

Quick Start Guide: TR-600

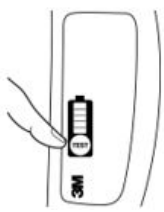
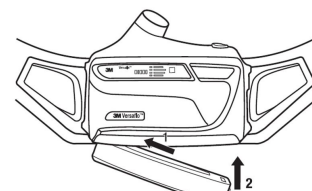
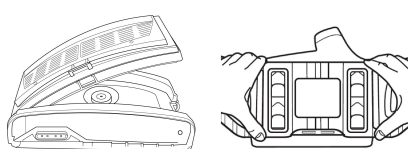
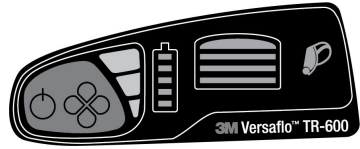
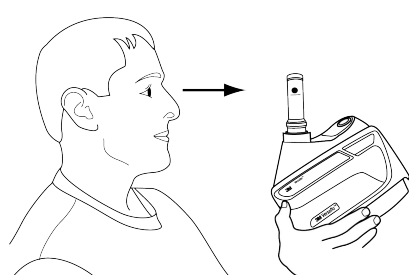
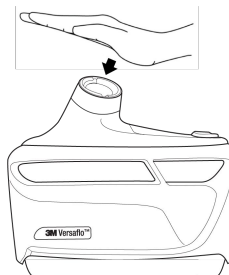
NOTE: This sheet supplements, but does not replace, *User Instructions*. Always read and follow *User Instructions*.

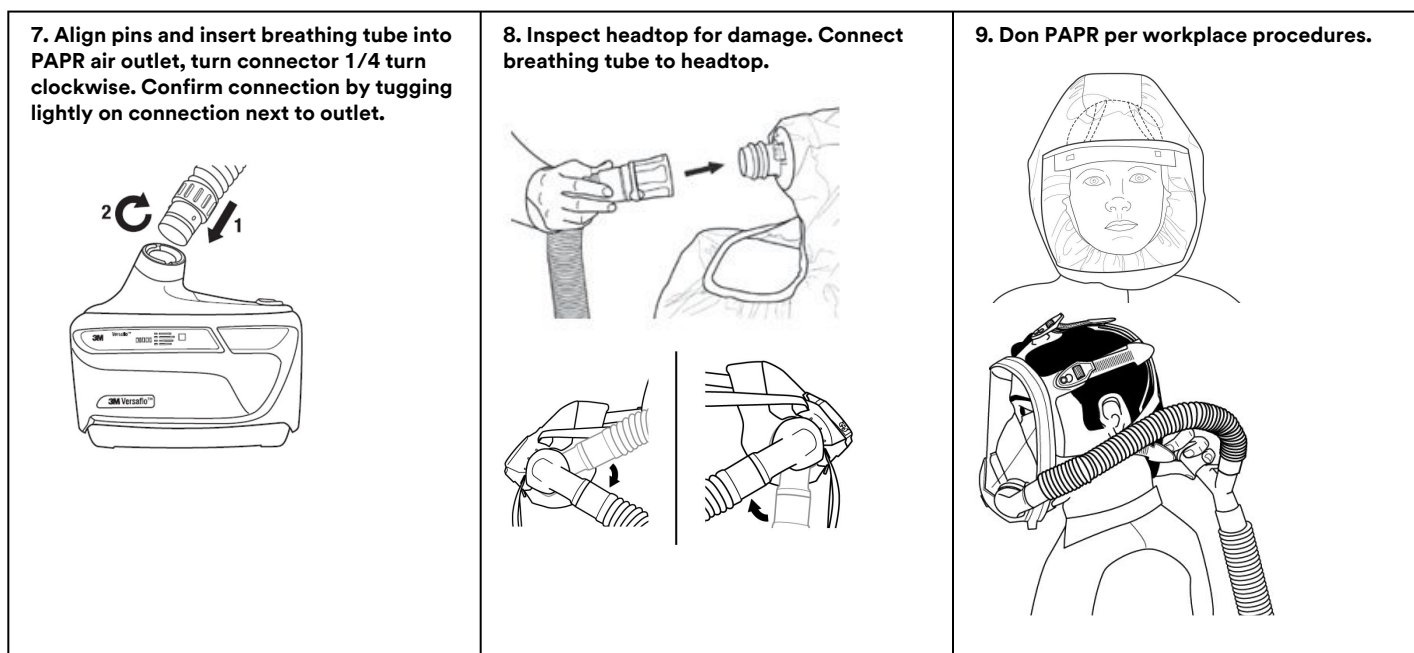
Below is a summary of steps to follow each time a 3M™ Versaflo™ TR-600 Powered Air Purifying Respirator (PAPR) is worn.

WARNING



This product is part of a system that helps reduce exposures to certain airborne contaminants. Before use, the wearer must read and understand the *User Instructions*. Follow all local regulations. In the U.S., a written respiratory protection program must be implemented meeting all the requirements of 29CFR1910.134, including training, fit testing and medical evaluation. In Canada, CSA standard Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. **Misuse may result in injury, sickness or death.** For correct use, consult supervisor and *User Instructions*, or call 3M Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.

1. Push 'Test' button to confirm battery charge. 	2. Attach battery pack to motor/blower. Gently tug battery pack to confirm a secure connection. 	3. Attach filter/cartridge (with filter cover, if used) and belt/backpack to motor/blower. Gently tug filter/cartridge to confirm a secure connection. 
4. Turn on PAPR. Confirm LEDs flash on startup. Confirm audible and vibratory alarms sound. 	5. Confirm airflow is sufficient using the appropriate airflow indicator (TR-971 or TR-973) as described below. The bottom of the floating ball must rest at, or above, the minimum flow mark for the 'letter' representing your 'Zone'. 	6. Perform Low flow alarm check. Check the low airflow alarm by tightly covering the outlet of the motor/blower with the palm of your hand. The motor should speed up and trigger a low flow alarm (In less than approx. 30 seconds). Remove your hand and the motor should return to the selected speed. 



The following is designed to be a Quick Start Guide for reference purposes only. Before using the TR-600 PAPR, all users must read and understand the product *User Instructions*. If you have questions, consult your supervisor or call 3M Technical Service at 1-800-243-4630 (USA) or 1-800-267-4414 (Canada).

 WARNING



This product is part of a system that helps reduce exposures to certain airborne contaminants. Before use, the wearer must read and understand the *User Instructions*. Follow all local regulations. In the U.S., a written respiratory protection program must be implemented meeting all the requirements of 29CFR1910.134, including training, fit testing and medical evaluation. In Canada, CSA standard Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. **Misuse may result in injury, sickness or death.** For correct use, consult supervisor and *User Instructions*, or call 3M Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.

1. Inspect the TR-600 PAPR system. If parts are missing or damaged, replace only with TR-600 replacement parts before proceeding.

- Motor/blower. Inspect for cracks, holes, damage to user interface panel and belt attachments.
- Battery pack. Confirm case is intact. Press TEST button on pack to confirm charge is sufficient for duration of the work period.
- Breathing tube. Examine breathing tube for tears, holes or cracks. Bend the tube to verify that it is flexible and not showing signs of wear. Ensure the o-rings located at both ends of the breathing tube are present and intact. For BT-63/BT-64, Inspect the two bayonets that connect to the tight-fitting respirator for damage. Ensure two gaskets are present at the end of the breathing tube that connects to the air source and ensure they are not damaged.
- Filter/cartridge. Closely inspect filter/cartridge plastic housing including the corners and latches, outer rectangular barrier, and inner circular filter seal gasket for cracks, tears, cuts, distortion, indentations or debris. Replace filter/cartridge if damaged. If the filter/cartridge has been mishandled or dropped, re-inspect fully. If you have any concern, contact 3M Technical Service for guidance.
- Headgear. Inspect the headgear for tears, cuts, loose stitching, cracks, discoloration or other signs of damage.

2. Assemble TR-600 PAPR system.

- Attach battery pack to bottom of motor/blower. Ensure battery latches with a distinct click. Gently pull to confirm a secure connection.
- (If being used) Install spark arrestor, then prefilter into filter cover.
- Place the filter/cartridge into the filter cover, ensuring bottom latching tab snaps into place. Note: If not using the filter cover, proceed to next step and attach the filter/cartridge directly to the motor/blower.
- Place the hinge side of the filter/cartridge into the motor/blower, then snap latch side into the filter latch.
- Filter/cartridge latches with a distinct click. Gently pull to confirm a secure connection.
- Attach motor/blower to belt or backpack.
- Insert the end of the breathing tube with the two small prongs into slots in the motor/blower air outlet. Twist the breathing tube ¼ turn to the right (clockwise) to lock.
- Attach breathing tube to headgear.
 - For loose fitting headgear, push the QRS end of the breathing tube (blue pinch clip) onto the air inlet of the headgear. Headgear will secure with a distinct click. Gently pull to confirm a secure connection.
 - For tight fitting facepieces, align the two branches of the breathing tube over the two bayonet mounts on the facepiece. Ensure the one small slot on the breathing tube bayonet aligns with the one small lug on the facepiece bayonet mount. Twist each branch of the breathing tube clockwise a quarter turn until it meets the internal stop and is firmly seated on the bayonet. Do not forcibly overturn, as the bayonet could be damaged.

3. Perform flow check

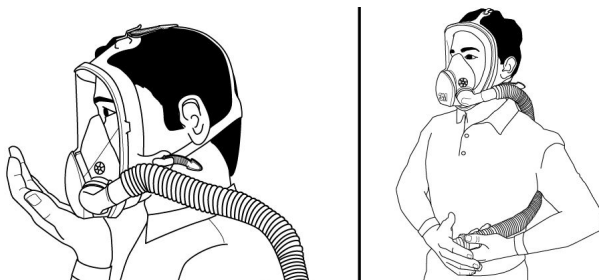
- For loose fitting headgear using TR-971 air flow indicator:
 - If installed, remove breathing tube.
 - Insert air flow indicator TR-971 into the outlet on the TR-600 motor/blower unit.
 - Start motor/blower. Run for 1 minute.
 - With the TR-971 airflow indicator in a vertical position, ensure that the bottom of the floating ball rests at, or above, the minimum flow mark for the 'letter' representing your 'Zone'. Air Flow Indicator must be in the vertical position for an accurate reading. If not above minimum level, respirator system must not be used until evaluated and repaired.
 - Remove air flow indicator and perform low flow alarm test per TR-600 *User Instructions*.
 - Reattach breathing tube and headgear before use.
- For tight fitting facepieces using TR-973 air flow indicator:
 - If installed, remove breathing tube.
 - Insert the TR-973 into the outlet of the motor blower unit outlet by aligning the two pins on the AFI to the slots on top of the blower.
 - Start motor/blower. Run for 1 minute.
 - Ensure the motor blower is operating in tight-fitting mode (facepiece icon is lit).
 - With the TR-973 airflow indicator in a vertical position, ensure that the bottom of the floating ball rests at, or above, the minimum flow mark for the 'letter' representing your 'Zone'. Air Flow Indicator must be in the vertical position for an accurate reading. If not above minimum level, respirator system must not be used until evaluated and repaired.
 - Remove air flow indicator and perform low flow alarm test per TR-600 *User Instructions*.
 - Reattach breathing tube and headgear before use.

4. Perform Low flow alarm check

- Check the low airflow alarm by simulating a low airflow condition. With the motor/blower on:
 - Remove the airflow indicator and tightly cover the outlet of the motor/blower with the palm of your hand. The motor should automatically speed up, attempting to compensate for the low airflow condition.
 - Continue to press your palm tightly against the end of the outlet, making a tight seal. In less than approx. 30 seconds, the unit will sound an audible alarm, and the bottom bar on the filter loading/low flow indicator will flash red.
 - Remove your hand from the motor/blower outlet. In less than approx. 30 seconds, the audible alarm and the flashing red LED should both stop when the motor returns to the selected speed.
- NOTE: If the low airflow alarm fails to sound, do not use the unit. Contact 3M™ Technical Service.

5. Don TR-600 PAPR system

- For loose-fitting headgear:
 - Turn on motor/blower by pressing and holding blue on/off button.
 - Use belt or backpack to attach PAPR to wearer.
 - Pull headgear over head and adjust. Adjust following the user instructions for the specific headgear.
- For tight-fitting facepieces:
 - Lift the Y-branches of the BT-60 Series Breathing Tube along with the facepiece over your head so the faceseal of the respirator is in front of you, the Y-branches of the breathing tube are resting on your shoulders, and the trunk of the breathing tube is running down your back.
 - Don and adjust the facepiece following the *User Instructions*.
 - Perform user seal checks.



- Reattach breathing tube to the motor/blower.
- Turn the motor/blower on. Ensure the motor blower is operating in tight-fitting mode (facepiece icon is lit). It will remain in tight-fitting mode as long as the blower is not powered down.
- Use belt or backpack to attach PAPR to wearer.

6. Post Use

- Exit work area. Turn off motor/blower by pressing and holding blue on/off button.
- Remove the PAPR system making sure to follow workplace procedures so as not to expose yourself to contaminants on unit.
- Clean PAPR following practices established by your employer and in compliance with the product User Instructions. Charge battery if needed.



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