C.A.Technologies

PRODUCT INFORMATION

CPR H_2O

SPRAY GUN

AIR CAPS

The CPR H_2O gun comes equiped with both a pressure reduced air cap 23-2101 and an HVLP air cap 23-1301 **for areas requiring HVLP compliance.**

23-2101 consumes 11 cfm at 29 psi gun inlet.

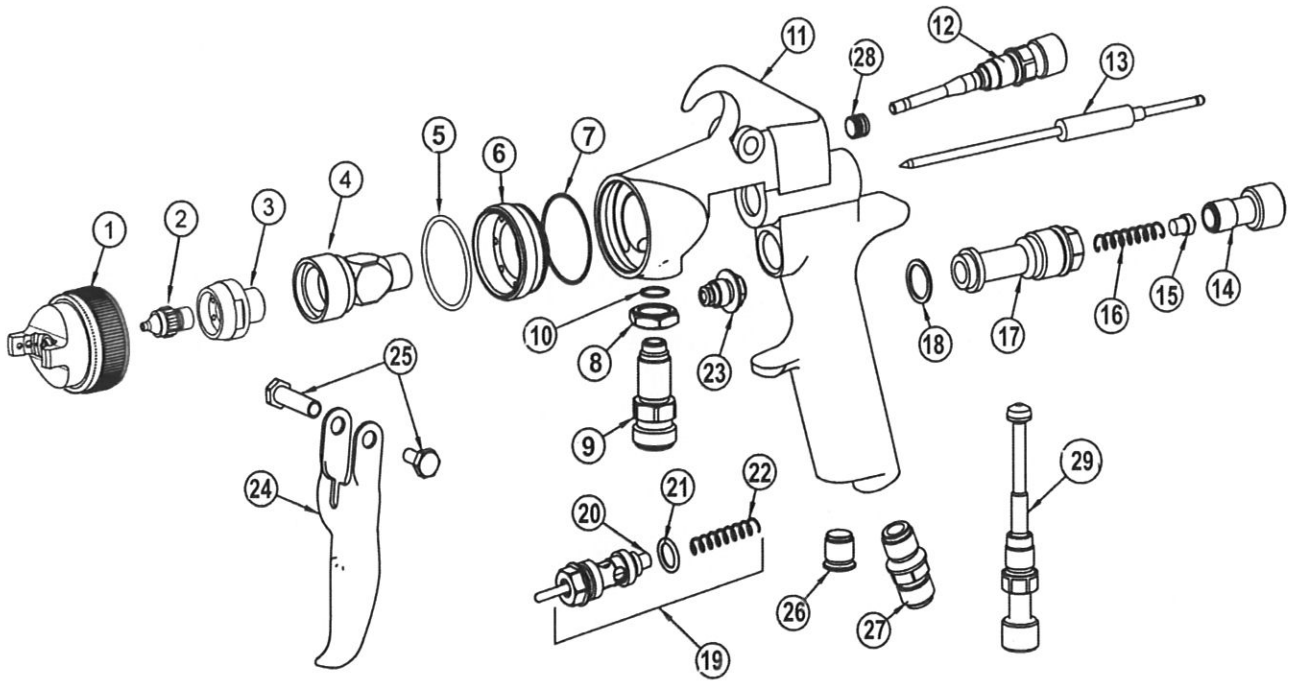
23-1301 consumes 13.5 cfm at 29 psi gun inlet.

Both air caps can be used with the full range of fluid orifices listed below.

FLUID ORIFICES and NEEDLES

ORIFICE PART # AND SIZE		NEEDLE	
33-0208	0.8mm (.022")	40-1308	
33-0210	1.0 mm (.040")	40-1310	
33-0213	1.3 mm (.052")	40-1313	INCLUDED IN CAT PACK
33-0214	1.4 mm (.055")	40-1314	
33-0215	1.5 mm (.059")	40-1315	INCLUDED IN CAT PACK
33-0217	1.7 mm (.070")	40-1317	INCLUDED IN CAT PACK
33-0219	1.9mm (.075")	40-1319	
33-0222	2.2 mm (.086")	40-1322	

*** 33-0219 & 33-0222 FLUID ORIFICES CAN ONLY BE USED WITH 23-1301 HVLP AIRCAP.**



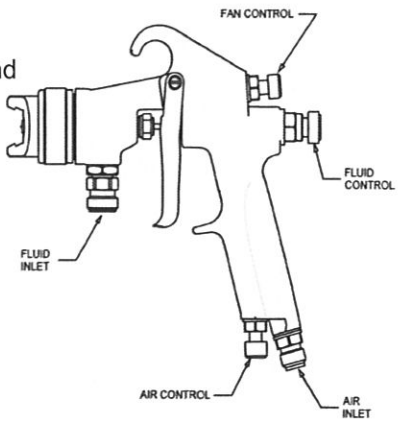
ITEM NO.	PART NO.	DESCRIPTION		ITEM NO.	PART NO.	DESCRIPTION
1	23-xxxx*	AIR CAP (see page 1)		16	60-204**	NEEDLE RETURN SPRING
2	33-xxxx*	FLUID TIP (see page 1)		17	60-201	REAR BUSHING
3	33-1201	FLUID NOZZLE BODY		18	60-119**	SEAL
4	60-L31H	NOZZLE CARRIER		19	60-1520	AIR VALVE ASSEMBLY
5	98-8026**	O-RING		20	60-302	AIR VALVE POPPET
6	60-32H	AIR CAP ADAPTER		21	60-125**	SEAL
7	60-131**	O-RING		22	61-1003**	AIR VALVE SPRING
8	60-128	LOCKNUT		23	60-1400**	NEEDLE SEAL
9	60-126	FLUID INLET		24	60-2101	TRIGGER
10	60-124**	FLUID INLET SEAL		25	60-1033	TRIGGER PIVOT SCREWS
11	60-1120-CPR -H2O	GUN BODY		26	60-122	PLUG (OPTIONAL)
12	60-1501	FAN CONTROL		27	60-104	AIR INLET FITTING
13	40-xxxx*	NEEDLE (see page 1)		28	98-109	ALLEN PLUG
14	60-202	FLUID CONTROL KNOB		29	60-1510	INLET AIR CONTROL
15	60-205**	SPRING SEAT				

*See page 1

** Indicates part included in repair kit # 10-106

Operation and maintenance for CPR H_2O spray gun

OPERATION



1. Connect air supply hose at handle of gun. 5/16" air hose x 25 ft max. length is recommended. Also, use only CAT high flow quick disconnects and avoid using any restrictive fittings for the air supply to the gun.
2. Connect a pressurized and regulated fluid supply to 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 flow by selecting a fluid orifice size that gives the desired material flow rate with the fluid pressure adjusted between 3 and 9 psi. Then use the fluid control knob to "fine tune" flow rate.
4. Fan width can be adjusted using the fan control knob. Turning the knob clockwise narrows the fan.

MAINTENANCE

IMPORTANT! Routine cleaning and maintenance is essential to insure proper gun operation.
Several states prohibit spraying 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 according to the gun cleaner manufacturer's instructions.
2. If a gun cleaner is not being used:
   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.

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

Gun disassembly and reassembly

Have repair kit #10-106 available before gun disassembly.

Disassembly

To remove nozzle carrier (4) and air cap adapter (6):

1. Remove the air cap (1), fluid tip (2), fluid nozzle body (4) and needle (13)
2. Remove needle seal cartridge (23)
3. Loosen locknut (8) and remove fluid inlet (9).
4. The fluid nozzle carrier (4) and air cap adapter (6) will now slide foward from the gun handle (11)

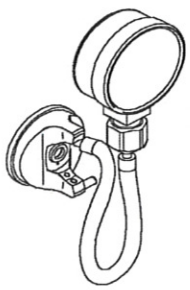
Reassembly

1. Install new o-rings (5) and (7) on the air cap adapter (6).
2. Install air cap adapter into gun body (11).
3. Install the locknut (8) onto the fluid inlet (9) as far as possible.
4. Install a new fluid inlet seal (10) into the recess area on the nozzle carrier (4) inlet port.
5. Slide the nozzle carrier (4) into the air cap adapter (6) as far as possible. Be sure the nozzle carrier extends into the hole at the back of the gun head. Install the needle seal cartridge (23) but do not tighten.
6. Rotate the nozzle carrier (4) until the fluid inlet port in the nozzle carrier is aligned with the threaded hole in the gun body (11). While in this position, insert the fluid inlet (9) and tighten firmly.
7. Tighten needle seal (23) to approx.12 ft-lbs torque.
8. Tighten fluid inlet (9) to approx. 25 ft-lbs torque.
9. Tighten locket (8) to approx. 33 ft-lbs torque.

CPR H_2O SPRAY GUN

FLUID NOZZLE / AIR CAP SELECTION CHART

MATERIAL TYPE	FLUID ORIFICE x AIR CAP	MAX PATTERN WIDTH	CFM @ 29 psi gun inlet
VERY THIN Less than 16 sec. Zahn #2 inks, dyes, solvents, stains	0.8 mm X 23-2101 or 23-1301 1.0 mm X 23-2101 or 23-1301	23-2101 13" 23-1301 12"	23-2101 11 cfm 23-1301 13.5 cfm
Thin 16 to 20 sec. Zahn #2 lacquers, enamels, primers, sealers	1.2 mm X 23-2101 or 23-1301 1.3 mm X 23-2101 or 23-1301	23-2101 13" 23-1301 12"	23-2101 11 cfm 23-1301 13.5 cfm
Medium 21 to 30 sec. Zahn #2 automotive base coat, enamels, primers, epoxies, urethanes, automotive clear coat	1.3 mm X 23-2101 or 23-1301 1.4 mm X 23-2101 or 23-1301 1.5 mm X 23-2101 or23-1301	23-2101 13" 23-1301 12"	23-2101 11 cfm 23-1301 13.5 cfm
Heavy OVER 30 SEC. Zahn #2 heavy body primers, high solid enamels, high solid automotive coatings adhesives	1.7 mm X 23-2101 or 23-1301 1.9 mm X 23-1301 2.2 mm X 23-1301	23-2101 13" 23-1301 12"	23-2101 11 cfm 23-1301 13.5 cfm



HVLP test gage
P/N 23-1301-G
(not included in cat pack)

CPR -H2O SMART PACK INCLUDES:

98-0104 3/8" socket
98-0112 ratchet wrench
60-8001 Gun wrench
98-0113 Gun cleaning brush
Air caps and needles shown on page 1

9/3/09