

AVONAIR System - Auto Filter Covers Accessory – Airline O-ring Installation**Assembly Part Numbers Affected: 200086**

NOTICE: For the proper operation and maximum protection for users of the AvonAir MP-PAPR and CS-PAPR systems with the Auto Filter Accessory Option installed, the following setup procedures to connect the airline connection to the combination hose must be followed and performed. The procedures described herein are complementary to the one described in the AvonAir MP-PAPR, CS-PAPR and Automatic Filter Covers User Instructions (UI).

Requested Actions

Avon Protection considers the protection of the users of our equipment as our first priority. We are obligated to reinforce the importance of the setup procedures to connect the airline connection to the combination hose as described in the AvonAir MP-PAPR, CS-PAPR system and in the Automatic Filter Covers User Instructions as well as the complementary instructions contained in this Technical Bulletin. This applies when the Automatic Filter Covers accessory is connected to an AvonAir MP-PAPR or CS-PAPR System.

This Technical Bulletin provides customers and service centers with additional instructions on how to connect properly and safely the Auto Filter Covers accessory to the Combination Hose on the AvonAir system, ensuring the integrity of the O-ring at the airline connection fitting.

It has come to our attention that some air leaks in the field have been tracked down to an O-ring missing during assembly of the Automatic Filter Covers to the Combination Hose.

System Setup

NOTE: The following are complementary instructions for the Setup instructions included in the MP-PAPR, CS-PAPR system and in the Automatic Filter Covers User Instructions.

This bulletin includes:

- A. Description of the AvonAir Airline connection fitting and O-ring
- B. Required tools, materials, and parts for assembly
- C. Additional assembly instructions
- D. Leak testing after installation of the Auto Filter Covers accessory

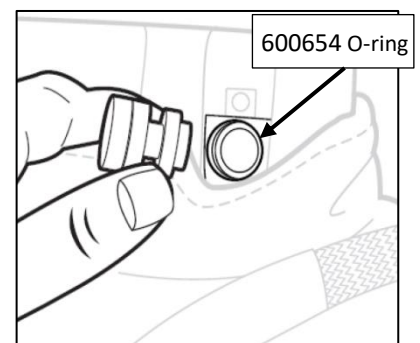
Follow the instructions found in the AvonAir MP-PAPR, CS-PAPR system and in the Automatic Filter Covers User Instructions setup section. When connecting the airline connection of the Automatic Filter Covers accessory to the Combination Hose on the AvonAir system, perform the following complementary instructions.

A. Description of the AvonAir Airline connection fitting and O-ring:

The pneumatic seal between the airline connection fitting and the combination hose is achieved by using an O-ring (P/N: 600654) that is located under the blanking plug at the switchover box in the combination hose.

This is the location where the airline connection fitting needs to be assembled.

The airline connection fitting of the Auto Filter Cover Accessory is designed with a small step that allows the installation of the O-ring. This O-ring is **NOT** supplied with the accessory.



Europe, Middle East, Asia, Africa & Australasia | The Americas
t: +44 (0) 1225 896705 | t: +1 888 286 6440
e: protection@avon-protection.com | e: customerservice@avon-protection.com

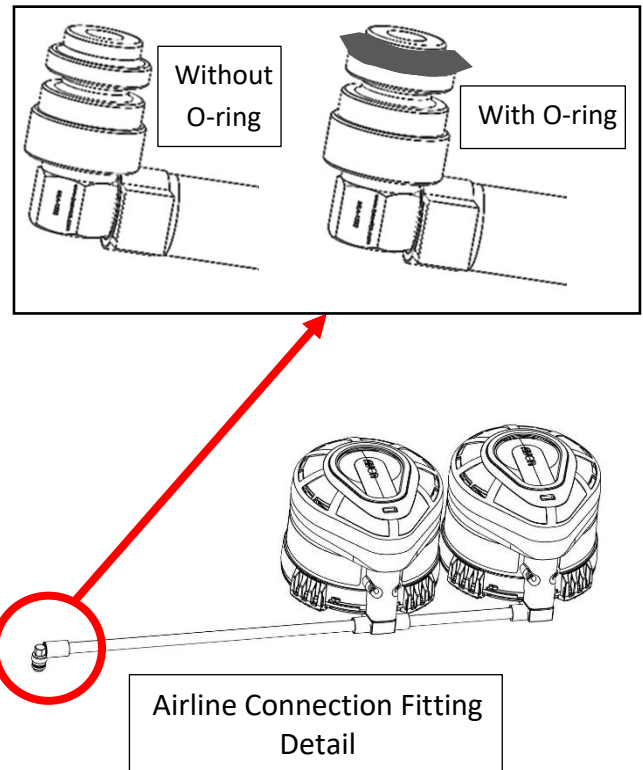
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NOTE: When installing the Auto Filter Cover’s airline fitting to the combination hose, you must locate and re-use the O-ring from the combination hose located under the blanking plug in the switch over box.



B. Required tools, materials, and parts for assembly:

Tools:

- 3/32” Hex Allen Wrench

Materials:

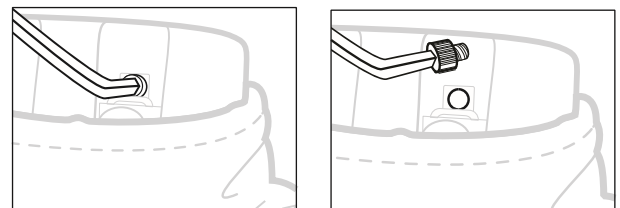
- Christo-lube MCG111 (available from Avon Protection Systems) – Avon P/N: 047001

Parts:

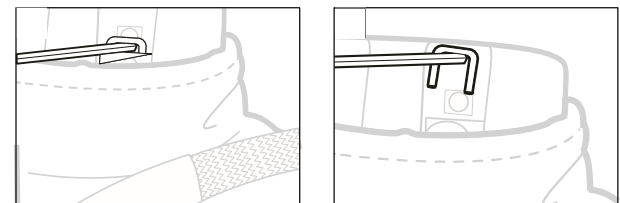
- Replacement O-ring (if needed due to damage or loss): Avon P/N: 600654

C. Auto Filter Covers airline fitting assembly instructions:

Step 1: Using a 3/32” hex Allen wrench, remove the retaining screw (P/N: 600279).



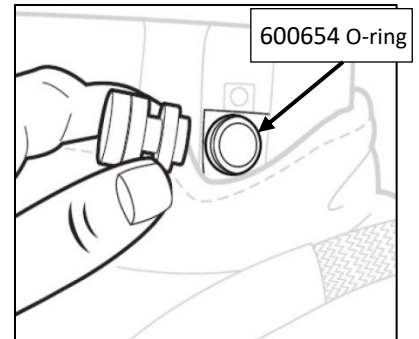
Step 2: Remove the U-Clip (P/N: 01404000) from the Combination Hose. Set aside these components for re-use.



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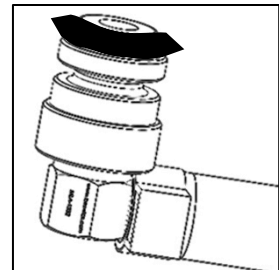
Step 3: Remove the Blanking Plug (P/N: 018015) from the combination hose.



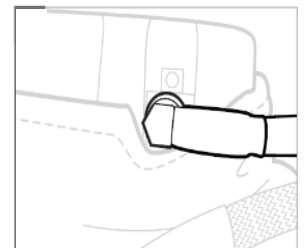
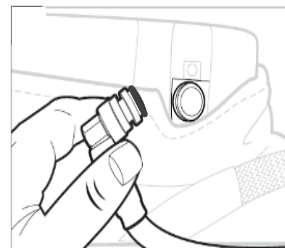
WARNING: Identify and remove the O-ring (P/N: 600654) that is located in the bore of the combination hose under the blanking plug in the switch over box. You must keep and re-use this O-ring when installing the airline fitting into the combination hose.

NOTE: If this O-ring is lost or damaged, replacements are available to order through Avon Protection Systems.

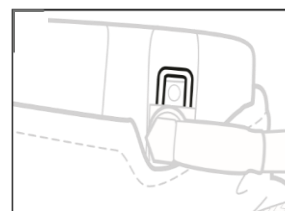
Step 4: Apply a thin film of Christo-lube to the O-ring, then assemble the O-ring onto the end of the Auto Filter Covers airline fitting.



Step 5: Install the Auto Filter Covers airline fitting (**with O-ring**) into the bore of combination hose where noted.



Step 6: Re-attach the airline fitting using the U-clip and the retaining screw. Tighten the retaining screw snug using the 3/32" hex Allen wrench.



D. Leak test after installation of the Auto Filter Covers accessory:

NOTE: The final steps in the assembly process of the Auto Filter Covers Accessory are the pre-use checks. An essential component of these tests is the leak test procedure.

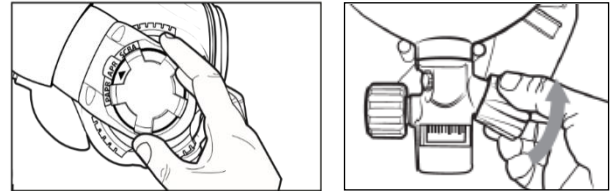
NOTE: The following procedure is only to be done as a test to confirm the sealing integrity of the system before use.

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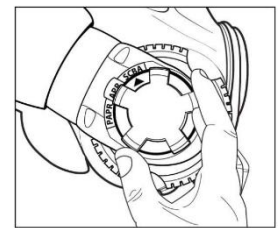
NOTE: Once the system is fully assembled (blower, filters, combination hose, PAPR module, full air cylinder) per the User Instructions and with the Auto Filter Covers installed accordingly to the instructions, perform the following steps:

Step 1: With the combination hose in APR mode, open the cylinder valve to pressurize the system.



WARNING: Ensure mask end of combination hose (male end) is clear when selecting SCBA mode. If mask end is plugged when selecting SCBA mode, damage can occur to system.

Step 2: After pressurizing the system, push in knob and rotate so the knob indicator aligns with SCBA. SCBA air will now be readily available. Air should flow freely from the end of the combination hose.



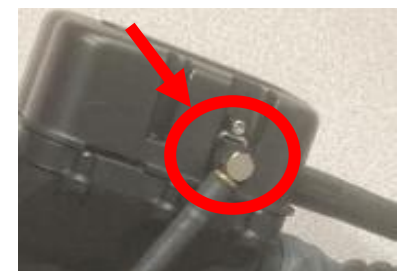
Step 3: Slowly place palm over hose outlet until air completely shuts off.



Step 4: While keeping palm tightly over hose outlet:

- o Listen for audible air leaks from the entire system for 30 seconds (particularly in the airline connection area) —There should be no audible air leaks (audible air leak = failure).

- o Use a spray bottle of soapy (dish detergent) water and spray the Auto Filter Cover airline fitting. Look for bubbles for 30 seconds — There should be no signs of visible bubbles that would indicate an air leak from this fitting (No bubbles = leak tight).



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Step 5: If any air leaks are present at the airline fitting interface (audible or soapy water check), investigate/repair/replace the O-ring at this interface and repeat the leak checks.

Step 6: Close the cylinder valve and allow the system to depressurize.

For assistance, please contact Avon Protection Customer Service:

The Americas

Tel: +1 (888) 286 6440

Email: customerservice@avon-protection.com

Fax: +1 (231) 779 6206

Europe, Middle East, Asia, Africa & Australasia

Tel: +44 (0)1225 896705

Email: protection@avon-protection.com

Fax: +44 (0) 1225 896 301

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ADVANCE WITH CONFIDENCE

Europe, Middle East, Asia, Africa & Australasia

t: +44 (0) 1225 896705

e: protection@avon-protection.com

The Americas

t: +1 888 286 6440

e: customerservice@avon-protection.comavon-protection.com**AVON**
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