

# Resistor Replacement Instructions for Versa-Spray® Manual Guns

This instruction sheet covers resistor replacement procedures for the Versa Spray IPS and cable-fed electrostatic powder spray manual guns, using the 134 376 resistor kit.



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



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

## 1. Removing Old Resistor

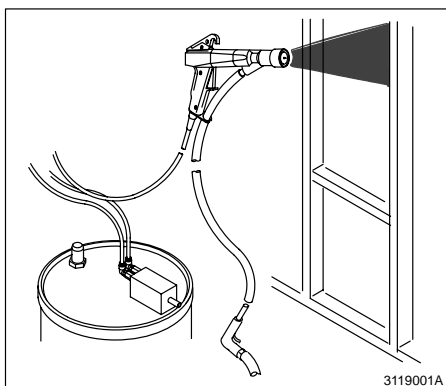


Fig. 1

1. See Figure 1. Disconnect the powder feed hose from the pump.
2. Point the gun into the booth.
3. Stick an OSHA-approved air gun into the end of the hose and blow the powder out of the hose and gun.

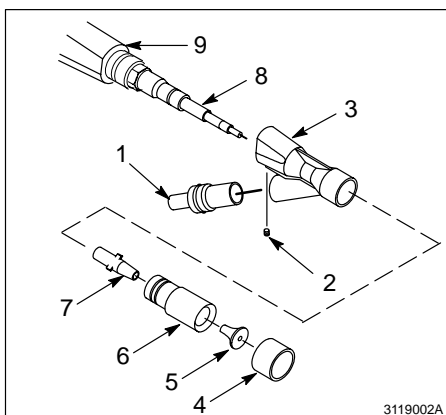


Fig. 2

4. Disconnect the powder feed hose from the adapter.
5. See Figure 2. Remove the hose adapter (1) from the powder inlet body (3).
6. Loosen the setscrew (2) in the underside of the powder inlet body.
7. Remove the powder inlet body, nozzle parts (4, 5, 6), and wear sleeve (7) from the resistor probe (8) and extension (9).

### 1. Removing Old Resistor (contd.)

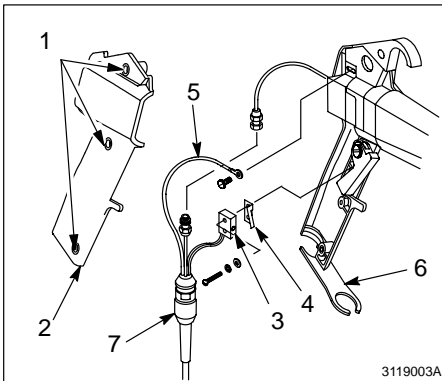


Fig. 3

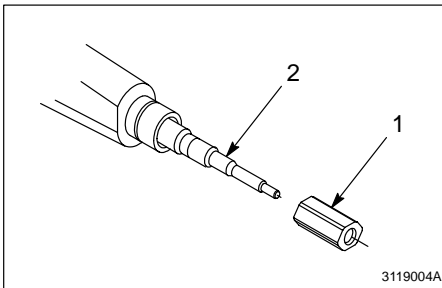


Fig. 4

### 2. Installing New Resistor



**WARNING:** All air must be replaced by dielectric grease in the multiplier well, resistor holder, and contact tip. High voltage can arc through air pockets and burn through the resistor holder and extension, creating a fire or explosion hazard.

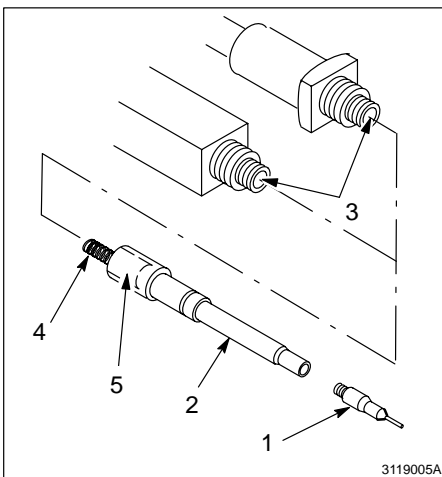


Fig. 5

8. See Figure 3. Loosen the three screws (1) in the handle cover (2) and separate the handle halves.
9. Remove the switch (3) and actuator (4) from the handle. Do not lose the actuator, screws, or washers.
10. Disconnect the ground wire (5) from the hanger.
11. Rotate the hose bracket (6) slightly to release the cable (7) from the handle.

12. See Figure 4. Unscrew the cable retaining nut (1) and remove the electrostatic cable or multiplier from the extension.
13. Unscrew the old resistor probe (2) from the cable or multiplier.

1. Remove the shipping container and protective caps from the new resistor probe.
2. See Figure 5. Unscrew the contact tip (1) from the probe (2).
3. Inject 0.5–0.75 cc of dielectric grease into the multiplier or cable fitting well (3), using the 3-cc applicator supplied with the kit.
4. Fill the new resistor spring (4) and the threaded end of the resistor probe (5) with 0.5–0.75 cc of dielectric grease.

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**2. Installing New Resistor**  
(contd.)

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5. Screw the new resistor probe onto the multiplier or cable fitting until snug.
6. Apply grease to the contact tip threads and into the end of the probe. Screw the contact tip into the probe until snug.
7. Wipe extruded grease off the contact tip and multiplier or cable fitting.
8. Reassemble the gun and reconnect the powder feed hose.

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