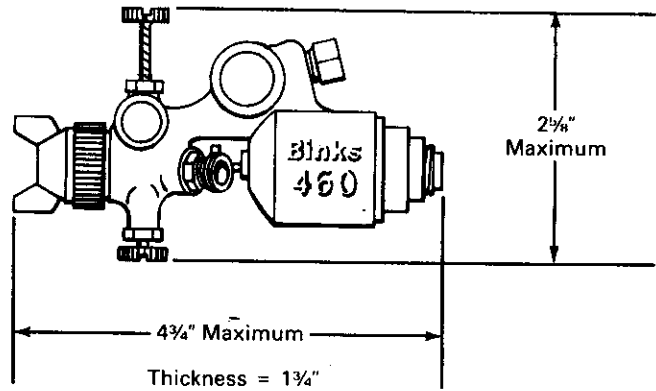
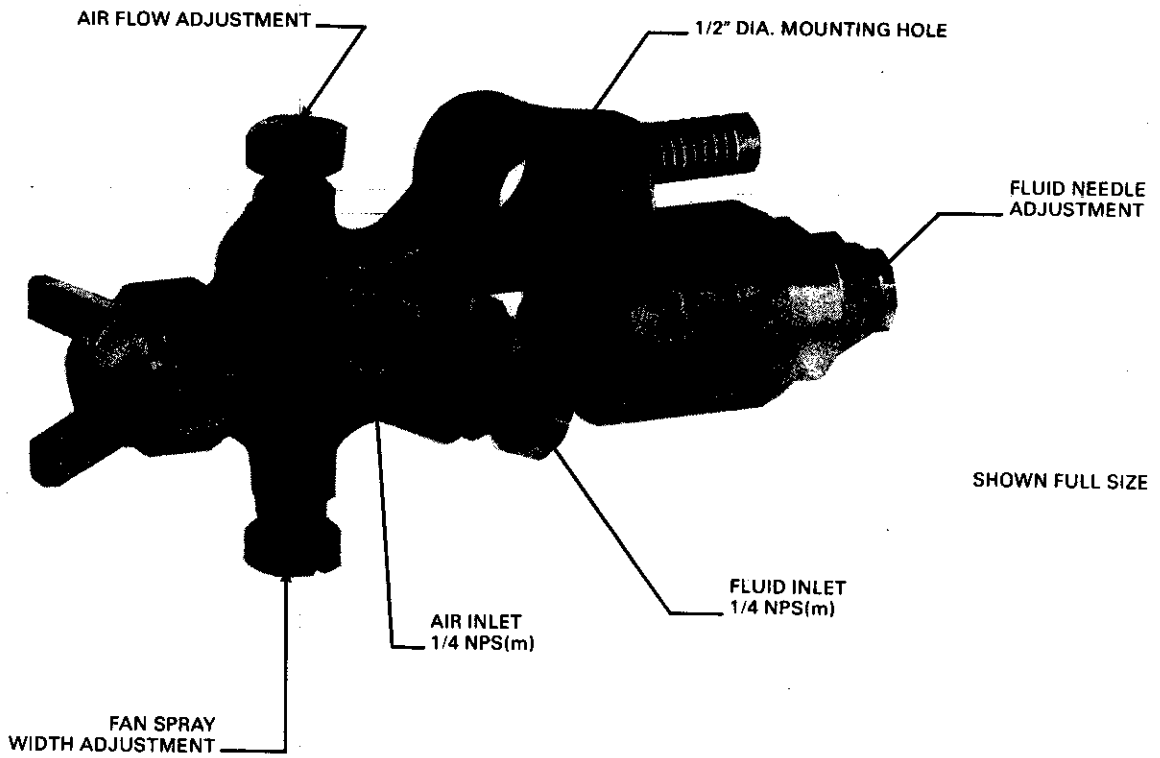


# Binks MODEL 460 LIGHTWEIGHT AUTOMATIC SPRAY GUN



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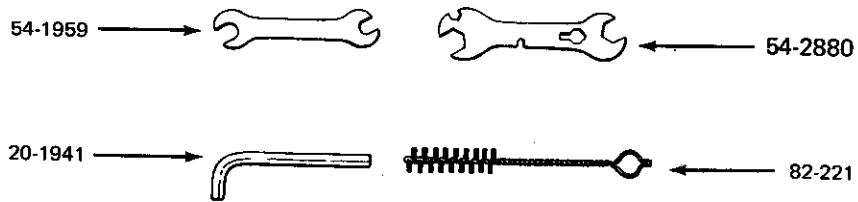
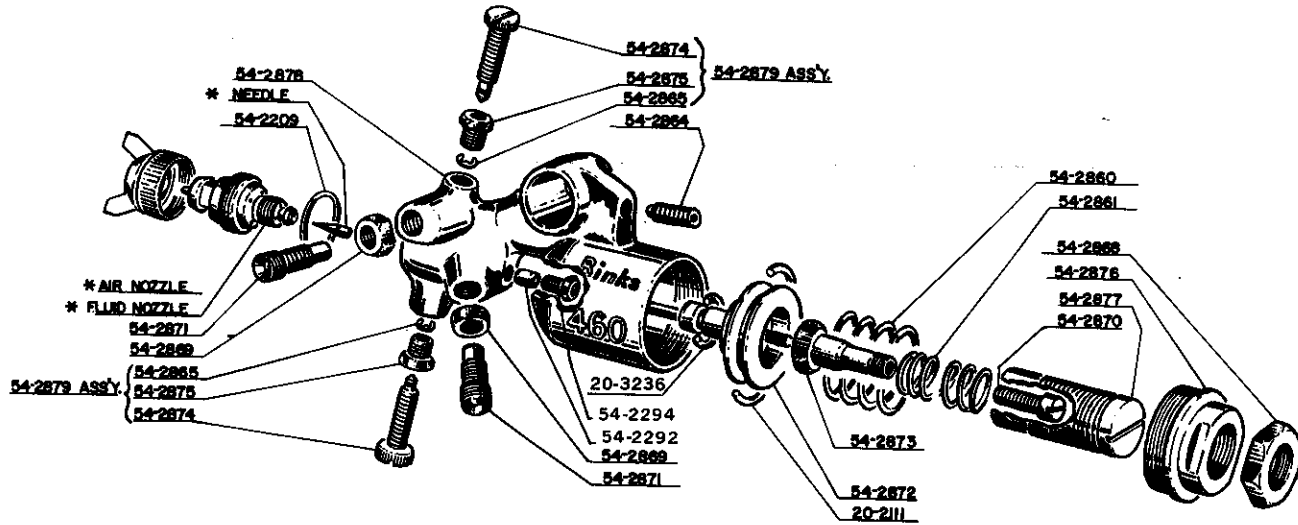


MANUFACTURING COMPANY  
9201 West Belmont Avenue, Franklin Park, Illinois 60131

Replaces  
Part Sheet  
2019R-1

Part Sheet  
2019R-2

# Binks MODEL 460 LIGHTWEIGHT AUTOMATIC SPRAY GUN



## PARTS LIST

PART NO.	DESCRIPTION	QTY.	PART NO.	DESCRIPTION	QTY.
*	AIR NOZZLE	1	54-2868	LOCKNUT	1
*	FLUID NOZZLE	1	54-2869	LOCKNUT	2
*	NEEDLE ASS'Y	1	54-2870	SCREW	1
20-1941	WRENCH	1	54-2871	CONNECTOR	2
20-2111	"O" RING	1	54-2872	PISTON	1
20-3236	"O" RING	1	54-2873	SPIGOT	1
54-1959	SPANNER WRENCH	1	54-2874	SCREW	2
54-2209	GASKET	1	54-2875	BUSHING	2
54-2292	PACKING	1	54-2876	COVER	1
54-2294	SCREW	1	54-2877	SCREW	1
54-2860	SPRING	1	54-2878	BODY	1
54-2861	SPRING	1	54-2879	SIDE PORT CONTROL	2
54-2864	SCREW	1	54-2880	SPANNER WRENCH	1
54-2865	CIRCLIP	2	82-221	GUN BRUSH	1

# Binks MODEL 460 LIGHTWEIGHT AUTOMATIC SPRAY GUN

## Instructions for Installation, Operation, and Maintenance

### Gun Mounting

A Hexagon Screw 54-2864 will secure the Spray Gun to the 54-380 Gun Mounting Rod. Note: For special mountings, a 1/2" dia. rod will fit the hole in the top of the gun body.

### Hose Length

Install minimum hose length from valve to gun to minimize time required for "off-on" response of gun.

### Connections

The Air Connection and Fluid Connection are both 1/4 NPS. The air connection is stamped "A".

### Air Supply

Since the gun has its own control, atomizing air may be taken directly from the main line. However, if regulated air is used, 50 PSI minimum is required to actuate gun fluid valve piston.

When rapid "off-on" operation is required, use a 3-way valve which exhausts to atmosphere, in place of a 2-way valve.

### Spray Pattern

The width of spray pattern is controlled by the 54-2879 Control Assembly (See photo on Page 1 for its location). Vertical or horizontal position of the fan spray is obtained by rotating the Air Nozzle.

### Atomization

Air volume to the nozzle is controlled by the 54-2879 Control Assembly located adjacent to the Air Inlet Connection.

### Fluid Control

The rate of fluid flow is controlled by a combination of the selection of the correct nozzle orifice size and adjustment of fluid pressure. The maximum fluid flow rate is approximately 8 fluid ounces per minute. Fine adjustment of the fluid flow can be obtained by controlling the travel of the needle valve. Clockwise rotation of the

54-2877 Screw decreases the needle travel and counter clockwise rotation increases the travel. The 54-2868 Locknut is used to lock the 54-2877 Screw after adjustment.

### Faulty Spray

Caused by improper cleaning, or dried fluid on nozzle tip or in the Air Nozzle. Soak these parts in solvent to soften the dried fluid and remove with brush or cloth. Never use metal instruments to clean air, or fluid nozzles. These parts are carefully machined and any damage to them will cause a faulty spray. If either Air Nozzle or Fluid Nozzle is damaged, the part must be replaced before a perfect spray can be obtained.

### Spitting

To eliminate spitting and dripping, turn on atomizing air before turning on fluid.

### Needle Adjustment

The correct setting is to allow approximately 1/16" piston travel before contacting NEEDLE. Adjustment is made by loosening the 54-2870 Screw on rear of needle and rotating the 54-2873 Spring Guide either forward to reduce or back to increase clearance.

### Air Leakage thru Air Cylinder Vent

Remove 54-2872 Piston—inspect for dirt or damage to 20-2111 "O" Ring (large ring). Clean Piston and Cylinder. Replace "O" Ring if necessary. Lubricate with white petroleum jelly.

### Air Leakage at Fluid Needle

Remove 54-2872 Piston. Inspect for dirt or damage to 20-3236 "O" Ring (small ring). Replace if necessary.

### Fluid Leakage at Packing Gland

Tighten 54-2867 Screw and slightly "Back-off" screw to set packing. If leakage continues replace packing.

### Cleaning the Gun

Under no circumstances should the complete gun be immersed in thinners or solvents.

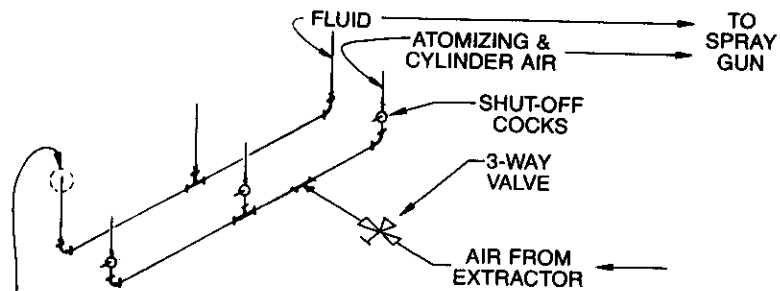
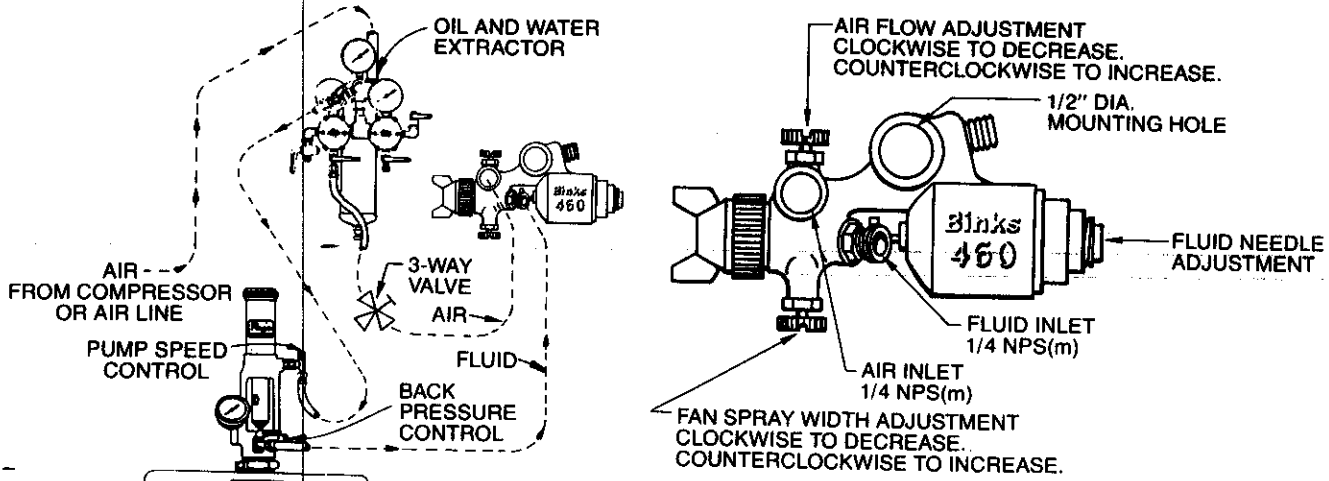
### NOZZLE SELECTION CHART

Use	Fluid Nozzle †	Orifice Size	Air Nozzle		Type of Nozzle	Spray * Width	Needle Size & Number
			<del>Siphon</del>	Pressure			
Small Precise Pattern	D920	.020	—	D90P	Fan	**	940
General Purpose	J920	.020	<del>J91P</del>	<del>J91P</del>	<del>Fan</del>	<del>10"</del>	<del>940</del>
	J930	.030	<del>J92S</del>	J92P	Fan	9"	940
	J940	.040	J92R	J92R	Round	2" Dia.	940
	<del>K960</del>	<del>.060</del>	<del>K91S</del>	<del>K91P</del>	<del>Fan</del>	<del>11"</del>	<del>960</del>
	<del>K960</del>	<del>.060</del>	<del>K92S</del>	<del>K91R</del>	<del>Round</del>	<del>2" Dia.</del>	<del>960</del>
	K960	.060	K92S	K92P	Fan	9"	960

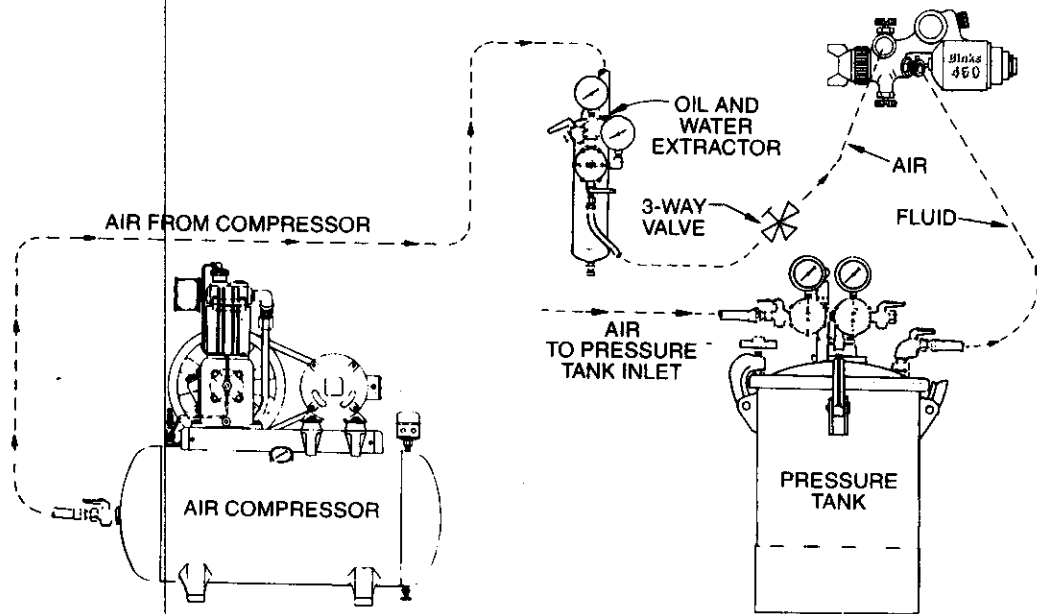
\* General purpose nozzle spray widths measured at 7 inches from surface being sprayed.  
 \*\* Spray width adjustable from a very fine "pencil" line at 3/4 inches from surface to a maximum of approximately 1 1/4 inches wide at 3 inches from surface. Ideal for precise spray applications.

"R" Indicates round spray pattern only.  
 Patterns based on viscosity of 18 seconds, Ford No. 4 cup. Pattern may vary with different fluids and viscosities. Air and Fluid nozzles with same prefix letter are interchangeable.  
 Air volume requirements: 3 to 5 CFM.  
 † Stainless steel fluid nozzles available. When ordering, add suffix SS to fluid nozzle number.

**Binks MODEL 460 LIGHTWEIGHT AUTOMATIC SPRAY GUN**  
**General Arrangement Diagram and Hook-up**



FOR MULTIPLE GUN SET-UP A FLUID MANIFOLD MAY BE USED. ADJUST FLUID FLOW WITH CONTROL SCREW ON EACH GUN. FOR MORE PRECISE FLUID CONTROL, USE A FLUID REGULATOR.



Revision: Added lubricating note.

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