

"MAVRICK" PLURAL COMPONENT AIRLESS SPRAY GUN

The "MAVRICK" is a high volume, heavy duty gun designed for plural component spray applications. Features include a nozzle arrangement which provides thorough external mixing through an impingement of the resin and catalyst spray patterns.

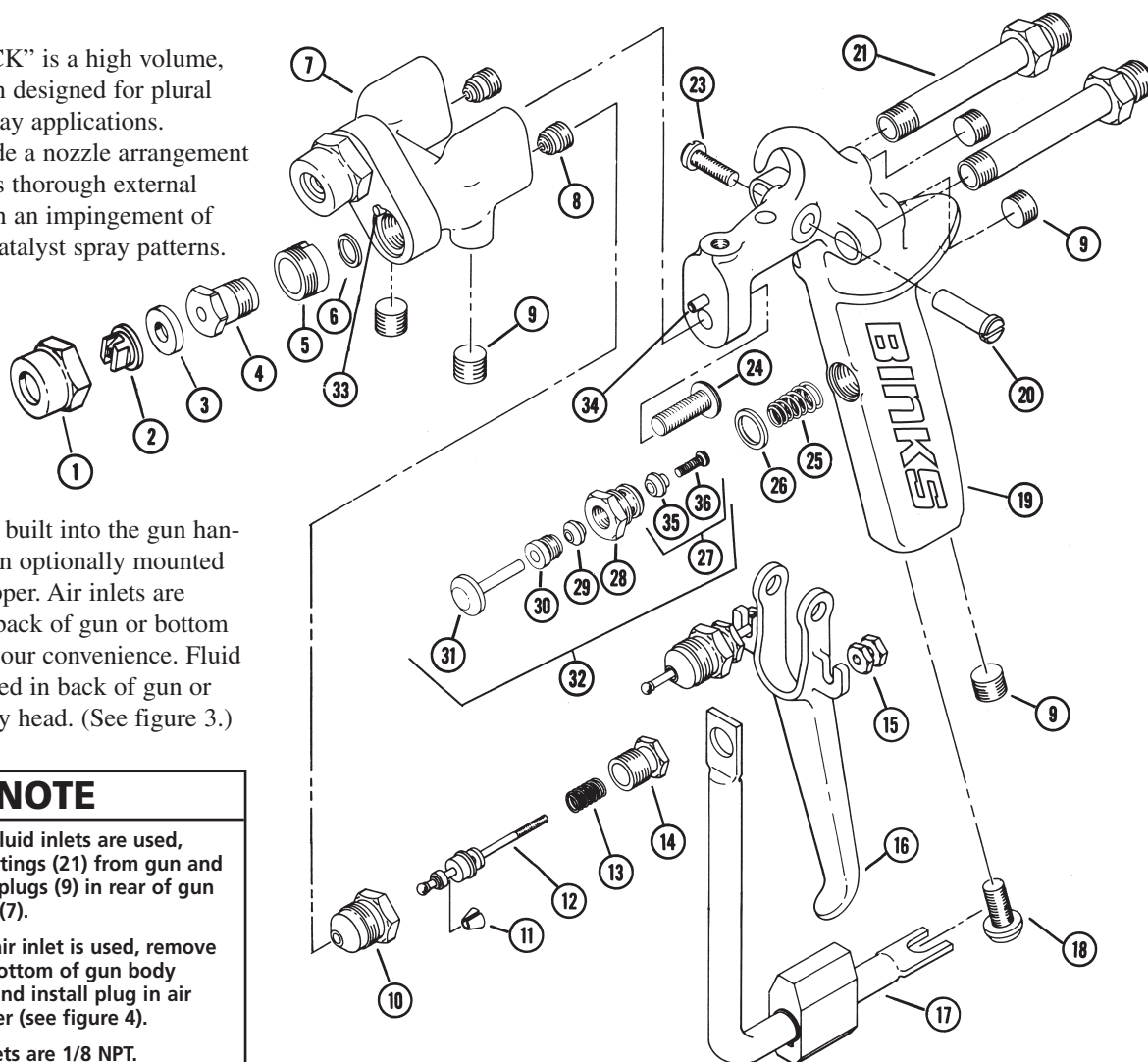
An air valve is built into the gun handle to trigger an optionally mounted fiberglass chopper. Air inlets are located in the back of gun or bottom of handle for your convenience. Fluid inlets are located in back of gun or bottom of spray head. (See figure 3.)

NOTE

When bottom fluid inlets are used, remove inlet fittings (21) from gun and install the two plugs (9) in rear of gun head assembly (7).

When bottom air inlet is used, remove plug (9) from bottom of gun body assembly (19) and install plug in air inlet for chopper (see figure 4).

All plugged inlets are 1/8 NPT.



PARTS LIST

When ordering, please specify Part No.

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	102-3327	NOZZLE CAP	2	19	102-3304	GUN BODY ASSEMBLY.....	1
2		NOZZLE (Specify Part No.)	2	20	102-3314	TRIGGER STUD	1
3	54-1439▲	GASKET	2	21	102-3316	INLET FITTING, 1/4 NPS(m)	2
4	102-3306	OUTLET BODY	2	23	82-126	TRIGGER SCREW	1
5	102-3305	SLEEVE	2	24	20-5074	BOLT, 1/4-28 x 7/8" Long	1
6	102-3307▲	GASKET	2	25	102-3336	SPRING	1
7	102-3315	GUN HEAD ASSEMBLY	1	26	102-3335▲	SEAL	1
8	102-3322▲	SEAT ASSEMBLY	2	27	102-3341	VALVE	1
9	20-3111	PLUG, 1/8 NPT.....	5	28	102-3332	BODY	1
10	102-3324	SEAL HOUSING	2	29	54-747▲	PACKING	1
11	102-3323▲	PACKING	2	30	102-3331	SCREW	1
12	102-3313▲	NEEDLE ASSEMBLY	2	31	102-3338	ACTUATOR ASSEMBLY.....	1
13	102-3325▲	SPRING	2	32	102-3340	VALVE ASSEMBLY.....	1
14	102-3326	NUT, Packing.....	2	33	20-5161▲*	DOWEL PIN, 3/32" x 5/16"	2
15	20-3668	NUT, (No. 5-40).....	4	34	20-4839▲	DOWEL PIN, 1/8" x 1/2"	1
16	102-3302	TRIGGER.....	1	35	102-3339	HEAD	1
17	102-3319	GUARD ASSEMBLY	1	36	20-6502	SCREW, No. 2-56.....	1
18	20-5230	SCREW, 5/16-18 X 1/2"	1				

▲ Also available in Spare Parts Kit 106-1120. Please order separately.

■ Optional seat available: 109-827 KEL-F. Please order separately.

* Furnished with Item No. 7.

Replaces
Part Sheet
77-2070R-6

Part
Sheet
77-2070R-7

⚠ 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.
FOR GENERAL SAFETY INFORMATION CONCERNING BINKS EQUIPMENT, SEE SAFETY BOOKLET 5300.**

**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.

INJECTION HAZARD

1. The Mavrick gun is capable of spraying coatings at high pressure. If you spray yourself or anyone else at close range, the stream of material can puncture the skin and cause great harm (possible amputation).
2. **NEVER** point the gun at yourself or anyone else. **NEVER** point the gun at your hands, fingers, or body. **ALWAYS** keep the gun trigger safety catch locked in the **OFF** position when not in use.
3. **DO NOT** cover the tip and attempt to "blow back" fluid. This is not an air sprayer.
4. If injury occurs, see your doctor immediately! **DO NOT TREAT THIS AS A SIMPLE CUT.** Inform your doctor specifically of what fluid was injected.

AVOID STATIC SPARKING

Static electricity charge builds up by high velocity liquid flowing through a hose during flushing, cleaning, or spraying operations. Proper grounding of the airless system safely dissipates this charge.

GROUNDING THE PUMP

Installation of the ground wire attachment to a metallic portion of the pump must insure a secure metal-to-metal contact. The ground wire must be 12 gauge minimum. A clamp must be attached to a true earth ground and an instrument test must be done to verify a ground. Mounting is the user's responsibility.

All high pressure airless systems must be grounded to avoid dangerous static sparking, explosion, or fire when spraying or flushing with flammable liquids.

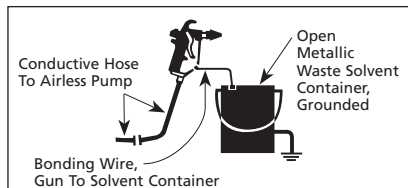
**CA PROP
65**

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

⚠ CAUTION

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

1. Use Binks **NO-WIRE** conductive hose in all airless spraying operations. Be sure the gun and hose have continuity. Check continuity weekly with ohmmeter. Overall (end to end) resistance of un-pressurized hose must not exceed 29 mega ohms (max.) for any coupled length or combination of hose lengths.
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. Bond the spray gun to the waste container with a grounding wire. Be sure there is good metal to metal contact.
5. **ALWAYS** remove spray tip when flushing the system. Operate the pump at the lowest possible pressure.



PERSONAL SAFETY CONSIDERATIONS

1. **NEVER** leave a pressurized sprayer unattended.
2. **DO NOT** use fluids, coatings, or chemicals which are not compatible with nylon hoses.
3. 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.

NOTE

Important installation, operation or maintenance information.

4. Follow all warnings and precautions of the coating and solvent manufacturers.
5. **ALWAYS** relieve pressure in the system by turning bypass valve to **BYPASS** or triggering spray gun before disassembly of any component parts.
6. Exhausting air from a motor cycling with the mufflers removed can exceed OSHA limits. Thus, never operate the pump without proper muffling.
7. **NEVER** attempt to loosen or remove fluid hoses, or to disassemble the pump without first performing the pressure relief procedure as listed in the pumping equipment part sheet.
8. **NEVER** perform any disassembly procedure unless the air motor air supply has been turned off, the residual air has been exhausted, and pressure in the air motor and fluid ends have been relieved. Should air pressure remain within the motor chamber, the motor could cycle at any time.
9. Keep hands and fingers clear of the pump manifold fluid inlet and the individual inlets. The powerful suction can cause serious bodily injury, and any breaks in the skin can allow exposure to the chemicals in the formulation being pumped.
10. Pressure relief procedure must be followed whenever the pump is shut-off for cleaning, servicing, or repairing any part of the air or fluid system. This includes removing or installing or cleaning spray gun tips or nozzles. See the pressure relief procedure in the pumping equipment part sheet.

REPLACEMENT PARTS

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

! WARNING



**When using Binks equipment with
Methyl Ethyl Ketone Peroxide in Plasticizer
OBSERVE the following precautions**

**CORROSIVE TO THE EYES – MAY CAUSE BLINDNESS.
MAY BE FATAL IF SWALLOWED. STRONG IRRITANT.
CONTAMINATION OR HEAT MAY LEAD TO FIRE OR
EXPLOSIVE DECOMPOSITION. COMBUSTIBLE.**



Do not handle or use until safety precautions concerning Methyl Ethyl Ketone Peroxides in the Manufacturer's literature have been read and understood.

Contact with foreign materials, especially strong mineral acids, metals (including certain equipment and containers) or metal salts, or exposure to heat above 135° F (57° C) may lead to violent decomposition, releasing flammable vapors which may self-ignite.

Do not get into eyes or on skin or clothing. Wear eye and skin protection when handling. Avoid breathing mist. Use with adequate ventilation. Store only it in the original closed container. Wash hands thoroughly after handling. Protect from direct sunlight, heat, sparks and other sources of ignition. Prevent contamination with foreign materials. Do not add to hot materials.

FIRST AID

EYES

Wash immediately (seconds count) with water and continue washing for at least 15 minutes. Obtain medical attention.

SKIN

Wash with soap and water. Remove contaminated clothes and shoes and again wash thoroughly with soap and water.

SWALLOWING

Administer large quantities of milk or water. Obtain immediate medical attention for lavage.

To maintain the chemical activity store below 100° F (38° C).

In case of fire, use water spray, foam or dry chemical.

In case of spill or leak, absorb or blend with inert, non-combustible material. Put in suitable container. Dispose of immediately in accordance with federal, state and local regulations.

Do not reuse container as some of the original hazardous contents may still be present.

Follow the above precautions in handling.

READ & UNDERSTAND THE MATERIAL SAFETY DATA SHEET FROM MATERIAL SUPPLIER

PRECAUTIONARY NOTES

1. Do not spray solvent under high pressure through the nozzle tips; an explosion or fire could result from static electricity buildup in the presence of inflammable vapors. Always remove nozzle tips from gun before cleaning (see Maintenance Notes).
2. Never remove hoses from gun without first releasing pressure. Release pressure with pressure relief valves.
3. Always engage trigger lock when not spraying or while removing nozzle tips. (See figure 1.)
4. Under no circumstances should the gun be mishandled or its spray directed in any proximity to human body, particularly with nozzle tips removed.
5. Periodically check the hose for any kinks or abrasion that may develop into a rupture.
6. Never use standard hardware to modify gun. Use Binks high pressure components only.
7. Use care when handling the nozzle tips. Excessive fluid pressure will cause them to wear out prematurely.

Figure 1

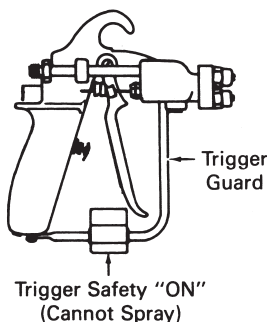


Figure 2

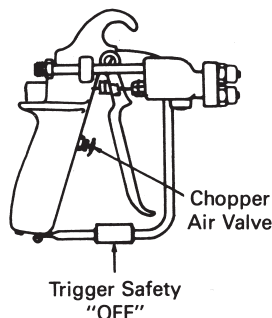
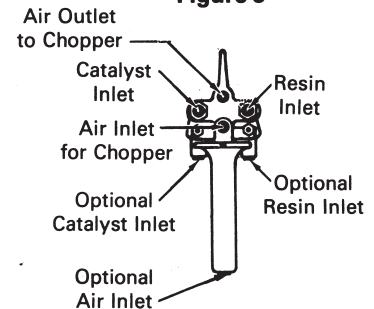


Figure 3



BACK VIEW OF GUN

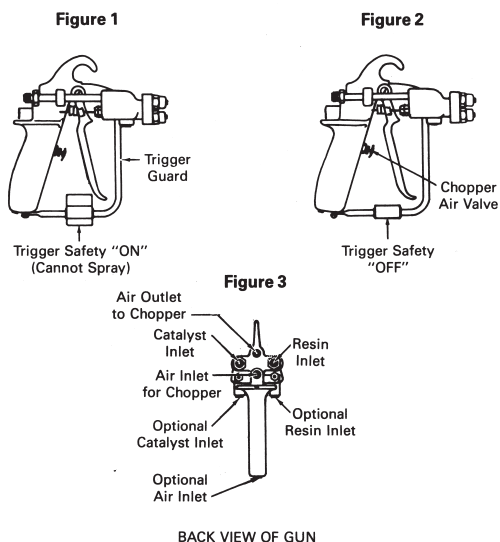
OPERATING NOTES:

1. Connect resin hose to right hand fluid inlet and tighten securely (see figure 3).
2. Connect catalyst hose to left hand fluid inlet and tighten securely (see figure 3).
3. Once installed, do not reverse hoses and gun fluid passages.
4. With nozzle tips removed, open catalyst supply line and start resin pump slowly. Direct gun into a suitable container and depress trigger to purge air from the hose.
5. Release trigger, engage trigger lock and replace nozzle tips. (See figure 1.)
6. If fiberglass chopper accessory is used, connect air hose to gun (see figure 3).
7. Set catalyst pressure, increase pump fluid pressure gradually and test spray pattern for proper atomization.

NOTE

Do not use fluid pressures above those required for proper atomization. Excessive fluid pressure causes undue wear on nozzle tips, fogging, and waste of material.

8. While spraying, the trigger must be fully opened or closed. You cannot feather with an airless gun.
9. Always engage trigger lock (see figure 1) when gun is not in operation.



MAINTENANCE NOTES:

1. To clean nozzle tips:

- a. Engage trigger lock (see figure 1).
- b. Remove nozzle caps, nozzle tips, and gasket.
- c. Submerge nozzle tips in solvent to loosen any partially cured material to aid in cleaning. (Do not use metal objects.)
- d. Blow air through nozzle tips to insure orifice is clear of any obstruction.
- e. Reassemble in reverse order.

2. To repair air valve assembly (if using chopper):

- a. Shut off air to gun, release air pressure and engage trigger lock (see figure 1).
- b. Remove the valve assembly, seal, and spring.
- c. Remove actuator assembly by unscrewing from plastic head.
- d. Remove screw from body. Packing can be removed and replaced if necessary.
- e. Reassemble in reverse order.

3. To repair needle assembly:

- a. Shut off material supply to all components and release pressure in hoses. Remove hoses from gun.
- b. Remove trigger screw and trigger stud and remove trigger.
- c. Remove nuts from needle assembly.
- d. Remove packing nut, spring, and needle assembly.
- e. Remove packing from needle assembly and replace if necessary.
- f. Reassemble in reverse order.

4. To replace seats:

- a. Remove seat housing, needle assembly, spring, and packing nut as one assembly.
- b. Remove seats with hex key. Add thread tape to threads when replacing to prevent leakage.
- c. Reassemble in reverse order.

WARRANTY

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

Binks Sales and Service: www.binks.com

BINKS

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77-2070R-7 Revisions: Trademark updates; (P2)
Added Prop 65 warning; (P4) Updated contact
information.