

C.A. Technologies



PRODUCT INFORMATION

CPR H₂O

GRAVITY SPRAY GUN



AIR CAPS

The **CPR H₂O** gun comes equipped 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.

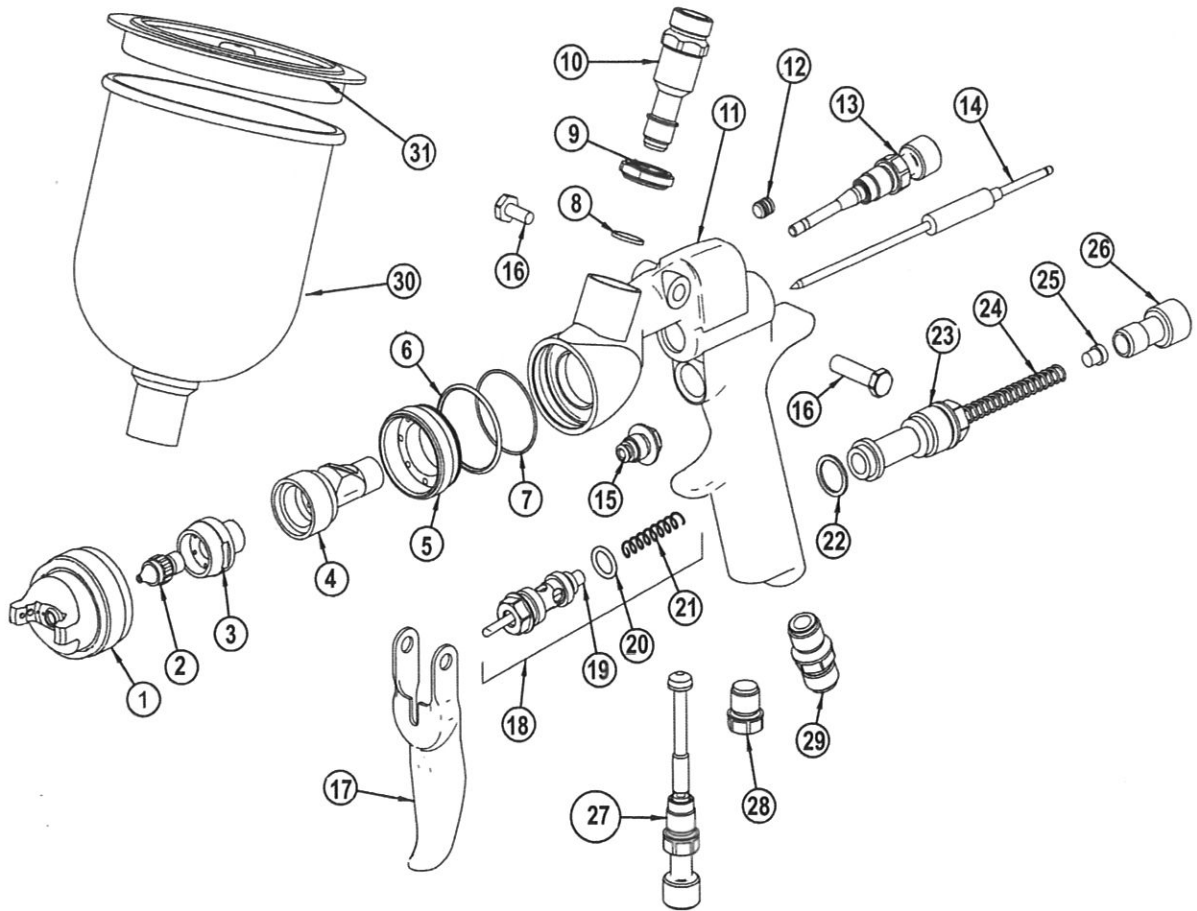
23-1301 consumes 13.5 cfm at 29 psi gun inlet.

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

FLUID ORIFICES

ORIFICE PART # AND SIZE	NEEDLE	INCLUDED IN CAT PACKS
33-0208 0.8mm (.022")	40-1308	
33-0210 1.0 mm (.040")	40-1310	
33-0213 1.3 mm (.052")	40-1313	H20-CPR-G H20-CPR-G-PPS
33-0214 1.4 mm (.055")	40-1314	
33-0215 1.5 mm (.059")	40-1315	H20-CPR-G H20-CPR-G-PPS
33-0217 1.7 mm (.070")	40-1317	H20-CPR-G H20-CPR-G-PPS
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	60-1033	TRIGGER PIVOT SCREWS
2	33-xxxx*	FLUID TIP (see page 1)	17	60-2101	TRIGGER
3	33-1201	FLUID NOZZLE BODY	18	60-1520	AIR VALVE ASSEMBLY
4	60-J31H	NOZZLE CARRIER	19	60-302	AIR VALVE POPPET
5	60-32H	AIR CAP ADAPTER	20	60-125**	SEAL
6	98-8026**	O-RING	21	61-1003**	AIR VALVE SPRING
7	60-131**	O-RING	22	60-119**	SEAL
8	60-124**	FLUID INLET SEAL	23	60-201	REAR BUSHING
9	60-118	LOCKNUT	24	60-204**	NEEDLE RETURN SPRING
10	60-127	FLUID INLET	25	60-205**	SPRING SEAT
11	60-1119-CPR -H20	GUN BODY	26	60-202	FLUID CONTROL KNOB
12	98-109	ALLEN PLUG	27	60-1510	INLET AIR CONTROL
13	60-1504	FAN CONTROL	28	60-122	PLUG (OPTIONAL)
14	40-xxxx*	NEEDLE (see page 1)	29	60-104	AIR INLET FITTING
15	60-1400**	NEEDLE SEAL	30	GRAVITY CUP	SEE PAGE 4
			31	GRAITY CUP LID	SEE PAGE 4

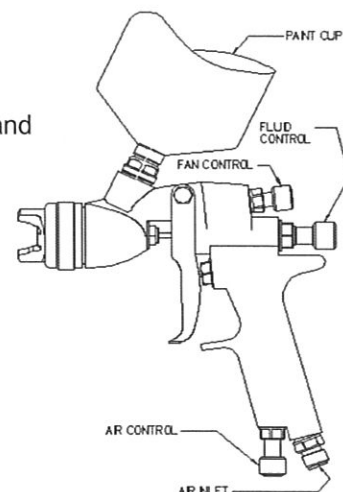
*See page 1

** Indicates part included in repair kit # 10-105

Operation and maintenance for **CPR H₂O** gravity 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 #10-105 available before gun disassembly.

Disassembly

To remove nozzle carrier (4) and air cap adapter (5):

1. Remove the air cap (1), fluid tip (2), fluid nozzle body (3) and needle (14)
2. Remove needle seal cartridge (15)
3. Loosen locknut (9) and remove fluid inlet (10).
4. The fluid nozzle carrier (4) and air cap adapter (5) will now slide forward from the gun handle (11)

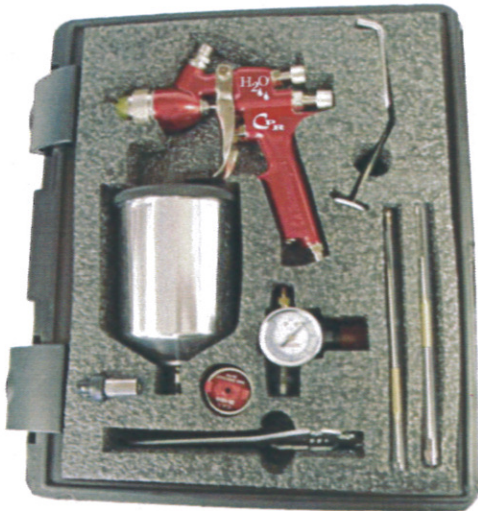
Reassembly

1. Install new o-rings (6) and (7) on the air cap adapter (5).
2. Install air cap adapter into gun body (11).
3. Install the locknut (9) onto the fluid inlet (10) as far as possible.
4. Install a new fluid inlet seal (8) into the recessed area on the nozzle carrier (4) inlet port.
5. Slide the nozzle carrier (4) into the air cap adapter (5) 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 (15) 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 (10) and tighten firmly.
7. Tighten needle seal (15) to approx. 12 ft-lbs torque.
8. Tighten fluid inlet (10) to approx. 25 ft-lbs torque.
9. Tighten locknut (8) to approx. 33 ft-lbs torque.

CPR H₂O GRAVITY GUN

FLUID NOZZLE / AIR CAP SELECTION CHART

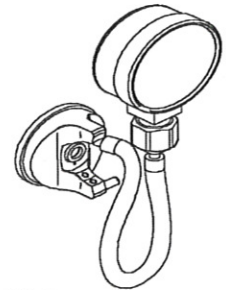
MATERIAL TYPE	FLUID ORIFICE x AIR CAP	MAX PATTERN WIDTH	CFM @ 29 psi gun inlet
VERY THIN Less than 16 sec. Zahn #2 inks, dyes, solvents, stains	0.8 mm X 23-2101 or 23-1301 1.0 mm X 23-2101 or 23-1301	23-2101 13" 23-1301 12"	23-2101 11 cfm 23-1301 13.5 cfm
Thin 16 to 20 sec. Zahn #2 lacquers, enamels, 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 or 23-1301	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



CAT PACKS H2O- CPR-G INCLUDES:
 51-401 750CC ALUMINUM GRAVITY CUP
 51-418 GRAVITY CUP LID
 52-300 MINI REGULATOR
 60-8001 GUN WRENCH
 98-0113 GUN CLEANING BRUSH
 98-0104 3/8" SOCKET
 98-0112 RATCHET WRENCH
 51-430 GRAVITY GUN HOOK
 AIR CAPS AND NOZZLES SHOWN ON PAGE 1



CAT PACK H2O-CPR-G-PPS INCLUDES:
 91-465 ONE QUART CUP AND COLLAR
 91-466-H2O LIDS AND LINERS
 (ALSO AVAILABLE IN 50 PACK P/N 91-466-50-H2O)
 52-300 MINI REGULATOR
 60-8001 GUN WRENCH
 98-0113 GUN CLEANING BRUSH
 98-0104 3/8" SOCKET
 98-0112 RATCHET WRENCH
 91-474 #2 ADAPTER
 AIR CAPS AND NOZZLES SHOWN ON PAGE 1



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