

**HVLP AIR CAP AND FLUID NOZZLE CHART**

MODEL NO.	AIR CAPS	*MAX GUN INLET PRESS.(PSI) FOR HVLP	FAN CONTROL ORIFICE	SCFM @ MAX GUN INLET	AIR CAP RING	AVAILABLE FLUID NOZZLE TIPS	NEEDLES/ marking on needle		
L100H			60-1502 (#2)			31-0205 0.5mm (.020")	40-1100 (100)		
	21-1090	13		6	21-1001	31-0208 0.8mm (.022")			
	21-1091	15		8	21-1001	31-0210 1.0mm (.040")			
	21-1092	15		8	21-1001	31-0212 1.2mm (.046")			
	21-1093	18		10	21-1001	31-0213 1.3mm (.052")			
	21-1095	50		22.5	21-1001	31-0214 1.4mm (.055")			
	21-1097	50		22.5	21-1001	31-0215 1.5mm (.059")			
	21-1195	50		22.5	Included	31-0216 1.6mm (.063")			
	21-1197	50		22.5	Included	31-0217 1.7mm (.070")			
								31-0412 1.2Fmm (.046")	40-1112F (112F)
								31-0414 1.4Fmm (.055")	40-1114F (114F)
								31-0417 1.7Fmm (.070")	40-1117F (117F)

\*Note: Air cap test gages are available to confirm HVLP compliance.

**CONVENTIONAL AIR CAP AND FLUID NOZZLE CHART**

MODEL NO.	AIR CAPS	*SUGGESTED GUN INLET PRESS.(PSI)	FAN CONTROL ORIFICE	SCFM	AIR CAP RING	AVAILABLE FLUID NOZZLE	NEEDLES/ marking on needle
L100C	21-2163	50	60-1500	8	Included		
	21-2263	50		14			
	21-2263-E	50		15		31-0606 0.6mm (.022")	40-1107 (107)
	21-2363	50		13.6		31-0607 0.7mm (.028")	40-1107 (107)
	21-2166	50		5		31-0610 1.0mm (.040")	40-1110 (110)
	21-2266	50		12		31-0612 1.2mm (.046")	40-1110 (110)
	21-2266-3	50		16.2		31-0613 1.3mm (.052")	40-1110 (110)
	21-2366	50		12		31-0615 1.5mm (.059")	40-1115 (115)
	21-2466	50		15		31-0618 1.8mm (.070")	40-1115 (115)
	21-2167	50		14.5		31-0622 2.2mm (.086")	40-1122 (122)
	21-2267	50		15		31-0628 2.8mm (.110")	40-1128 (128)
	21-2168	50		14			
	21-200**	50		5.2			
	21-201**	50		5.2			

Actual fluid nozzle and air cap combinations are determined by application (see application charge page 4).

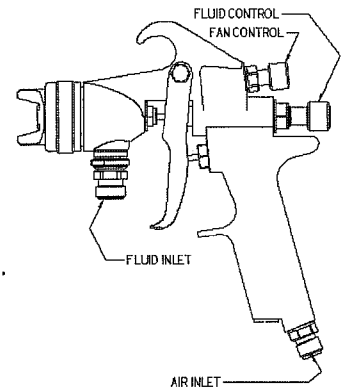
\*Gun inlet pressures may vary as required by application

\*\*200 air cap requires P/N 21-1583 base & 21-1584 ring.

# Operation and maintenance instructions for *Lynx* spray guns

## Operation

1. Connect air supply hose at handle of gun.
2. Connect a pressurized fluid supply or paint siphon cup to the gun fluid inlet.
3. Fluid flow can be controlled using the fluid control knob, this restricts flow by limiting needle travel. It is best to control fluid flow by proper selection of fluid orifice size and use the fluid control knob to "fine tune flow rate".
4. Fan width can be adjusted using fan control knob. Turning the knob clockwise narrow the fan.



## Maintenance

**IMPORTANT!** Routine cleaning and maintenance is essential to insure proper gun operation.

Several states prohibit spraying solvent into the atmosphere and require the use of a covered gun cleaner.

1. If a gun cleaner is being used, connect and clean the gun in the gun cleaner according to the manufactures instructions.
2. If a gun cleaner is not being used:
  - For pressure set-ups, remove air cap and clean separately using clean solvent.
  - Connect a pressurized solvent supply to the fluid inlet, trigger the gun allowing solvent to flow thru the gun until clean.
  - For siphon set-ups, first clean the siphon cup thoroughly then spray clean solvent thru the gun until clean.

**NOTE: Gun head disassembly is not recommended for normal cleaning and maintenance.**

## Gun head disassembly and reassembly instructions

### Gun head disassembly

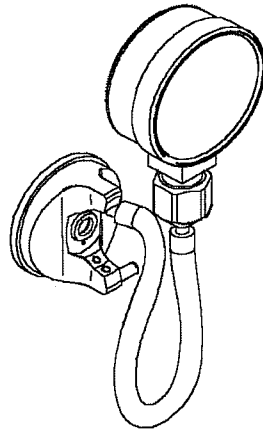
To remove the nozzle carrier (6) and air cap adapter (7):

1. Remove the air cap (2), fluid nozzle tip (3), fluid nozzle body (4), and needle (14)
2. Remove the needle seal cartridge (24)
3. Loosen the locknut (10) and remove fluid inlet (11) using a 5/8" open-end wrench.
4. The nozzle carrier and air cap adapter will now slide forward from the gun handle (12).

### Gun head reassembly

1. Install a new o-ring (8) on the air cap adapter
2. For model L300H only, install a new o-ring 98-8026 onto the air cap adapter
3. Install the thread locknut (10) onto the fluid inlet as far as possible.
4. Slide the nozzle carrier (6) into air cap adapter (7) and insert into the gun body as far as possible. Be sure the nozzle carrier extends into the hole at the back of the gun head. Install the needle seal (24) but do not tighten.
5. Rotate the nozzle carrier until the fluid inlet port in the nozzle carrier is aligned with the threaded hole in the gun body. While in this position, insert the fluid inlet (11) and tighten firmly.
6. Tighten the needle seal (24) to approx. 12 ft-lb. torque.
7. Tighten the fluid inlet (11) to approx. 25 ft-lb. torque.
8. Tighten the locknut (10) to approx. 33 ft-lb. torque.

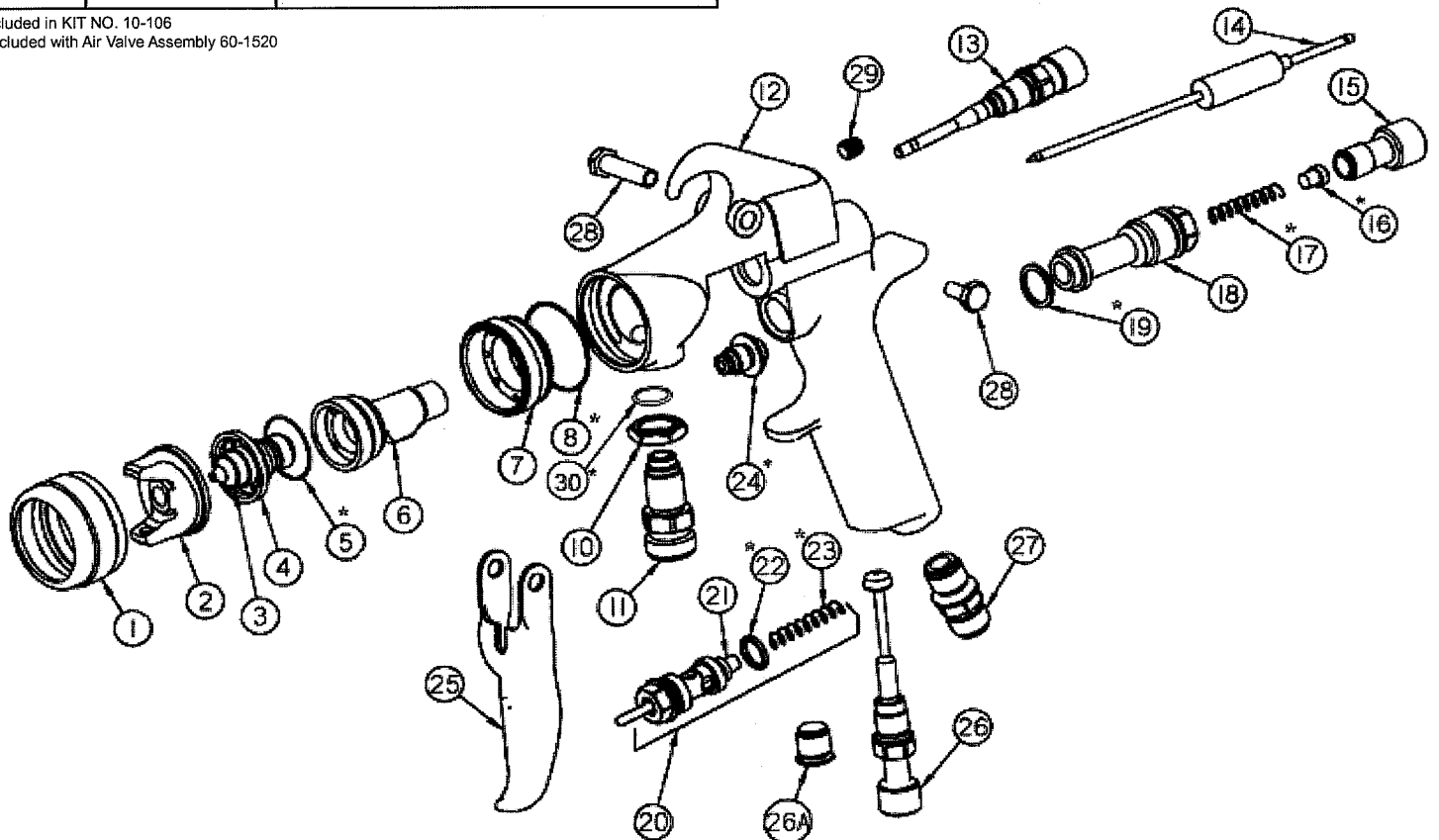
ITEM NUMBER	PART NUMBER	DESCRIPTION
1	See Air Cap Chart	AIR CAP RING
2	See Air Cap Chart	AIR CAP
3	See Air Cap Chart	FLUID NOZZLE TIP
4	31-1201 for L100H	FLUID NOZZLE BODY
	31-2201 for L100H	FLUID NOZZLE BODY
5	61-1005 for L100C Only	GASKET*
6	60-L11H for L100H	NOZZLE CARRIER
	60-L12C for L100C	NOZZLE CARRIER
7	60-12H for L100H	AIR CAP ADAPTER
	60-11C for L100C	AIR CAP ADAPTER
8	60-131	O-RING*
10	60-128	LOCKNUT
11	60-126	FLUID INLET FITTING
12	60-1114	LYNX GUN BODY HVLP
	60-1124	LYNC GUN BODY CONV.
13	60-1502 for L100H	FAN CONTROL ASSEMBLY
	60-1500 for L100C	FAN CONTROL ASSEMBLY
14	See Air Cap Chart	FLUID NEEDLE
15	60-202	FLUID CONTROL KNOB
16	60-205	SPRING SEAT*
17	60-204	NEEDLE RETURN SPRING*
18	60-201	REAR BUSHING
19	60-119	SEAL*
20	60-1520	AIR VALVE ASSEMBLY
21	60-302**	AIR VALVE POPPET
22	60-125	O-RING*
23	61-1003	AIR VALVE SPRING*
24	60-1400*	NEEDLE SEAL CARTRIDGE
25	60-2101	TRIGGER
26	60-1510	AIR CONTROL
26A	60-122	PLUG (OPTIONAL)
27	60-104	AIR INLET FITTING
28	60-1033	TRIGGER PIVOT SET
29	98-109	ALLEN PLUG
30	60-124	FLUID INLET SEAL*



HVLP AIR CAP TEST GAGES	
FOR L100H GUNS	21-1090-G
	21-1092-G
	21-1093-G
	21-1095-G
	21-1097-G
	21-1195-G
	21-1197-G

\*Included in KIT NO. 10-106

\*\*Included with Air Valve Assembly 60-1520



**FLUID NOZZLE/AIR CAP SELECTION CHARTS**  
**LYNX SERIES 100 - PRESSURE/SYPHON FEED GUNS**

**L100H HVLP SPRAY GUN**

MATERIAL TYPE	FLUID ORIFICE x AIR CAP	MAXIMUM PATTERN WIDTH	PRESS./SIPHON
<b>Very Thin</b> less than 16 sec. Zahn #2 inks, dyes, solvents, stains	0.5, 0.8 mm x 1090 0.5, 0.8 mm x 1092	10 11	P P
<b>Thin</b> 16 to 20 sec. Zahn #2 lacquers, enamels, primers, sealers	1.0, 1.2 mm x 1092 1.1, 1.2 mm x 1093	11 12	P P
<b>Medium</b> 21 to 30 sec. Zahn #2 automotive base coat enamels, primers epoxies, urethanes, automotive clear coat	1.3, 1.4, 1.5 mm x 1093 1.3, 1.4, 1.5 mm x 1095 1.3, 1.4, 1.5 mm x 1097	12 12 13	P P P
<b>Heavy</b> over 30 sec. Zahn #2 heavy body primers high solid enamels high solid automotive coatings adhesives	1.6, 1.7 mm x 1095 1.6, 1.7 mm x 1097 1.6, 1.7 mm x 1195 1.6, 1.7 mm x 1197	12 13 13 14	P P P P

**L100C CONVENTIONAL SPRAY GUN**

MATERIAL TYPE	FLUID ORIFICE x AIR CAP	MAXIMUM PATTERN WIDTH	PRESS./SIPHON
<b>Very Thin</b> less than 16 sec. Zahn #2 inks, dyes, solvents, stains	0.6, 0.7 mm x 2163 0.6, 0.7 mm x 2166 0.6, 0.7 mm x 2266	8 9 12	P S S
<b>Thin</b> 16 to 20 sec. Zahn #2 lacquers, enamels, primers, sealers	0.6, 0.7, 1.0 mm x 2163 0.6, 0.7, 1.0 mm x 2366 0.6, 0.7, 1.0 mm x 2466	8 14 13	P S S
<b>Medium</b> 21 to 30 sec. Zahn #2 automotive base coat enamels, primers epoxies, urethanes, automotive clear coat	1.2,1.3,1.5,1.8mm x 2263 1.2,1.3,1.5,1.8mm x 2266 1.2,1.3,1.5,1.8mm x 2266-3 1.2,1.3,1.5,1.8mm x 2466	14 10 15 13	P S S S
<b>Heavy</b> over 30 sec. Zahn #2 heavy body primers high solid enamels high solid automotive coatings adhesives	1.5, 1.8 mm x 2466 2.2 mm x 2167 2.2 mm x 2267 2.8 mm x 2168	13 12 15 12	S P P P