

24N318 Round Spray Kit

3A2498A
EN

To convert a Pro Xp™
Electrostatic Air Spray Gun to a round spray pattern. For professional use only.



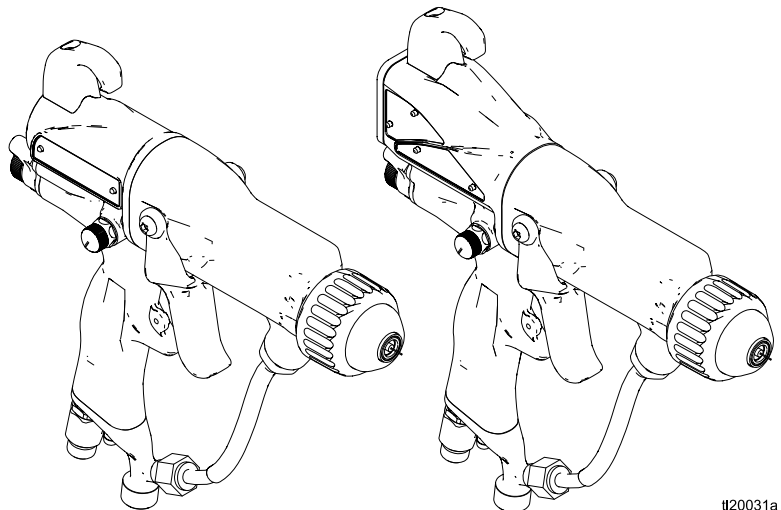
Important Safety Instructions

Read all warnings and instructions in this manual and in your Pro Xp
Electrostatic Air Spray Gun manual. **Save these instructions.**

100 psi (0.7 MPa, 7.0 bar) Maximum
Fluid Working Pressure

100 psi (0.7 MPa, 7.0 bar) Maximum
Air Working Pressure

See page 4 for part numbers. Gun is
not included.



#20031a

Installation

To reduce the risk of injury, follow the Pressure Relief Procedure in your Pro Xp manual before installing this kit.				

1. Flush the gun as instructed in your gun manual. Relieve the pressure.
2. Remove the retaining ring and air cap.

NOTICE

Trigger the gun while removing the nozzle to help drain the gun and prevent any paint or solvent left in the gun from entering the air passages.

3. Trigger the gun while removing the fluid nozzle.

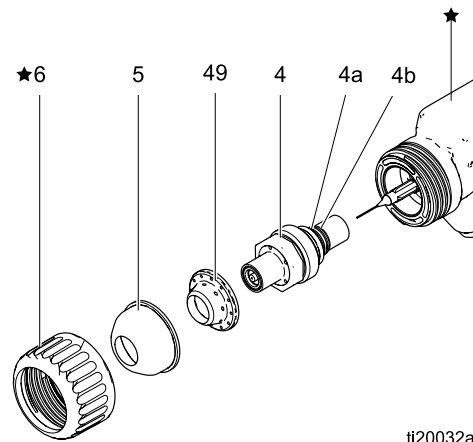
NOTICE

Use non-silicone grease, Part No. 111265, on the small o-ring (4b). Do not over-lubricate. Do not lubricate the conductive contact ring (4a).

4. Make sure the conductive contact ring (4a) and the small o-ring (4b) are in place on the round spray nozzle (4). Lightly lubricate the small o-ring (4b).

5. Make sure the electrode needle is finger-tight.
6. Trigger the gun while installing the fluid nozzle (4) with the multi-tool provided with the gun. Tighten until the fluid nozzle seats in the gun barrel (1/8 to 1/4 turn past hand-tight).
7. Install the round spray diffuser (49) and air cap (5). Reinstall the retaining ring (6).

NOTE: Items marked with a ★ are shown for reference and are not included in the kit.



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Figure 1 Round Spray Air Cap, Diffuser, and Nozzle

8. Place a wrench on the flats of the air adjustment valve housing and unscrew the valve from the gun.
9. Screw the new air adjustment valve (30) into the gun, using a wrench on the flats of the valve housing. Torque to 15 in-lb (1.7 N•m).

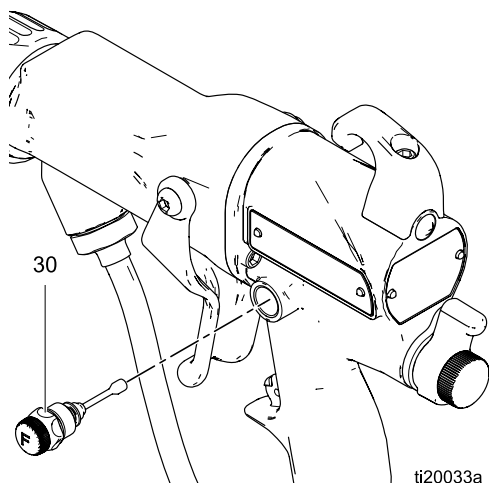


Figure 2 Fan Air Adjustment Valve

10. Place a wrench on the flats of the atomizing air restrictor valve housing and unscrew the valve from the gun.

11. Screw the new atomizing air restrictor valve (29) into the gun, using a wrench on the flats of the valve housing. Torque to 15 in-lb (1.7 N•m).

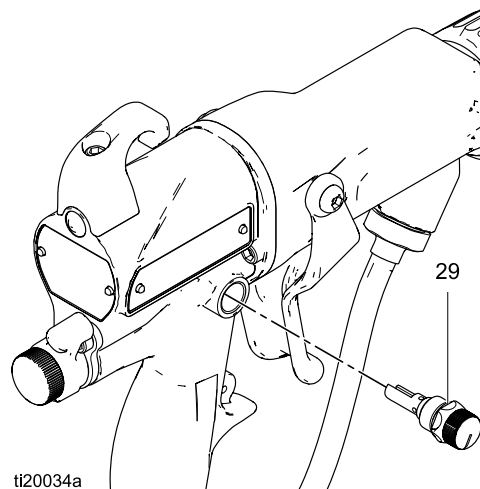
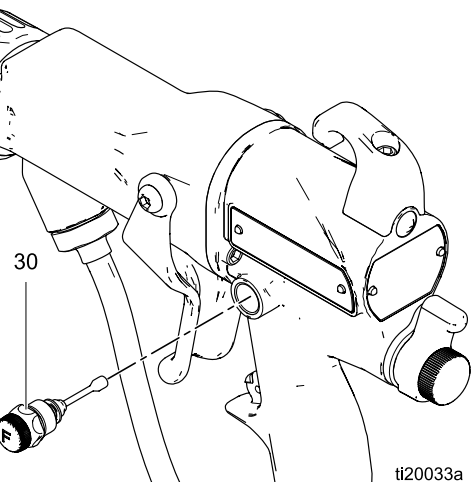
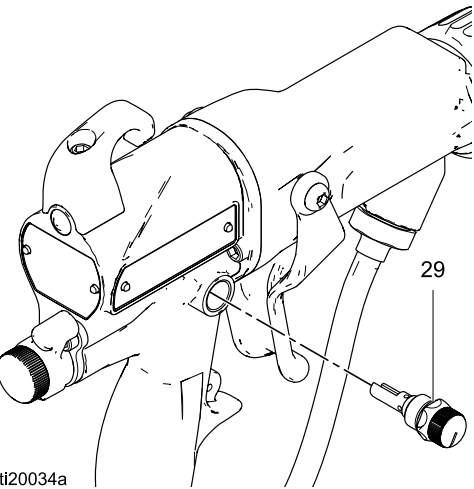
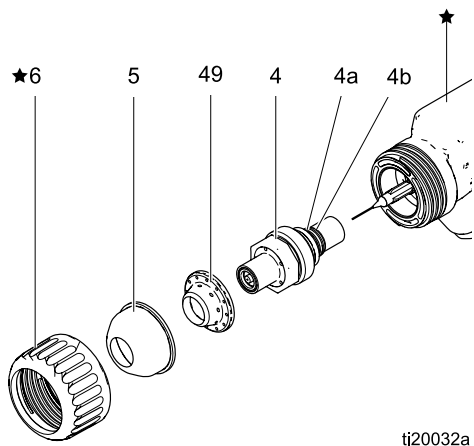


Figure 3 Atomizing Air Restrictor Valve

12. Test the gun resistance as instructed in your gun manual.

Parts

NOTE: Items marked with a ★ are shown for reference and are not included in the kit.

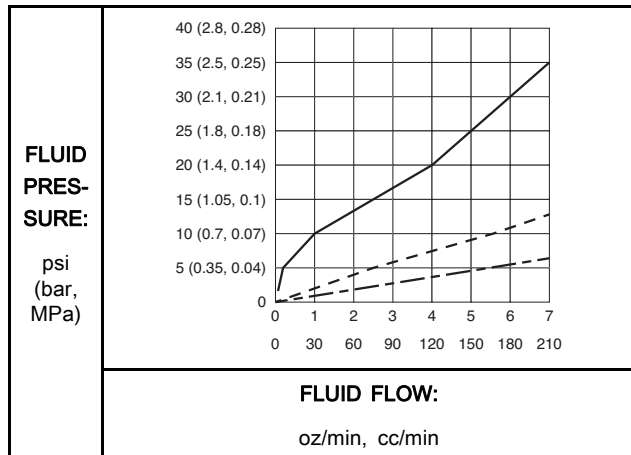


Ref. No.	Part No.	Description	Qty
4	24N729	NOZZLE, round spray	1
4a	24N645	O-RING, conductive	1
4b	111507	O-RING; fluoroelastomer	1
5	24N731	AIR CAP, round spray	1
29	24N733	ATOMIZING AIR RESTRICTOR VALVE, round spray	1
30	24N732	FAN AIR ADJUSTMENT VALVE, round spray	1
49	24N730	DIFFUSER, round spray	1

Performance Chart

Key

Heavy viscosity; 30 sec, #3 Zahn	
Medium viscosity; 30 sec, #2 Zahn	
Light viscosity; 18 sec, #2 Zahn	



Air Flow Adjustment

In most applications using the round spray kit, it is desirable to use a very low air flow through the air cap while maintaining enough pressure at the gun inlet for full electrostatic power (about 40 psi [0.3 MPa, 2.8 bar]). Use the gun's atomizing air restrictor valve to restrict the air cap air. The fan air adjustment valve can be used to adjust the pattern size from 4 to 8 in. (102 to 204 mm).

NOTE: The round spray kit is not recommended for flow rates greater than 7 oz/min (210 cc/min).

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