

**C.A.Technologies**

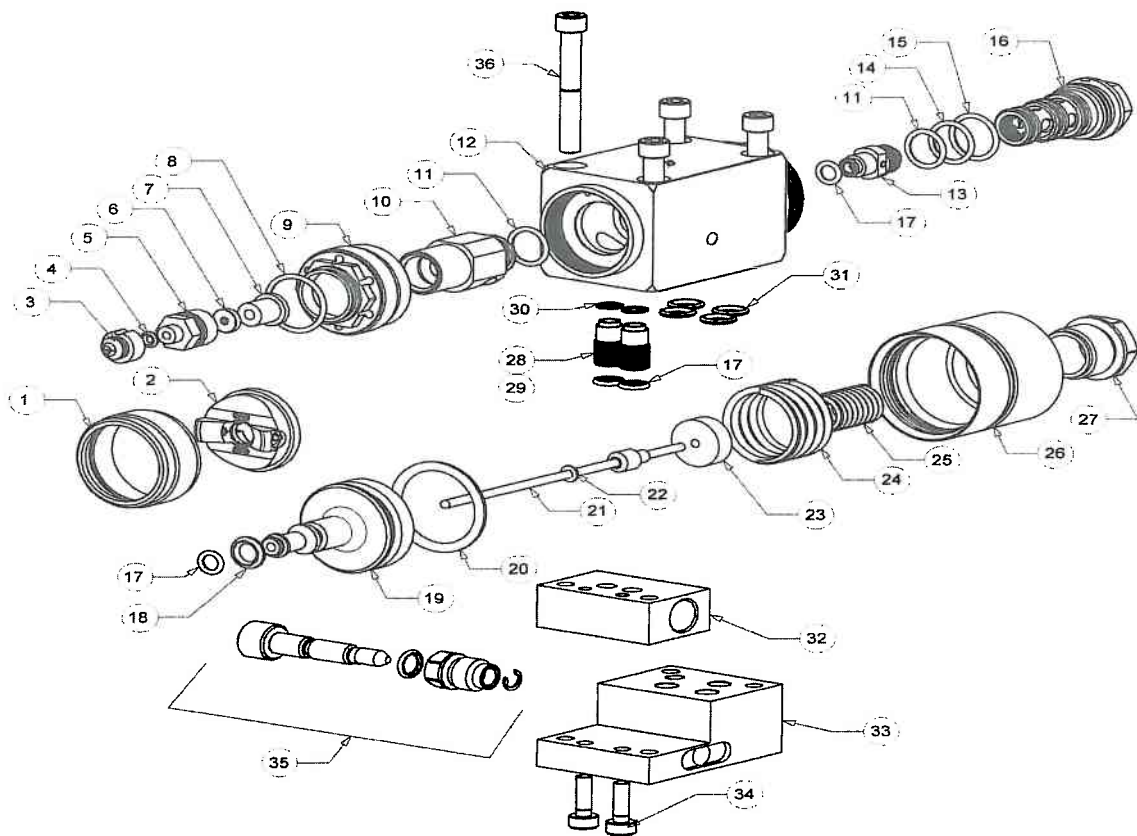


# *Bobcat automatic*

## *Product information*



PART NO.	ORIFICE SIZE	SPRAY ANGLE (degrees)	APPROX PATTERN WIDTH	PART NO.	ORIFICE SIZE	SPRAY ANGLE (degrees)	APPROX PATTERN WIDTH
36-207	.007	20	4"	36-315	.015	30	6"
36-309	.009	30	6"	36-415	.015	40	8"
36-409	.009	40	8"	36-515	.015	50	10"
36-311	.011	30	6"	36-615	.015	60	12"
36-411	.011	40	8"	36-715	.015	70	14"
36-511	.011	50	10"	36-815	.015	80	16"
36-213	.013	20	4"	36-417	.017	40	8"
36-313	.013	30	6"	36-517	.017	50	10"
36-413	.013	40	8"	36-619	.019	60	12"
36-513	.013	50	10"	36-621	.021	60	12"
36-613	.013	60	12"				



ITEM NO.	PART NO.	DESCRIPTION	ITEM NO.	PART NO.	DESCRIPTION
1	21-1001	AIR CAP RING	19	66-257	PISTON
2	26-101	AIR CAP	20	98-7217*	O-RING (1 7/16" od, viton)
3	36-XXX	FLUID TIP	21	66-231**	NEEDLE ASSEMBLY
4	98-8007*	O-RING standard, (9/32" od, teflon)	22	98-7006*	O-RING (1/4" od, viton)
4	36-100	TIP STRAINER optional	23	66-245	NEEDLE CAP
5	66-104	NOZZLE BODY	24	66-246	PISTON SPRING
6	66-105*	SEAT	25	66-244	NEEDLE SPRING
7	66-110	SEAT RETAINER	26	66-256	REAR CAP
8	98-8019*	O-RING (15/16" od, teflon)	27	66-242	SPRING CAP
9	66-103	AIR CAP ADAPTER	28	66-253 §	FLUID INLET
10	66-252	NOZZLE CARRIER	29	66-253-B §	FLUID INLET BLANK
11	98-7014*	O-RING (2 req'd, 5/8" od, viton)	30	66-254*	FLUID INLET SEAL (2 REQ'D)
12	66-251	GUN BODY	31	98-7011*	O-RING (4 REQ'D, 7/16" od, viton)
13	66-260**	NEEDLE SEAL	32	66-267	FLUID MANIFOLD BLOCK
14	98-7015*	O-RING (11/16" od, viton)	33	66-266	AIR MANIFOLD BLOCK
15	98-7016*	O-RING (3/4" od, viton)	34	98-0249	ALLEN SCREWS ( 2 REQ'D)
16	66-255	AIR SPOOL	35	66-258	FAN CONTROL ASSEMBLY
17	98-8010*	O-RING (3 req'd, 3/8" od, teflon)	36	98-0290	MOUNTING SCREW (4 req'd)
18	98-7109*	O-RING (1/2" od, viton)			

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

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

§ see page 4 for explanation possible gun assembly variations.

## **Gun maintenance and disassembly and reassembly instructions**

### **Fluid seat and 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 is 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 (13) can be removed from the air spool using a 3/8" wrench. Note: replacment 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.**

**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 assemblies.)**

#### **Gun head disassembly:**

1. Remove air cap ring (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-ring seals (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 recirculation 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-ring (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 or 29). Screw fluid inlets into gun body. Fluid inlets will thread easily in below gun body surface if nozzle body is properly aligned. Tighten each inlet down evenly to approx. 75 in-lb torque. Both fluid inlet 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 backend reassembly:**

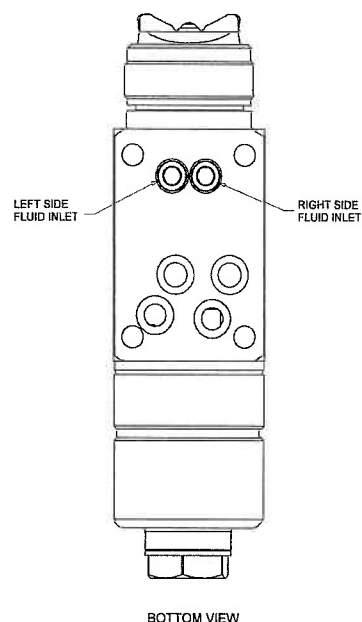
NOTE: Lubercate all new viton o-rings during installation

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

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 left gun port is blocked, fluid inlet to manifold would be on right and visa 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 a 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 manufactureres 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.