

AutoCAT 300C

AUTOMATIC SPRAY GUN PRODUCT INFORMATION



CONVENTIONAL AIR CAP AND FLUID NOZZLE CHART

MODEL NO.	AIR CAPS	Press / Siphon	*SUGGESTED GUN INLET PRESS.	FAN CONTROL ORIFICE	SCFM	AIR CAP RING	AVAILABLE FLUID NOZZLES	NEEDLES / marking on needle
A300C	23-2010*	p/s	45-55	None	9-10.7	23-0201	33-0608 0.8mm (.022")	40-A308 (308)
							33-0610 1.0mm (.040")	40-A310 (310)
	23-2013*	p/s	45-55		9-10.7		33-0613 1.3mm (.052")	40-A313 (313)
	23-2014*	p/s	45-55		9-10.7		33-0614 1.4mm (.055")	40-A314 (314)
	23-2016*	p/s	45-55		9-10.7		33-0616 1.6mm (.063")	40-A315 (315)
	Actual fluid no	zzle and air o	cap combinations ar	e determined by	application (see application	chart page 4)	
	*Gun inlet pre	essures may v	ary as required by	application				

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Operation and Maintenance Instructions for A300C Spray Guns

Gun Mounting

A 1/2" dia. x 5" lg. rod is provided for mounting. The gun can be mounted from the left or right side or from the bottom. Thread the mounting rod (9) into one of the three holes that best suit the mounting location for the application. Tighten the locknut (10) to secure the gun in the position desired. Do not plug the remaining holes as they are used as drain holes in the event of a needle seal leak.

Operation: Connections and Adjustments

The automatic gun requires two separate regulated air supply lines.

- 1. Connect one air line to the fitting marked "CYL", this actuates the gun on and off and is usually connected through an air solenoid.
- 2. Connect the second air line to the fitting marked "ATM", this provides atomizing and fan air.
- 3. Connect a pressurized fluid supply to the gun fluid inlet.
- 4. 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".
- 5. Fan width can be adjusted using the fan control knob. Turning the knob clockwise narrows the fan.

Maintenance: Needle Seal Replacement

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

Before beginning needle seal replacement, it is recommended kit no. 10-107 be on hand.

- Several states prohibit spraying solvent into the atmosphere and require the use of covered gun cleaner.
- 1. Remove fluid control knob (36), needle return spring (34), and needle assembly (33).
- 2. Remove end cap (32) and piston return spring (31).
- 3. Piston (29) can be removed with pliers by carefully gripping the hub on the rear of the piston.
- 4. Remove the air control spool (22) using an 11/16" socket to unscrew it from the body.
- 5. The needle seal can be removed using a 7/16" socket with a short extension. Install a new needle seal and torque to approx. 2 ft.-lbs.
- 6. It is recommended that the o-rings on the air control spool (22) and piston (29) be replaced and lubricated before reassembling the gun.

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

Gun head disassembly and reassembly instructions:

Have repair kit # 10-107 available before gun disassembly.

Gun head disassembly

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

- 1. Remove the air cap (1 & 2), fluid nozzle tip (3), fluid nozzle body (4), and needle (33).
- 2. Remove the needle seal cartridge (18) as described above.
- 3. Loosen the locknut (26) using 11/16" wrench and remove fluid inlet (27) using a 5/8" open-end wrench.
- 4. The nozzle carrier (6) and air cap adapter (7) will now slide forward from the gun body (11).

Gun head reassembly

- 1. Install a new o-ring (8) on the air cap adapter (7).
- 2. Install o-ring (5) between fluid nozzle body (4) and nozzle body carrier (6).
- 3. Install the thread locknut (26) onto the fluid inlet (27) as far as possible.
- 4. Install a new fluid inlet seal (25) into the recess area on the nozzle carrier (6) inlet port.
- 5. Slide the nozzle carrier (6) into air cap adapter (7) and insert into the gun body (11) as far as possible. Be sure the nozzle carrier (6) extends into the hole at the back of the gun head. Install the needle seal (18) but do not tighten.
- 6. Rotate the nozzle carrier (6) until the fluid inlet port in the nozzle carrier (6) is aligned with the threaded hole in the body. While in this position, insert the fluid inlet (27) and tighten firmly.
- 7. Tighten the needle seal (18) to approx. 12 ft.-lb. torque.
- 8. Tighten the fluid inlet (27) to approx. 25 ft.-lb. torque.
- 9. Tighten the locknut (26) to approx. 33 ft.-lb. torque.

2 3 4 7 8 1 2 3 6 7 9 12 6 7 9 12 6 7 10 13 15 16 9 12 13 10 10 13 10 22 11 10 13 10 26 25 26 33 1 20 30 31 25 26 33 35 26 20 21 33 27 28 29 34								
ITEM NO. P/	ART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION			
1 See Air C	Cap Chart Air Cap Rin	g**	20 9	98-8006	O-Ring (Teflon)*			
	Cap Chart Air Cap**			98-7006	O-Ring (Viton) 2 Required*			
	Cap Chart Fluid Tip**		22 6	60-603	Air Control Spool			
4 33-2201	Fluid Nozzle			98-7014	O-Ring (Viton) 2 Required*			
	98-8024 O-Ring (Teflon)*			98-7027	O-Ring (Viton) 2 Required*			
60-L31C		ly Carrier (Standard)		60-124	Seal*			
60-A31C		ly Carrier (Recirculating)		60-128	Locknut			
	60-32C Air Cap Adapter			60-126	Fluid Inlet			
8 60-131 9 60-614	O-Ring (Tel	-		98-8010	O-Ring (Teflon)*			
i 9 160-614	Mounting R	ou		60-602	Piston			
	Lealer (O)	(9.16)	20 1/	00 7017	O Ding () / iton)*			
10 98-0115	Locknut (3/	,		98-7217	O-Ring (Viton)*			
10 98-0115 11 60-622	AutoCAT G	8-16) Gun Body Conventional	31 6	66-246	Piston Return Spring			
10 98-0115 11 60-622 12 60-136	AutoCAT G Plug	Sun Body Conventional	31 6 32 6	66-246 60-601	Piston Return Spring End Cap			
10 98-0115 11 60-622 12 60-136 13 98-8108	AutoCAT G Plug O-Ring (Tet	Sun Body Conventional	31 6 32 6 33 5	66-246 60-601 See Air Cap Chart	Piston Return Spring End Cap Needle Assembly			
10 98-0115 11 60-622 12 60-136 13 98-8108 14 98-0108	AutoCAT G Pug O-Ring (Tet Circlip	flon)*	31 6 32 6 33 5 34 6	66-246 60-601 See Air Cap Chart 60-613	Piston Return Spring End Cap Needle Assembly Needle Return Spring			
10 98-0115 11 60-622 12 60-136 13 98-8108 14 98-0108 15 60-605	AutoCAT G Pug O-Ring (Tef Circlip Fan Control	flon)*	31 6 32 6 33 5 34 6 35 6	66-246 60-601 See Air Cap Chart 60-613 60-612	Piston Return Spring End Cap Needle Assembly Needle Return Spring Locknut - Fluid Control Knob			
10 98-0115 11 60-622 12 60-136 13 98-8108 14 98-0108 15 60-605 16 60-606	AutoCAT G Pug O-Ring (Tet Circlip Fan Control Fan Control	I Housing	31 6 32 6 33 8 34 6 35 6 36 6	66-246 60-601 See Air Cap Chart 60-613 60-612 60-608	Piston Return Spring End Cap Needle Assembly Needle Return Spring Locknut - Fluid Control Knob Fluid Control Knob			
10 98-0115 11 60-622 12 60-136 13 98-8108 14 98-0108 15 60-605	AutoCAT G Pug O-Ring (Tet Circlip Fan Control Fan Control	flon)*	31 6 32 6 33 5 34 6 35 6 36 6 37 5	66-246 60-601 See Air Cap Chart 60-613 60-612	Piston Return Spring End Cap Needle Assembly Needle Return Spring Locknut - Fluid Control Knob			

***Air inlet fittings are available in 90 degree elbow . 90 degree elbow tubing "push on" style fittings

P/N 53-520 1/8 NPT x 1/4" OD Tube

P/N 53-521 1/4 NPT x 3/8" OD Tube

Recirculating setups require: Item 6 (recirculating) & items 25, 26, 27 in place of item 12

FLUID NOZZLE / AIR CAP SELECTION CHARTS

AUTOCAT Series 300C - Pressure / Siphon Feed Guns

A300C CONVENTIONAL AUTOMATIC SPRAY GUN

MATERIAL TYPE	FLUID ORIFICE x AIR CAP	MAXIMUM PATTERN WIDTH	PRESS. / SIPHON
Very Thin			
less than 16 sec. Zahn #2	0.8 mm x 2010	12	P/S
inks , dyes,	1.0 mm x 2010	12	P/S
solvents, stains			
Thin 16 to 20 sec. Zahn #2 lacquers, enamels, primers, sealers	0.8 mm x 2010 1.0 mm x 2010 1.3 mm x 2013	12 12 12	P/S P/S P/S
Medium 21 to 30 sec. Zahn #2 automotive base coat enamels, primers epoxies, urethanes automotive clear coat	1.3 mm x 2013 1.4 mm x 2014 1.6 mm x 2016	12 12 12	P/S P/S P/S
Heavy over 30 sec. Zahn #2 heavy body primers high solid enamels high solid automotive coatings adhesives	1.4 mm x 2014 1.6 mm x 2016	12 12	P/S P/S