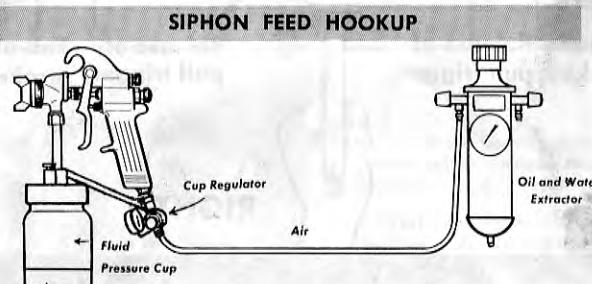
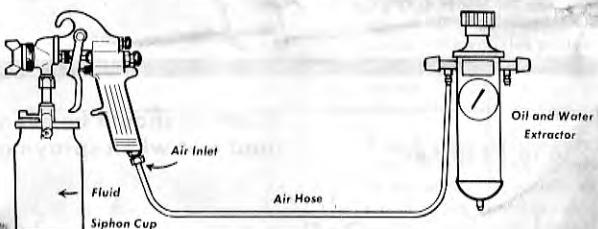
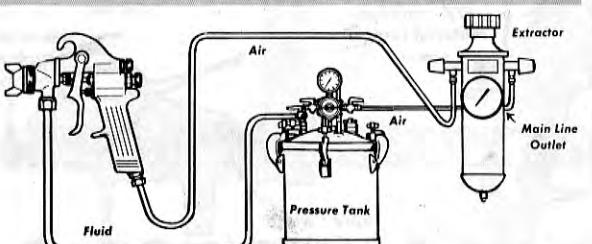


Operating Instructions For Binks Spray Guns

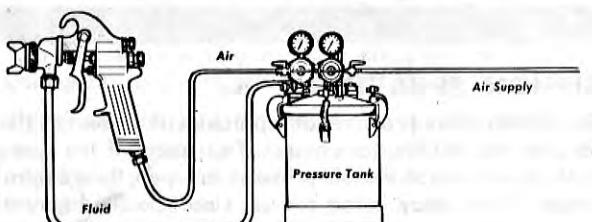
Your new Binks Spray Gun is exceptionally rugged in construction, and is built to stand up under hard, continuous use. However, like any other fine precision instrument, its most efficient operation depends on a knowledge of its construction, operation and maintenance. Properly handled and cared for, it will produce beautiful, uniform finishing results long after most other spray guns have worn out.



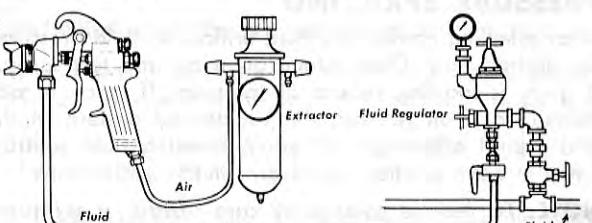
PRESSURE FEED CUP HOOKUP



PRESSURE FEED TANK HOOKUP



PRESSURE FEED TANK HOOKUP



PRESSURE FEED CIRCULATING SYSTEM HOOKUP



**Parts
Sheet 1155R**

1. INSTALLATIONS

SIPHON FEED HOOKUP

For limited spraying and touch-up.

Atomization air is regulated at extractor. Amount of fluid and atomization is adjusted by fluid control screw on gun, consistency of paint and air pressure.

PRESSURE FEED CUP HOOKUP

Atomization air is regulated at extractor. Fluid pressure at cup regulator. Atomization air passes through cup regulator. This method is ideal for fine finishing with limited spraying.

Pressure cup also available less cup regulator.

Fluid pressure equal to atomization pressure. For heavy fluids and internal mix nozzle spraying, fluid adjusted by control screw on gun.

PRESSURE FEED TANK HOOKUP

(Single regulator)

Atomization air is regulated at extractor. Fluid pressure at tank regulator. This system is ideal for medium production spraying.

PRESSURE FEED TANK HOOKUP

(Double regulator)

Atomization air and fluid pressure is regulated by two individual air regulators on tank. This is proven highly efficient for portable painting operations.

PRESSURE FEED CIRCULATING SYSTEM HOOKUP

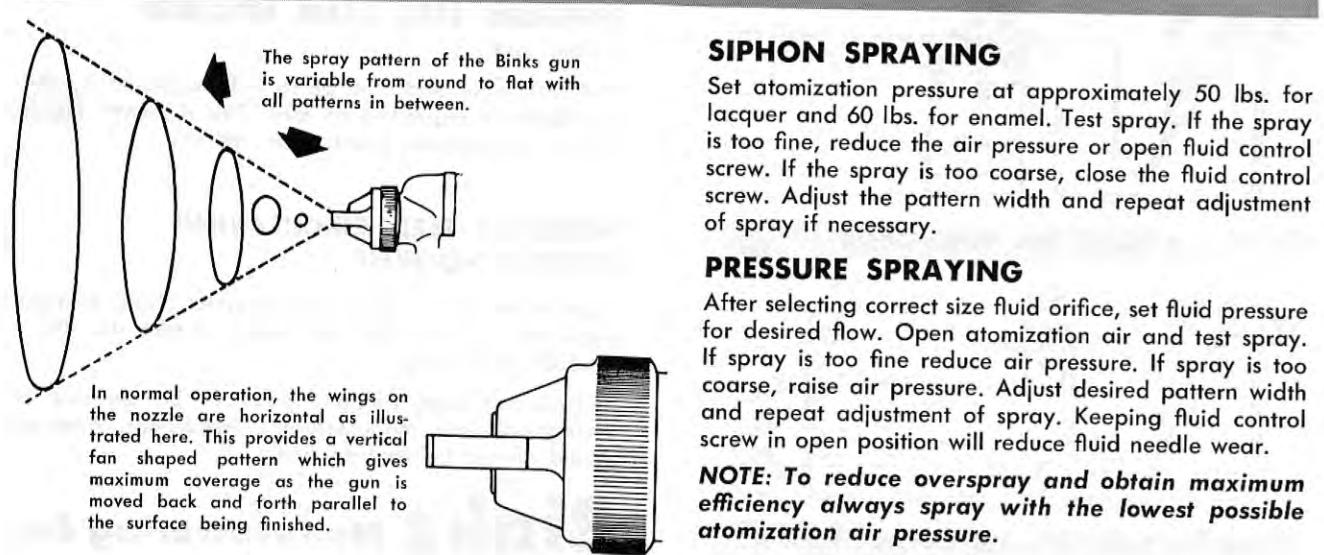
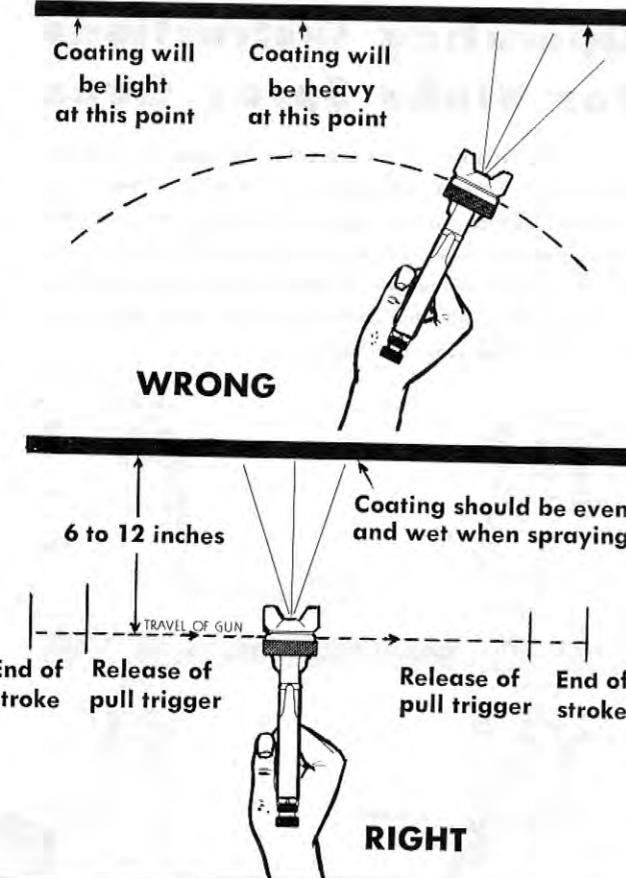
Atomization air regulated at extractor. Fluid pressure regulated at fluid regulator. Recommended for heavy production spraying.

INITIALLY—Always prepare paint to be sprayed in accordance with Manufacturer's Instructions. Material should always be strained first.

Binks Manufacturing Co.

2. USE OF GUN

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 in even strokes parallel with it. The stroke should be started before the trigger is pulled and released before the stroke is finished. This is easy and gives accurate control of the gun and material. The distance the gun is held from the surface being covered is determined by the material and atomizing pressure, and will vary from 6 to 12 inches, but the material deposited should always be even and wet. Lap each stroke over the preceding stroke to obtain a uniform finish.



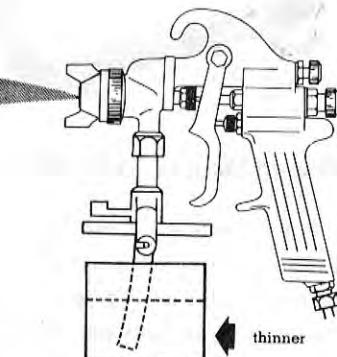
3. FAULTY PATTERNS and how to correct them

| PATTERN | CAUSE | CORRECTION |
|---------|---|--|
| | Dried material in side-port "A" restricts passage of air through it. Result: Full pressure of air from clean side-port forces fan pattern in direction of clogged side. | Dissolve material in side-port with thinner. Do not poke in any of the openings with metal instruments. |
| | Dried material around the outside of the fluid nozzle tip at position "B" 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 loose air nozzle. | If dried material is causing the trouble, 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 middle is usually caused by (1) too high an atomization air pressure, or (2) by attempting to get too wide a spray 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 a 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 machine oil 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 (G). |

4. POINTERS ON CLEANING

When used with a cup, thinner or suitable solvent should be siphoned through gun by inserting tube in open container of that liquid. Move trigger constantly to thoroughly flush passageway and to clean tip of needle.

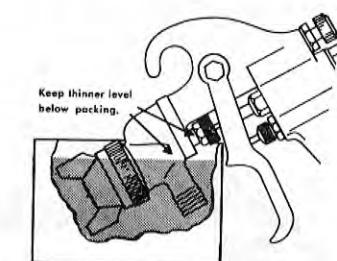
CLEANING GUN USED WITH PRESSURE TANK—Shut off the air supply to the tank and release the pressure on the tank. Open vent and loosen air nozzle. Hold a piece of cloth, wadded in the hand over the air nozzle and pull the trigger, the air will back up through the fluid nozzle, and force the fluid out of the hose into the tank. Next put enough thinner into the tank to wash the hose and gun thoroughly and spray this through the gun until it is clean. Then blow out the fluid hose to dry it and remove all traces of materials by attaching it to the air line.



THINNER—Keep thinner level below packing.

It is extremely poor practice to place an entire gun in thinner. When this is done, the solvent dissolves the oil in the leather packing and causes the gun to spit.

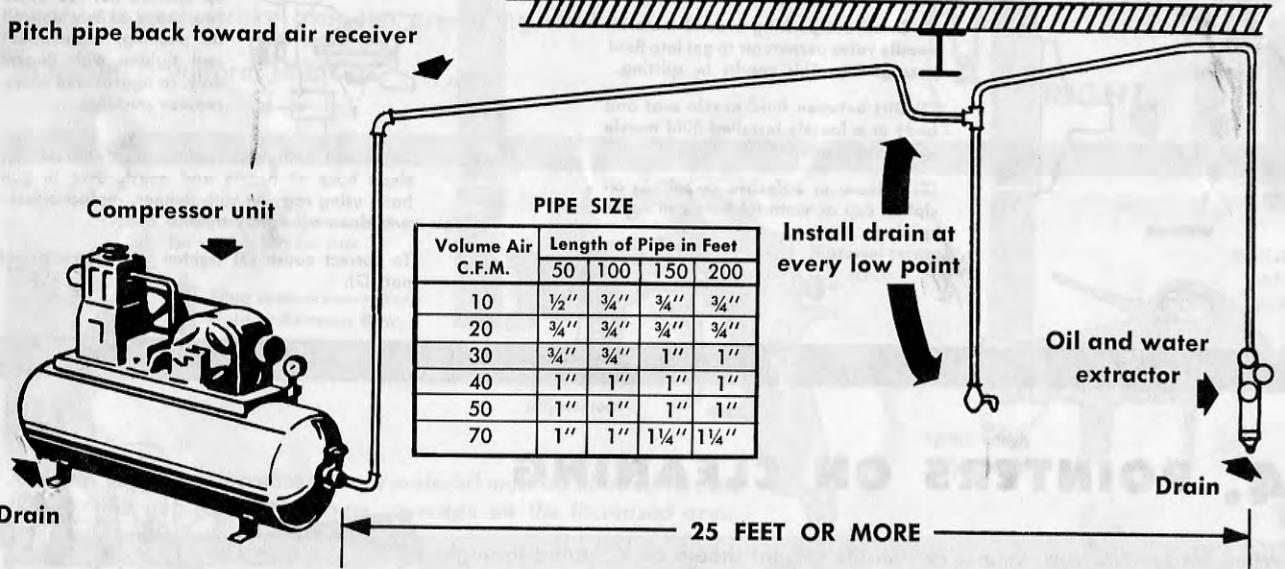
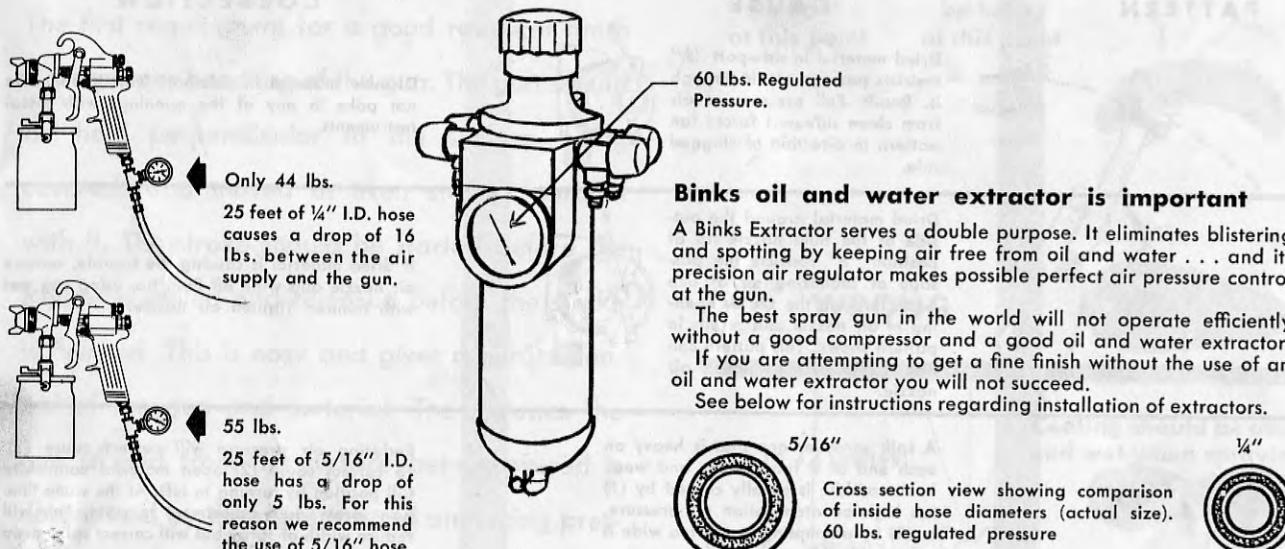
It is good practice to place the nozzle and fluid connection in thinner. Vessel used should be shallow enough to prevent thinner from reaching packing.



LUBRICATION—Daily oil fluid needle packing, air valve packing, and trigger bearing screw. Occasionally coat needle valve spring with petroleum jelly. OIL ALL WORKING PARTS EVERY DAY.

5. AIR PRESSURE

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



Oil and Water Extractor should be at least 25 ft. from the compressor. Further if possible.

It is extremely poor practice to mount the oil and water extractor on or even near the compressor unit. The temperature of the air is greatly increased as it passes through the compressor and this compressed air must be cooled before the moisture in it will condense. If the air from the compressor is still warm when it passes through the oil and water extractor, moisture will not be effectively removed, but will remain in suspension. Then, when the air

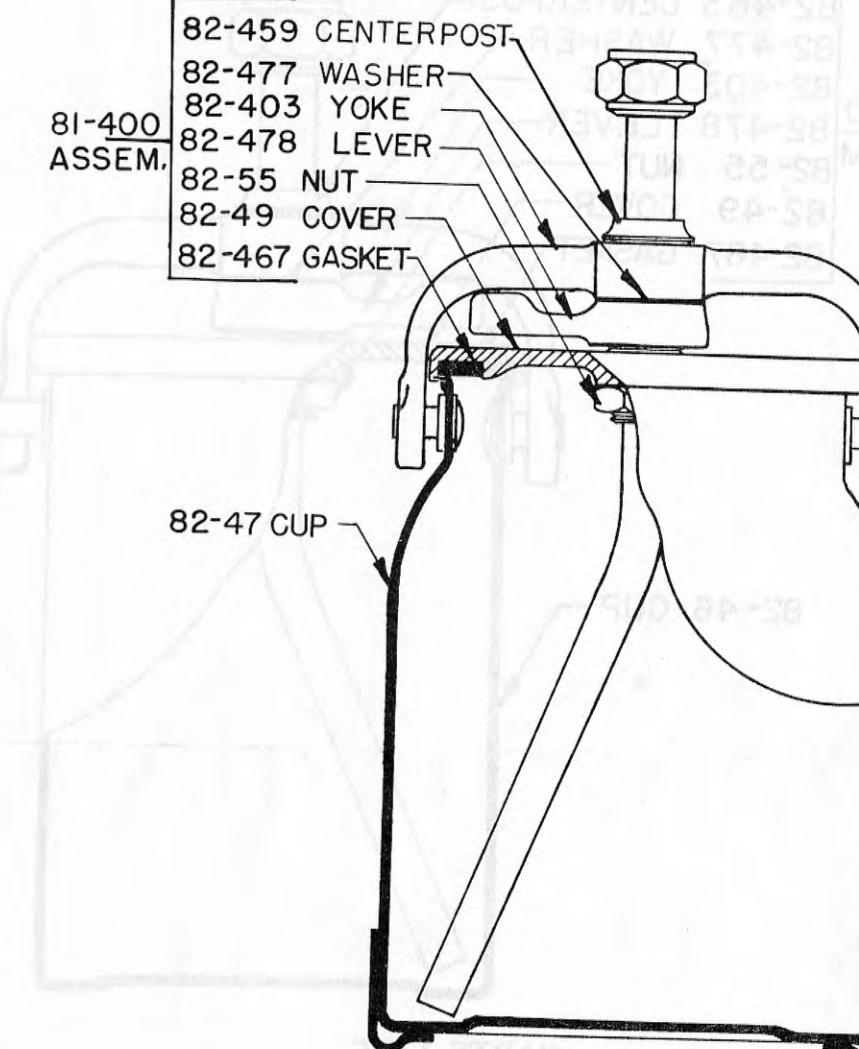
cools in the hose beyond the extractor, the moisture will condense into drops of water and cause trouble.

Air lines must be properly drained

Pitch all air lines back towards the compressor so that condensed moisture will flow back into the air receiver where it can be removed by opening a drain. Every low point on an air line acts as a water trap. Such points should be fitted with an easily accessible drain. See diagram above.

BINKS MODEL 81-500 QUART SIPHON CUP AND ATTACHMENT

3/8" PIPE THREAD SWIVEL NUT



PARTS LIST

| Part No. | Description | No. Req. |
|-------------------------|---------------------------------------|----------|
| 81-400 | 3/8 Cup Attachment Assembly | 1 |
| 82-47 | One Quart Cup, Aluminum | 1 |
| 82-49 | Cover | 1 |
| 82-55 | Nut | 1 |
| *82-56 | Gasket (thiokol) | 1 |
| 82-403 | Yoke | 1 |
| 82-459 | Centerpost | 1 |
| *82-467 | Gasket (leather) | 1 |
| 82-477 | Washer | 1 |
| 82-478 | Lever | 1 |
| * Interchangeable Parts | | |

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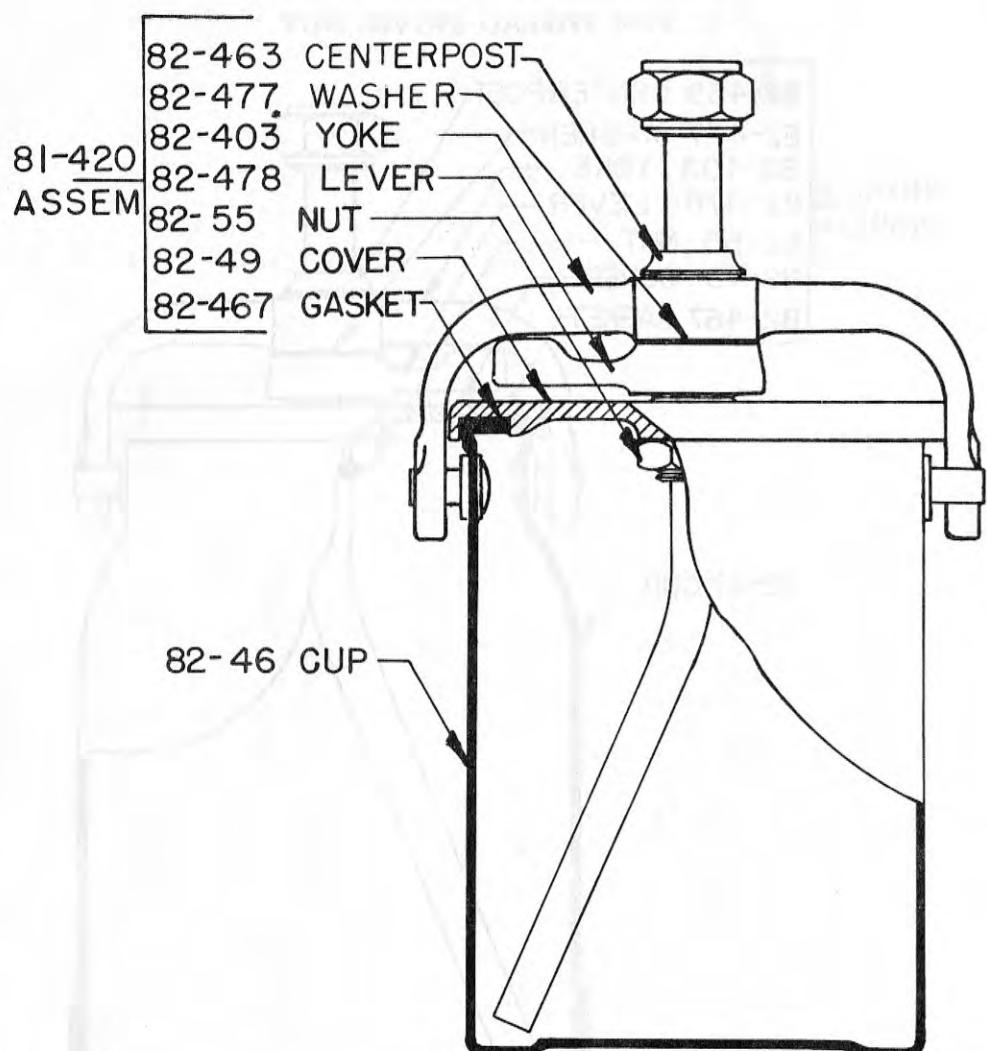
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REPRESENTATIVES IN ALL PRINCIPAL CITIES

REPLACES
PARTS SHEET
NO. 1234R1

PARTS SHEET
No. 1234R2

BINKS MODEL 81-520 PINT SIPHON CUP AND ATTACHMENT



PARTS LIST

| Part No. | Description | No. Req. |
|----------|--------------------------|----------|
| 81-420 | 3/8 Cup Attachment Assem | 1 |
| 82-46 | One Pint Cup, Aluminum | 1 |
| 82-49 | Cover | 1 |
| 82-55 | Nut | 1 |
| *82-56 | Gasket (thiokol) | 1 |
| 82-403 | Yoke | 1 |
| 82-463 | Centerpost | 1 |
| *82-467 | Gasket (leather) | 1 |
| 82-477 | Washer | 1 |
| 82-478 | Lever | 1 |

* Interchangeable Parts

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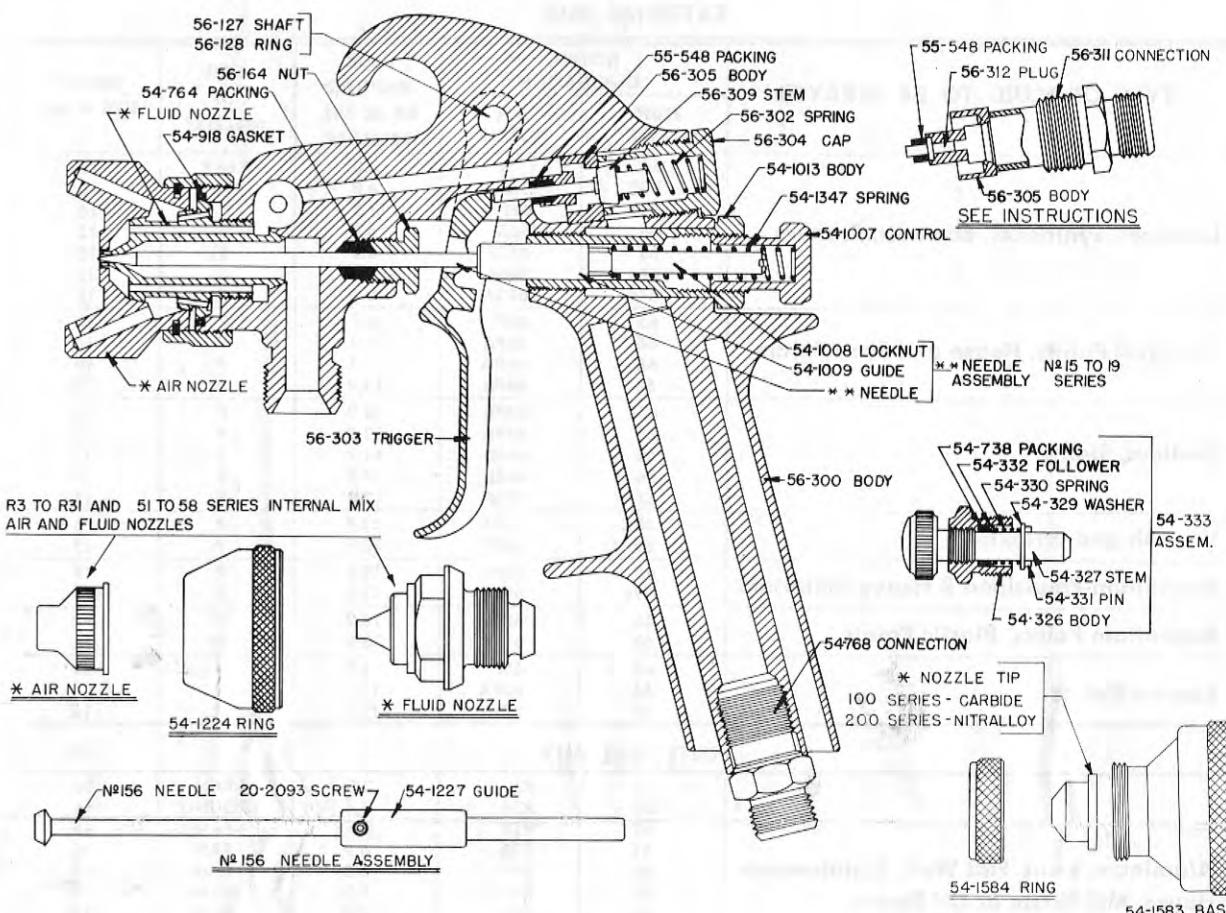


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PARTS SHEET
NO. 1234R1

PARTS SHEET
No. 1234R2

BINKS MODEL 29 SPRAY GUN



PARTS LIST

| Part No. | DESCRIPTION | No. Required | Part No. | DESCRIPTION | No. Required |
|----------|--|--------------|----------|--------------------|--------------|
| * | Air Nozzle | 1 | 54-1009 | Needle Guide | 1 |
| * | Fluid Nozzle | 1 | 54-1013 | Fluid Control Body | 1 |
| ** | Needle Valve Assembly | 1 | 54-1224 | Retainer Ring | 1 |
| 5-32 | Gun Wrench | 1 | 54-1227 | Needle Guide | 1 |
| 20-2093 | #6-32x1/8 Allen Hd. Cup Pt. Set Scr... | 1 | 54-1347 | Fluid Spring | 1 |
| 20-2094 | 1/8 Allen Hd Wrench (For 20-2093 Screw) | 1 | 54-1583 | Nozzle Tip Base | 1 |
| 54-326 | Side Port Control Body | 1 | 54-1584 | Retainer Ring | 1 |
| 54-327 | Side Port Control Stem | 1 | 55-548 | Packing | 1 or 2 |
| 54-329 | Side Port Control Washer | 1 | 56-127 | Trigger Shaft | 1 |
| 54-330 | Side Port Control Spring | 1 | 56-128 | Snap Ring | 2 |
| 54-331 | Side Port Control Pin | 1 | 56-164 | Needle Packing Nut | 1 |
| 54-332 | Side Port Control Follower | 1 | 56-300 | Gun Body | 1 |
| 54-333 | Side Port Control Assembly | 1 | 56-302 | Spring | 1 |
| 54-738 | Side Port Control Packing | 1 | 56-303 | Trigger | 1 |
| 54-764 | Fluid Packing | 1 | 56-304 | Cap | 1 |
| 54-768 | Air Connection | 1 | 56-305 | Body | 1 |
| 54-918 | Fluid Nozzle Gasket | 1 | 56-309 | Stem | 1 |
| 54-1007 | Fluid Control Screw | 1 | 56-311 | Rear Connection | 1 |
| 54-1008 | Rear Locknut | 1 | 56-312 | Plug | 1 |
| | | | 82-221 | Cleaning Brush | 1 |

*Be sure to specify number stamped on Air Nozzle and Fluid Nozzle, or see Nozzle Selection Chart on reverse side of sheet.

**Be sure to specify number stamped on Needle Valve Stem when ordering; also specify Stem Only or Needle Assembly and Gun Model.

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REPLACES
PARTS SHEET
NO. 1320R3

PARTS SHEET
No. 1320R4

NOZZLE SELECTION CHART FOR BINKS MODEL 29 SPRAY GUN

EXTERNAL MIX

| TYPE OF FLUID TO BE SPRAYED | NOZZLE COMBINATION | | C.F.M. REQUIRED AT 50 LBS. PRESSURE | TYPE OF NOZZLE* | NEEDLE† SIZE & NO. |
|---|--------------------|---------------|--|-----------------------|-----------------------|
| | FLUID NOZZLE† | AIR NOZZLE | | | |
| Lacquers, Synthetics, Enamels, Primers | 66 | R | 4.0 | S or P | 15 |
| | 63C | 66S | 4.8 | P | 16 |
| | 63B | 66PE | 13.9 | P | 16 |
| | 66 | 66S | 4.8 | S | 15 |
| | 66 | 66SE | 9.0 | S | 15 |
| | 66 | 66SF | 11.4 | S | 15 |
| | 67A | 67SA | 10.2 | S | 18 |
| Flat Wall Paints, House and Barn Paints | 65 | 65P | 8.7 | P | 15 |
| | 66 | 66PA | 10.1 | P | 15 |
| | 68 | 68PA | 8.1 | P | 19 |
| | 68 | 68PB | 13.9 | P | 19 |
| Shellacs, Stains | 63B | 66PE | 13.9 | P | 16 |
| | 65 | 63PB | 13.9 | P | 15 |
| | 66 | 66SD | 11.9 | S | 15 |
| | 66 | 66SE | 9.0 | S | 15 |
| | 67A | 67SA | 10.2 | S | 18 |
| Varnish and Wrinkles | 63C | 63PB | 13.9 | P | 16 |
| | 65 | 66PE | 13.9 | P | 15 |
| Asphaltum-Emulsified & Heavy Materials | 68 | 68PB | 13.9 | P | 19 |
| | 69B | 69P | 14.3 | P | 156 |
| Asphaltum Paints, Plastic Paints | 66 | 66PE | 13.2 | P | 15 |
| | 67 | 67PB | 13.0 | P | 18 |
| Cement Paints | 65 | 65P | 8.7 | P | 15 |
| | 66 | 66PA | 10.1 | P | 15 |
| | 67 | 67P | 13.0 | P | 18 |

INTERNAL MIX

| | | | | | |
|--|----------|---------|------|---------|-----|
| Aluminum, Barn, Flat Wall, Maintenance House, Mill White or Oil Paints | 51 | R3 | 3.9 | I-FAN | 16 |
| | 51 | R3A | 3.4 | I-ROUND | 16 |
| | 51 | R15 | 3.9 | I-FAN | 16 |
| | 51 | R16 | 6.9 | I-FAN | 16 |
| | 53 | R19 | 6.5 | I-FAN | 18 |
| | 53 | R21 | 9.3 | I-FAN | 18 |
| | 54 | R21 | 7.0 | I-FAN | 19 |
| | 63 to 66 | 100-200 | 5.0 | I-FAN | .. |
| | 67 | 105-205 | 7.75 | I-FAN | 18 |
| | 68 | 106-206 | 8.0 | I-FAN | 19 |
| Heavy Material | 56 | R24 | 10.6 | I-FAN | 156 |
| | 56 | R25 | 8.2 | I-ROUND | 156 |
| | 57 | R27 | 9.0 | I-FAN | 156 |
| | 57 | R28 | 9.5 | I-ROUND | 156 |
| | 58 | R30 | 12.2 | I-FAN | 156 |
| | 58 | R31 | 12.2 | I-ROUND | 156 |
| | 69B | 103-203 | 11.0 | I-FAN | 156 |

WHEN SELECTING NOZZLES FOR YOUR GUN, BE SURE TO CHECK THE FOLLOWING POINTS:

- Be certain your air supply is sufficient to operate nozzles selected.
- For light material, select small fluid opening. For heavier material; select larger fluid opening.
- The Air volume (C.F.M.) of the air nozzle will determine the speed of application and degree of atomization.

*P—External atomizing: for use with pressure tank or pressure cup. Spray pattern adjustable round to fan.

*S—External atomizing: for use with siphon cup or gravity bucket. Spray pattern adjustable round to fan.

*I—Internal atomizing: for use with pressure equipment only. Spray pattern fixed as specified.

† 60 series fluid nozzles and their corresponding needle valves can be furnished in stainless steel. If required, specify when ordering.

| FLUID NOZZLE ORIFICE SIZES | | | | | | | | | | | | | | | | | | | |
|----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| + | + | + | + | + | 63A | 63B | 63C | 65 | 66 | 67 | 67A | 68 | 69B | 51 | 53 | 54 | 56 | 57 | 58 |
| .040 | .046 | .052 | .059 | .070 | .086 | .086 | .086 | .110 | .110 | .122 | .122 | .122 | .122 | .110 | .110 | .110 | .110 | .218 | .281 |

† Air nozzles shown with any one of the (+) fluid nozzles can be used with all of these (+) fluid nozzles.

1. TO CONVERT TO BLEEDER TYPE:

Remove 56-304 Cap. Take out 56-302 Spring and 56-309 Stem. Remove 56-305 Body and all of the 55-548 Packing. Insert 56-312 Plug and one piece of 55-548 packing and replace the 56-305 Body. Insert 56-311 Double Male Connection.

2. TO CONVERT TO BLEEDER TYPE AND BACK AIR CONNECTION:

Remove 56-304 Cap. Take out 56-302 Spring and 56-309

Stem. Remove 56-305 Body and all of the 55-548 Packing. Insert 56-312 Plug and one piece of 55-548 packing and replace the 56-305 Body. Insert 56-311 Double Male Connection.

3. TO CONVERT TO BACK CONNECTION NON-BLEEDER TYPE:

Remove 56-304 Cap keeping 56-302 Spring and 56-309 Stem in position as shown in large illustration. Insert 56-311 Double Male Connection.