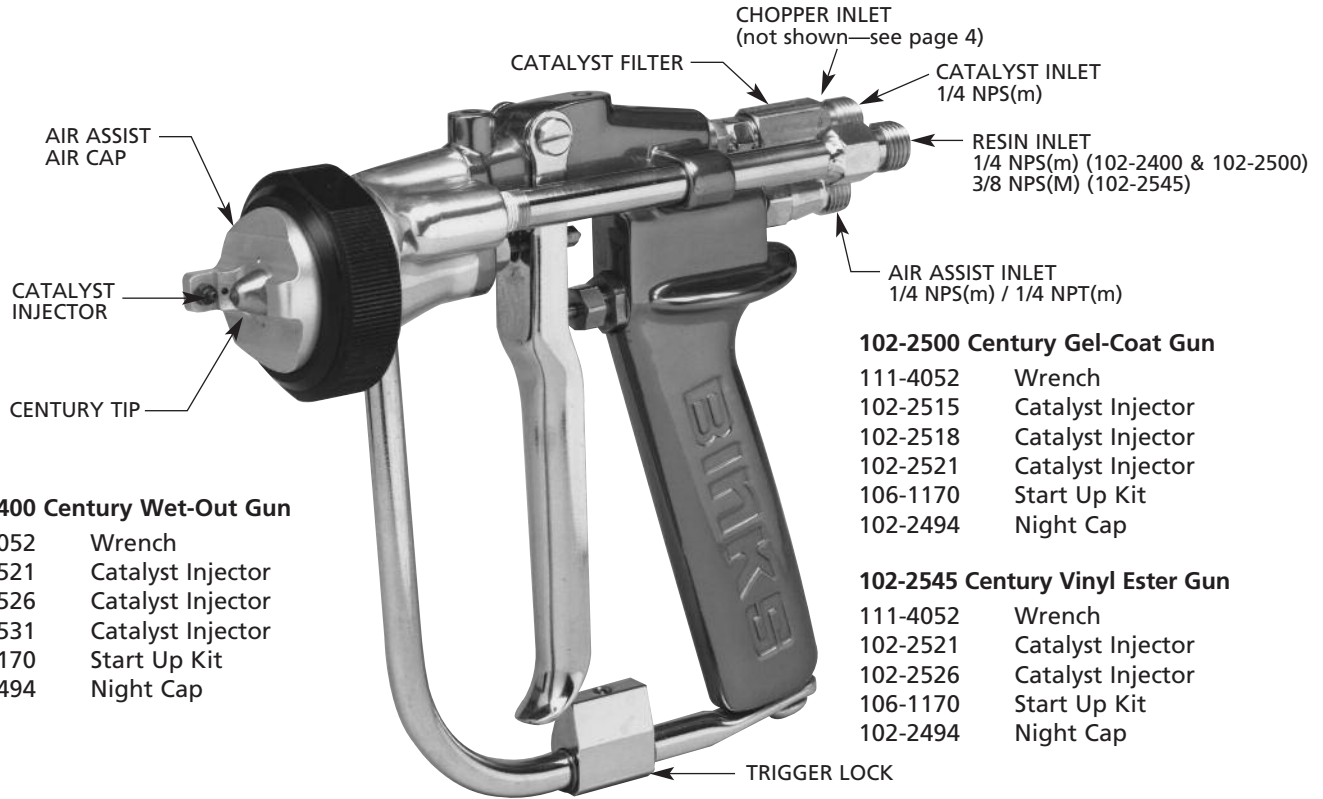




Binks MODELS 102-2400 FRP, 102-2500 GEL-COAT, AND 102-2545 VINYL ESTER AIR-ASSISTED AIRLESS CENTURY SPRAY GUNS



102-2400 Century Wet-Out Gun

- 111-4052 Wrench
- 102-2521 Catalyst Injector
- 102-2526 Catalyst Injector
- 102-2531 Catalyst Injector
- 106-1170 Start Up Kit
- 102-2494 Night Cap

102-2500 Century Gel-Coat Gun

- 111-4052 Wrench
- 102-2515 Catalyst Injector
- 102-2518 Catalyst Injector
- 102-2521 Catalyst Injector
- 106-1170 Start Up Kit
- 102-2494 Night Cap

102-2545 Century Vinyl Ester Gun

- 111-4052 Wrench
- 102-2521 Catalyst Injector
- 102-2526 Catalyst Injector
- 106-1170 Start Up Kit
- 102-2494 Night Cap

WARNING — HIGH PRESSURE — WARNING

UP TO 3500 POUNDS PER SQUARE INCH

- DO NOT POINT SPRAY GUN AT ANY PART OF THE HUMAN BODY
- FLUID UNDER HIGH PRESSURE CAN PENETRATE THE SKIN AND CAUSE SEVERE INTERNAL INJURY
- IN CASE OF INJURY OBTAIN MEDICAL ATTENTION IMMEDIATELY
- BE SURE TO REPORT NATURE OF INJURY AND TYPE OF FLUID OR SOLVENT TO THE DOCTOR

Be sure you understand **ALL** of the following instructions thoroughly **BEFORE** operating any part of the airless equipment system. **CONSULT YOUR BINKS REPRESENTATIVE TO CLEAR UP ANY ITEMS OF INSTRUCTION YOU DO NOT UNDERSTAND.**

1. Under no circumstances should the spray gun be carelessly handled nor its spray (even when the nozzle is removed) directed at close proximity at any part of the human body.
2. **NEVER** clean, change, or remove nozzle from the spray gun without doing the following:
 - a. Lock trigger (62) by pushing forward. Rotate locking block in upward position.
 - b. Shut off pump and turn off air supply.
 - c. Release fluid pressure in the entire system, from pump to spray gun. Stop pump in down position.
3. **NEVER** attempt to force the flow of liquid backward through the gun.
4. **NEVER** plug a hose leak with your finger, with adhesive tape, or other “stop-gap” device.
5. **NEVER** operate the airless system with a defective hose. **ALWAYS** replace the defective hose immediately. For continuing safety, users are urged to:
 - a. **ALWAYS** handle carefully all hose connections, joints, and seating surfaces on the spray gun to prevent damage.
 - b. **NEVER** kink or bend the fluid hose into less than a four inch radius.
 - c. **FREQUENTLY** check the hose for kinks or abrasions. These may develop into a rupture.
 - d. **NEVER** use standard hardware to modify the airless system. **ALWAYS** use Binks high pressure fittings only.
6. The airless pump must be grounded before operating the airless system.

Replaces
Part Sheet
77-2520R-11

Part
Sheet
77-2520R-12

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.

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

NOTE
Important installation, operation or maintenance information.

⚠ WARNING

Read the following warnings before using this equipment.



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



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



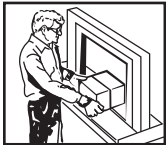
DE-ENERGIZE, DEPRESSURIZE, DISCONNECT AND LOCK OUT ALL POWER SOURCES DURING MAINTENANCE
Failure to De-energize, disconnect and lock out all power supplies before performing equipment maintenance could cause serious injury or death.



OPERATOR TRAINING
All personnel must be trained before operating finishing equipment.



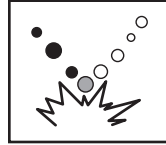
EQUIPMENT MISUSE HAZARD
Equipment misuse can cause the equipment to rupture, malfunction, or start unexpectedly and result in serious injury.



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



HIGH PRESSURE CONSIDERATION
High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the spray gun, hose leaks, or ruptured components can inject fluid into your body and cause extremely serious injury.



PLURAL COMPONENT MATERIALS HAZARD
Because of the vast number of chemicals that could be used and their varying chemical reactions, the buyer and user of this equipment must determine all facts relating to the materials used, including any of the potential hazards involved.



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



FIRE AND EXPLOSION HAZARD
Improper equipment grounding, poor ventilation, open flame or sparks can cause hazardous conditions and result in fire or explosion and serious injury.



PINCH POINT HAZARD
Moving parts can crush and cut. Pinch points are basically any areas where there are moving parts.



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.



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

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

! 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**! WARNING**

These guns are constructed with components of aluminum alloy and SHOULD NOT be used with any Halogenated Hydrocarbon solvents.

HALOGENATED HYDROCARBON SOLVENTS CAN CAUSE AN EXPLOSION WHEN IN CONTACT WITH ALUMINUM COMPONENTS OF A PRESSURIZED OR CLOSED FLUID SYSTEM (PUMPS, HEATERS, FILTERS, etc.)

The same possibility of an explosion is possible with the galvanized coatings in pressure tanks. The possibility of a non-flammable explosion increases greatly at high operating temperatures.

The explosion could be of sufficient strength to cause bodily injury, death, and substantial property damage.

Cleaning agents, coatings, or adhesives may contain HALOGENATED HYDROCARBON SOLVENTS. CHECK WITH YOUR SOLVENT AND PAINT SUPPLIER.

If you are now using a Halogenated Hydrocarbon Solvent in a pressurized fluid system with aluminum components or galvanized wetted parts, the following steps should be taken immediately:

1. Remove all pressure; drain and disconnect the entire system.
2. Inspect and replace all corroded parts.
3. Contact your solvent supplier for a NON-HALOGENATED SOLVENT to flush and clean the system of all residues.

HALOGENATED Solvents are defined as any hydrocarbon solvent containing any of the following elements:

CHLORINE	"CHLORO" (Cl)
BROMINE	"BROMO" (Br)
FLUORINE	"FLUORO" (F)
IODINE	"IODO" (I)

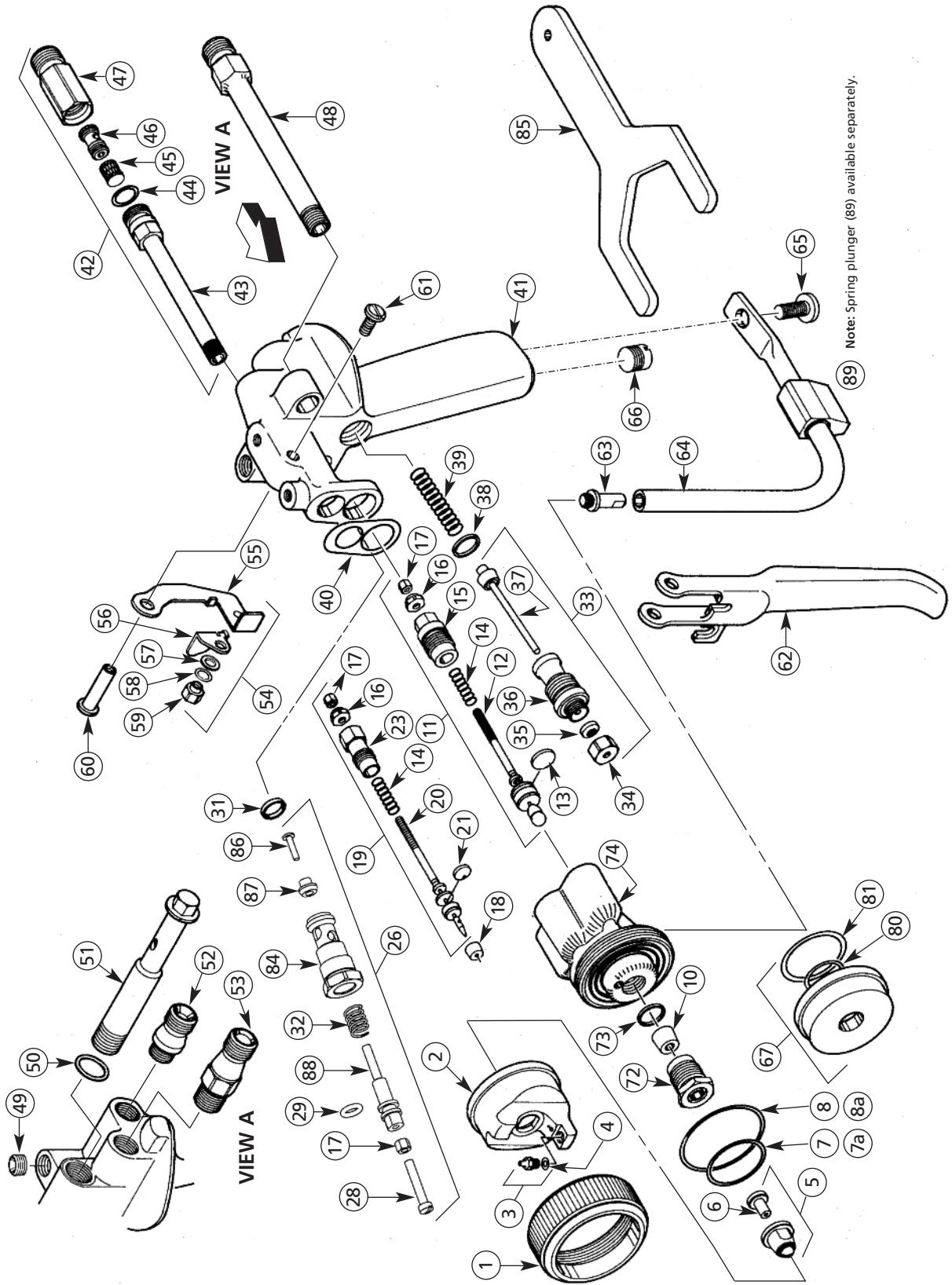
Of those listed, the Chlorinated Solvents will most likely be the type used as a cleaning agent or solvent in an adhesive or coating. The most common are:

METHYLENE CHLORIDE
1,1,1, TRICHLORETHANE
PERCHLORETHYLENE

Although stabilizers have been added to some of the solvents to reduce their corrosive effect, **we are aware of none that will prevent these solvents from reacting under all conditions with aluminum components or galvanized coatings.**

Previous use of the solvents under pressurized conditions, without incident, does not necessarily indicate that it can be considered safe.

102-2400 CENTURY GUN (FRP)



PARTS LIST

(When ordering, please specify Part No.)

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	102-2434	AIR/CATALYST CAP RETAINER RING	1	41	102-2402	HANDLE	1
2	102-2431	AIR/CATALYST CAP	1	42	102-2440	CATALYST INLET/FILTER ASS'Y.	1
3	—	CATALYST INJECTOR (See Injector Chart)	1	43	102-2442	TUBE ASSEMBLY	1
4	102-2433*●	O-RING	1	44	237-91*□	O-RING	1
5	—	TIP ASSEMBLY (See Tip Assembly Chart)	REF	45	102-2181*●□	FILTER SCREEN	1
6	102-2499*	TIP SEAL (See Note under Tip Assembly Chart) ..	REF	46	54-1263	FILTER SUPPORT	1
7	20-4542*●■	O-RING (Silicone Red)	1	47	102-2441	MATERIAL INLET Catalyst	1
7 A	20-6473	EPR O-RING (Optional)	—	48	102-2435	RESIN INLET	1
8	20-6296*●■	O-RING (Silicone Red)	1	49	20-3111	PIPE PLUG 1/8" NPT	1
8 A	20-6474	EPR O-RING (Optional)	—	50	102-2408●	GASKET 1/2 I.D. x 9/16 O.D.	1
10	102-2447●△	RESIN SEAT	1	51	102-3608	HEAD RETAINER BOLT	1
11	102-2410●	RESIN NEEDLE ASSEMBLY	1	52	102-2467	CHOPPER AIR INLET	1
12	102-2412	NEEDLE SUB-ASSEMBLY	1	53	102-2403	AIR ASSIST INLET	1
13	102-2411*●	PACKING	1	54	102-2470	CHOPPER TRIGGER ASSEMBLY	1
14	102-2613	SPRING	2	55	102-2471	CHOPPER TRIGGER	1
15	102-2419	RESIN PACKING NUT	1	56	102-2472	ON/OFF SELECTOR	1
16	102-2428	CONVEX NUT	2	57	102-2474	LOW FRICTION WASHER	1
17	52-487	BRASS NUT	3	58	102-2475	WAVE SPRING	1
18	102-2448●△	CATALYST SEAT	1	59	102-2473	RETAINER SCREW	1
19	102-2420●	CATALYST NEEDLE ASSEMBLY	1	60	54-1020	TRIGGER STUD	1
20	102-2422	NEEDLE SUB-ASSEMBLY	1	61	82-126	TRIGGER SCREW	1
21	102-2421*●	PACKING	1	62	102-2489	TRIGGER	1
23	102-2429	CATALYST PACKING NUT	1	63	102-2404	GUARD STUD	1
26	102-2621	CHOPPER VALVE ASSEMBLY	1	64	102-3845	GUARD ASSEMBLY	1
28	20-6631	SCREW	1	65	20-6295	SCREW 5/16"-24 x 5/8" B.H.	1
29	20-6663▲	O-RING	1	66	54-714	AIR PLUG	1
31	102-3335*▲	SEAL	1	67	102-2494	NIGHT CAP ASSEMBLY	1
32	102-2649▲	SPRING	1	69	102-2438●	5/64" DOWEL PIN (Not Shown)	1
33	102-2615	AIR ASSIST VALVE ASSEMBLY	1	70	102-2439●	13/64" DOWEL PIN (Not Shown)	1
34	54-2417	NUT	1	71	102-2510●	3/8" DOWEL PIN (Not Shown)	1
35	54-2419*▲	PACKING	1	72	102-2506	HEAD INSERT	1
36	54-751	BODY	1	73	102-2505●	SEAL	1
37	54-744*▲	VALVE ASSEMBLY	1	74	102-2504	HEAD MACHINING	1
38	54-749*▲	AIR ASSIST VALVE SEAL	1	79	102-2511●	1/4" DOWEL PIN (Not Shown)	1
39	54-1964*▲	SPRING	1	80	20-5052	O-RING	1
40	102-2427*▲	GASKET	1	81	20-6183	O-RING	1
				84	102-2651	AIR VALVE BODY	1
				85	111-4052	WRENCH	1
				86	20-6502	SCREW	1
				87	102-2464▲	VALVE	1
				88	102-2652	STEM	1
				89	237-752	PLUNGER (Not Shown)	1

● In 106-1171 Fluid Repair Kit. ▲ In 106-1172 Air Valve Repair Kit.
 ■ In 106-1173 O-Ring Kit (15 of Each). △ In 106-1174 Soft Seat Kit.
 □ In 106-1175 Catalyst Filter Repair Kit.
NOTE: Parts marked with * are only available from Binks in quantity packs or Repair Kits. Refer to the Repair Kits for order numbers. See Price List for minimum quantities.

ACCESSORIES

102-2478 3/8" NPS Resin Inlet
 102-2446 Resin Seat, Carbide

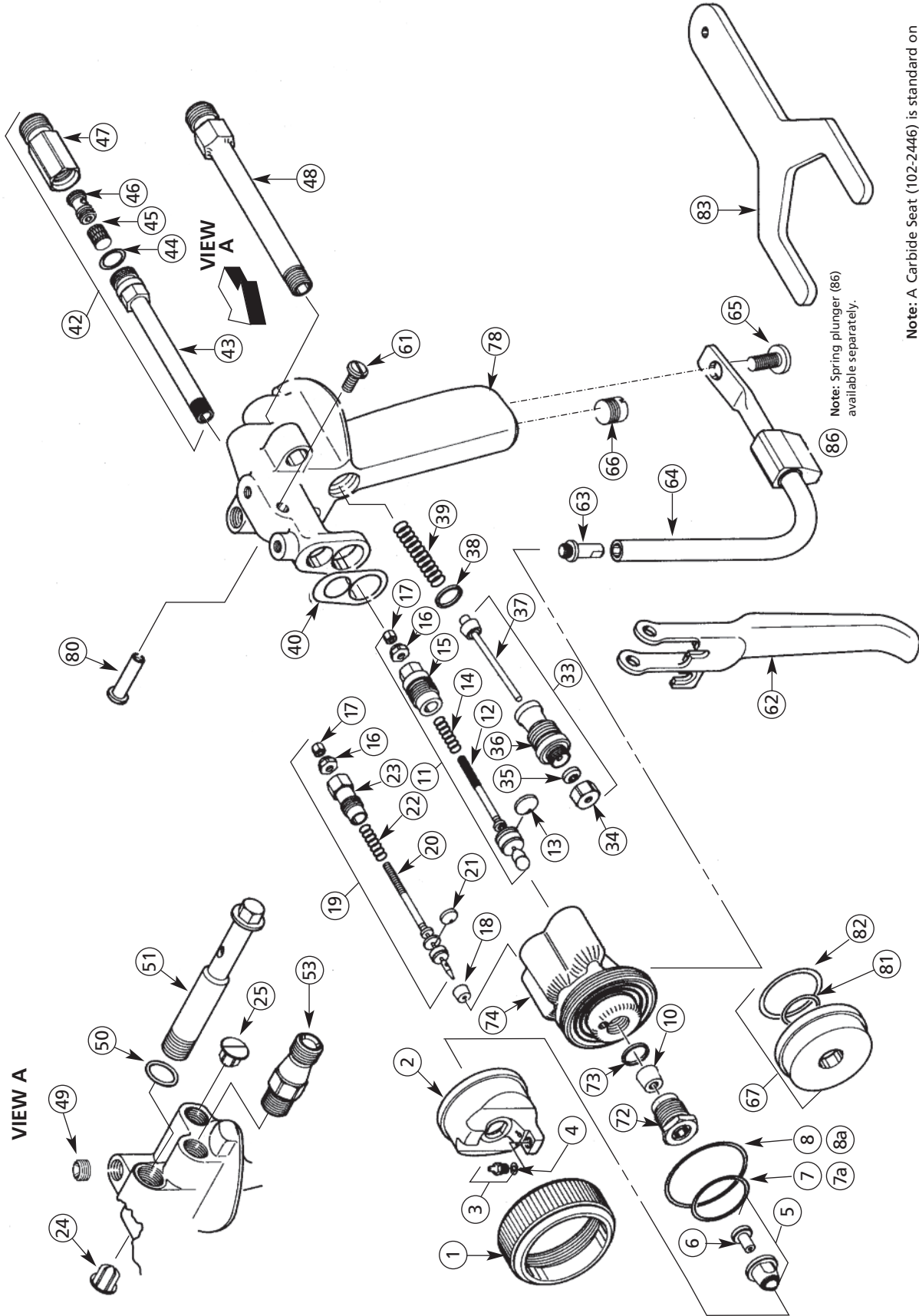
ORDER SEPARATELY

102-285 CALIBRATION
 NOZZLE ASSEMBLY

TOOLS LIST

3/16" IGNITION WRENCH
 5/16" IGNITION WRENCH
 3/8" WRENCH
 7/16" WRENCH
 9/16" WRENCH
 3/16" HEX KEY
 2 FLAT SCREWDRIVERS
 5/64" DOWEL PIN
 13/64" DOWEL PIN

102-2500 GEL-COAT CENTURY GUN



Binks Model 102-2500 GEL-COAT CENTURY GUN

PARTS LIST

(When ordering, please specify Part No.)

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	102-2434	AIR/CATALYST CAP RETAINER RING	1	38	54-749*▲	AIR ASSIST VALVE SEAL	1
2	102-2431	AIR/CATALYST CAP	1	39	54-1964*▲	SPRING	1
3	—	CATALYST INJECTOR (See Injector Chart)	1	40	102-2427*▲	GASKET	1
4	102-2433*●	O-RING	1	42	102-2440	CATALYST INLET/FILTER ASS'Y.....	1
5	—*	TIP ASSEMBLY (See Tip Assembly Chart)	REF	43	102-2442	TUBE ASSEMBLY	1
6	102-2499*	TIP SEAL (See Note under Tip Ass'y. Chart)	REF	44	20-4858*●□	O-RING	1
7	20-4542*●■	O-RING	1	45	102-2181*●□	FILTER SCREEN	1
7 A	20-6473	EPR O-RING (Size 2-022, Optional)	—	46	54-1263	FILTER SUPPORT	1
8	20-6296*●■	O-RING	1	47	102-2441	MATERIAL INLET Catalyst	1
8 A	20-6474	EPR O-RING (Size 2-029, Optional)	—	48	102-2435	RESIN INLET ASSEMBLY	1
10	102-2446	RESIN SEAT Carbide	1	49	20-3111	PIPE PLUG	1
11	102-2410●	RESIN NEEDLE ASSEMBLY	1	50	102-2408●	GASKET 1/2 I.D. x .615 O.D.	1
12	102-2412	NEEDLE SUB-ASSEMBLY	1	51	102-3608	HEAD RETAINER BOLT	1
13	102-2411*●	PACKING	1	53	102-2403	AIR ASSIST INLET	1
14	102-2613	SPRING	1	61	82-126	TRIGGER SCREW	1
15	102-2419	RESIN PACKING NUT	1	62	102-2489	TRIGGER	1
16	102-2428	CONVEX NUT	2	63	102-2404	GUARD STUD	1
17	52-487	BRASS NUT	2	64	102-3845	GUARD ASSEMBLY	1
18	102-2448●△	CATALYST SEAT Nylon	1	65	20-6295	SCREW 5/16"-24 x 5/8" B.H.	1
19	102-2420●	CATALYST NEEDLE ASSEMBLY	1	66	54-714	AIR PLUG	1
20	102-2422	NEEDLE	1	67	102-2494	NIGHT CAP ASSEMBLY	1
21	102-2421*●	PACKING	1	69	102-2438●	5/64" DOWEL PIN (Not Shown).....	1
22	102-2616	SPRING	1	70	102-2439●	13/64" DOWEL PIN (Not Shown)....	1
23	102-2429	CATALYST PACKING NUT	1	71	102-2510●	3/8" DOWEL PIN (Not Shown).....	1
24	102-3833	HANDLE PLUG	1	72	102-2506	HEAD INSERT	1
25	102-3834	HANDLE PLUG	1	73	102-2505●	SEAL	1
33	102-2615	AIR ASSIST VALVE ASSEMBLY	1	74	102-2504	HEAD MACHINING	1
34	54-2417	NUT	1	78	102-2402	HANDLE Gel-Coat	1
35	54-2419*▲	PACKING	1	79	102-2511●	1/4" DOWEL PIN (Not Shown).....	1
36	54-751	BODY	1	80	102-2465	TRIGGER STUD	1
37	54-744*▲	VALVE ASSEMBLY	1	81	20-5052	O-RING	1
				82	20-6183	O-RING	1
				83	111-4052	WRENCH	1
				86	237-752	PLUNGER (Not Shown).....	1

- In 106-1171 Fluid Repair Kit. ▲ In 106-1172 Air Valve Repair Kit.
- In 106-1173 O-Ring Kit (15 of Each). △ In 106-1174 Soft Seat Kit.
- In 106-1175 Catalyst Filter Repair Kit.

NOTE: Parts marked with * are only available from Binks in Quantity Packs or Repair Kits. Refer to the Repair Kits List for order numbers. See Price List for minimum order quantities.

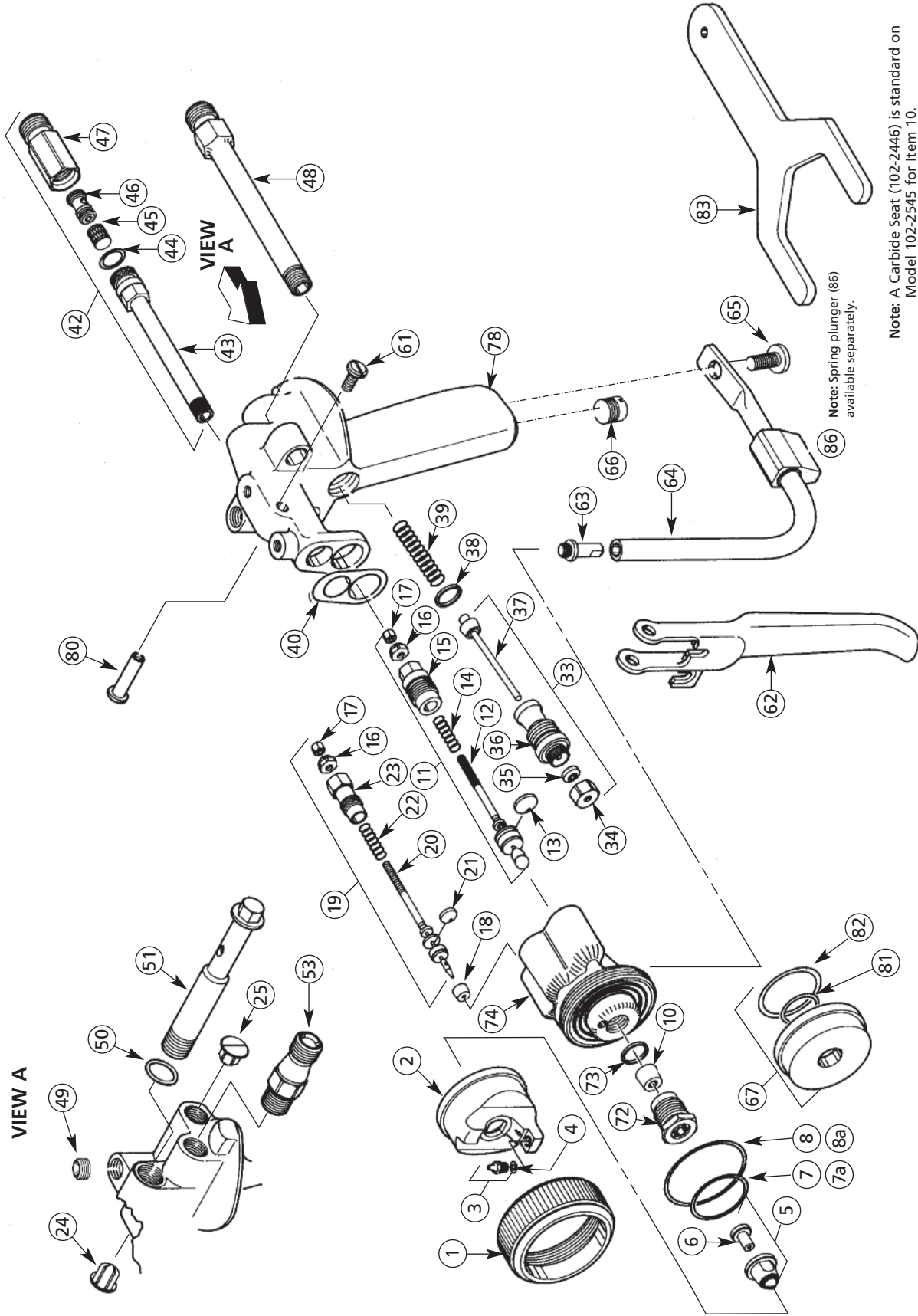
ACCESSORIES

- 102-2478 3/8" NPS Resin Inlet Assembly.
- 102-2447 Soft Resin Seat.

TOOLS LIST

- 3/16" IGNITION WRENCH
- 5/16" IGNITION WRENCH
- 3/8" WRENCH
- 7/16" WRENCH
- 9/16" WRENCH
- 3/16" HEX KEY
- 2 FLAT SCREWDRIVERS
- 5/64" DOWEL PIN
- 13/64" DOWEL PIN

102-2545 VINYL ESTER CENTURY GUN



Binks Model 102-2545 VINYL ESTER CENTURY GUN

PARTS LIST

(When ordering, please specify Part No.)

ITEM NO.	PART NO.	DESCRIPTION	QTY.	ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	102-2434	AIR/CATALYST CAP RETAINER RING	1	38	54-749*▲	AIR ASSIST VALVE SEAL	1
2	102-2431	AIR/CATALYST CAP	1	39	54-1964*▲	SPRING	1
3	—	CATALYST INJECTOR (See Injector Chart)	1	40	102-2427*▲	GASKET	1
4	102-2433*●	O-RING	1	42	102-2440	CATALYST INLET/FILTER ASS'Y.....	1
5	—*	TIP ASSEMBLY (See Tip Assembly Chart)	REF	43	102-2442	TUBE ASSEMBLY	1
6	102-2499*	TIP SEAL (See Note under Tip Ass'y. Chart)	REF	44	20-4858*●□	O-RING	1
7	20-4542*●■	O-RING	1	45	102-2181*●□	FILTER SCREEN	1
7 A	20-6473	EPR O-RING (Size 2-022, Optional)	—	46	54-1263	FILTER SUPPORT	1
8	20-6296*●■	O-RING	1	47	102-2441	MATERIAL INLET Catalyst	1
8 A	20-6474	EPR O-RING (Size 2-029, Optional)	—	48	102-2478	RESIN INLET ASSEMBLY (3/8")	1
10	102-2446	RESIN SEAT Carbide	1	49	20-3111	PIPE PLUG	1
11	102-2410●	RESIN NEEDLE ASSEMBLY	1	50	102-2408●	GASKET 1/2 I.D. x .615 O.D.	1
12	102-2412	NEEDLE SUB-ASSEMBLY	1	51	102-3608	HEAD RETAINER BOLT	1
13	102-2411*●	PACKING	1	53	102-2403	AIR ASSIST INLET	1
14	102-2613	SPRING	1	61	82-126	TRIGGER SCREW	1
15	102-2419	RESIN PACKING NUT	1	62	102-2489	TRIGGER	1
16	102-2428	CONVEX NUT	2	63	102-2404	GUARD STUD	1
17	52-487	BRASS NUT	2	64	102-3845	GUARD ASSEMBLY	1
18	102-2448●△	CATALYST SEAT Nylon	1	65	20-6295	SCREW 5/16"-24 x 5/8" B.H.	1
19	102-2420●	CATALYST NEEDLE ASSEMBLY	1	66	54-714	AIR PLUG	1
20	102-2422	NEEDLE	1	67	102-2494	NIGHT CAP ASSEMBLY	1
21	102-2421*●	PACKING	1	69	102-2438●	5/64" DOWEL PIN (Not Shown).....	1
22	102-2616	SPRING	1	70	102-2439●	13/64" DOWEL PIN (Not Shown)....	1
23	102-2429	CATALYST PACKING NUT	1	71	102-2510●	3/8" DOWEL PIN (Not Shown).....	1
24	102-3833	HANDLE PLUG	1	72	102-2506	HEAD INSERT	1
25	102-3834	HANDLE PLUG	1	73	102-2505●	SEAL	1
33	102-2615	AIR ASSIST VALVE ASSEMBLY	1	74	102-2504	HEAD MACHINING	1
34	54-2417	NUT	1	78	102-2402	HANDLE Gel-Coat	1
35	54-2419*▲	PACKING	1	79	102-2511●	1/4" DOWEL PIN (Not Shown).....	1
36	54-751	BODY	1	80	102-2465	TRIGGER STUD	1
37	54-744*▲	VALVE ASSEMBLY	1	81	20-5052	O-RING	1
				82	20-6183	O-RING	1
				83	111-4052	WRENCH	1
				86	237-752	PLUNGER (Not Shown).....	1

- In 106-1171 Fluid Repair Kit. ▲ In 106-1172 Air Valve Repair Kit.
- In 106-1173 O-Ring Kit (15 of Each). △ In 106-1174 Soft Seat Kit.
- In 106-1175 Catalyst Filter Repair Kit.

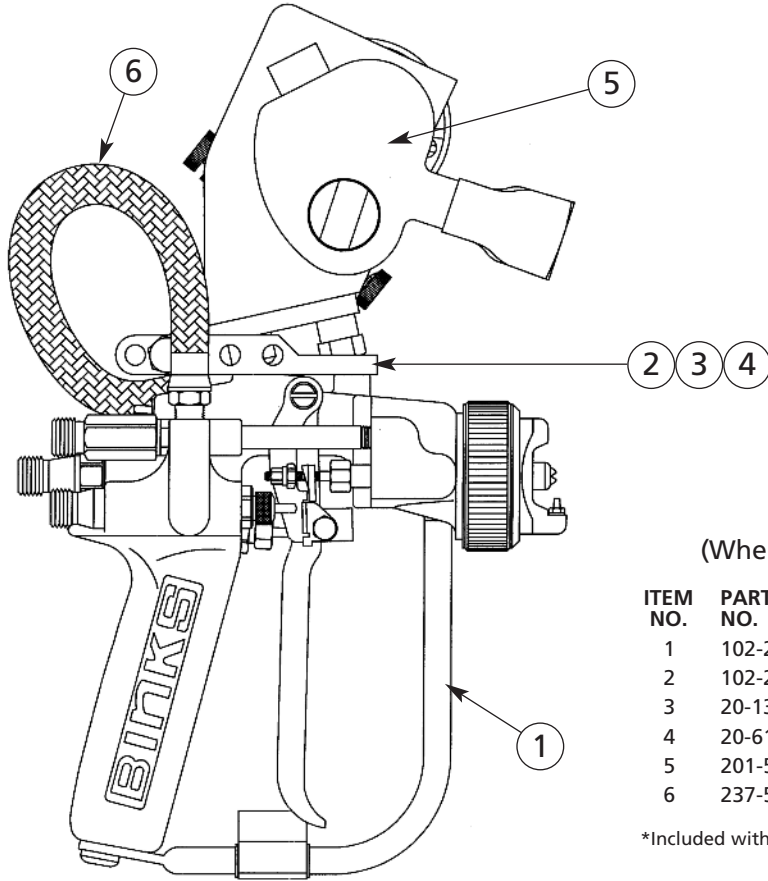
NOTE: Parts marked with * are only available from Binks in Quantity Packs or Repair Kits. Refer to the Repair Kits List for order numbers. See Price List for minimum order quantities.

ACCESSORIES

- 102-2435 1/4" NPS Resin Inlet Assembly.
- 102-2447 Soft Resin Seat.

TOOLS LIST

- 3/16" IGNITION WRENCH
- 5/16" IGNITION WRENCH
- 3/8" WRENCH
- 7/16" WRENCH
- 9/16" WRENCH
- 3/16" HEX KEY
- 2 FLAT SCREWDRIVERS
- 5/64" DOWEL PIN
- 13/64" DOWEL PIN

MODEL 102-2455 CENTURY CHOPPER GUN ASSEMBLY**PARTS LIST**

(When ordering, please specify Part No.)

ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	102-2400	CENTURY GUN ASSEMBLY	1
2	102-2661	MOUNT BRACKET	1
3	20-1374	SCREW, FLAT HEAD SLOTTED	1
4	20-6154	SCREW, FLAT HEAD SLOTTED	1
5	201-510	K-510 CHOPPER ASSEMBLY	1
6	237-573	CHOPPER AIR HOSE*	REF

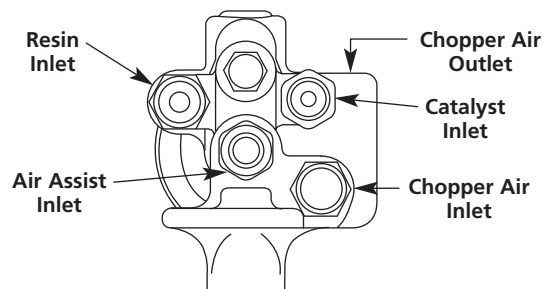
*Included with the 201-510 Chopper Assembly

Refer to Part Sheet 77-2475 for Chopper Assembly.

SET-UP INSTRUCTIONS

1. Connect air hose to air assist inlet (53) and tighten securely. Set regulator to provide sufficient air at nozzle (3-10#).
2. Connect high pressure airless fluid hose from the resin pump to the resin inlet (48) and tighten securely. Set pumping source to deliver resin from 500-1500 psi.
3. Connect the catalyst hose to the catalyst inlet/filter assembly (42) and tighten securely.
4. If using chopper (102-2455 gun), connect the chopper air hose to the chopper air inlet (52) and tighten securely.
5. Loosen the two nuts on the catalyst needle (16, 17) and move them forward so that the trigger actuates them simultaneously with engagement of the resin needle. Once finished, reposition them again so that they are engaged just as the resin needle nut is engaged when triggering the gun.
6. Assemble the spray tip assembly and the air/catalyst cap and tighten the air/catalyst cap retainer ring (1) securely.
7. Set fluid pressure to achieve low pressure airless pattern with "fingers".
8. Adjust atomizing air until the "fingers" have been removed from the spray pattern and proper atomization has been achieved. If atomizing air seems excessive (overspray) increase fluid pressure and reduce air. (Check pattern). (Excessive atomizing air can impair catalyzation.)

REAR VIEW OF GUN



**NOTE: All inlets are 1/4" male. (For 102-2400, 102-2455 and 102-2500)
(102-2545 has 3/8" NPS resin inlet)**

OPERATING INSTRUCTIONS

Your new Binks Century Gun will give you excellent performance as long as it is handled properly. Read over these sections before operating the gun.

NOTE

Whenever the gun is not in operation set the trigger lock by rotating the trigger (62) as far forward as it will go and then rotating the locking block in its upward orientation.

CATALYZATION

The catalyst orifice should be sized to minimize catalyst pressure. Over-catalyzation can show up as a split pattern, misting of the resin, streaking of the catalyst in the resin, or detection of catalyst fumes. A wide range of catalyst injectors is available to accommodate your specific needs. Refer to the *Catalyst Injector Selection Chart* for the various orifice sizes.

Catalyst fumes should be minimal. The Binks Century guns utilize external advanced catalyzation technology, "EXACT" which mixes all of the catalyst exiting the catalyst injector into the resin stream.

FLUID/AIR PRESSURE OF THE RESIN/GEL-COAT

To reduce overspray and obtain maximum efficiency of the Century gun, the fluid and air pressure should be reduced to their lowest possible pressures that produce acceptable atomization and finish.

Typically, for unfilled resins and unpigmented gel-coats, the fluid pressure needed for proper atomization is approximately 200-700 psi. For filled resins and pigmented gel-coats, the fluid pressure will be significantly higher, approximately 400-1500 psi.

Depending on your system, the fluid pressures you use will vary higher or lower than these numbers, but they serve as a good starting point.

Typically, the pressure setting at nozzle for the atomizing air will be from 3 to 10 psi, although pressures up to 30 psi are acceptable. The atomizing air is necessary for proper catalyzation and therefore should not be reduced below 5 psi. Also, depending upon the catalyst, it may be necessary to increase/decrease the atomizing air in order to induce proper catalyzation after determining the necessary air pressure for a good spray pattern.

TIMING OF THE AIR, CATALYST AND RESIN VALVES

The timing of the air, catalyst and resin valves is an important factor in the operation of the Century gun.

NOTE

The sequence of operation is: atomizing air, catalyst and resin simultaneously.

The gun will appear to leak if the lag between engaging the atomizing air and the fluid needles is unnecessarily long. While releasing the trigger, the resin and catalyst shut off first and the atomizing air has not shut off yet. The atomizing air will then siphon out any remaining material in the spray tip and/or catalyst injector. This is why it is necessary to adjust the nuts on the resin and catalyst needles so that there exists only a very short interval between the actuation of the atomizing air and the fluid needles.

(continued)

OPERATING INSTRUCTIONS (continued)

However, it is very important that the atomizing air is turned on first. Otherwise, initial catalyzation and spray pattern will be poor upon triggering the gun.

NOTE

With tip wear, resin flow will slowly increase.

CHOPPER TRIGGER OPERATION (102-2400 GUN ONLY)

The Century gun is equipped with a special chopper trigger (54). This device allows simple on/off capabilities plus the ability to run/load the chopper without triggering the gun at all. To set the chopper trigger to its "on" position rotate the on/off selector (56) as far clockwise as it will go. To set the chopper trigger to its "off" position simply rotate the on/off selector as far counter-clockwise as it will go. To run the chopper without triggering the gun and, with the gun in your right hand, set the on/off selector to "on", place your right index finger on the trigger pad of the chopper trigger sub-assembly (54) and pull back on the chopper trigger until the chopper air valve (26) is engaged.

NOTE

This can also be done by a left-handed operator, but it is a little difficult to reach under the bridge of the handle to actuate the chopper trigger.

BINKS CENTURY GUN SUGGESTED SPARE PARTS

PART NO.	QTY. PER PKG.	DESCRIPTION
108-9XXYY	1	Tungsten Carbide Nozzle and 2 tip seals per nozzle. (size determined by application) XX = Orifice size in thousandths YY = Spray width at 12"
106-1171	1	Repair Kit, Fluid Valves/Seats
106-1172	1	Repair Kit, Air Valve
106-1173	15 sets	Kit, Nozzle O-Rings (20-4542, 20-6296)
106-1174	See Description	Soft Seat Kit (10 Resin, 5 Catalyst)
106-1175	5 sets	Catalyst Filter Repair Kit
106-1176	10	Tip Seal Kit (106-1176)
106-1177	10	Tip Seal Kit (102-2499)
102-25XX	1	Catalyst Injector XX = orifice size in thousandths. Actual size determined by application. (See injector chart)
102-2431	1	Air/Catalyst Cap
102-2494	1	Night Cap

Note: Most o-ring and seals are available in multi-packs. Consult your Binks distributor for availability.

GENERAL MAINTENANCE

DAILY INSPECTION

1. Inspect the gun head o-rings (7 & 8) for cuts or tears and replace if necessary.
2. Check the fluid needles (11 & 19) for signs of material leakage. Tighten fluid packing nuts if leaks are present until leakage stops. If leak does not stop replace the needle packing or needle.

3. Inspect the tip seal (6) for wear or damage and replace if necessary.
4. Inspect filters of system for build-up and clean if necessary.

NOTE

Do not soak o-rings in solvents (swelling will occur).

GENERAL MAINTENANCE (continued)**CLEANING THE SPRAY TIP**

1. Lock the trigger (62) by rotating the locking block in its upward position.
2. Shut off pumps and air supply.
3. Release fluid pressure in entire system.
4. Unscrew air/catalyst cap retainer ring (1) and remove the air/catalyst cap (2) and the tip assembly (5).
5. Remove the tip seal (6) from the tip body.

NOTE

Use care when handling the tip to avoid dropping it, or if cleaning the tip with sharp tool be careful to avoid damage. The tip is made of brittle material which is susceptible to cracking upon contact.

6. Submerge tip in solvent to remove dry or hardened material.
7. Blow air through tip from front to back to remove stuck particles. Hold tip to light to inspect orifice to assure it is clear.

CATALYST INLET/FILTER ASSEMBLY

1. Shut off pumps and air supply.
2. Bleed pressure from entire system.
3. Remove catalyst hose from gun.
4. Using a 9/16" wrench and a 7/16" wrench unscrew the material inlet (47) from the tube assembly (43), revealing the filter screen (45).
5. Inspect the filter screen for build-up or damage.
6. If the filter screen needs to be cleaned or replaced, unscrew the filter support (46) with your fingers and slide the filter screen off of it, clean or replace.

7. Inspect o-ring (44) on the tube assembly for cuts or tears and replace if necessary.
8. Reassemble in reverse order.

OVERNIGHT SHUT-DOWN

1. Shut off pumps (in down position) and air supply.
2. Bleed pressure from entire system.
3. Remove the air/catalyst cap retainer ring (1) and remove the air/catalyst cap (2), and the spray tip assembly (5). Inspect the tip seal (6) and replace if worn or damaged.
4. Remove the two o-rings (7 & 8) from the grooves of the gun head (74). Inspect o-rings for cuts or tears and replace if necessary.
5. Wipe off face of the gun head with a solvent dampened rag.
6. Replace o-rings onto the front of the gun head and place the night cap (67) onto the gun head so that the larger face of the night cap traps the o-rings against the gun head in the same way as the air/catalyst cap does. In many cases, lubricant will provide protection for o-rings and head during shutdown.
7. Screw the air/catalyst cap retainer ring back onto the gun head snugly against the night cap. Do not over-tighten.
8. Clean the air/catalyst cap with solvent dampened rag or place in solvent. Be very careful to not scratch the bottom surface of the air/catalyst cap as this will cause it to leak catalyst into the air passages when in service.

REPLACEMENT OF WORN PARTS**PRECAUTIONARY NOTE**

Do not disassemble or work on the Binks Century gun without first doing the following:

1. Shut off the fluid pumps and air supply.
2. Release the fluid pressure in the gun and the entire system.
3. Remove the gun from fluid hoses.

If you do not follow these steps you may injure yourself and/or nearby personnel.

REPLACING THE CATALYST NEEDLE PACKING

1. Using two standard screwdrivers, remove the trigger stud (60), the trigger screw (61), the trigger (62), and the chopper trigger assembly (54) (102-2400 only).
2. Unscrew the catalyst packing nut (23) with a 3/8" wrench and pull the catalyst needle assembly (19) straight back until it comes out of the gun head. Be sure to pull the needle out without bending it up or down or side to side as this will cause the needle to bend, thus ruining the needle.
3. Clean the needle assembly so that you may be able to clearly identify the packing (21).
4. The packing is the only non-metal piece of the needle assembly and is white in color. Note its location and orientation on the wire of the needle. Cut the worn packing away with a sharp knife being sure not to scratch or deform any nearby parts.
5. Carefully spread the new packing apart, about 3/64" at the edge (this can be done easily with an X-acto type knife) and press the packing onto the wire of the needle assembly in the same location and orientation as noted in step 4. Gently squeeze the packing closed with fingers.

NOTE

The cone face of the packing should point towards the needle point of the needle assembly.

6. Slide the packing forward and back with your fingers to assure a proper fit onto the wire.
7. Reassemble in reverse order.

REPLACING THE CATALYST SEAT

1. Repeat steps 1 thru 4 from section "Replacing the Resin Seat".
2. Unscrew the catalyst packing nut (23) with a 3/8" wrench and pull the catalyst needle assembly (19) straight back until it comes out of the gun head. Be sure to pull the needle out without bending it up or down or side to side as this will cause the needle to bend, thus ruining the needle.
3. Place gun head on a flat clean surface with the back of the gun head against the surface. This will require a hole or recess in the surface such that the alignment cone on the back of the gun head does not rest against anything.
4. Align a 5/64" dowel pin (69) (available in Repair Kit 106-1171) with the hole in the center groove of the gun head. Move the dowel pin straight down into the hole until it seats against the catalyst seat (18), this will be about 3/16" from the surface of the gun head with the three large grooves. Press the seat out. This is most easily done on a drill press or arbor press.
5. Now place the front of the gun head against a flat clean surface such that the surface of the gun head that has the three large grooves seats against the flat surface. (See section "Replacing the Resin Seat", step 8, for the size of the hole needed to accomplish this orientation.)

(Continued)

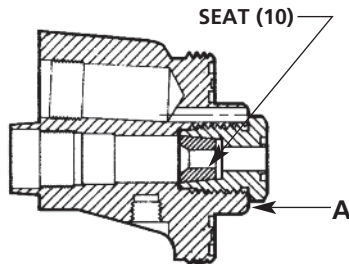
REPLACEMENT OF WORN PARTS *(continued)*

6. Put the new catalyst seat into the hole of the gun head that the catalyst needle assembly came out of. The small end of the catalyst seat must go in first. The seat should drop down into the gun head.
7. The seat now needs to be pressed into place such that a tight fit is created between the resin seat and the walls of the gun head that retain it. Use a 1/4" diameter dowel to press the seat tight. Be careful not to scratch the walls of the gun head. A drill press or arbor press is best for this operation.
8. Reassemble in reverse order.

REPLACING RESIN SEAT

NOTE:

Head insert (72) must be tightened down flush to surface "A".



1. Remove air/catalyst cap retainer ring (1), air/catalyst cap (2), the spray tip assembly (5), and the two o-rings (7 & 8) from the gun head.
2. Pull the trigger (62) to unseat needle from the seat (10) and remove head insert (72) with a 13/16" wrench. Remove seal (73) and replace with new seal.
3. Place head insert on a flat clean surface with the back of the hex of the head insert against the surface. This will require a hole or recess in the surface such that the head insert does not rest against anything. A 9/16" diameter hole with a minimum depth of one inch would accommodate this. Align 13/64" dowel pin (70) (available in Repair Kit 106-1171) with the center of the hole of the head insert. Move the dowel pin straight down until it seats against the resin seat (10). This will be about 1/2" from the top surface to the head insert. Press the seat out. This is most easily done on a drill press or arbor press.
4. Now place the front of the head insert with grooves against a flat clean surface.
5. Put the new resin seat into the tapered hole of the head insert. The small end of the resin seat must go in first. The seat now needs to be pressed in place such that a tight fit is created between the resin seat and the walls of the head insert that retain it. Use 3/8" diameter dowel pin (71) (available in Repair Kit 106-1171) to press the seat tight. A drill press or arbor press is best for this operation.
6. Reassemble in reverse order.

REPLACING THE RESIN NEEDLE PACKING

1. Remove the button head screw (65) that retains the guard assembly (64) by using a 3/16" hex key; remove the guard assembly.
2. Using two standard screwdrivers, remove the trigger stud (60), the trigger screw (61), the trigger (62), and the chopper trigger assembly (54).
3. Using 3/8" wrench or socket, remove the head retainer (51).
4. Slide the gun head (9) as far forward as it will go with your hands. Do not use excessive force.
5. Unscrew the resin packing nut (15) with a 3/8" wrench and pull the resin needle assembly (11) straight back until it comes out of the gun head. Be sure to pull the needle out without bending it up or down or side to side as this will cause the needle to bend, thus ruining the needle.
6. Clean the needle assembly so that you may be able to clearly identify the packing (13).
7. The packing is the only non-metal piece of the needle assembly and is white in color. Note its location and orientation on the wire of the needle. Cut the worn packing away with a sharp knife being sure not to scratch or deform any nearby parts.
8. Carefully spread the new packing apart, about 3/64" at the edge (this can be done easily with an X-acto type knife) and press the packing onto the wire of the needle assembly in the same location and orientation as noted in step 7. Gently squeeze the packing closed with fingers.

NOTE

The cone face of the packing should point towards the ball of the needle assembly.

9. Slide the packing forward and back with your fingers to assure a proper fit onto the wire.
10. Reassemble in reverse order.

REPLACING THE RESIN NEEDLE ASSEMBLY

1. Repeat steps 1 thru 5 from section "Replacing the Resin Needle Packing" above.
2. Replace worn needle assembly with new needle assembly.
3. Reassemble in reverse order.

REPLACING THE CATALYST NEEDLE ASSEMBLY

1. Repeat steps 1 and 2 from the section "Replacing the Catalyst Needle Packing" above.
2. Replace worn needle assembly with new needle assembly.
3. Reassemble in reverse order.

REPLACEMENT OF WORN PARTS (continued)**REPAIRING THE AIR ASSIST VALVE ASSEMBLY**

1. Repeat steps 1 and 2 from section “*Replacing the Resin Needle Packing.*”
2. Using a 9/16” wrench remove the air assist valve assembly (33), seal (38), and spring (39).
3. Remove the nut (34) from the body (36); the packing (35) can be replaced if necessary.
4. Remove and inspect the valve assembly (37) from the body and replace if necessary.
5. Replace the spring if necessary. Replace the seal (38) and reassemble in reverse order.

REPAIRING THE CHOPPER AIR VALVE ASSEMBLY

1. Repeat step 2 from section “*Replacing the Resin Needle Packing.*”
2. Remove the chopper valve assembly (26), from the handle (41).
3. Using a screwdriver, remove the screw (86) from the chopper valve assembly (26).
4. Manually pull and remove the screw (28), with attached components from the air valve body (84).
5. Remove and replace the o-ring, (29), from the stem (88).
6. Lubricate the o-ring and inside surface of the air valve body (84) with petroleum jelly.
7. Re-assemble the chopper air valve in the reverse order.

NOTE

Periodic lubrication of the chopper air valve assembly is necessary to ensure smooth operation.

The OLD style chopper air valve assembly (102-2618) is no longer supported by Binks. Contact Binks to obtain the NEW style chopper air valve assembly.

CATALYST INJECTOR SIZING CHART

Assembly Number	Orifice Size	Gel/Resin Tip Sizes
102-2513	.013	.013 - .018
102-2515	.015	.015 - .021
102-2518	.018	.015 - .021
102-2521	.021	.021 - .031
102-2526	.026	.026 - .043
102-2531	.031	.031 - .052
102-2536	.036	.043 - .072

NOTE

These are general recommendations. Due to variations in viscosities of catalyst and resin (Gel-Coat), actual optimal sizing may differ. The intent is to optimize mix by minimizing catalyst pressure.

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

77-2520R-12 Revisions: Trademark updates.