

INSTRUCTIONS-PARTS LIST



307-876
Rev A

This manual contains **IMPORTANT WARNINGS AND INSTRUCTIONS**
READ AND RETAIN FOR REFERENCE
Refer to your gun instruction manual for detailed warnings and instructions.

ELECTROSTATIC AIR SPRAY FLUID NEEDLE ASSEMBLY

Part Number 222-014

For use with PRO4000®, PRO5000™, and PRO4000H™
Electrostatic Air Spray Guns

WARNING

Installing and servicing electrostatic equipment requires access to parts which may cause electric shock or other serious bodily injury if the work is not performed properly. Do not install or service electrostatic equipment unless you are trained and qualified.

Before installing the fluid needle assembly, **ALWAYS turn off the electrostatics to the gun and relieve all pressure** in the system by following the **Pressure Relief Procedure** for your gun (shown below). This helps reduce the risk of fire, explosion, or electric shock, which could cause property damage and serious bodily injury, and reduces the risk of splashing fluid or solvent in the eyes or on the skin if the gun is accidentally triggered.

Pressure Relief Procedure for PRO4000 & PRO4000H Gun

1. Turn the ES ON-OFF Valve lever to OFF.
2. Turn off the air and fluid supply to the gun.
3. Trigger the gun into a grounded metal waste container to relieve fluid pressure.
4. Open the pump drain valve, having a waste container ready to catch the drainage.
5. Leave the pump drain valve open until you are ready to spray again.

Pressure Relief Procedure for PRO5000 Gun

1. Turn off all the air to the gun except the cylinder (actuating) air.
2. Turn off the fluid supply to the gun.
3. Actuate the gun into a grounded metal waste container to relieve fluid pressure.
4. Open the pump drain valve, having a waste container ready to catch the drainage.
5. Leave the pump drain valve open until you are ready to spray again.

Installing the Fluid Needle Assembly

1. Remove the air cap assembly, fluid nozzle, electrode, and gun barrel as described in your gun instruction manual.
2. Unscrew the packing nut (B) using the wrench (A) supplied with your gun. See Fig 1.
3. Carefully remove the fluid needle assembly (C) from the rear part of the gun barrel (D). See Fig 2. If the needle packing assembly is still in the barrel, insert the packing removal rod, supplied with your gun, into the front of the barrel to gently push it out.
4. Wipe the internal surfaces of the barrel clean with a soft brush or cloth.

KEY

- A Wrench
B Packing Nut

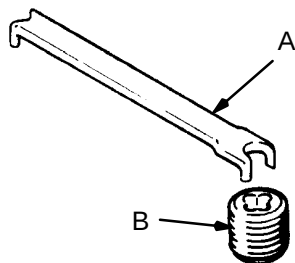


Fig 1

CAUTION

Clean all parts in non-conductive solvent compatible with the fluid being used, such as xylol or mineral spirits. Use of conductive solvents can cause the gun to malfunction.

5. If the needle parts are purchased separately, assemble them as shown in the **Fluid Needle Cut-away**, shown in Fig 2.

CAUTION

Carefully screw the needle (2) into the packing cartridge (1) to avoid damaging the packings.

Tighten the packing nut (12) to 2 lbs. (9N) of drag force.

6. Install the new fluid needle assembly (C) into the gun barrel (D). See Fig 2.
7. Firmly tighten the packing nut (5) down until it bottoms.

CAUTION

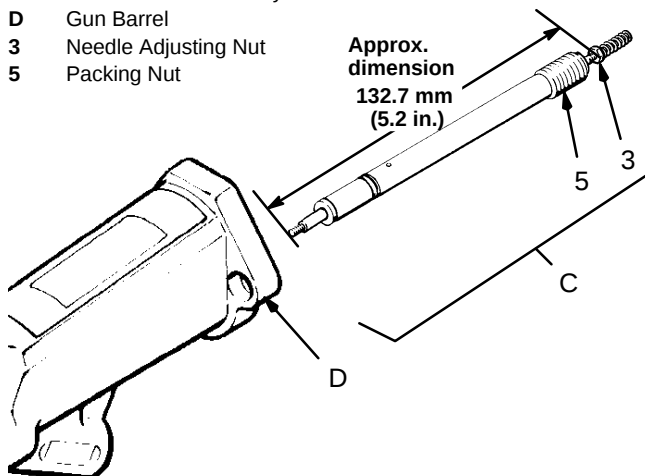
When checking the fluid needle movement, DO NOT move the needle out of the gun barrel more than 6.35 mm (1/4 in.) to avoid pulling the needle out of the packing area and damaging the packings.

8. Install the gun barrel, electrode, air cap assembly, and fluid nozzle as described in your gun instruction manual.
9. Trigger the gun to check the needle adjustment. The air should come fully on before the fluid comes on. Adjust the needle adjusting nut (3) until the proper lead and lag is achieved.

If the fluid comes on too soon, remove the trigger and back the needle adjusting nut (3) out (away from the barrel) slightly.

KEY

- C Fluid Needle Assembly
- D Gun Barrel
- 3 Needle Adjusting Nut
- 5 Packing Nut



FLUID NEEDLE CUTAWAY

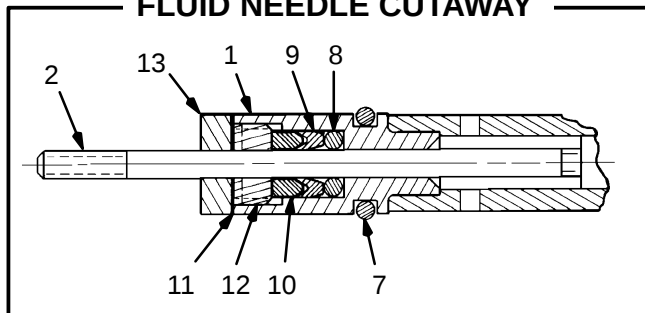


Fig 2

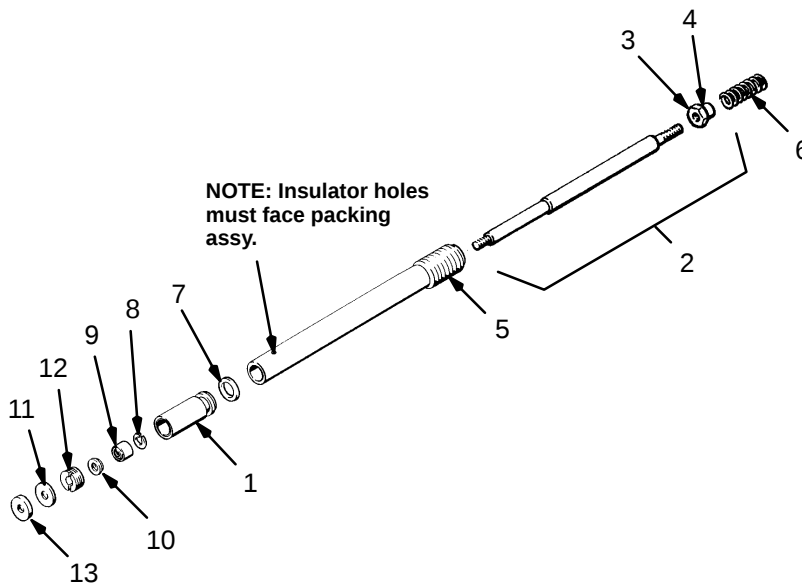
If the fluid comes on too late, tighten the needle adjusting nut (3) slightly (turn towards barrel).

After adjustment is complete, tighten the locking nut (4) against the adjusting nut (3).

PARTS LIST

REF NO.	PART NO.	DESCRIPTION	QTY
1	183-725	CARTRIDGE, packing	1
2	222-013	NEEDLE, fluid; Includes items 3 & 4	1
3	183-749	.NUT, adjusting	1
4	183-750	.NUT, locking	1
5	183-724	NUT, packing	1
6	105-673	SPRING, compression	1
7	103-337	O-RING, Viton®	1
8	168-518	O-RING, Viton	1
9	178-409	PACKING, fluid	1
10	178-763	PACKING, needle	1
11	183-756	WASHER	1
12	183-349	NUT, packing	1
13	109-019	PACKING, foam	1

PARTS DRAWING



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