

C.A. Technologies *Bobcat Automatic*

AUTOMATIC SPRAY GUN PRODUCT INFORMATION



AVAILABLE AIR ASSIST AIRLESS ORIFICES

PART NO.	ORIFICE SIZE	SPRAY ANGLE (DEGREES)	APPROX. PATTERN SIZE	PART NO.	ORIFICE SIZE	SPRAY ANGLE (DEGREES)	APPROX. PATTERN SIZE
36-207	0.007	20	4"	36-315	0.015	30	6"
36-309	0.009	30	6"	36-415	0.015	40	8"
36-409	0.009	40	8"	36-515	0.015	50	10"
36-311	0.011	30	6"	36-615	0.015	60	12"
36-411	0.011	40	8"	36-715	0.015	70	14"
36-511	0.011	50	10"	36-815	0.015	80	16"
36-213	0.013	20	4"	36-417	0.017	40	8"
36-313	0.013	30	6"	36-517	0.017	50	10"
36-413	0.013	40	8"	36-619	0.019	60	12"
36-513	0.013	50	10"	36-621	0.021	60	12"
36-613	0.013	60	12"				

Operation and Maintenance Instructions for *Bobcat Automatic* Spray Guns

Fluid Seat, Needle and Needle seal replacement

Fluid seat (6) replacement:

1. Remove air cap ring (1), and air cap (2).
2. Remove nozzle body (5) using a 1/2" socket wrench. Remove seat retainer (7) from back of nozzle body.
3. Seat (6) can be pushed from nozzle body using a 3/32" dia. rod. Note: seat can be reversed and reused.

Needle (21) replacement:

1. Remove spring cap (27) using a 7/8" wrench. Remove needle spring (25), and needle cap (23).
2. Needle can be pulled out of the back of the gun.

Needle seal (13) replacement:

1. Remove needle assembly (21) as described above.
2. Remove rear cap (26), and piston spring (24).
3. Remove piston (19).
4. Remove air spool (16) using an 3/4" socket wrench.
5. Needle seal assembly (13) can be removed from the air spool using a 3/8" wrench. Note: replacement needle seal includes o-ring (17). Inspect the air spool o-rings (items 11, 14, 15) for damage and replace if necessary.

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

Disassembly and reassembly:

Before beginning complete gun disassembly, it is recommended repair kit 10-144 or 10-145 be on hand. (Repair Kit 10-144 includes o-rings and soft seals only, kit 10-145 also includes needle and needle seal assembly.)

Follow the needle seal replacement procedure before gun head disassembly and reassembly procedures.

Gun head disassembly:

1. Remove air cap (1), air cap (2) and fluid orifice (3).
2. Air cap adapter (9) can be removed using a 1" socket wrench.
3. Remove 2 o-rings (17). Using a 3/16" hex wrench remove the fluid inlets (28 or 29). Nozzle carrier (10) can be pushed out from the back of the gun body. Note: If the gun is not a recirculating gun, one of the fluid inlets will be blanked. It is essential to return blanked inlet to the same position on reassembly.

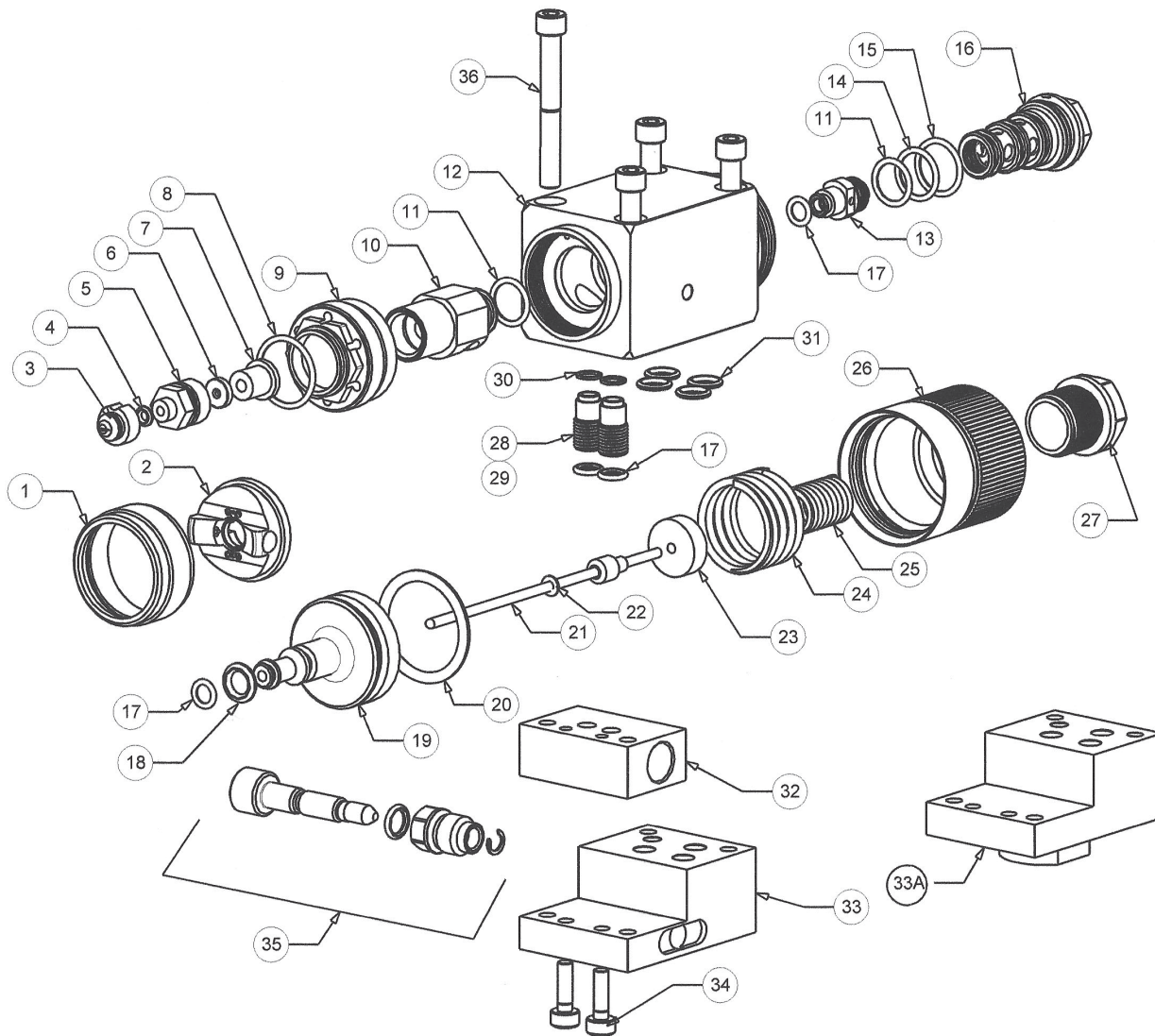
Gun head reassembly:

1. Install new o-rings (11) on nozzle carrier (10) and insert into gun body. Rotate nozzle body until fluid inlets align with the threaded fluid inlets in the gun body (12).
2. Install new fluid inlet seals (30) on the fluid inlets (28 and 29). Screw fluid inlets into gun body. Fluid inlets will thread in easily below gun body surface if nozzle body is properly aligned. Tighten each inlet down evenly to approx. 75 in -lbs torque. Both fluid inlets should be 1/16" below gun body surface.
3. Install new o-ring (8) on air cap adapter (9). Reinstall air cap adapter into gun body and tighten to approx. 75 in-lb torque.

Gun back end reassembly:

Note: Lubricate all new viton o-rings during installation.

1. Install new o-rings (11), (14), (15) and a new needle seal (13) onto air spool (16).
2. Install air spool (16) into gun body (12) and tighten to approx. 100 in-lbs torque.
3. Install new o-rings (17) and (20) on piston (19). Push piston (19) into back of air spool (16).
4. Install new o-ring (22) on needle assembly (21). Push needle assembly through piston as far forward as possible.
5. Install piston spring (24), and rear cap (26).
6. Install needle cap (23), needle spring (25) and spring cap (27).



ITEM NUMBER	QTY	PART NUMBER	DESCRIPTION	ITEM NUMBER	QTY	PART NUMBER	DESCRIPTION
1	1	21-1001	Air Cap Ring	19	1	66-257	Piston
2	1	26-101	Air Cap Ring	20	1	98-7217	O-Ring* (1 7/16" od, viton)
3	1	36-XXX	Fluid Tip	21	1	66-231	Needle Assembly**
4	1	98-8007	O-Ring* standard, (9/32" od, teflon)	22	1	98-7006	O-Ring* (1/4" od, viton)
		36-100	Tip Strainer (optional)	23	1	66-245	Needle Cap
5	1	66-104	Nozzle Body	24	1	66-246	Piston Spring
6	1	66-105	Seat*	25	1	66-244	Needle Spring
7	1	66-110	Seat Retainer	26	1	66-256	Rear Cap
8	1	98-8019	O-Ring* (15/16" od, teflon)	27	1	66-259	Spring Cap
9	1	66-103	Air Cap Adapter	28	2	66-253	Fluid Inlet §
10	1	66-252	Nozzle Carrier	29		66-253-B	Fluid Inlet Blank §
11	2	98-7014	O-Ring* (2 req'd, 5/8" od, viton)	30	2	66-254	Fluid Inlet Seal* (2 req'd)
12	1	66-251	Gun Body	31	4	98-7011	O-Ring* (4 req'd, 7/16" od, viton)
13	1	66-260	Needle Seal**	32	1	66-267	Fluid Manifold Block
14	1	98-7015	O-Ring* (11/16" od, viton)	33	1	66-266	Air Manifold Block
15	1	98-7016	O-Ring* (3/4" od, viton)	33A		66-268	Air Manifold Block (Cefla®)
16	1	66-255	Air Spool	34	2	98-0249	Allen Screw s (2 req'd)
17	3	98-8010	O-Ring* (3 req'd, 3/8" od, teflon)	35	1	66-258	Fan Control Assembly
18	1	98-7109	O-Ring* (1/2" od, viton)	36	4	98-0290	Mounting Screw (4 req'd)

*Indicates items included in soft seal repair kit P/N 10-144

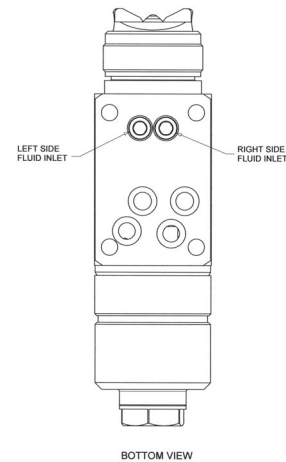
§ See page 4 for explanation on possible gun assembly variations

**Indicates additional items included in repair kit P/N 10-145

The Bobcat Automatic guns can be configured for fluid circulation through the head or non-recirculation with fluid inlet from either side of manifold.

For fluid circulation through the head, both left and right fluid inlet ports have p/n 66-253 installed. Inlet fluid can be introduced from either side of manifold.

For non-recirculating guns, either the left or right inlet port must be blocked by p/n 66-253-B. Inlet fluid to the manifold will depend on which gun port is blocked. If the left gun port is blocked, the fluid inlet to manifold would be on right and vice versa.



HAZARD WARNINGS

General Safety

The Bobcat Automatic gun is intended to be used by professional personnel only. Everyone using this equipment should read and understand all safety warnings.

Do not exceed the maximum working pressure of this equipment.

MAXIMUM WORKING PRESSURE IS 2500 PSI FLUID PRESSURE.

Do not modify this equipment.

Always relieve fluid pressure to 0 psi before performing maintenance.

Make sure all fluid connections are tight before operating this equipment.

Fluid Injection Hazard

High fluid pressure can cause serious injury if injected into skin.

NEVER aim the spray gun at part of the body or at anyone.

NEVER put your hand or fingers on or near a leaking hose, hose connection, or the gun spray tip.

IF FLUID INJECTION SHOULD OCCUR, SEEK MEDICAL ATTENTION IMMEDIATELY!

Toxic Fume and Fluid Hazard

Inhalation of toxic fumes and skin exposure to some chemicals can be a serious health hazard.

Read all manufacturers information for the material being sprayed, including material safety data sheets (MSDS sheets) and warnings.

Be sure recommended protective clothing and eye protection are used.

Wear a respirator or particle mask appropriate for material being sprayed.

Store all materials and solvents in accordance with manufacturers recommendations and local, and state safety codes.

Possible Fire or Explosion Hazard

Static sparks can cause fire or explosion.

DO NOT operate this equipment near pilot lights, open flames or anyone smoking.

Keep spray area clear and free of combustible debris.