

Clarke®

air



AIRLINE FILTER

MODEL NO: CAT184

PART NO: 3120501

OPERATING & MAINTENANCE INSTRUCTIONS

ORIGINAL INSTRUCTIONS

GC0122 - Rev 1

INTRODUCTION

Thank you for purchasing this CLARKE Airline Filter.

Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

Your filter has been designed to give long and trouble free service. If, however, having followed the instructions in this booklet carefully, you encounter problems, take the unit to your local CLARKE dealer.

SPECIFICATIONS

| | CAT184 |
|-------------------------|-------------------|
| Dimensions (D x W x H) | 35 x 40 x 105 mm |
| Air Inlet /Outlet Size | 1/8" BSP (female) |
| Max Flow | 19 CFM |
| Max Inlet Pressure | 150 psi |
| Element Micron Rating | 5μ |
| Max working Temperature | 125 deg F |

GUARANTEE

This product is guaranteed against faulty manufacture for a period of 12 months from the date of purchase. Please keep your receipt which will be required as proof of purchase.

This guarantee is invalid if the product is found to have been abused or tampered with in any way, or not used for the purpose for which it was intended.

Faulty goods should be returned to their place of purchase, no product can be returned to us without prior permission.

This guarantee does not effect your statutory rights.

GENERAL SAFETY RULES



CAUTION: FAILURE TO FOLLOW THESE PRECAUTIONS COULD RESULT IN PERSONAL INJURY, AND/OR DAMAGE TO PROPERTY.

WORK ENVIRONMENT

1. Keep the work area clean and tidy.
2. Dress appropriately - do not wear loose clothing or jewellery. Tie long hair out of the way.
3. Keep children and visitors away - do not let children handle the tools.
4. Do not operate air tools where there are flammable liquids or gases.

USE OF AIRLINE EQUIPMENT

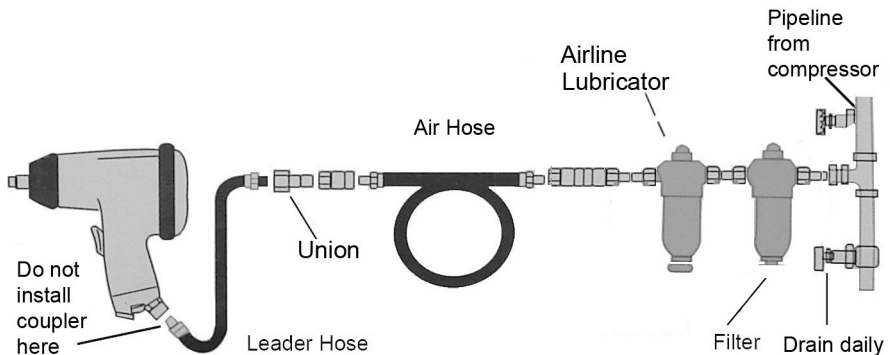
1. Stay alert and use common sense - do not operate an air tool when you are tired or under the influence of alcohol, drugs or medication.
2. Do not overreach - Keep proper footing and balance at all times.
3. Never use oxygen, CO₂, combustible gases or any type of bottled gas as a source of power for air tools.
4. Do not exceed the maximum pressure for the airline component stated in the specification.
5. Check airline hoses for leaks or worn condition before use and ensure that all connections are secure.
6. Keep the air supply hose away from heat, oil and sharp edges.
7. Avoid damaging the component for example by applying excessive force of any kind.
8. Always maintain the air tool with care. Keep it clean for the best and safest performance.

COMPRESSED AIRLINE REQUIREMENTS



WARNING: COMPRESSED AIR CAN BE DANGEROUS. ENSURE THAT YOU ARE FAMILIAR WITH ALL PRECAUTIONS RELATING TO THE USE OF COMPRESSORS AND COMPRESSED AIR SUPPLY.

- Use only clean, dry, regulated compressed air as a power source.
- Air compressors must comply with the appropriate European Community Safety Directives.
- A build-up of moisture in the air compressor will accelerate wear and corrosion in the air tool. Ensure any moisture is drained from the compressor daily and the airline filter is kept clean.
- If an unusually long air hose is required, (over 8 metres), the line pressure or the hose inside diameter may need to be increased.
- The air hose must be rated at least 150% of the maximum operating pressure of the air tool.



- A typical air line layout is shown above. If an automatic in-line filter/regulator is used it will keep the tool in good condition. The lubricator should be adjusted to approx 2 drops per minute and SAE 10 oil should be used.
- Never exceed the maximum operating pressure for the air tool. Ensure that air pressure does not exceed that stated in the specification for the tool when running. Higher pressures and contaminated air will shorten the life of the air tool due to faster wear and is a possible safety hazard.

INSTALLATION



WARNING: COMPRESSED AIR CAN BE DANGEROUS. ENSURE THAT YOU ARE FAMILIAR WITH ALL PRECAUTIONS RELATING TO THE USE OF AIR COMPRESSORS AND COMPRESSED AIR SYSTEMS.

1. Ensure the compressor is turned off and check that the connections used match the maximum pressure of the filter.
 2. Install the filter vertically with the bowl drain mechanism at the bottom, ensuring there is sufficient free space below the filter for future access.
 3. Ensure that the filter is installed with inlet/outlet air flow in the direction of the arrow on the unit. The filter should be installed upstream of regulator(s), lubricator(s), and cycling valve(s) in the air line, and should be as close as possible to the air tool when used as a main line filter and/or as a final filter.
 4. Connect pipes to the inlet and outlet ports using pipe thread sealant tape on male threads only. When screwing pipes together, prevent ingress of shavings and sealant to the interior of the unit. Contaminations in the unit may cause it to fail.
 5. The filter must be installed in such a way that no mechanical force or tension occurs. Keep pipe or tubing lengths to a minimum with the inside clean and free of dirt. Pipe joint compound should be used sparingly and
 6. Remove the blanking plugs from the connection ports and connect to the supply and delivery hoses. Make sure that all connections to the filter are tight and secure.
 7. A drain hose can be screwed to the drain port or the filter bowl drained manually.
 8. Your filter is now ready for use.
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USE AND CARE IN SERVICE

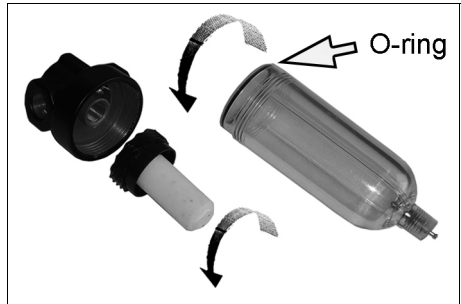
1. Let the filter run with air supply on. Ensure that the pressure to the air inlet of the filter from air line does not exceed the maximum pressure specified in the instructions.
2. The filter is equipped with a manual drain. Depress the drain valve to expel accumulated liquids inside the bowl. Take care to drain the liquids from the bowl whenever necessary and always keep the liquids below the element.

3. The filter element should be replaced when the pressure drop across the element exceeds 15 psi. When an excessive pressure drop across a saturated but uncontaminated element occurs, it may indicate that the tool being operated exceeds the maximum flow rate (CFM) of the filter (See Specifications). Refer to the maximum flow rate of your filter and make sure that the required CFM of the tool is within the maximum flow rate of your filter for best tool operation.

MAINTENANCE

DISASSEMBLY

1. The filter can be disassembled without removal from air line.
2. Shut off the inlet pressure. Reduce the pressure in inlet and outlet lines to zero.
3. Remove the bowl by turning anti-clockwise.
4. Disassemble in general accordance with the parts illustrated on page 7. Do not remove the drain unless replacement is necessary. Remove and replace only if the drain malfunctions or is being replaced with optional automatic drain.



CLEANING

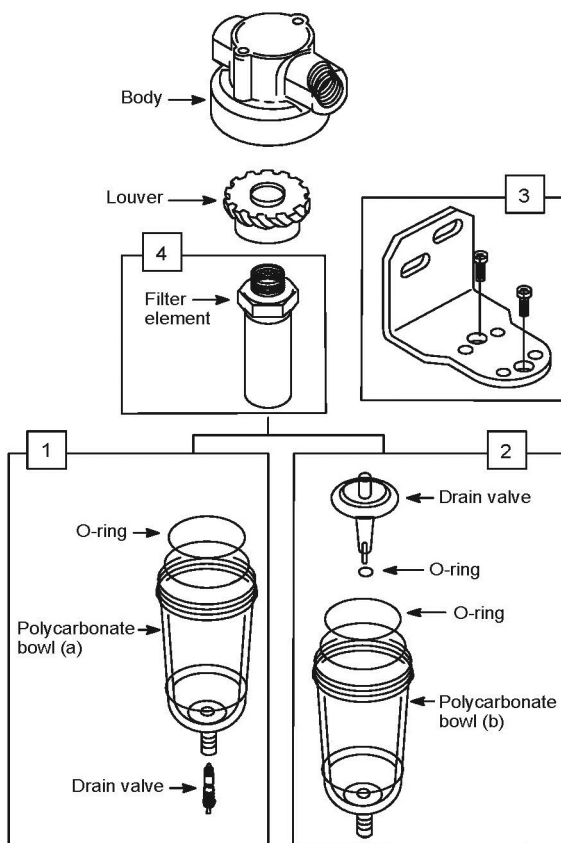
CAUTION: The bowl is made from polycarbonate which can be severely damaged if it comes into contact with some chemicals. These include acetone, benzene, carbon tetrachloride, ethylene di-chloride, gasolene or synthetic fire resistant lubricants.

1. Clean the polycarbonate bowl with warm water. Clean other parts with warm water and soap.
2. Rinse and dry parts. Blow out internal passages in body with clean, dry compressed air. Blow air through the filter element from inside to outside to remove any surface contaminants.
3. Replace any parts found to be damaged. Replace the plastic bowl with a metal bowl if plastic bowl has become cracked or cloudy.

ASSEMBLY

1. Lubricate the o-rings and the lip of the auto drain valve with o-ring grease.
2. Assemble the filter as shown on page 7 ensuring the O-ring is position.

COMPONENT PARTS



| No | Description |
|----|---------------------------------|
| 1 | Poly bowl Assembly-manual drain |
| 2 | Poly bowl Assembly-auto drain |

| No | Description |
|----|---------------------------|
| 3 | Wall bracket |
| 4 | Filter element (5 micron) |

ACCESSORIES

A wide range of accessories is available including filter/regulators, lubricators, high-pressure hoses (5 to 50 metres) etc. Contact your CLARKE dealer for further information or CLARKE International Service Department.

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