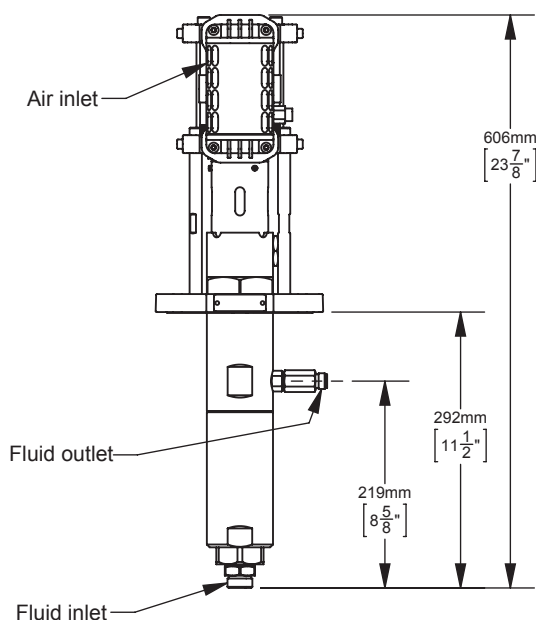
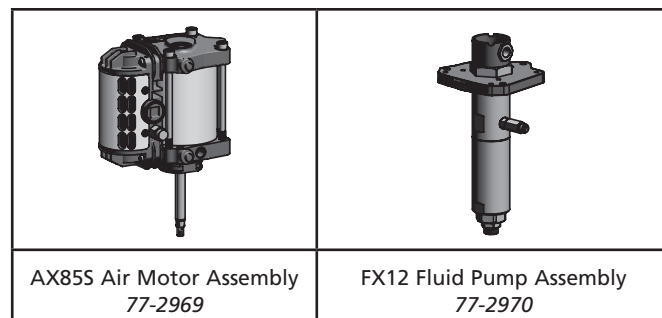
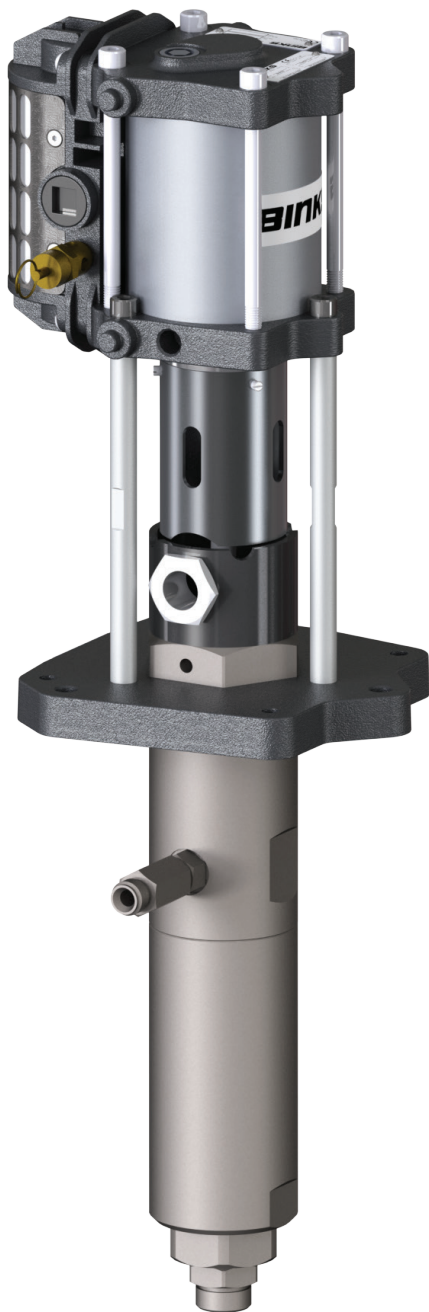


MX1212 BARE PUMP ASSEMBLIES

Models:
MX1212PL (PTFE/LEATHER CHEVRONS),
MX1212PP (PTFE CHEVRONS),
MX1212PU (PTFE/UHMW CHEVRONS),
MX1212UC (U-CUPS)
Patent 7,603,855



SPECIFICATIONS	
Ratio:	12:1
Maximum air inlet pressure:	8 bar [116 psi]
Maximum fluid pressure:	96 bar [1390 psi]
Displacement per cycle:	72 cc [2.4 oz]
Output @ 60 cycles/min:	4.3 L/m [1.2 gal/m]
Air consumption @ 20 cycles/min and 8 bar [116 psi] air inlet pressure:	147 LPM [5.2 SCFM]
Maximum recommended continuous cycle rate:	20 cycles/min
Air inlet connection:	3/8" BSP(f)
Fluid inlet connection:	3/4" NPS(m)
Fluid outlet connection:	3/8" BSP(m) and 3/8" NPS(m)
Sound level:	96.2 dB
Weight:	13 kg [28.4 lbs]

In this part sheet, the words **WARNING**, **CAUTION** and **NOTE** are used to emphasize important safety information as follows:

WARNING

Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.

CAUTION

Hazards or unsafe practices which could result in minor personal injury, product or property damage.

NOTE

Important installation, operation or maintenance information.

WARNING

Read the following warnings before using this equipment.



READ THE MANUAL

Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.



OPERATOR TRAINING

All personnel must be trained before operating finishing equipment.



EQUIPMENT MISUSE HAZARD

Equipment misuse can cause the equipment to rupture, malfunction, or start unexpectedly and result in serious injury.



LOCK OUT / TAG-OUT

Failure to de-energize, disconnect, lock out and tag-out all power sources before performing equipment maintenance could cause serious injury or death.



AUTOMATIC EQUIPMENT

Automatic equipment may start suddenly without warning.



PRESSURE RELIEF PROCEDURE

Always follow the pressure relief procedure in the equipment instruction manual.



KEEP EQUIPMENT GUARDS IN PLACE

Do not operate the equipment if the safety devices have been removed.



KNOW WHERE AND HOW TO SHUT OFF THE EQUIPMENT IN CASE OF AN EMERGENCY



WEAR SAFETY GLASSES

Failure to wear safety glasses with side shields could result in serious eye injury or blindness.



INSPECT THE EQUIPMENT DAILY

Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.



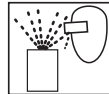
NEVER MODIFY THE EQUIPMENT

Do not modify the equipment unless the manufacturer provides written approval.



NOISE HAZARD

You may be injured by loud noise. Hearing protection may be required when using this equipment.



PROJECTILE HAZARD

You may be injured by venting liquids or gases that are released under pressure, or flying debris.



PINCH POINT HAZARD

Moving parts can crush and cut. Pinch points are basically any areas where there are moving parts.



STATIC CHARGE

Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or electric shock and other serious injury.



WEAR RESPIRATOR

Toxic fumes can cause serious injury or death if inhaled. Wear a respirator as recommended by the fluid and solvent manufacturer's Safety Data Sheet.



TOXIC FLUID & FUMES

Hazardous fluid or toxic fumes can cause serious injury or death if splashed in the eyes or on the skin, inhaled, injected or swallowed. LEARN and KNOW the specific hazards or the fluids you are using.



FIRE AND EXPLOSION HAZARD

Improper equipment grounding, poor ventilation, open flame or sparks can cause a hazardous condition and result in fire or explosion and serious injury.



MEDICAL ALERT

Any injury caused by high pressure liquid can be serious. If you are injured or even suspect an injury:

- Go to an emergency room immediately.
- Tell the doctor you suspect an injection injury.
- Show the doctor this medical information or the medical alert card provided with your airless spray equipment.
- Tell the doctor what kind of fluid you were spraying or dispensing.



GET IMMEDIATE MEDICAL ATTENTION

To prevent contact with the fluid, please note the following:

- Never point the gun/valve at anyone or any part of the body.
- Never put hand or fingers over the spray tip.
- Never attempt to stop or deflect fluid leaks with your hand, body, glove or rag.
- Always have the tip guard on the spray gun before spraying.
- Always ensure that the gun trigger safety operates before spraying.

**CA PROP
65**

PROP 65 WARNING

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE OPERATOR OF THE EQUIPMENT. FOR FURTHER SAFETY INFORMATION REGARDING THIS EQUIPMENT, SEE THE GENERAL EQUIPMENT SAFETY BOOKLET (77-5300).

Binks reserves the right to modify equipment specification without prior notice.

! WARNING



HIGH PRESSURE CAN CAUSE SERIOUS INJURY IF EQUIPMENT IS INSTALLED OR USED INCORRECTLY—READ, UNDERSTAND, AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS MANUAL.

INSTALL, OPERATE OR SERVICE THIS EQUIPMENT ONLY AFTER ALL INSTRUCTIONS ARE CLEARLY UNDERSTOOD.

It is the responsibility of the employer to place this information into the hands of the operator.

! WARNING

Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.

! CAUTION

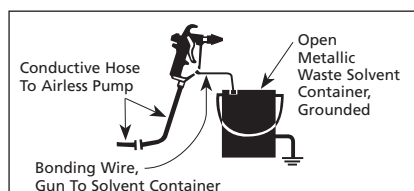
Hazards or unsafe practices which could result in minor personal injury, product or property damage.

NOTE

Important installation, operation or maintenance information.

AVOID STATIC SPARKING

1. Use Binks **NO-WIRE** conductive hose in all airless spraying operations. Be sure the gun and hose have continuity.
2. Make sure the pump is grounded. **NEVER** operate the unit when it is on a non-grounded platform.
3. When flushing or cleaning with a combustible solvent, always use an open metallic container for receiving the waste solvent. Ground the solvent receptacle.
4. **ALWAYS** remove spray tip when flushing the system. Operate the pump at the lowest possible pressure.



GENERAL WARNINGS

1. **NEVER** leave a pressurized sprayer unattended.
2. Periodically inspect all hoses for leaks and/or abrasions and tighten all connections before use. **DO NOT ATTEMPT TO REPAIR** a defective hose. **REPLACE** it with another conductive hose.
3. **ALWAYS** relieve pressure in the system by turning bypass valve to **BYPASS** or triggering spray gun before disassembly of any component parts.

CAUTION

Never store de-ionized, distilled, reverse osmosis or any pure grade of water in the pump. These fluids may cause corrosion.

NOTE

BINKS is not responsible for misapplication of pumps. Consult your BINKS representative for application assistance.

NOTE

Be sure that all fluids, solvents and fillers to be used are chemically and physically compatible with wetted parts in the pump. Consult your BINKS representative for pump materials of constructions and compatibility information. Consult the fluid manufacture for information regarding the fluids to be used.


REPLACEMENT PARTS

The pump is designed to use authorized parts only. When using this pump with parts that do not comply with the minimum specifications and safety devices of Binks, the user assumes all risks and liabilities.

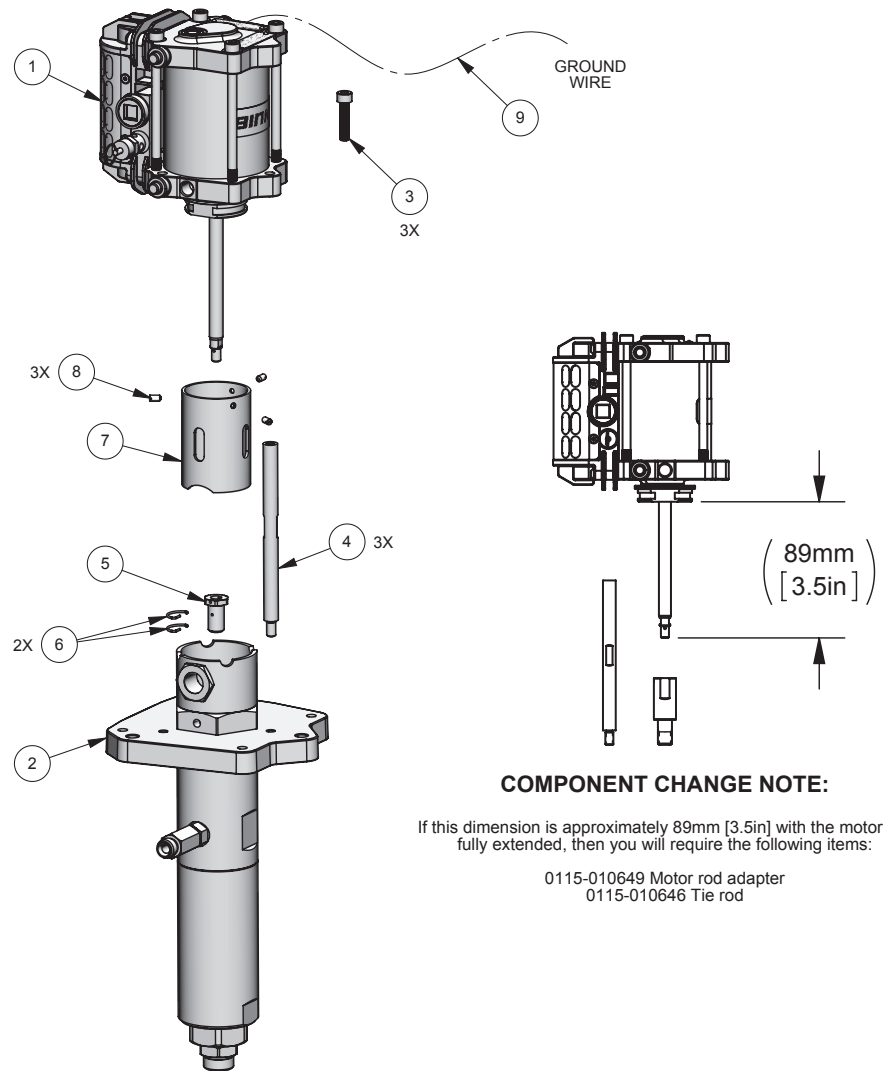
! WARNING

EXCESSIVE AIR PRESSURE

Can cause personal injury, pump damage or property damage. Do not exceed maximum inlet air pressure as stated on motor model plate.

HAZARD	CAUSE	SAFEGUARDS
<p>EXPLOSION</p> 	<p>STATIC ELECTRICITY</p> <p>Use of this equipment in a potentially explosive atmosphere.</p> <p>Vapors from flammable liquids can catch fire or explode from static electricity discharges.</p>	<ol style="list-style-type: none"> 1. If installing this equipment in a potentially explosive atmosphere, check the ATEX equipment category and temperature ratings meet the requirements for the zoned area. 2. Check electrical continuity of the air supply to earth — should be no greater than $10^6 \Omega$. 3. Electrically bond all metallic equipment to earth. Should be no greater than 1Ω.
<p>SPECIAL CONDITIONS FOR SAFE USE REQUIRED BY ATEX CERTIFICATION</p>	<p>Over pressurization of equipment can cause equipment failure or injury.</p> <p>Use lubricating medium resistant to carburisation.</p> <p>Improper operation or maintenance may create a hazard.</p>	<ol style="list-style-type: none"> 1. Do not exceed the stated maximum working pressures and motor speed as specified in this manual. 2. Only a suitably approved static dissipating or conductive air supply hoses shall be attached to the equipment and terminated to the air supply. 3. Air supplies (compressors, etc.) shall be sited in a non-hazardous area with a filter on the air intake system to prevent the ingress of dust or similar foreign material into the parts where compression takes place. 4. Use lubricating medium resistant to carburisation and has an auto ignition temperature of more than 185°C for T4 equipment. 5. User shall ensure all metallic parts of the equipment are suitably bonded to earth. Should be no greater than 1Ω.

MX1212 BARE PUMP ASSEMBLIES

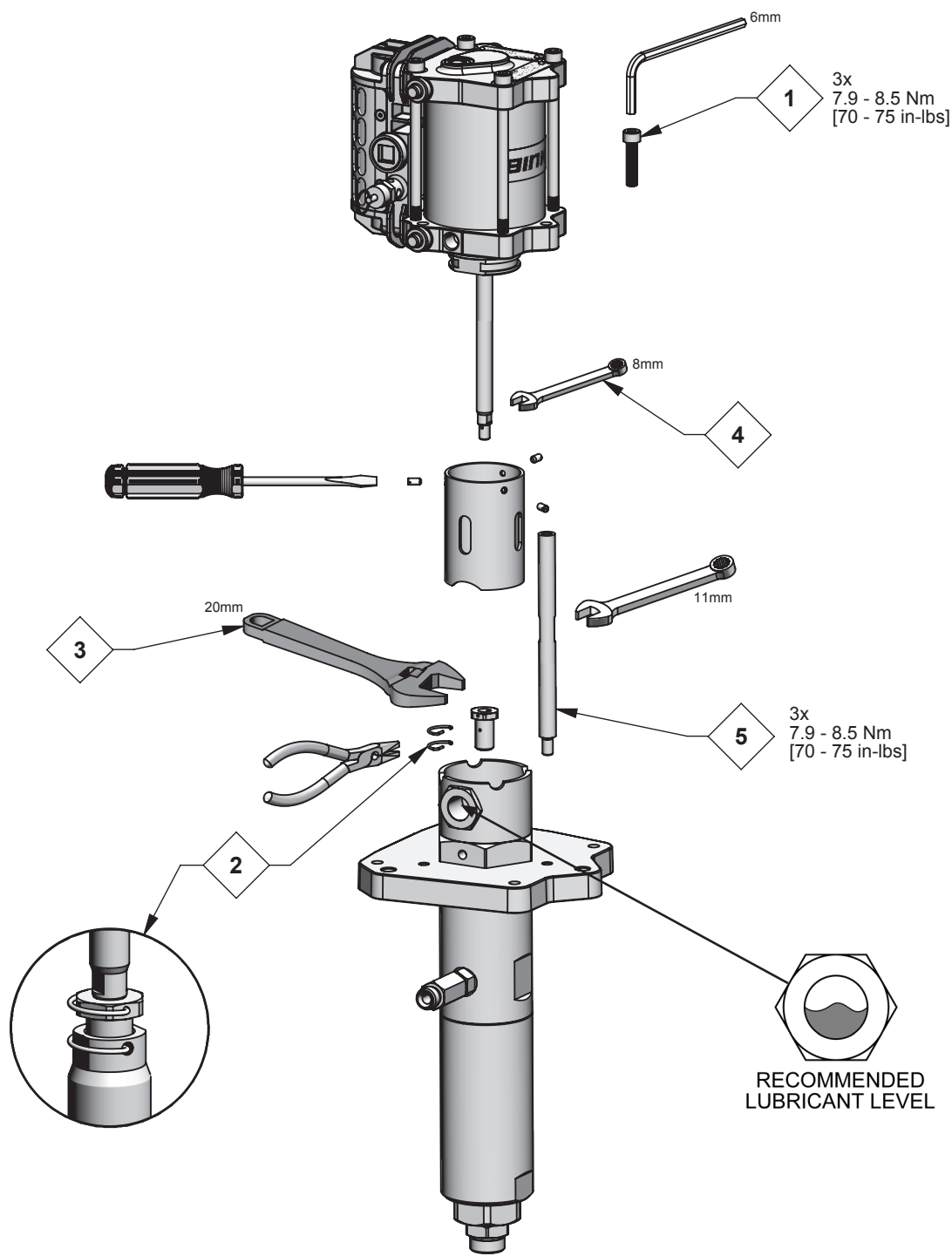


ITEM NO.	PART NUMBER	DESCRIPTION	MX1212PL QTY.	MX1212PP QTY.	MX1212PU QTY.	MX1212UC QTY.	SERVICE MANUAL
1	AX85S	AX85S AIR MOTOR ASSEMBLY	1	1	1	1	77-2969
2	FX12PL	FX12 FLUID SECTION ASSEMBLY (PTFE/LEATHER)	1	–	–	–	77-2970
	FX12PP	FX12 FLUID SECTION ASSEMBLY (PTFE)	–	1	–	–	
	FX12PU	FX12 FLUID SECTION ASSEMBLY (PTFE/UHMW)	–	–	1	–	
	FX12UC	FX12 FLUID SECTION ASSEMBLY (U-CUPS)	–	–	–	1	
3	0115-010001 ▲	SOCKET HEAD CAP SCREW	3	3	3	3	
4	0115-010725	TIE ROD	3	3	3	3	
5	0115-010159	MOTOR ROD ADAPTER	1	1	1	1	
6	0115-010113 •	LOCKING CLIP	2	2	2	2	
7	0115-010655	GUARD	1	1	1	1	
8	166001	SLOTTED SET SCREW	3	3	3	3	
9	0114-016243	GROUND WIRE KIT	1	1	1	1	

• Part not sold separately. Available in repair kits: 0115-010305, 0115-010307, 0115-010309, and 0115-010387.

▲ Part not sold separately. Available in AX85 Hardware kit: 0115-010213.

MX1212 BARE PUMP ASSEMBLIES – MAINTENANCE

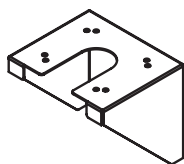


MAINTENANCE SYMBOLS	
#	MAINTENANCE ORDER (Reverse for assembly)

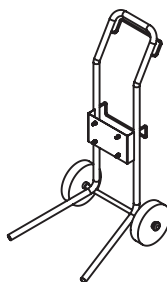
MX1212 BARE PUMP ASSEMBLIES – TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Pump will not start	No compressed air. Spray tip is blocked.	Check compressed air supply. Clean or replace the spray tip.
Erratic operation of air motor, air motor stops	Worn poppet assemblies. Worn or dirty spool and sleeve assembly.	Replace the poppet assemblies. Clean or replace the spool and sleeve assembly, as necessary.
Continuous air leak from the exhaust	Worn poppet assemblies. Worn piston seal. Worn diaphragm.	Replace poppet assemblies. Replace piston seal. Replace diaphragm.
Material in solvent cup	Worn or dirty upper packings.	Replace or clean upper packings as necessary.
Pump does not stop on the down stroke	Worn or dirty lower ball check.	Replace or clean the parts as necessary.
Pump does not stop on the up stroke	Worn or dirty upper ball check. Worn or dirty lower packings.	Replace or clean the parts as necessary.
Pump runs erratically	Blocked siphon kit. Blocked inlet filter or strainer. Low material level.	Replace or clean the siphon kit. Replace or clean the inlet filter or strainer. Replace or refill material container.
Pump runs, with no output	Loose connection in between pump and siphon kit. Stuck lower ball.	Check that all connections are tight. Replace or clean the parts as necessary.

ACCESSORIES FOR YOUR MX1212 BARE PUMP



BRACKET
0115-010179



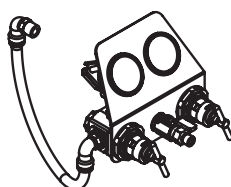
TROLLEY ASSEMBLY
0115-010186
Service Bulletin 77-2917



LUBRICATING OIL FOR
FX-12 FLUID PUMP
0114-009433 (Solvent Based Materials)
0114-014871 (Water Based Materials)



SIPHON KITS
41-17262 (5 GAL)
0115-010381 (55 GAL)
Service Bulletin 77-2917



AIR CONTROLS
0115-010180 (Air Assist)
Service Bulletin 77-2917



FLUID FILTER (100 MESH)
0115-010326
FLUID FILTER (200 MESH)
0115-010630
Service Bulletin 77-2917

NOTES

WARRANTY POLICY

Binks products are covered by Carlisle Fluid Technologies one year materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Carlisle Fluid Technologies, will void all warranties. For specific warranty information please contact the closest Carlisle Fluid Technologies location listed below.

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