

Prodigy[®] Ion Collector Retrofit Kits

Description

These kits allow an ion collector to be installed on an existing Prodigy Tube-Mount or Bar-Mount Automatic Powder Spray Gun. The kits include all parts required for the retrofit.

NOTE: Before installing the ion collector on the gun, note the current draw while coating parts. This will be used as a starting point when adjusting the position of the ion collector probe clip.

Tube-Mount Gun Kit

1. Remove the tube-mount automatic gun from the gun clamp assembly and disassemble the clamp assembly to remove the fixed jaw.
2. Install the grounded fixed jaw and lockwasher included in the kit on the bar clamp in the same position as the old fixed jaw.
3. Re-assemble the clamp assembly as shown.
4. Install the nylon screw in the unused insert in the probe clip.
5. Install the rod support onto the gun.
6. Thread the ion collector rod onto the probe clip, and then slide the rod through the rod support and into the ground block, while sliding the probe clip onto the gun.
7. Position the rod support as desired and tighten the set screw.

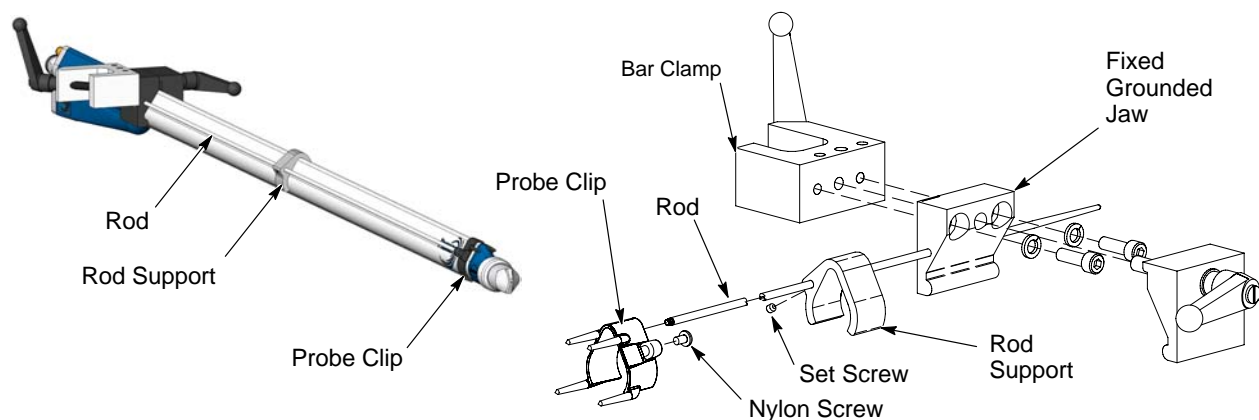


Figure 1 Tube Mount Gun Kit Installation

Bar-Mount Gun Kit

The ion collector rod and bracket can only be installed on the left side of the gun.

1. Install the bracket on the clamp with the lock washer and pan-head screw.
2. Thread the ion collector rod into the left insert in the probe clip.
3. Install the nylon screw into the right insert in the probe clip.
4. Slide the end of the rod into the hole in the bracket while sliding the probe clip on the end of the gun.

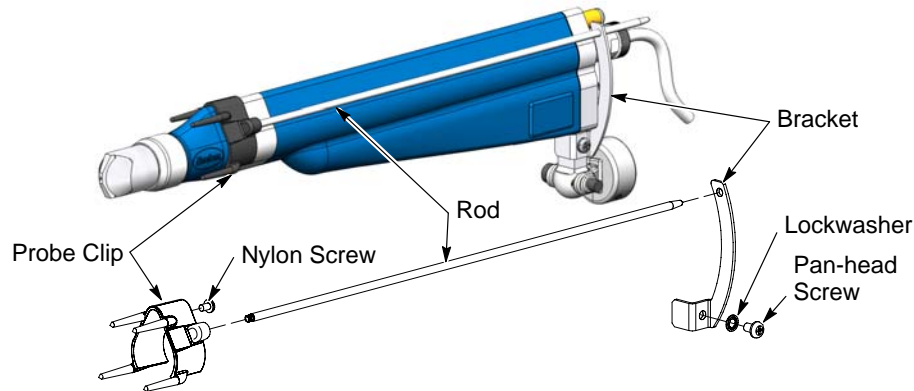


Figure 2 Bar Mount Gun Kit Installation

Adjusting the Ion Collector Position

1. Note the current draw while coating parts before you install the ion collector kit. Stop the line and turn off the spray guns.
2. Install the ion collectors.
3. Start coating parts again. Slide the collector rod forward until the current draw is 5 to 7 μA higher than without the kit.
4. Cure the coating on the new parts. Compare the surface finish on these parts with the finish on the parts you coated before installing the kit.
5. If you did not obtain the desired improvement in the surface finish, slide the probe forward approximately 25 mm (1-in.) and test again.

Parts

Ion Collector Retrofit Kit for Tube-Mount Gun

Item	Part	Description	Quantity	Note
–	1101300	KIT, ion collector retrofit, tube mount, Prodigy	1	
1	-----	• JAW ASSEMBLY, fixed, with ground, Prodigy automatic	1	
2	1101296	• SUPPORT, ion collector, Prodigy, packaged	1	
2A	982067	• • SCREW, set, cup, M5 x 5, black	1	
4	1101268	• CLIP, ion collector, 4-probe, Prodigy, packaged	1	
4A	1101304	• • SCREW, pan, recessed, M4 x 6, nylon, black	1	

NOTE: Item 3 NOT included in retrofit kit. Order separately.

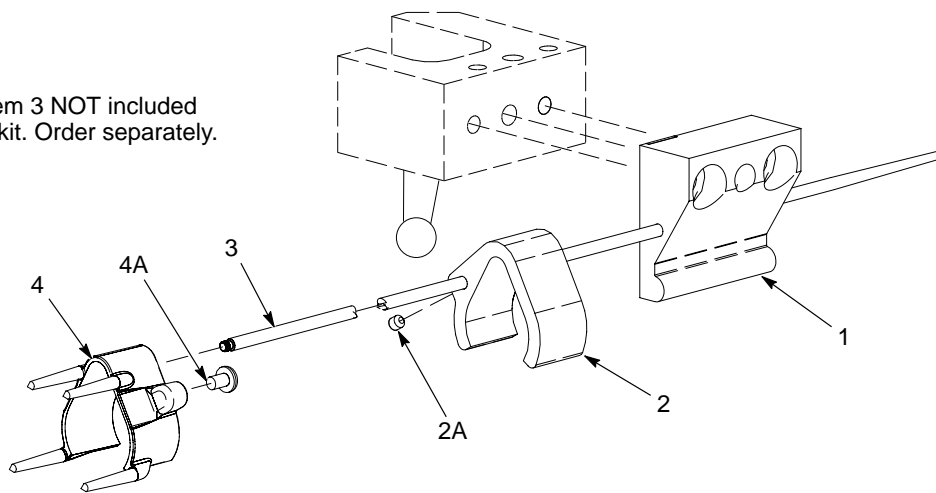


Figure 3 Tube Mount Kit Parts

Ion Collector Rod for Tube-Mount Gun

The ion collector rods for the tube-mount retrofit kits must be ordered and shipped separately. This is because they are normally ordered in quantity, depending on the number of guns in the system.

Item	Part	Description	Quantity	Note
3	1101269	ROD, tube mount ion collector, Prodigy	1	

Ion Collector Retrofit Kit for Bar-Mount Gun

Item	Part	Description	Quantity	Note
–	1101301	KIT, ion collector retrofit, bar mount, Prodigy	1	
1	1101291	• BRACKET, ion collector rod, bar mount, Prodigy	1	
2	983127	• WASHER, lock, internal, M5, zinc	1	
3	326507	• SCREW, pan head, cross-recessed, M5 x 8	1	
4	1101290	• ROD, bar mount ion collector, Prodigy	1	
5	1101268	• CLIP, ion collector, 4-probe, Prodigy, packaged	1	
6	1101304	• • SCREW, pan, recessed, M4 x 6, nylon, black	1	

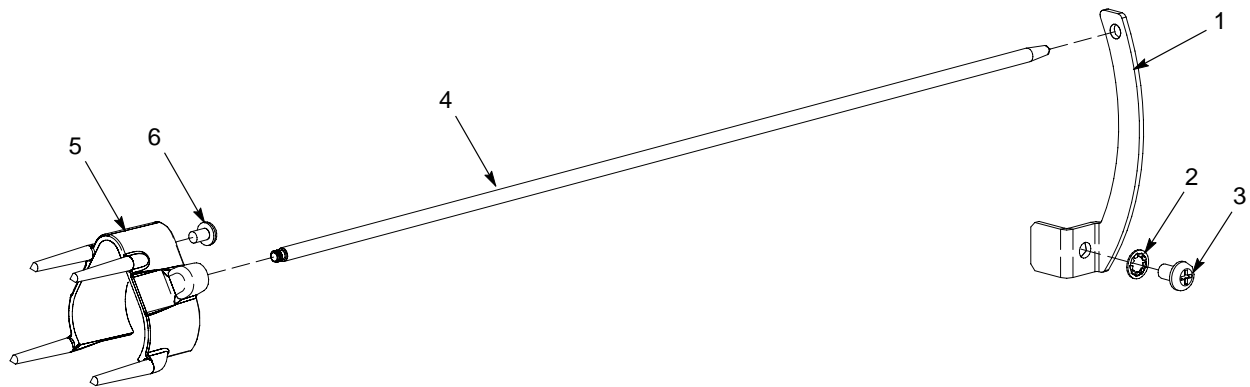


Figure 4 Bar Mount Kit Parts

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