



Binks Model 21 AUTOMATIC SPRAY GUN (Brass Body)



PARTS LIST

When ordering, please specify Part No.

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	*	NOZZLE Air	1	23	54-329•	WASHER Side Port Control	1
2	*	NOZZLE Fluid	1	24	54-330•	SPRING Side Port Control	1
3	**	NEEDLE STEM ASSEMBLY	1	25	54-331	PIN Side Port Control.....	1
4	54-232	LOCKNUT Plunger	1	26	54-332•	FOLLOWER Side Port Control	1
5	54-233	WASHER Plunger	1	27	54-333	SIDE PORT CONTROL Complete	1
6	54-236	SPRING Plunger	1	28	54-334	FOLLOWER Packing	1
7	54-261•	PLUNGER Leather.....	1	29	54-335	SCREW Set.....	1
8	54-302	GLAND Packing	1	30	54-336	BODY Brass	1
9	54-304•	SPRING Packing Follower	1	31	54-337	VALVE Air	1
10	54-306	NUT Air Packing	1	32	54-542	LOCKNUT Front	1
11	54-307•	PACKING Air	1	33	54-728	SPRING Needle Valve	1
12	54-308	CONNECTION Air	2	34	54-738•	PACKING Side Port Control.....	1
13	54-310•	PACKING Air Valve	1	35	54-763	LOCKNUT Rear	1
14	54-312	GUIDE Air Valve	1	36	54-764•	PACKING Needle Valve	1
15	54-317	LOCKNUT Front	1	37	54-765	NUT Packing	1
16	54-319	LOCKNUT Rear	1	38	54-918•	GASKET Fluid Nozzle	1
17	54-321	BONNET	1	39	54-1224	RING	1
18	54-322	SCREW Fluid Control	1	40	54-1583	BASE	1
19	54-323	LOCKNUT FLUID CONTROL.....	1	41	54-1584	RING	1
20	54-324	WASHER Fluid Control Locknut	1	42	54-2065	RING	1
21	54-326	BODY Side Port Control	1	43	82-221	BRUSH Cleaning (Not Shown)	1
22	54-327	STEM Side Port Control	1				

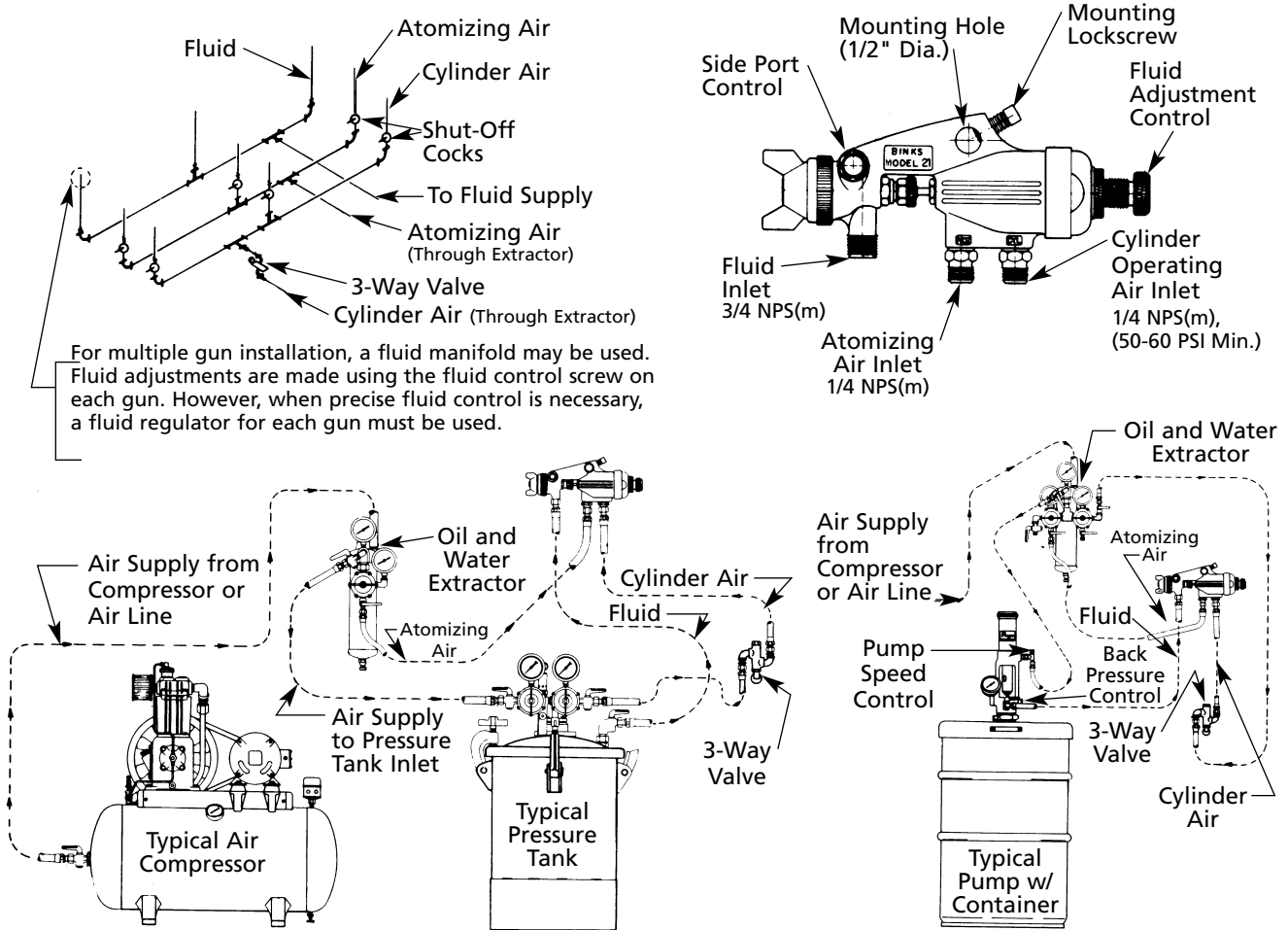
*When ordering, please specify number stamped on nozzle. See pages 3 and 4.

**When ordering, please specify gun model and number stamped on needle. See page 4.

•Parts also available in Repair Kit 6-191.

Gun wrench, 5-476 is recommended for removing fluid nozzle. Please order separately.

Binks Model 21 (Brass Body) AUTOMATIC SPRAY GUN General Arrangement Diagram and Hook-Up



1. Provide 50-60 PSI (minimum) air pressure for gun cylinder operation.
2. Air line from gun to 3-way valve should be as short as possible for maximum speed of operation.
3. Recommended hose sizes are 3/8" for fluid and 1/4" for air.

HOOK-UP

1. Air pressure of 50-60 PSI minimum required for cylinder operation.
2. For rapid operation, the air line between three-way valve and the cylinder operating air connection should be as short as possible.
3. All air supplied to the gun should be dirt and moisture-free. An oil and water extractor mounted in the air supply line is recommended.
4. If the gun is to stand idle for any length of time, shut off. This will prevent small leaks throughout the system from turning on the gun.

FAN SPRAY ADJUSTMENTS

The fan spray is easily controlled by means of the side port control stem, (22). Turning this control to the right, or clockwise, will give a round spray pattern. Turning it to the left, or counter-clockwise, will widen the spray into a fan shape of any desired width. Orientation of the fan spray either horizontally or vertically (or to any position in between) is obtained by loosening the retainer ring,

rotating the air nozzle to the desired position, and then tightening the retainer ring.

FLUID FLOW ADJUSTMENTS

For best results, the fluid control screw (18) should be set at the open position and the flow of the fluid controlled by regulating the fluid pressure in the pressure tank. If the conditions under which the gun is being used require the fluid to be controlled at the gun, it may be accomplished by loosening locknut (19) and turning screw (18) to the right (clockwise) to decrease the flow of fluid or the left (counter-clockwise) to increase the flow of fluid.

NEEDLE VALVE ADJUSTMENTS

To adjust the needle valve, first remove bonnet (17). The needle is adjusted by loosening locknut (16) and turning locknut (15) until it is about 1/16" from the air valve assembly when the air valve (31) is all the way forward and seated in the gun body, and the needle is seated in the fluid nozzle.

Binks Model 21 (BRASS BODY) AUTOMATIC SPRAY GUN (Continued)

LUBRICATION

The points that require lubrication on this gun are the plunger (7), the air valve packing (11), and the fluid packing (36). These parts should be kept soft and pliable at all times. A light machine oil is recommended for this lubrication.

⚠ CAUTION

Never submerge the gun in solvent. Solvent will wash the oil off the lubricated parts and cause subsequent malfunctioning of the gun.

CLEANING

Shut off the air supply to the tank and release its pressure. Hold a piece of wadded cloth over the gun nozzle and turn on the air to the cylinder. The air will back up through the fluid nozzle and force fluid out of the hose and into the tank.

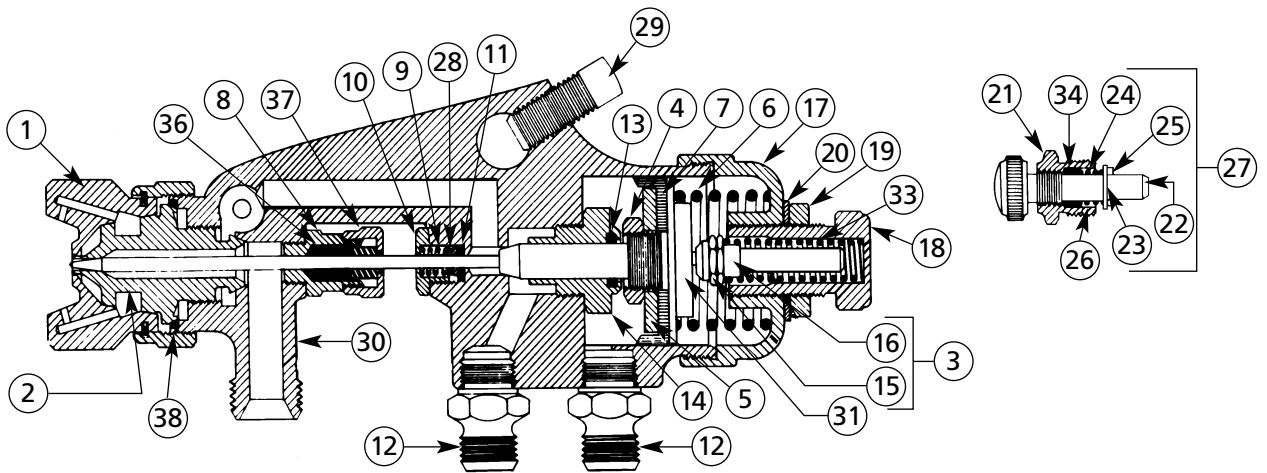
Replace the paint in the pressure tank with clean solvent and spray the solvent through the gun until it is clean. Dry out the residual solvent in the fluid hose by blowing air through it.

FAULTY SPRAY

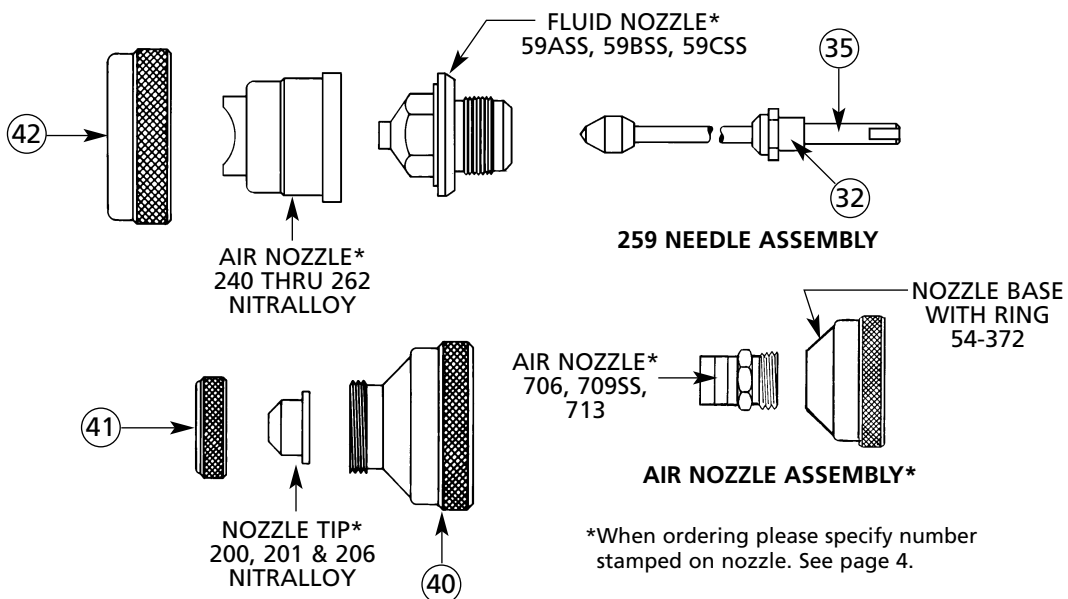
Faulty spray is caused by dry coating material residue around the fluid nozzle tip or inside the air nozzle. Soak these parts in a solvent that will soften the dried residue until it can be removed with a brush or a cloth.

⚠ CAUTION

Never use metal probes to clean the air or fluid nozzles because scratches and burns on their precision machined surfaces can cause faulty spray. If either the air or fluid nozzle is damaged so as to give faulty spray, it must be replaced.



INTERNAL MIX HEAVY MATERIAL NOZZLES (OPTIONAL)



NOZZLE AND NEEDLE SELECTION CHARTS

TYPE OF FLUID TO BE SPRAYED	FLUID X AIR NOZZLES	NOZZLE TYPE	CFM AT			MAX. PATTERN AT 8"	FLUID NEEDLE NOS. FOR SPRAY GUN MODEL 21
			30 PSI	50 PSI	70 PSI		
VERY THIN 14-16 secs. Zahn 2 Cup Wash primers, dyes, stains, solvents, water, inks	63ss x 63P	PE	4.5	7.5	10.0	5	263
	63Bss x 63PB	PE	9.0	14.3	20.0	14	263A
	66ss x 66SD	SE	7.9	12.1	—	10.5	265
	66ss x 66SK	SE	11.0	15.2	19.5	13	265
	63Bss x 200	PI	3.1	5.2	6.4	12	263A
THIN 16-20 secs. Zahn 2 Cup Sealer, lacquers, primers, inks, lubricants, zinc chromates, acrylics	63Ass x 63P	PE	5.1	8.37	12.2	11	263A
	63Bss x 63PE	PE	9.5	15.0	20.0	13	263A
	66ss x 66SK	SE	11.0	15.2	19.5	13	265
	63Bss x 200	PI	3.1	5.2	6.4	12	263A
MEDIUM 19-30 secs. Zahn 2 Cup Synthetic enamels, varnishes, shellacs, fillers, primers, epoxies, urethanes, lubricants, wax emulsions, enamels	63Bss x 63PB	PE	9.0	14.3	20.0	14	263A
	63Css x 63PE	PE	9.5	15.0	20.0	13	263A
	66ss x 66SD	SE	7.9	12.1	—	11	265
	66ss x 66SK	SE	11.0	15.2	19.5	13	265
	63Css x 200	PI	3.1	5.2	6.4	12	263A
HEAVY (Cream-like) Over 28 secs. No. 4 Ford Cup	67ss x 67PB	PE	9.5	14.9	19.5	12	267
	68ss x 68PB	PE	9.5	14.1	19.1	12	268
	67ss x 206	PI	6.0	9.5	13.0	15	267
VERY HEAVY Texture coatings, Road marking paint	68ss x 68PB	PE	9.5	14.1	19.1	12	268
	68ss x 206	PI	6.2	9.8	13.2	15	268
	59Ass x 244	PI	7.8	11.5	15.2	12	259
	59Ass x 245	PI	7.8	11.5	15.2	6	259
	59Bss x 251	PI	7.8	11.5	15.2	12	259
	59Bss x 252	PI	7.8	11.5	15.2	6	259
	59Css x 262	PI	7.3	11.0	14.7	6	259
	68ss x 206	PI	6.2	9.8	13.2	15	268
ADHESIVES Waterbase white vinyl glues Solvent base, neoprenes (contact cement)	63Bss x 66SD-3	PE	7.9	12.1	16.2	4	263
	67ss x 67PB	PE	9.5	14.1	19.1	12	267
	66ss x 66SD-3	PE	7.9	12.1	16.2	10	--
CERAMICS Similar abrasive materials, glazes, engobes, porcelain enamel	67VT x 67PD	PE	10.0	15.0	20.0	15	267VT
	68VT x 68PB	PE	9.5	14.1	19.1	12	268VT
BUFFING COMPOUNDS	64VT x 64PA	PE	12.1	15.0	21.0	13	264VT
	67VT x 67PD	PE	10.0	15.0	20.0	15	267VT
CONCRETE CURING COMPOUNDS	66ss x 200	PI	3.1	5.2	6.4	15	265
	67ss x 206	PI	6.0	9.5	13.0	18	267
	68ss x 206	PI	6.2	9.8	13.2	20	268
MULTICOLOR PAINTS	66ss x 200	PI	3.1	5.2	—	12	265
	67ss x 206	PI	6.0	9.5	—	15	267
TEFLONS	63Ass x 63PB	PE	9.0	14.3	20.1	10	263A
	66ss x 66SD	PE	7.9	12.1	—	7	265
HAMMERS	63ss X 63PB	PE	9.0	14.3	—	14	263A
	66ss X 63PB	PE	9.0	14.3	—	14	265
	66ss X 66SD	PE	7.9	12.1	—	7	265
WRINKLE ENAMELS	63Css x 63PB	PE	9.0	14.3	20.0	10	263A
	66ss x 63PB	PE	9.0	14.3	20.0	10	265
ZINC RICH COATINGS	66ss x 67PD	PE	12.0	18.0	24.0	15	--
	67VT x 67PB	PE	9.5	14.1	19.1	12	267VT

Note: PE - Pressure External SP - Siphon External PI - Pressure Internal

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1143R-16 Revisions: Updated graphic standards, reset all type, updated all "Cautions", "Warnings" and "Notes" to new style; (P1) new product photograph, (P4) updated contact information.

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