	<ol style="list-style-type: none"> 1) Low battery voltage 2) Battery pack not properly installed 3) Battery pack past service life 4) Battery pack temperature too hot > 140 °F (> 60 °C) 	<ol style="list-style-type: none"> 1) Recharge the battery pack 2) Remove and reinstall battery pack 3) Install a new, fully-charged battery pack 4) Bring to cool environment, allow battery pack to cool
No airflow	<ol style="list-style-type: none"> 1) Battery pack contact on battery pack is damaged 2) Battery pack is completely discharged (no charge) 3) Damaged circuit board 4) Damaged motor 	<ol style="list-style-type: none"> 1) Check that the battery pack contact is secure; if damaged, replace battery pack 2) Fully charge the battery pack 3) Contact Technical Service 4) Contact Technical Service
Low airflow as indicated by flow meter	<ol style="list-style-type: none"> 1) Damaged circuit board 2) Damaged motor 3) Flow indicator not held in vertical position 4) Clogged filter 	<ol style="list-style-type: none"> 1) Contact Technical Service 2) Contact Technical Service 3) Ensure flow indicator is held in vertical position during inspection 4) Contact Technical Service

RELATED USER INSTRUCTIONS AND SUPPORTING DOCUMENTS

Refer to www.corporate.ford.com/ppe.html for the most recent version of these documents, supporting documents, training videos and additional material.

Supporting Document(s):

- Limited-Use Public Health Emergency PAPR Quick Start Guide

IMPORTANT NOTICE

WARRANTY

Ford warrants that the Limited-Use Public Health Emergency Powered Air-Purifying Respirator (“PAPR”) and its component parts will be free from defective materials and workmanship at the time of purchase.

Ford further warrants that the PAPR blower unit will be free from defective materials and workmanship for the lesser of 90 days from the date of purchase, or the date on which the Emergency Use Authorization permitting the use of NIOSH-approved respirators in healthcare settings to prevent wearer exposure to pathogenic biological airborne particulates during respirator shortages resulting from the COVID-19 outbreak is terminated or revoked. This warranty is conditioned upon proper maintenance and use of the blower unit in accordance with the product’s User Instructions.

Ford’s only obligation under this Warranty will be, at Ford’s option, to repair or replace without charge any covered components found by Ford to have been defective at the time of purchase, or to repair or replace blower units found to be defective during the blower unit warranty period, as set forth above. This Warranty does not apply to any parts that have been misused, altered, previously repaired, or subjected to abuse, accidental or otherwise.

This Warranty does not apply to expendable consumables, accessories, or fabric components, including but not limited to filters, hoodtops, belts, and shoulder straps. This Warranty also does not apply to batteries or battery chargers, which are subject to the warranty terms of the manufacturer of those products.

EXCLUSIONS TO WARRANTY: THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OF QUALITY, EXCEPT OF TITLE AND AGAINST PATENT INFRINGEMENT.

LIMITATION OF LIABILITY

Except as provided above, Ford shall not be liable or responsible for any loss or damage, whether direct, indirect, incidental, special or consequential, arising out of sale, use or misuse of the PAPR or any of its components, or the user's inability to use this product. Ford makes no warranties relating to the efficacy of any of the products detailed herein in preventing the spread and/or contraction of coronavirus **OR OTHER DISEASES**. THE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE

Before using any of the products or information detailed herein, you must evaluate it and determine if it is suitable for your intended use. Technical information provided by Ford is based on experience and/or test data believed to be reliable, but the results may not be relevant to every user's application. For this reason, Ford does not accept any responsibility or liability, direct or consequential, arising from reliance upon any information provided. The user should determine the suitability of any **DISINFECTANTS OR OTHER PRODUCTS** for compatibility for use with **THE PAPR**.

FCC COMPLIANCE

Note: Because the blower unit and battery charger of this Limited-Use Public Health Emergency PAPR may produce radio frequency energy, Ford is providing the following information pursuant to FCC regulations.

FCC Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FOR MORE INFORMATION

Website: www.corporate.ford.com/ppe.html

Technical Assistance: 1-833-804-3673

Ford Motor Company

One American Road

Dearborn, MI 48126

APPENDIX A:

User Instructions for

Limited-Use Public Health Emergency PAPR Hoodtop



Ford Hoodtop

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

⚠ WARNING!



Misuse may result in sickness or death.
For proper use, see supervisor, *User Instructions* or call Technical Service.

FOREWORD

Contact Information

Read all instructions and warnings before using. Keep these *User Instructions* for reference. If you have questions regarding these products, contact Technical Service.

System Description

The Limited-Use Public Health Emergency PAPR hoodtop is designed to be used with the Ford Limited-Use Public Health Emergency PAPR Assembly to form a respirator system.

The Ford hoodtop has a wide-view window (visor) and an elasticized faceseal. The hoodtop is held in place with an adjustable, non-replaceable head harness. The hoodtop is supplied fully assembled, ready for use.

WARNING!

Properly selected, used, and maintained respirators help protect against certain airborne contaminants by reducing concentrations in the wearer's breathing zone below the Occupational Exposure Limit (OEL).

It is essential to follow all instructions and government regulations on the use of this product, including wearing the complete respirator system during all times of exposure, in order for the product to help protect the wearer. **Misuse of respirators may result in overexposure to contaminants and lead to sickness or death.** For proper use, see supervisor, refer to the product *User Instructions* or contact Technical Service.

List of Warnings within these User Instructions**⚠ WARNING!**

1. This product helps protect against certain airborne contaminants. **Misuse may result in sickness or death.** For proper use, see supervisor, *User Instructions* or call Technical Service at 1-833-804-3673.
2. **Failure to follow these instructions** may reduce respirator performance, overexpose you to contaminants, and **may result in injury, sickness, or death.**
 - Always correctly position the Ford hoodtop on the head.
 - Users should be clean-shaven where the respirator's face seal comes into contact with their face.
 - Do not use with parts or accessories other than those manufactured by Ford as described in these *User Instructions* or on the NIOSH approval label for this respirator.
 - The Ford hoodtop is one component of an approved respiratory protection system. Always read and follow all *User Instructions* supplied with your Ford PAPR Blower Unit in order to ensure correct system operation.
3. **Do not use these products for eye and face impact protection. When exposed to eye and face hazards (e.g. impact hazards) select and wear appropriate protection. Failure to do so may result in serious injury.**
4. **Do not use these products around heat, flames, or sparks. Select and wear appropriate protection when exposed to sparks and/or flames. Failure to do so may result in serious injury.** In case of intended use in explosive atmospheres, contact Technical Service.

Limitations of Use

1. Do not wear this respirator to enter areas where:
 - a. Atmospheres are oxygen deficient
 - b. Contaminant concentrations are unknown
 - c. Contaminant concentrations are Immediately Dangerous to Life or Health (IDLH)
 - d. Contaminant concentrations exceed the maximum use concentration (MUC) determined using the Assigned Protection Factor (APF) for the specific respirator system or the APF mandated by specific government standards, whichever is lower. See *APF* section of these *User Instructions*.
2. These products may offer limited splash protection against certain chemicals. Consult a qualified industrial hygienist and the applicable Chemical Permeation Guide(s) to determine suitability of these products for your specific environment. For additional information, contact Technical Service.

NIOSH – Approval

This device has been approved by NIOSH in accordance with its Limited-Use Public Health Emergency PAPR guidance issued in April 2020. Refer to the *User Instructions* and/or the NIOSH approval label provided with the Ford PAPR for a listing of components used to assemble a complete NIOSH approved respirator system or contact Technical Service. This device has been designated for the following Protection:

HE	High-efficiency particulate air filter for powered air-purifying respirators
----	--

Operating Instructions

Unpacking

Inspect the package contents for shipping damage and ensure all components are present. The product should be inspected before each use, following the procedures in the *Inspection* section of these *User Instructions*.

The Ford hoodtop is shipped with a protective film on the lens. Remove the film by pulling the tab in the upper right corner per (Fig. 8).

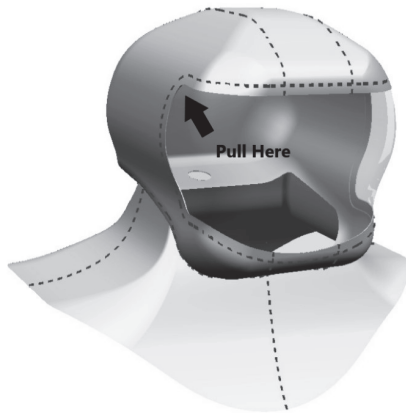


Fig. 8

Assembly

⚠ WARNING!

Failure to follow these instructions may reduce respirator performance, overexpose you to contaminants, and **may result in sickness or death.**

Ford Hoodtop with Integrated Head Suspension

The product is provided fully assembled with adjustable head bands around the head and over the head. Adjust the crown strap so that the headband sits comfortably around the brow. Adjust the headband for comfortable tightness around the brow.

Prior to use, ensure any protective covering or film that may have been placed over the visor to protect it during manufacturing and shipping is removed.

Breathing Tubes and Adapters

Connecting the breathing tube

Connect the end of the breathing tube with the Ford oval label by pushing quick release end of the breathing tube (i.e. the end with the pinch clip) onto the air inlet of the hoodtop. The breathing tube should make an audible click when attached. Verify breathing tube is secured to the hoodtop by pulling on the connection.

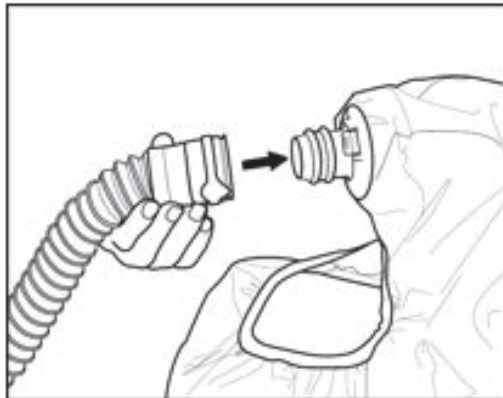


Fig. 9

Disconnecting the breathing tube

To disconnect the breathing tube, compress the pinch clip of the quick release to release and pull back to remove (Fig. 10).

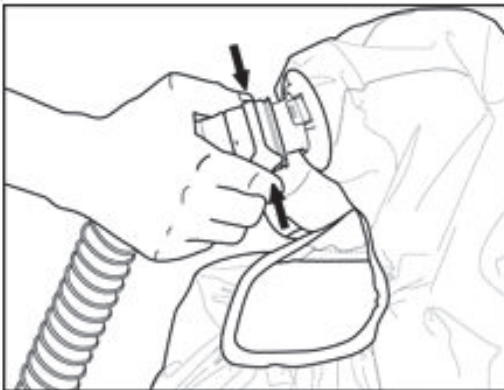


Fig. 10

Donning and Fitting

⚠ WARNING!

Failure to follow these instructions may reduce respirator performance, overexpose you to contaminants, and **may result in sickness or death.**

- Always correctly adjust the Ford hoodtop position to fit your head.
- Users should be clean-shaven where the respirator's faceseal comes into contact with their face.

The following instructions cover donning and fitting of your Ford hoodtop. Follow the *User Instructions* for your Ford PAPR to properly assemble, don, and fit your blower unit. Complete all necessary performance checks as described in those *User Instructions* and verify that the airflow is adequate before donning your hoodtop and entering a contaminated environment.

1. Check that you have the appropriate size hoodtop. Sizing guidelines for Ford hoodtops are provided in Table 1. Since the sizing guidelines are general, the best fitting size for you will depend on your facial size and shape. Select the size that fits most comfortably and matches your head size. **Individuals with a head circumference smaller than 50 cm or larger than 64 cm should not use this hoodtop.** If you have any questions on sizing, contact Technical Service.

Table 1: Sizing General Guidelines for Ford Hoodtop

	Head Circumference (cm)	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64
	US Hat Size	6 1/4	6 3/8	6 1/2	6 5/8	6 3/4	6 7/8	7	7 1/8	7 1/4	7 3/8	7 1/2	7 5/8	7 3/4	7 7/8	8
Integrated Suspension	S/M															
Integrated Suspension	M/L															



2. Connect breathing tube to blower unit and hoodtop. Start PAPR motor, then don the hoodtop.

Note: If possible, use the "buddy system" and have a colleague help check for proper donning.

Ford hoodtop:

- Pull the hoodtop over your head so that the visor is directly in front of your face.
- Pull the suspension firmly onto your head. The suspension should feel tight but comfortable. The comfort pad (i.e. sweatband) should be worn around your forehead just above the brow.
- The headband of the plastic suspension should be worn around your forehead and the crown strap should be positioned on top of the head, not around the back of the head.

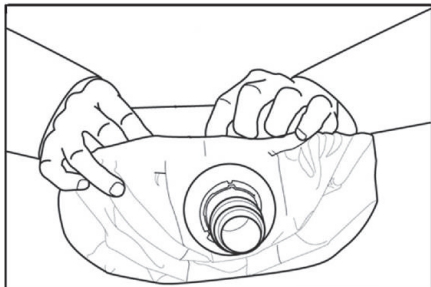


Fig. 11



Fig. 12

- To achieve the best fit, the elasticized edge of the hoodtop face seal should come in contact with your face under the chin, in front and above of the ears and around back of head.
3. Complete any final performance checks required according to the *User Instructions* for your PAPR.

Entering and Exiting the Contaminated Area

WARNING!

1. **Failure to follow these instructions may result in serious injury.**
 - a. Do not use these products for eye and face protection. When exposed to eye and face hazards (e.g. impact hazards), select and wear appropriate protection.
 - b. Do not use these products around heat, flames, or sparks. Select and wear appropriate protection when exposed to sparks and/or flames. In case of intended use in explosive atmospheres, contact Technical Service.
2. The Ford hoodtop is one component of an approved respiratory protection system. Always read and follow all *User Instructions* supplied with your Ford PAPR blower unit in order to ensure correct system operation. **Failure to do so may reduce respirator performance, overexpose you to contaminants, and may result in injury, sickness, or death.**

With the respirator donned correctly and in operation, enter the contaminated area breathing normally. Keep the PAPR assembly away from equipment, vehicles, and other physical and chemical hazards.

1. 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.
2. **Do not** wear this respirator to enter areas where:
 - a. Atmospheres are oxygen deficient, including high altitudes.
 - b. Contaminant concentrations are unknown.
 - c. Contaminant concentrations are Immediately Dangerous to Life or Health (IDLH).
 - d. Contaminant concentrations exceed the maximum use concentration (MUC) determined using the Assigned Protection Factor (APF) for the specific respirator system or the APF mandated by specific government standards, whichever is lower.
 - e. Atmospheres are flammable or explosive.

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- f. Temperatures are very high or very low (see *Technical Specifications* for details).
- g. The environment is subject to high magnetic fields.
3. Leave the contaminated area *before* reaching inside or removing the hoodtop. **Do not remove the respirator or reach your hand into the hoodtop in areas where the air is contaminated.**
4. Leave the contaminated area immediately if any of the following conditions occur:
 - a. Any part of the system becomes damaged
 - b. Airflow into the respirator decreases or stops
 - c. The low battery alarm triggers
 - d. Breathing becomes difficult
 - e. You feel dizzy or your vision is impaired
 - f. You taste or smell contaminants
 - g. Your face, eyes, nose or mouth become(s) irritated
 - h. You suspect that the concentration of contaminants may have reached levels at which this respirator may no longer provide adequate protection.

Refer to the *Inspection* section of these *User Instructions* for guidance on how to properly care for your hoodtop.

Inspection

WARNING!

Failure to follow these instructions may reduce respirator performance, overexpose you to contaminants, and **may result in injury, sickness, or death.**

- Do not use with parts or accessories other than those manufactured by Ford as described in these *User Instructions* or on the NIOSH approval label for this respirator.

The 'in use' life of these products will vary with frequency and conditions of use. Before and after each use, inspect for signs of damage or wear.

Carefully:

- Examine the condition of the fabric, head suspension, visor, outer shroud, and as applicable, inner shroud, collar, or elasticized face seal. Check that there are no cracks, rips, dents, holes, tears, or other damage.
- Look closely at the stitching. Ensure stitching is intact and there is no unraveling or gaps in the seams. There should be no tears or holes that could permit contaminated air to enter the hoodtop.
- Look for scratches or other visual distortions that could make it difficult to see through the visor.
- Examine the head suspension for cracks or other damage.
- Examine the entire breathing tube. Look for tears, holes, cracks distortions, or any other sign of wear or damage. Bend the tube to verify that it is flexible. Ensure the gasket located in the quick release is present and not damaged. The breathing tube should fit firmly into the airsource connection.

If you discover any signs of damage, discard the component and replace it with a new one. Failure to do so may affect respirator performance and reduce the degree of protection provided, and could result in sickness and death.

Cleaning, Storage, and Disposal

Cleaning

Follow the hygiene practices established by your employer for the specific contaminants to which the respirator assembly has been exposed. A clean cloth or sponge dampened with a mild solution of water and liquid household soap may be used to wipe down the hoodtops, plastic head suspensions, and other plastic parts. Hang hoodtops by the loop sewn into the top or lay it flat. Never fold or crush the visor. Air-dry inside and out thoroughly before storage or reuse.

▪ **DO NOT:**

- Use detergents that contain lanolin or other oils
- Wipe the visor with strong solvents such as MEK, acetone, or toluene as those may damage or distort the visor
- Soak components in cleaning solutions or solvents
- Wash in a washing machine or respirator washer
- Use sterilization processes such as ethylene oxide, radiation and steam sterilization, as they may damage the components

Storage

Hang your Limited-Use Public Health Emergency PAPR hoodtop by the loop sewn into the top of the hoodtop or lay it flat. Never fold or crush the visor. Store product in a clean area that is protected from contamination, damage, dirt, debris, product distortion, UV, and direct sunlight. Do not store next to furnaces, ovens, or other sources of high heat. Do not store outside the recommended storage temperature conditions (see *Specifications Section*) or above 90% humidity.

Disposal

Dispose of product according to local regulations. The integrated plastic components can be removed for disposal (Fig. 13a), (Fig. 13b), (Fig. 13c).

- Remove the air inlet by detaching from the hoodtop fabric (Fig. 13c).

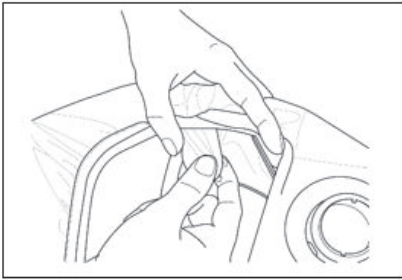


Fig. 13a

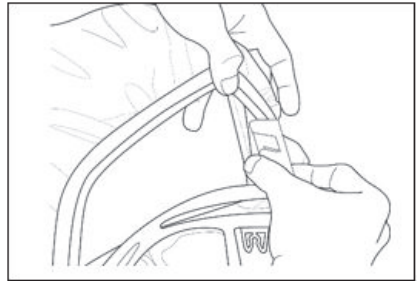


Fig. 13b

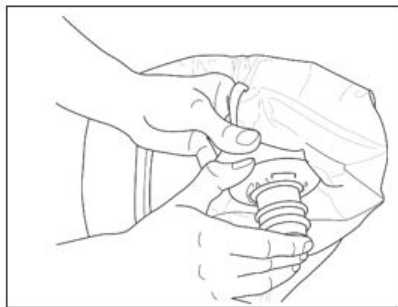


Fig. 13c

Specifications

Contact Technical Service for additional technical specifications (e.g. weight, materials of construction, etc).

Note: Ford hoodtops were not made with natural rubber latex.

Technical Specifications

Airflow range	Minimum airflow > 170 lpm (6 cfm)
Noise level	Less than 80 dBA (excluding external noise)
Operating Temperature Range	41 °F to 100 °F (5 to 38 °C)
Storage Temperature Range*	41 °F to 100 °F (5 to 38 °C)

Assigned Protection Factors (APF)

Model Number	Classification	OSHA APF
FORD	Loose fitting facepiece	25

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