

Prodigy® Manual Spray Gun Flexible Tubing Conversion Kits



WARNING: Allow only qualified personnel to perform the following tasks. Follow the safety instructions in this document and all other related documentation.



WARNING: Turn off the electrostatic voltage and ground the spray gun electrode before performing the following tasks. Failure to observe this warning could result in a severe shock.

Two kits are available to upgrade your manual Prodigy gun to the latest version and use flexible powder tubing.

Follow these instructions to install the conversion kits.

Flexible Tubing Conversion Kit: Allows you to use flexible powder tubing instead of stiff polyurethane powder tubing.

Complete Gun Conversion Kit: Replaces the entire front end of the spray gun in addition to allowing you to use flexible powder tubing.

Flexible Tubing Conversion Kit

1. See Figure 1. Loosen the lock knob (1) on the powder hose.

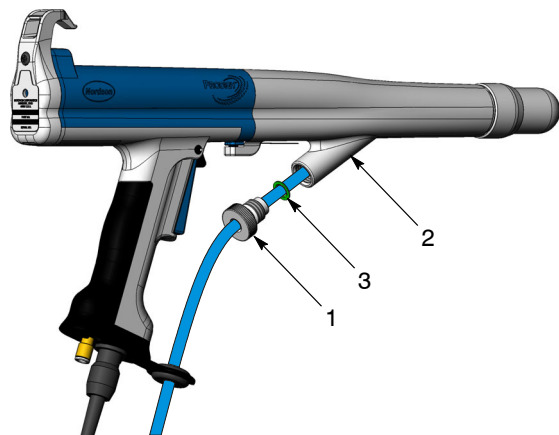


Figure 1 Removing Old Powder Tubing

2. Pull the stiff powder tubing out of the spray gun adapter (2).
3. Remove the lock knob and grip ring (3) from the stiff powder hose. Keep the lock knob for the re-use with the flexible powder tubing. Make sure the O-ring is installed in the lock knob. The grip ring can be discarded.

4. See Figure 2. Remove the retaining nut (4) and nozzle (5) from the end of the spray gun.
5. Pull the powder tube (6) (short or long, depending on gun model) from the spray gun and discard it.

If you are installing the spray gun conversion kit, refer to *Complete Spray Gun Conversion Kit*.

If you are only installing the flexible tubing kit, refer to *Installing the Flexible Tubing*.

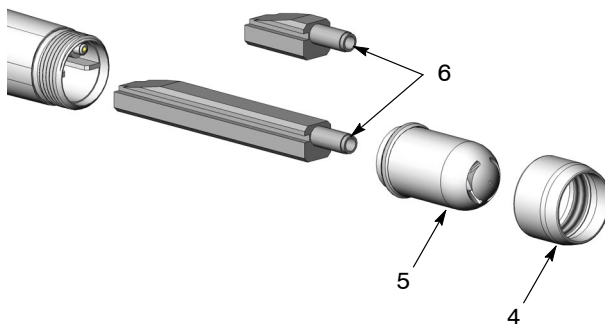


Figure 2 Removing Nozzle and Powder Tube

Complete Spray Gun Conversion Kit

Refer to *Parts* for the kit contents.

1. Perform steps 1-5 of *Flexible Tubing Conversion Kit*.
2. See Figure 3. Remove the set screw (7) from the underside of the spray gun adapter (8).
3. Pull the adapter off the spray gun.

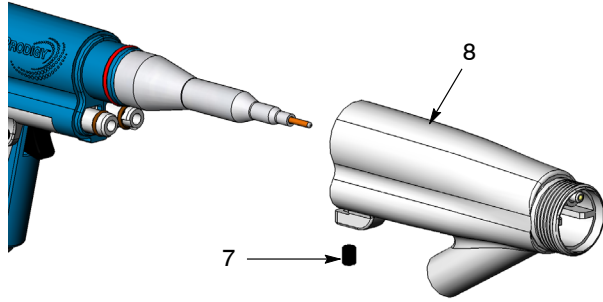


Figure 3 Removing the Adapter

4. See Figure 4. Unscrew the resistor holder (9) (short or long, depending on gun model) and resistor from the multiplier.

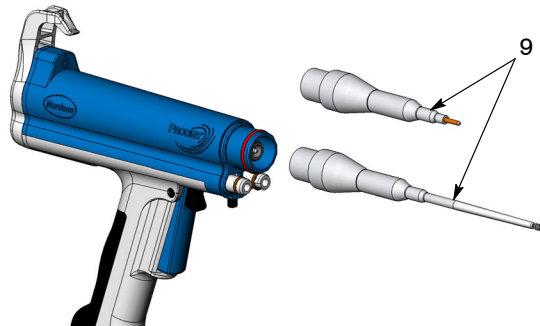


Figure 4 Removing the Resistor Holder

5. See Figure 5. Inject about 0.6 cc of dielectric grease into the new resistor holder (9). Insert the new resistor (10) into the holder until it bottoms out, then inject about 0.8 cc of dielectric grease into the holder well.

6. Remove the contact spacer (11) from the multiplier well. Clean the contact spacer and multiplier well. Install the contact spacer into the multiplier well, then fill the well with dielectric grease.
7. Screw the new resistor holder onto the multiplier.

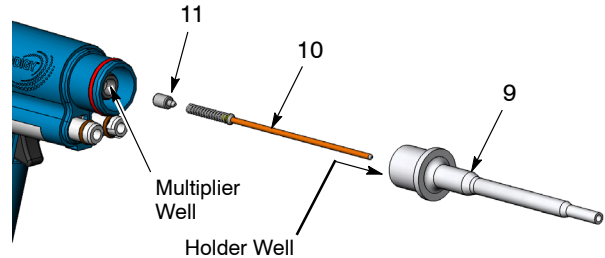


Figure 5 Installing New Resistor and Resistor Holder

8. See Figure 6. Install the new adapter (8) on the gun, and secure it with the set screw (7).

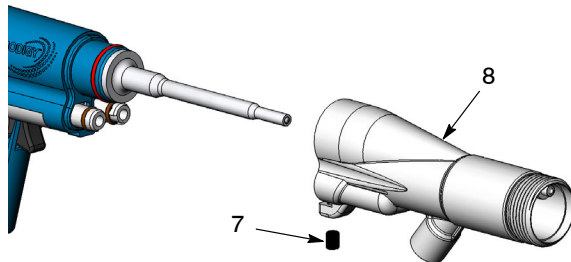


Figure 6 Installing the Resistor Holder

9. Install the flexible powder tubing, nozzle and retaining nut as described in *Installing the Flexible Tubing*.

Installing the Flexible Tubing

NOTE: Refer to *Parts* for flexible tubing bulk length part numbers. The tubing must be ordered separately.

1. See Figure 7. Slide the lock nut (1) onto the flexible tubing.
2. Push the flexible powder tubing into the gun adapter (8) until it extends a few inches past the front of the gun opening.
3. Thread the lock knob into the adapter.
4. Install the barbed end of the new tubing adapter (12) into the end of the flexible tubing.

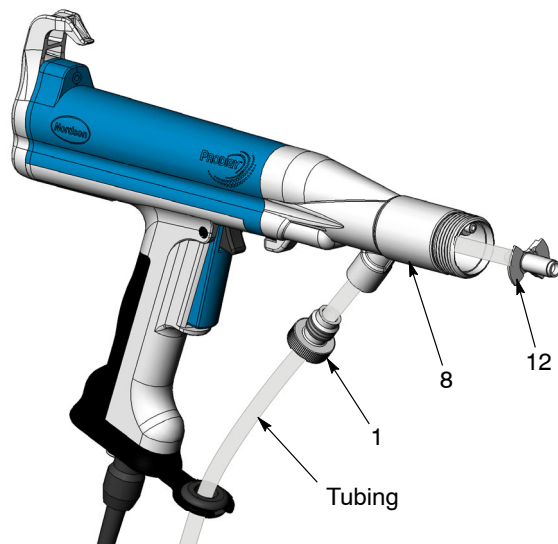


Figure 7 Installing the Flexible Powder Tubing

5. See Figure 8. Gently pull the flexible tubing back through the lock knob until the tubing adapter is pulled up against the gun adapter flange.

NOTE: Make sure the contact in the gun adapter fits through one of the two notches in the tubing adapter.

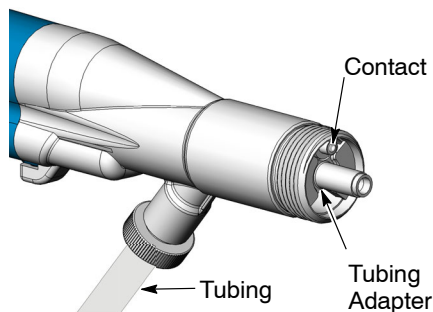


Figure 8 Tubing Adapter Installation

6. See Figure 9. Install the nozzle (4) and retaining nut (5) on the spray gun.

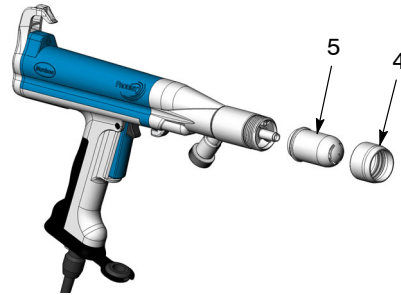


Figure 9 Installing the Nozzle

7. Route the delivery tubing to the appropriate powder pump.
8. See Figure 10. Remove the nut (14) and O-ring (13) from the pump delivery port (rear).
9. Install the O-ring on the straight end of the new barbed tube adapter (15).
10. Insert the straight end of the barbed tube adapter into the delivery port and secure it in place with the nut.
11. Slide the new flexible powder tubing over the barbed end of the barbed tube adapter until it bottoms out at the base of the pump.
12. Connect the suction tubing as described in the pump manual.
13. Bundle together the gun control cable, pattern air tubing, and flexible powder tubing with Velcro straps or spiral wrap.

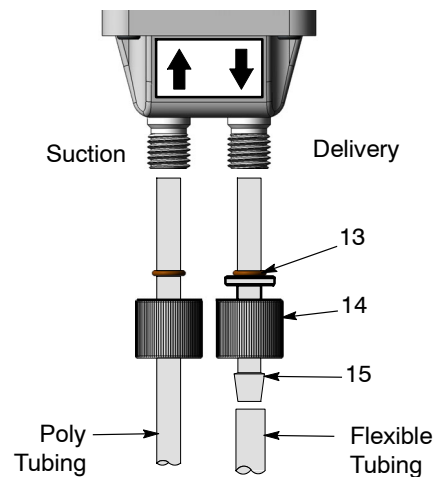


Figure 10 Barbed Tube Adapter Installation

Parts

Flexible Tubing Conversion Kit

Part	Description	Note
1098515	KIT, flex tubing conversion, Prodigy, generation 2	
1093440	• ADAPTER, tubing, gun, Prodigy	
1077437	• GROMMET, Buna-N, $\frac{1}{2} \times 1 \times \frac{9}{32}$ in.	
1078006	• ADAPTER, tube barb, powder, Prodigy generation 2	

Complete Prodigy Conversion Kit

Part	Description	Note
1077426	KIT, adapter, gun to Prodigy, generation 2	
1077424	• KIT, resistor holder	A
1077421	• KIT, adapter with spring plunger	
1047934	• KNOB, lock, powder tube	
940117	• O-RING, silicone 0.312 X 0.438 X 0.063 in.	
982455	• SET SCREW, M6 x 1.0 x 8, nylon	
1098515	• KIT, flex tubing conversion, Prodigy, generation 2	B
NOTE A: Includes new resistor.		
B: Does not include flexible tubing. Order tubing separately.		

Flexible Powder Tubing

NOTE: Powder delivery tubing length, from pump to gun, should be kept as close to 20 meters (65 ft) as possible to minimize surging. Coil the tubing flat on the floor in loops at least 1 meter (3 ft) in diameter. For more information, refer to the Prodigy Generation II Manual Spray Gun manual, part number 1077434.

Part	Description	Note
1613849	TUBING, powder, 8-mm OD x 6-mm ID, 40 m	
1613850	TUBING, powder, 8-mm OD x 6-mm ID, 160 m	
1615026	TUBING, powder, 8 mm OD x 6-mm ID, clear, 60 ft	A
1606695	TUBING, powder, 8 mm OD x 6-mm ID, clear, 500 ft	A
NOTE A: Optional tubing for use with HDLV pumps.		

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