

150-, 300-, and 450-mm Lance Extensions

Installation



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 gun electrode before performing the following tasks. Failure to observe this warning could result in a severe shock.

The 150-, 300-, and 450-mm lightweight lance extensions can be used on manual and automatic Versa-Spray and Versa-Spray II powder spray guns. Follow the appropriate installation procedure based on which type of gun you have:

Gun Type Installation Procedure	
Versa-Spray	Standard Installation
Versa-Spray II without air	Standard Installation
Versa-Spray II with air	Gun with Air Installation

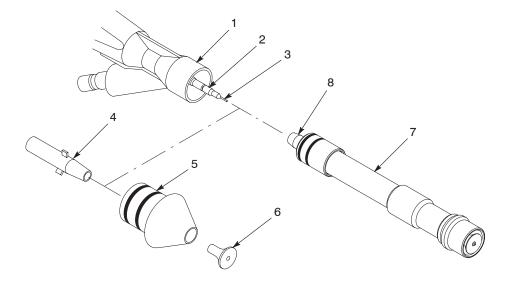
NOTE: Before installing the lance extension, disconnect the powder feed hose from the pump. Blow out the feed hose, powder inlet body, nozzle extension (if used), and nozzle with low-pressure compressed air. Use a clean, dry cloth to wipe off the remaining powder after removing the nozzle parts.

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Standard Installation

See Figure 1.

- 1. Remove the nozzle (5) and deflector (6), if used, from the powder inlet body (1).
- 2. Remove the wear sleeve (4) from the resistor probe (2).
- 3. Install the lance extension (7) into the end of the powder inlet body, guiding the resistor probe into the lance extension contact sleeve (8). Be careful not to damage the electrode (3).
- 4. If desired, the pattern adjust sleeve, deflector, and nozzle (See Figure 2, (7), (8), and (9)) can be removed from the lance extension and replaced with a flat-spray nozzle and adapter.



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Figure 1 Standard Lance Extension Installation

- 1. Powder inlet body
- 2. Resistor probe
- 3. Electrode

- 4. Wear sleeve
- 5. Conical nozzle
- 6. Deflector

- 7. Lance extension
- 8. Contact sleeve

Gun with Air Installation

See Figure 2.

- 1. Disconnect the air tubing from the nozzle extension assembly (2), then remove it from the powder inlet body (1).
- 2. Install the lance extension (6) into the end of the powder inlet body, guiding the resistor probe (3) into the lance extension contact sleeve (5). Be careful not to damage the electrode (4).
- 3. Remove the pattern adjust sleeve (9), deflector (8), and conical nozzle adapter (7) from the end of the lance extension. Install the flat-spray nozzle adapter (See Figure 3 (1)) in place of the nozzle.

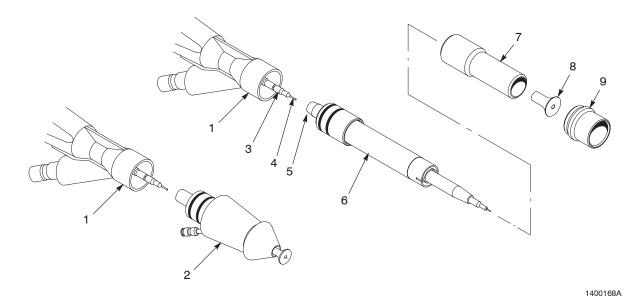


Figure 2 Gun with Air Lance Extension Installation

- 1. Powder inlet body
- 2. Nozzle extension assembly
- 3. Resistor probe

- 4. Electrode
- 5. Contact sleeve
- 6. Lance extension

- 7. Conical nozzle adapter
- 8. Deflector
- 9. Pattern adjust sleeve

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Gun with Air Installation (contd)

- 4. See Figure 3. Unscrew the wear sleeve (5) from the spider (6). If you need to remove the wear sleeve/spider/resistor holder assembly from the nozzle adapter in order to remove the wear sleeve, perform this procedure:
 - a. Remove the deflector (9) and nozzle (8), if used.
 - b. Push on the wear sleeve to get the wear sleeve/spider/resistor holder assembly (4) out of the body (3).
 - c. Unscrew the wear sleeve (5) from the spider (6).
 - d. Align the small pin (10) on the spider with the slot (11) in the body. Press the spider/resistor holder assembly (6, 7) back into the body.
 - e. Install the nozzle and deflector, if used, onto the extension assembly.
- 5. Install the nozzle extension assembly (2) onto the flat-spray nozzle adapter (1). The lance extension resistor probe fits up into the spider.

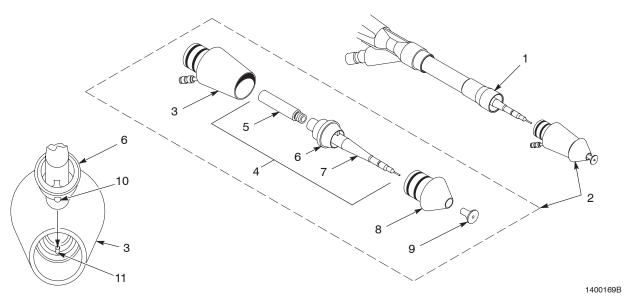


Figure 3 Removing the Nozzle Extension Wear Sleeve

- 1. Flat-spray nozzle adapter
- 2. Nozzle extension
- 3. Nozzle extension body
- 4. Wear sleeve/spider/resistor holder
- 5. Wear sleeve
- 6. Spider
- 7. Resistor holder
- 8. Nozzle

- 9. Deflector
- 10. Pin
- 11. Slot

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Parts

See Figure 4.

Item	Part	Description	Quantity	Note
_	233469	150 mm LANCE EXTENSION	1	
_	233468	300 mm LANCE EXTENSION	1	
_	233455	450 mm LANCE EXTENSION	1	
1	233467	TUBE, 150 mm, gun, extension	1	
1	233466	TUBE, 300 mm, gun, extension	1	
1	233454	TUBE, 450 mm, gun, extension	1	
2	941181	O-RING, silicone, 0.875 x 1.063 x 0.094 in.	2	
3	160066	ELECTRODE ASSEMBLY, lance, 150 mm	1	
3	160068	ELECTRODE ASSEMBLY, lance, 300 mm	1	
3	233451	ELECTRODE ASSEMBLY, lance, 450 mm	1	
4	170277	SERVICE KIT, lance resistor and electrode	1	
		support		
5	160020	SLEEVING, contact	1	
6	160021	LINK, adapter	AR	Α
7	233462	SUPPORT, cable well	1	
8	233461	ADAPTER, nozzle, light weight, with O-rings	1	
9	940203	O-RING, silicone, 0.875 x 1.000 x 0.063 in.	2	
10	233459	ADJUSTER, pattern, lance, with O-ring	1	
11	941193	O-RING, silicone, 0.937 x 1.125 x 0.094 in.	1	
12	173138	DEFLECTOR, 19 mm, flat, VS2, Tivar, with O-ring	1	
13	940084	O-RING, silicone, 0.188 x 0.312 x 0.063 in.	1	
14	233456	ADAPTER, nozzle, flat spray, with O-rings	1	
15	940203	O-RING, silicone, 0.875 x 1.000 x 0.063 in.	2	

NOTE A: Not used on 150-mm lance extensions. Use one on 300-mm lance extensions. Use two on 450-mm lance extensions.

AR: As Required

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Parts (contd)

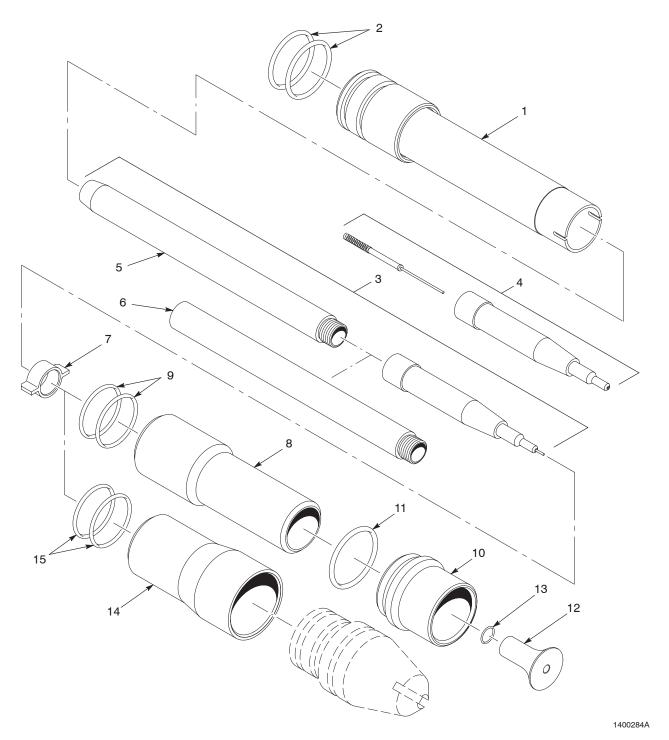


Figure 4 Lance Extensions

Issued 3/03

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