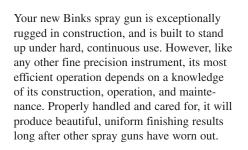


Binks Model 7[™] SPRAY GUN

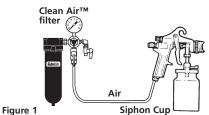
(6100-XXXX-X)



TYPES OF INSTALLATION

SIPHON FEED CUP HOOKUP

Air pressure for atomization is regulated at extractor. The amount of fluid is adjusted by fluid control screw on gun, viscosity of paint, and air pressure (see figure 1).



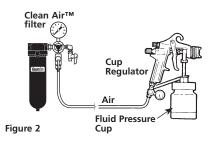
rigure i

PRESSURE FEED CUP HOOKUP

For fine finishing with limited spraying.

Air pressure for atomization is regulated at extractor; fluid pressure at cup regulator. For heavy fluids and internal mix nozzle spraying, fluid adjusted by control screw on gun.

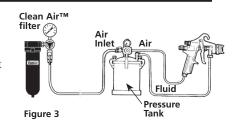
Pressure cup also available less regulator (see figure 2).





For medium production spraying (single regulator).

Air pressure for atomization is regulated at extractor, fluid pressure at tank regulator (see figure 3).



PRESSURE FEED TANK HOOKUP

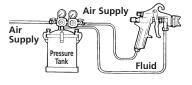
For portable painting operations (double regulator).

Air pressure for atomization and fluid supply is regulated by two individual air regulators on tank (see figure 4).

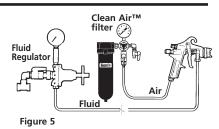
PRESSURE FEED CIRCULATING HOOKUP

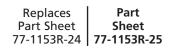
For heavy production spraying.

Air pressure atomization regulated at extractor. Fluid pressure regulated at fluid regulator (see figure 5).











BINKS

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.

A CAUTION

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

WARNING

Read the following warnings before using this equipment.

NOTE

Important installation, operation or maintenance information.



READ THE MANUAL

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



NEVER MODIFY THE EQUIPMENT

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



WEAR SAFETY GLASSES

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



DE-ENERGIZE, DEPRESSURIZE, DISCONNECT AND LOCK OUT ALL POWER SOURCES DURING MAINTENANCE Failure to De-energize, disconnect and lock out all power supplies before performing equipment maintenance could cause serious injury or death.



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.



KEEP EOUIPMENT GUARDS IN PLACE Do not operate the equipment if the safety devices have been removed.



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.



AUTOMATIC EQUIPMENT Automatic equipment may start suddenly without warning.



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.



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



PRESSURE RELIEF PROCEDURE Always follow the pressure relief procedure in the equipment instruction manual.



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



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.



Never use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in equipment with aluminum wetted parts. Such use could result in a serious chemical reaction, with the possibility of explosion. Consult your fluid suppliers to ensure that the fluids being used are compatible with aluminum parts.



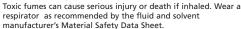
TOXIC FLUID & FUMES

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.



WEAR RESPIRATOR

reproductive harm.





PROP 65 WARNING WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other



FOR FURTHER SAFETY INFORMATION REGARDING BINKS AND DEVILBISS EQUIPMENT. SEE THE **GENERAL EQUIPMENT SAFETY BOOKLET (77-5300).**

Binks MODEL 7[™] SPRAY GUN

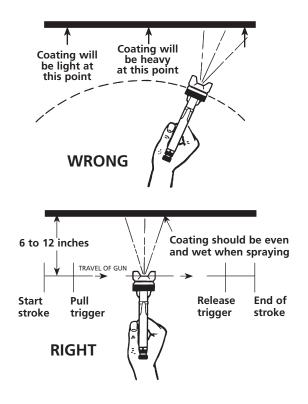
GUN HANDLING

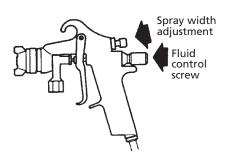
The first requirement for a good resultant finish is the proper handling of the gun. The gun should be held perpendicular to the surface being covered and moved parallel with it. The stroke should be started before the trigger is pulled and the trigger should be released before the stroke is ended. This gives accurate control of the gun and material.

The distance between gun and surface should be 6 to 12 inches depending on material and atomizing pressure. The material deposited should always be even and wet. Lap each stroke over the preceding stroke to obtain a uniform finish.

NOTE

To reduce overspray and obtain maximum efficiency, always spray with the lowest possible atomizing air pressure.





Spray width adjustment: Turn clockwise for round, counterclockwise for fan.

Fluid control screw: Turn clockwise to decrease flow, counterclockwise to increase flow.

As width of spray is increased, more material must be allowed to pass through the gun to obtain the same coverage on the increased area. The spray pattern of the Binks gun is variable from round to flat with all patterns in between.

SIPHON SPRAYING

spray if necessary.

Set atomization pressure at approximate-

fine, reduce the air pressure or open fluid

control screw. If the spray is too coarse,

close the fluid control screw. Adjust the

pattern width and repeat adjustment of

ly 50 PSI for lacquer and 60 PSI for

enamel. Test spray. If the spray is too

In normal operation, the wings on the nozzle are horizontal as illustrated here.



This provides a vertical fan shaped pattern which gives maximum coverage as the gun is moved back

and forth parallel to the surface being finished.

PRESSURE SPRAYING

After selecting correct size fluid orifice, set fluid pressure for desired flow. Open atomization air and test spray. If spray is too fine, reduce air pressure. If spray is too coarse, raise air pressure. Adjust pattern width and repeat adjustment of spray.

Keeping fluid control screw in open position will reduce fluid needle wear.



To reduce overspray and obtain maximum efficiency, always spray with the lowest possible atomizing air pressure.

3



FAULTY PATTERNS AND HOW TO CORRECT THEM

PATTERN	CAUSE	CORRECTION			
	Dried material in side-port "A" restricts passage of air. Greater flow of air from cleaner side-port "B" forces fan pattern in direction of clogged side.	Dissolve material in side-ports with thinner, then blow gun clean. Do not poke into openings with metal instruments.			
	Dried material around the outside of the fluid nozzle tip at position "C" restricts the passage of atomizing air at one point through the center opening of air nozzle and results in pattern shown. This pattern can also be caused by a loose air nozzle.	Remove air nozzle and wipe off fluid tip using rag wet with thinner. Tighten air nozzle.			
	A split spray or one that is heavy on each end of a fan pattern and weak in the mid- dle is usually caused by: (1) Too high an atomization air pressure (2) Attempting to get too wide a spray pat- tern with thin material.	Reducing air pressure will correct cause (1). To correct cause (2), open material control to full position by turning to left. At the same time, turn spray width adjustment to right. This will reduce width of spray, but will correct split spray pattern.			
	 (1) Dried out packing around material needle valve permits air to get into fluid passageway. This results in spitting. (2) Dirt between fluid nozzle seat and body or loosely installed fluid nozzle will make gun spit. (3) A loose or defective swivel nut on siphon cup or material hose can cause spitting. 	To correct cause (1) back up knurled nut (E), place two drops of gun lube on packing, replace nut and tighten with fingers only. In aggravated cases, replace packing. To correct cause (2), remove fluid nozzle (F), clean back of nozzle and nozzle seat in gun body using rag wet with thinner, replace nozzle and draw up tightly against body. To correct cause (3), tighten or replace swivel nut.			



Binks MODEL 7[™] SPRAY GUN GENERAL MAINTENANCE

SPRAY GUN

- 1. Immerse only the front end of the gun until solvent just covers the fluid connection.
- 2. Use a bristle brush and solvent to wash off accumulated paint.
- 3. Do not submerge the entire spray gun in solvent because:
 - a. the lubricant in the leather packings will dissolve and the packings will dry out.
 - b. the lubricant at wear surfaces will dissolve causing harder operation and faster wear.
 - c. residue from dirty solvent may clog the narrow air passages in the gun.
- 4. Wipe down the outside of the gun with solvent-dampened rag.
- 5. Lubricate gun daily. Use a light machine oil on:
 - a. fluid needle packing.
 - b. air valve packing.
 - c. side port control packing.
 - d. trigger pivot point.

Coat the fluid control spring with vaseline.

A CAUTION

Never use lubricants containing silicone since these lubricants can cause finish defects.

NOTE

All parts on a spray gun should be screwed in hand tight at first; this will avoid the possibility of cross threading the parts. If the parts can not be turned by hand easily, make sure you have the correct parts, unscrew, realign, and try again. NEVER use undue force in mating parts.

AIR NOZZLE, FLUID NOZZLE, NEEDLE

- 1. All nozzles and needles are precision made. They should be handled with care.
- 2. Do not make any alterations in the gun. To do so could cause finishing difficulties.
- 3. To clean nozzles, soak them in solvent to dissolve any dried material, then blow them clean with air.
- 4. Do not probe any of the holes in the nozzles with metal instruments. If probing is necessary, use only a tool that is softer than brass.

POINTERS ON CLEANING

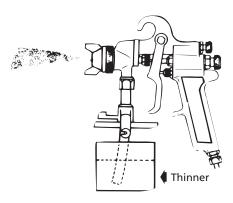
When Used With Siphon Cup

A compatible thinner or solvent should be siphoned through gun by inserting tube in open container of that liquid. Trigger gun repeatedly to flush passageway thoroughly and to clean tip of needle.

When local codes prohibit spraying of thinner or solvent, use a gun washer to clean spray guns.

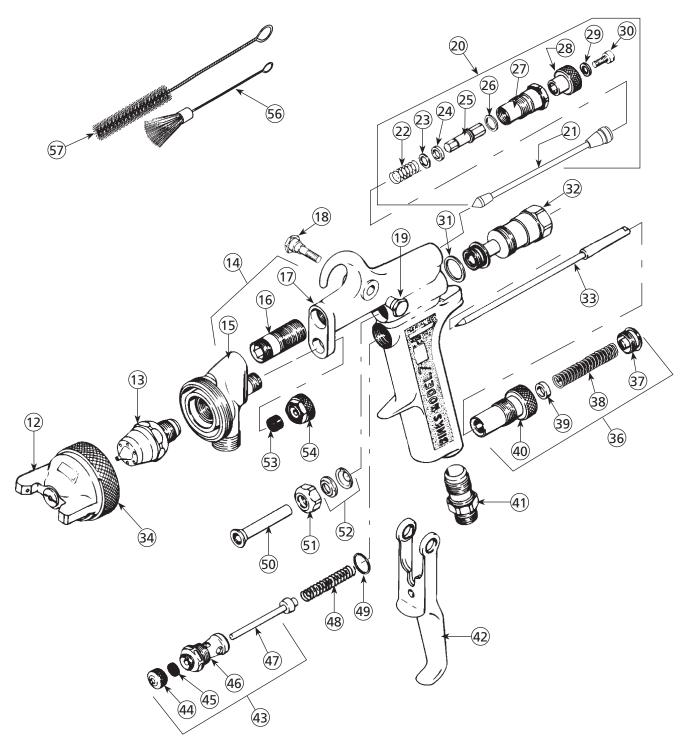
When Used With Pressure Tank

Shut off air supply to tank and release pressure on tank. Open vent and loosen air nozzle. Hold a piece of cloth over the air nozzle and squeeze trigger. Air will back up through fluid nozzle, and force fluid out of hose into tank. Next, put enough thinner into tank to wash hose and gun thoroughly. Spray thinner through the gun until it is clean. Attach fluid hose to air line and blow it out thoroughly to remove all traces of materials and to dry it.





Binks MODEL 7[™] SPRAY GUN



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PARTS LIST

When ordering, please specify Part No.

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
12	*	AIR NOZZLE	. 1	36	54-724★	FLUID CONTROL ASSEMBLY	. 1
13	*	FLUID NOZZLE	. 1	37	54-725•	SCREW	. 1
14	54-706•	HEAD AND BODY ASSEMBLY	. 1	38	54-728-5∎□●	SPRING (Kit of 5)	. 1
15	54-707 ★	HEAD	. 1	39	54-727•	RING	. 1
16	54-710 ★	SCREW	. 1	40	54-726•	BODY	. 1
17	54-711•	BODY	. 1	41	54-768 ★	CONNECTION	. 1
18	54-759★	SCREW Trigger	. 1	42	54-753★	TRIGGER	. 1
19	54-760 ★	STUD Trigger	. 1	43	54-1341	AIR VALVE ASSEMBLY	. 1
20	54-729 ★	SIDE PORT CONTROL ASSEMBLY	. 1	44	54-1340	NUT	. 1
21	54-730★	STEM	. 1	45	54-747-5∎●□	PACKING (Kit of 5)	. 1
22	54-736∎●	SPRING	. 1	46	54-751 ★	BODY	. 1
23	54-737★●	WASHER	. 1	47	54-744∎★	STEM	. 1
24	54-738-5∎∙□	PACKING (Kit of 5)	. 1	48	54-750-5∎□●	SPRING (Kit of 5)	. 1
25	54-735★	SPINDLE	. 1	49	54-749-5∎●□	GASKET (Kit of 5)	. 1
26	54-739∎★	GASKET	. 1	50	54-718 ★	SLEEVE	. 1
27	54-734★	HOUSING	. 1	51	54-721★	RETAINER	. 1
28	54-740★	KNOB	. 1	52	54-722-5∎●□	WIPER (Kit of 5)	. 2
29	54-742•	WASHER	. 1	53	2-28-5∎●□	PACKING (Kit of 5)	. 1
30	—	SCREW	. 1	54	54-765★	NUT	. 1
31	54-723-5∎●□	GASKET (Kit of 5)	. 1	55	73-165♦	WRENCH Gunhead (Optional)	. 1
32	54-717 ★	HOUSING	. 1	56	OMX-88	BRUSH	. 1
33	**	NEEDLE VALVE	. 1	57	82-469	BRUSH	. 1
34	†	RING	. 1				

* When ordering, please specify number stamped on nozzle.

** When ordering, please specify number stamped on needle stem.

† Furnished with nozzle. See Nozzle Chart.

Available in Repair Kit 6-188. Please order separately.

• Items **NOT** available separately.

• Optional. Please order separately.

 \Box Available only as a quantity pack.

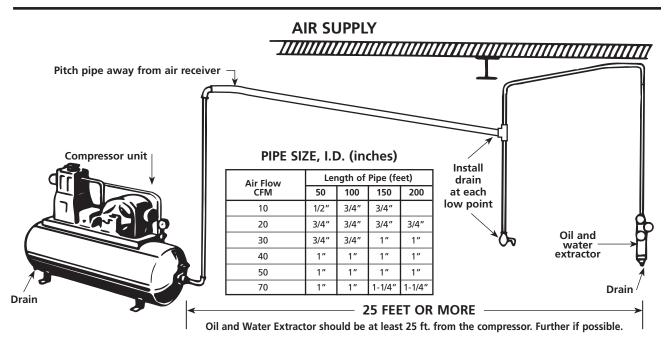
 \bigstar Available from Binks distributors only.

54-839 Heavy Duty Spring (Optional).

TYPE OF FLUID VISCOSITY TO BE SPRAYED	FLUID x AIR NOZZLES	NOZZLE TYPE ††	30 PSI	CFM AT 50 PSI	- 70 PSI	MAX. PATTERN AT 8"	FLUID+ NEEDLE	AIR NOZZLE RETAINING RING
THIN								
Sealers, Lacquers, Primers, Stains, Zinc Chromates, Lubricants	36SS x 36SD	SE	7.8	11.5	_	10.0"	36	**
MEDIUM		SE SE					36 36	** **
Lacquers, Enamels, Varnishes, Shellacs, Primers, Epoxies, Urethanes, Lubricants	36SS x 36SD 36SS x 36SK			11.5 15.7		10.0" 13.0"		
MEDIUM HEAVY								
House Paint, Multicolors, Wrinkles	38SS x 38PM	PE	9.3	14.9	20.0	10.0"	38	**
 PE Pressure feed, external mix. SE Siphon feed, external mix. * Not furnished with nozzle. Please order separately. ** Furnished with nozzle. All needles are stainless steel. 		FLUID NOZZLE		3655	3855	6100-1808-9		36SS x 36SD
		ORIFICE SIZE		.070	.086		-1809-2	36SS x 36SK
						6100	-2111-5	38SS x 38PM

NOZZLE AND NEEDLE SELECTION CHART

7



The Clean Air™ filter should not be mounted on or near the air compressor.

The temperature of air is greatly increased during compression. As the air cools down to room temperature, in the air line, on its way to the spray gun, the moisture contained in it condenses. Thus, for maximum effectiveness, the oil and water extractor should be mounted at some point in the air supply system where the temperature of the compressed air in the line is likely to be lowest.

Air lines must be properly drained.

Pitch all air lines away from the compressor so that condensed moisture can be drained off. Each low point in an air line acts as a water trap. Such points should be fitted with an easily accessible drain. See diagram above.

AIR PRESSURE

Air pressure at the gun is important.

Atomizing pressure must be set to allow for the drop in air pressure between the regulator and the spray gun.



Only 44 PSI

25 feet of 1/4" I.D. hose causes a drop of 16 PSI between the air supply and the gun.



Only 55 PSI

25 feet of 5/16" I.D. hose has a drop of only 5 PSI. For this reason we recommend the use of 5/16" hose.



Cross section view showing comparison of inside hose diameters (actual size). 60 lbs. regulated pressure



1/4'

A DeVilbiss Clean Air™ filter is important.

A Clean AirTM filter serves a double purpose. It eliminates blistering and spotting by keeping air free from oil and water... and its precision air regulator makes possible perfect air pressure control at the gun.



The best spray gun in the world will not operate efficiently without a good compressor and a Clean AirTM filter. Model HFRL-508 is recommended.

If you are attempting to get a fine finish without the use of a Clean AirTM filter you will not succeed.

WARRANTY

This product is covered by Binks' 1 Year Limited Warranty.

Binks Sales and Service: www.binks.com



U.S.A./Canada Customer Service 195 Internationale Blvd. Glendale Heights, IL 60139 630-237-5000 Toll Free Customer Service and Technical Support 800-992-4657 Toll Free Fax 888-246-5732

77-1153R-25 Revisions: (P6) Revised exploded view.