



# MICROMIST AIRLINE LUBRICATOR

## MODEL NO: CAT196

PART NO: 3120513

## OPERATING & MAINTENANCE INSTRUCTIONS

ORIGINAL INSTRUCTIONS

GC0122 - Rev 1

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## INTRODUCTION

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Thank you for purchasing this CLARKE Micromist Airline Lubricator.

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 lubricator 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.

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## SPECIFICATIONS

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	CAT196
Dimensions (D x W x H)	73 x 80 x 228 mm
Air Inlet /Outlet Size	1/2" BSP
Max Flow	154 CFM
Max Inlet Pressure	250 psi
Max working Temperature	175 deg F

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## GENERAL SAFETY RULES

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

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## 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, CO<sub>2</sub>, 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.
8. Always maintain the air tool with care. Keep it clean for the best and safest performance.

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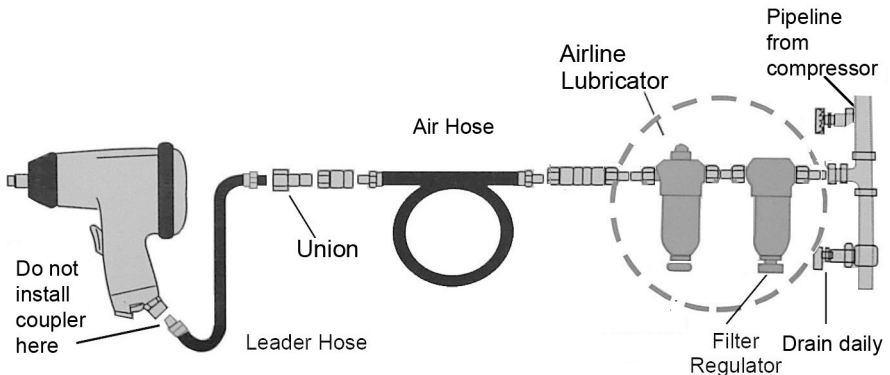
## COMPRESSED AIRLINE REQUIREMENTS

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

A typical air line layout is shown below. 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.



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.

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.

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## INSTALLATION

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1. Ensure the compressor is turned off and any airline pressure relieved.
2. Remove the blanking plugs from the connection ports and connect to the supply and delivery lines.
3. Keep pipe lengths to a minimum with the inside clean. Pipe joint compound should be used sparingly and applied only to the male pipe — never into the female port.
4. Do not use PTFE tape to seal pipe joints — pieces have a tendency to break off and lodge inside the unit, possibly causing malfunction. Also a new pipe or hose should be installed between the lubricator and the equipment being protected.
5. Install the lubricator so that air flows as marked by the arrow on the lubricator body.
6. Installation should be downstream of any filter and regulator but upstream of the device it is to lubricate (valve, cylinders, air tool, etc). A filter installed upstream of the lubricator is recommended.
7. Install the lubricator vertically with the bowl drain at the bottom. Free moisture will thus drain into the bottom of the bowl where it can be drained off using the tap via a screw-on hose if available.
8. Ensure sufficient free space above the lubricator for future adjustments and topping up with fresh oil.
9. Your lubricator is now ready for use.

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## FILLING AND ADJUSTMENT

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1. Ensure that the pressure to the air inlet of the lubricator from air line does not exceed the maximum pressure specified in the instructions.
2. Shut off inlet air pressure and reduce the inlet and outlet lines to zero. Remove the bowl and fill oil. Use good quality, light, misting type of oil for air-powered tool/motor.
3. Fill the oil to the maximum fill line on the bowl, and oil level should always be visible in the lens on the metal bowl. DO NOT OVERFILL.
  - NOTE: The oil fill plug seals easily. Tighten finger-tight only.
  - NOTE: Do not remove the fill plug when the reservoir is pressurized, as oil will blow out of the fill plug hole.
4. Turn on the air line system to obtain the required pressure to the lubricator.
5. Adjust the lubricator drip rate only when there is a constant rate of air flow through the lubricator. Monitor the drip rate through the sight feed dome.
6. Determine the average rate of air flow through the lubricator. Turn the slotted rotator in the sight feed dome to obtain the recommended drops per minute. See Drip Rate Chart. Turn the rotator anti-clockwise to increase the drip rate or clockwise to decrease the drip rate.
7. Monitor the device being lubricated for a few days following the above drip rate adjustment and see how well the device works, then determine whether the drip rate at the lubricator should be adjusted for higher or lower level.
8. NEVER apply lubricated compressed air to run a spray gun, since paint mixed with oil will spoil the finish of workpiece being sprayed.

### DRIP RATE CHART

Flow (CFM)	Drops per minute
5	10
10	11
20	13
30	15
40	17
50	19

Flow (CFM)	Drops per minute
60	22
70	24
80	26
90	28
100	30

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# MAINTENANCE

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## DISASSEMBLY

1. The lubricator can be disassembled without removal from air line.
2. Shut off the inlet pressure. Reduce pressure in inlet and outlet lines to zero.
3. Remove the bowl by turning counterclockwise.
4. Disassemble in general accordance with the parts illustrated on page 7.
5. Do not remove the drain valve unless replacement is necessary. Remove and replace only if the drain malfunctions. Remove and replace cartridge assembly only if lubricator malfunctions.

## CLEANING

1. Clean the plastic bowl with warm water only. Clean other parts with warm water and soap.

**CAUTION: Certain components may be 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, gasoline or synthetic fire resistant lubricants.**

2. Rinse and dry all parts. Blow out internal passages in the body with clean, dry, compressed air.
3. Inspect all parts and replace any found to be damaged.

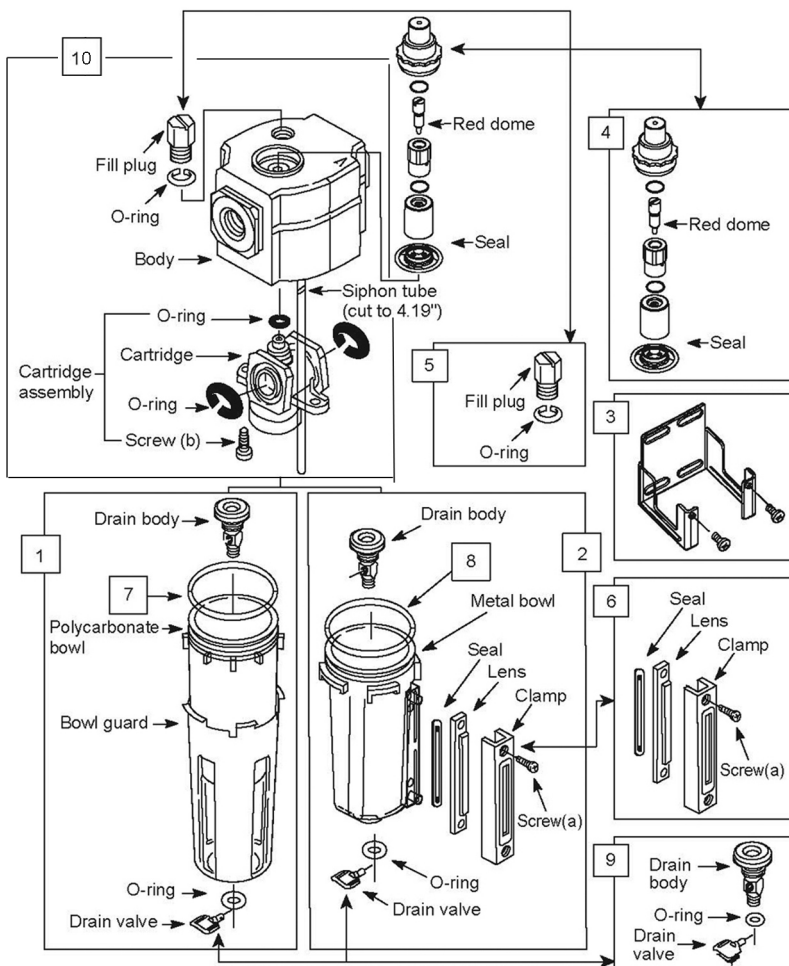
## ASSEMBLY

1. Lubricate o-rings, the portion of the manual drain body that contacts the bowl, and the hole in the manual drain body that accommodates the stem of drain valve with o-ring grease.
2. Assemble as shown on page 7 using the torque values listed in the table.

Torque Settings	
Part	Inch Pounds (Nm)
Screw (a)	15 to 20 (1.7 to 2.3)
Screw (b)	10 to 14 (1.1 to 1.6)
Fill plug	10 to 14 (1.1 to 1.6)
Dome	20 to 25 (2.3 to 2.8)

3. Push the bowl into the body and turn fully clockwise.

# PARTS LIST & DIAGRAM



No	Description
1	Polycarbonate bowl assembly
2	Metal bowl assembly
3	Universal wall bracket
4	Oil adjusting dome assembly
5	Oil Fill plug & O-ring

No	Description
6	Sightglass kit
7	O-ring for polycarbonate bowl
8	O-ring for metal bowl
9	Manual drain kit
10	Main body assembly

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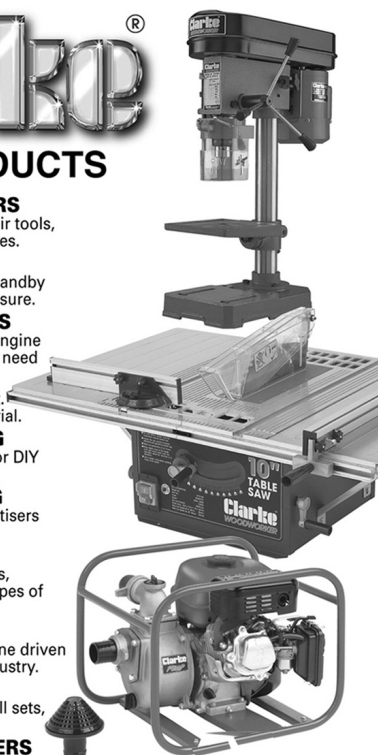
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## Guarantee

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 without prior permission.

This guarantee does not affect you statutory rights.

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