



Air-Assisted Airless Air Cap Conversion Kit 236-682

For use ONLY on the AA200HS Air-Assisted Airless Spray Gun.

This kit changes the gun from the standard air cap to an improved atomization air cap and also changes the function of the pattern adjustment knob. The new air cap requires the GG3 series spray tips (*not included in the kit*). See the back page for available tip sizes.

Installation

WARNING

Pressure Relief Procedure

To reduce the risk of serious injury, including fluid injection and splashing in the eyes or on skin, relieve all pressure in the system, as instructed below, before installing the kit.

1. Lock the spray gun trigger safety latch.
2. Shut off the power to the pump.
3. Close the bleed-type master air valve.
4. Unlock the gun trigger safety latch.
5. Hold a metal part of the gun firmly to the side of a grounded metal waste container and trigger the gun to relieve fluid pressure.
6. Lock the gun trigger safety latch again.
7. Open the pump drain valve to help relieve fluid pressure in the displacement pump. In addition, open the drain valve connected to the fluid pressure gauge (in a system with fluid regulation) to help relieve fluid pressure in the hose and gun.
8. Leave the drain valve(s) open until you are ready to spray again.

If you suspect that the spray tip or hose is completely clogged or that pressure has not been fully relieved after following the steps above, very slowly loosen the hose end coupling and relieve pressure gradually, then loosen completely. Now clear the tip or hose obstruction.

1. Follow the **Pressure Relief Procedure Warning**.
2. Remove tip guard/retaining ring (E), air cap (A), tip assembly (B), o-ring (C), and air separator (D). See Fig. 2.

NOTE: When the seal ring (3) is installed, the pattern adjustment knob (L) can be used to control the amount of air going to the air cap for precise atomization adjustment. See Fig. 2. The pattern adjustment knob will not control the pattern width when the new air cap (1) is installed. If air control at the gun is **not** desired, do not install the seal ring, instead go on to step 4.

3. Apply a low strength (purple) Loctite® to the seal ring (3) threads. Install the seal ring onto the front of the gun, turning the ring all the way down against the gun body. Wipe off any excess Loctite.

4. Install the spray tip (F – *ordered separately*) into the air cap (1).
5. Install the air cap cover (2) onto the air cap. The legs (M) on the cover must engage with the notches (J) in the air cap. See Fig. 1.
6. Install the air cap cover, air cap, and tip assembly (1, 2, F, G) into the tip guard/retaining ring (E). The horns (H) on the air cap cover must engage with the notches (K) in the tip guard. See Fig. 1.
7. Tighten the tip guard/retaining ring (E) onto the gun.

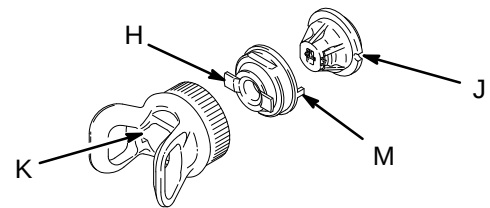


Fig. 1

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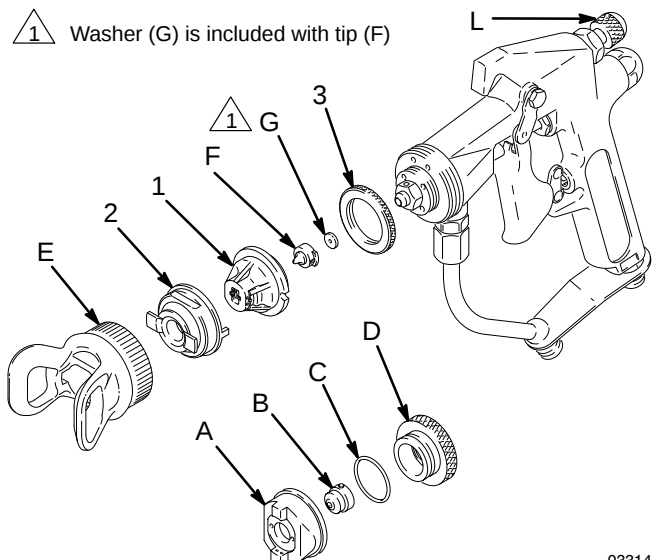


Fig. 2

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Operation

When the air cap conversion kit and GG3 spray tip are installed, the AA200HS spray gun will operate the same as before except that the pattern adjustment knob (L) will no longer control the pattern width. See Fig. 3. If a different pattern width is required, a different tip size must be selected. See the chart, at right.

If the sealing ring (3) is installed with the kit, the operator can control the atomization air with the pattern adjustment knob (L). See Fig. 3. Turning the knob fully clockwise (fully open) will give maximum flow. Turning the knob fully counterclockwise (fully closed) will result in near airless operation. For maximum cleanliness and minimum over-spray, use just enough air to eliminate the tails at the ends of the fan spray pattern.

Parts

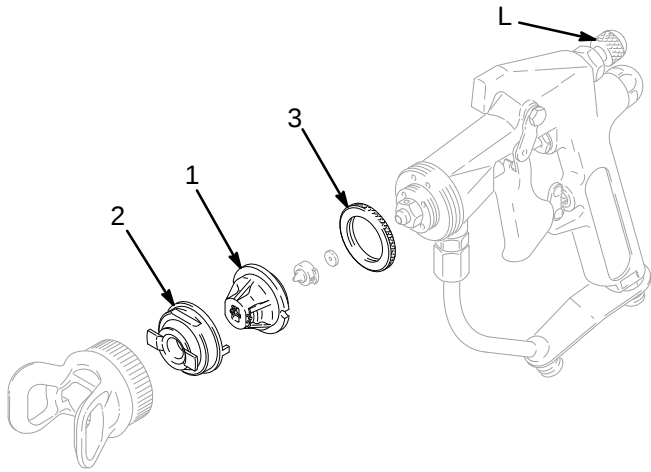


Fig. 3 03430

Part No. 236-682

Air-Assisted Airless Air Cap Conversion Kit
Includes items 1-3

Ref. No.	Part No.	Description	Qty.
1	189-748	AIR CAP	1
2	189-750	COVER, air cap	1
3	189-751	RING, seal	1

Spray Tip Chart

Part No.	Fan Width at 10 in. (260 mm) in. (mm)	Orifice Size in. (mm)
GG3-107	2-4 (50-100)	0.007 (0.178)
GG3-207	4-6 (100-150)	
GG3-307	6-8 (150-200)	
GG3-209	4-6 (100-150)	0.009 (0.229)
GG3-309	6-8 (150-200)	
GG3-409	8-10 (200-250)	
GG3-211	4-6 (100-150)	0.011 (0.279)
GG3-311	6-8 (150-200)	
GG3-411	8-10 (200-250)	
GG3-511	10-12 (250-300)	
GG3-611	12-14 (300-350)	
GG3-213	4-6 (100-150)	0.013 (0.330)
GG3-313	6-8 (150-200)	
GG3-413	8-10 (200-250)	
GG3-513	10-12 (250-300)	
GG3-613	12-14 (300-350)	
GG3-215	4-6 (100-150)	0.015 (0.381)
GG3-315	6-8 (150-200)	
GG3-415	8-10 (200-250)	
GG3-515	10-12 (250-300)	
GG3-615	12-14 (300-350)	
GG3-217	4-6 (100-150)	0.017 (0.432)
GG3-317	6-8 (150-200)	
GG3-417	8-10 (200-250)	
GG3-517	10-12 (250-300)	
GG3-617	12-14 (300-350)	
GG3-319	6-8 (150-200)	0.019 (0.483)
GG3-419	8-10 (200-250)	
GG3-519	10-12 (250-300)	
GG3-619	12-14 (300-350)	
GG3-719	14-16 (350-400)	
GG3-421	8-10 (200-250)	0.021 (0.533)
GG3-521	10-12 (250-300)	
GG3-621	12-14 (300-350)	
GG3-721	14-16 (350-400)	
GG3-821	16-18 (400-450)	
GG3-423	8-10 (200-250)	0.023 (0.584)
GG3-523	10-12 (250-300)	
GG3-623	12-14 (300-350)	
GG3-723	14-16 (350-400)	
GG3-823	16-18 (400-450)	
GG3-425	8-10 (200-250)	0.025 (0.635)
GG3-525	10-12 (250-350)	
GG3-625	12-14 (300-350)	
GG3-725	14-16 (350-400)	
GG3-825	16-18 (400-450)	