

Econo-Coat® Fluidizing Pickup Tubes

Description

See Figure 1. The Econo-Coat fluidizing pickup tube is used with a vibratory box feeder and powder pump in a mobile powder spray system.

As a box of powder rests on the vibratory box feeder, the fluidizing disk in the pickup tube fluidizes the powder in the box. The powder pump draws the fluidized powder up the pickup tube and forces the powder through the powder feed hose to the spray gun.

Three versions of the fluidizing pickup tube are available:

- **One Piece:** The fluidizing disk is part of the tube and is not replaceable. The one-piece design is easy to clean and maintain.
- **Threaded:** The replaceable fluidizing disk adapter is threaded onto the pickup tube. The threaded adapter stays securely on the pickup tube when you remove it from a box of powder.
- **O-ring Fit:** The replaceable fluidizing disk adapter is held onto the pickup tube with O-rings. The O-ring fit pickup tube has been discontinued, but replacement parts are still available.

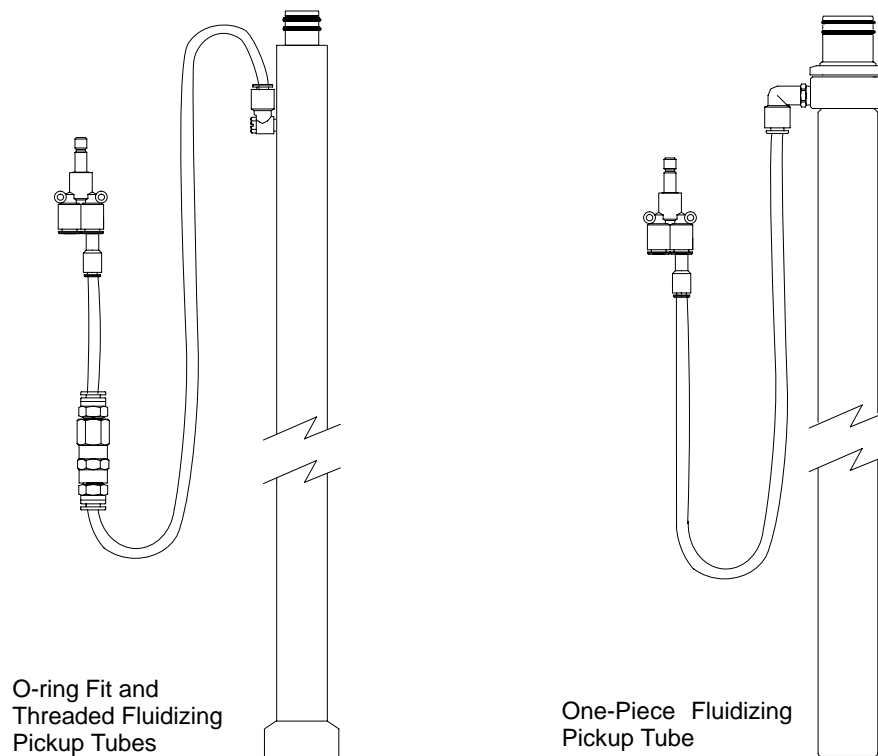


Figure 1 Econo-Coat Fluidizing Pickup Tubes

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Installation



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

See Figure 2.

1. If there is a pickup tube already installed, remove it using these steps:
 - a. Disconnect the air tubing from the elbow (8).
 - b. Pull the powder pump (14) off the pickup tube.
 - c. Unscrew the lock nut (13). Remove the O-ring (12). Remove the pickup tube assembly (10) from the bracket (11).
- NOTE:** O-ring (12) is used on kit 1033061 only.
- d. **One-Piece Fluidizing Pickup Tubes Only:**
If you are replacing an existing O-ring fit or threaded fluidizing pickup tube, the outside diameter of the one-piece fluidizing pickup tube is larger than the hole in the existing bracket. Either order a new bracket or drill out the hole to the size shown in Figure 3.
2. Unscrew the lock nut (13) from the new pickup tube assembly (10).

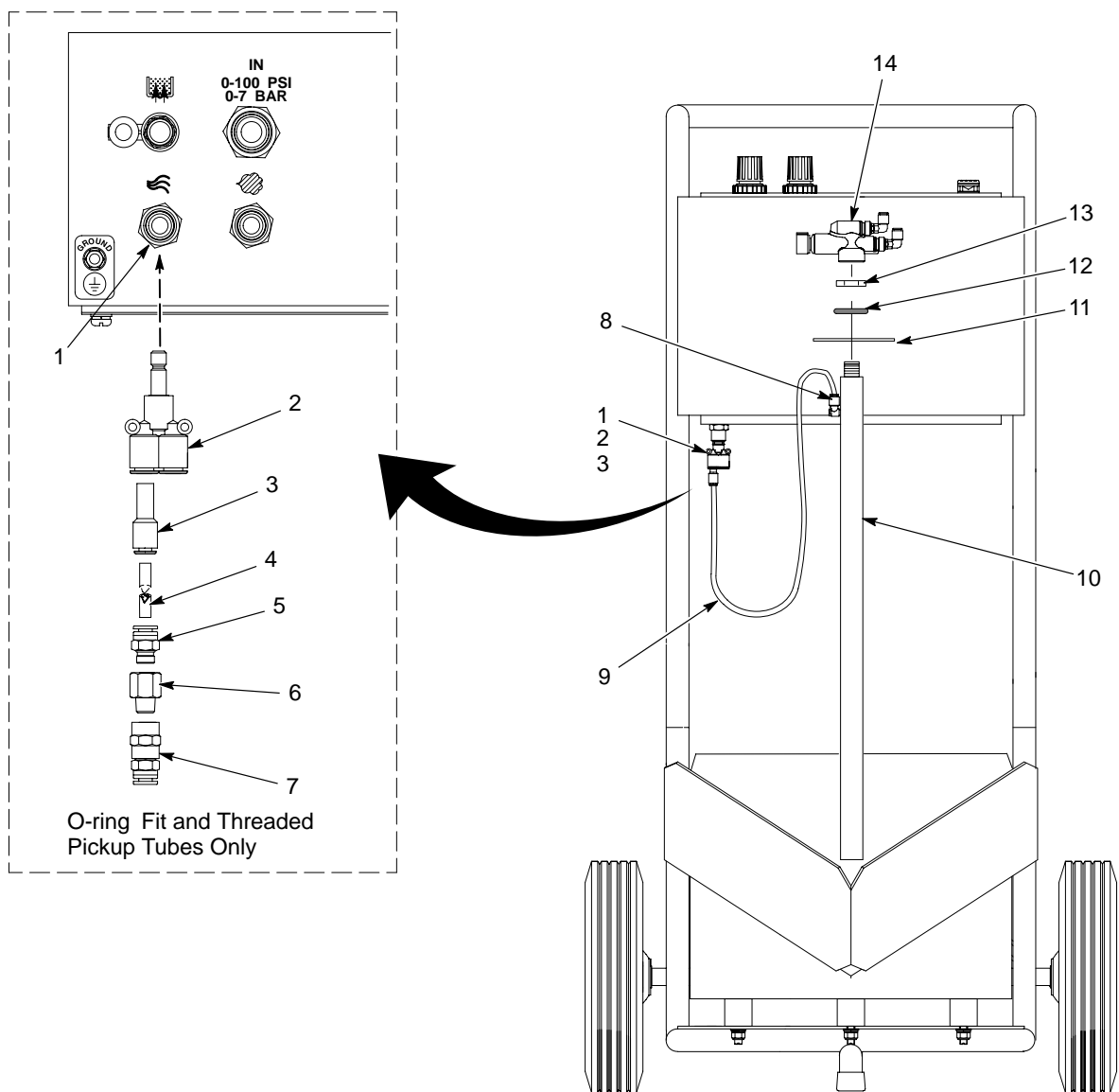
3. Insert the pickup tube assembly up through the dolly's pickup tube bracket (11).
4. Install the O-ring and lock nut to secure the pickup tube assembly to the pickup tube bracket.
5. Using a slight twisting motion, push the powder pump (14) onto the pickup tube assembly.
6. Install the air fittings that are included with the pickup tube assembly:
 - a. Push the Y-fitting (2) into the control unit's atomizing air fitting (1).
 - b. Push the 8-mm to 6-mm reducer (3) into the Y-fitting.

O-ring Fit and Threaded Pickup Tubes Only:

NOTE: Disregard steps c and d if you are installing a one-piece fluidizing pickup tube.

- c. Push the 0.3 m (1 ft) length of 6-mm air tubing (4) into the reducer.
 - d. Install the male connector (5), orifice (6), and female connector (7). Push the male connector end of the assembly onto the loose end of the 0.3 m (1 ft) length of 6-mm tubing.
7. Install blue, 6-mm air tubing (9) from the elbow (8) to the reducer (3) or female connector (7), as applicable.

NOTE: The other connection on the Y-fitting is used to connect atomizing air tubing to the powder pump.



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Figure 2 Installation

- | | | |
|---|---------------------------------------|-----------------------|
| 1. Control unit atomizing air fitting | 6. Orifice | 11. Bracket |
| 2. Y-fitting | 7. Female connector | 12. O-ring (see Note) |
| 3. Reducer | 8. Fluidizing pickup tube elbow | 13. Lock nut |
| 4. Blue, 6-mm air tubing (0.3 m (1 ft)) | 9. Blue, 6-mm air tubing (1.5 m 5 ft) | 14. Powder pump |
| 5. Male connector | 10. Fluidizing pickup tube | |

Note: Items 4, 5, 6, and 7 are only used with the O-ring fit and threaded fluidizing pickup tubes. They are not present on one-piece fluidizing pickup tube assemblies.
Item 12 O-ring is used on kit 1033061 only.

Parts

NOTE: The fluidizing adapter on the threaded fluidizing pickup tube stays securely on the pickup tube when you remove it from a box of powder. To upgrade an existing O-ring fit pickup tube to a threaded tube, order the insert adapter (part 1031591) and inner pickup tube (part 1031590).

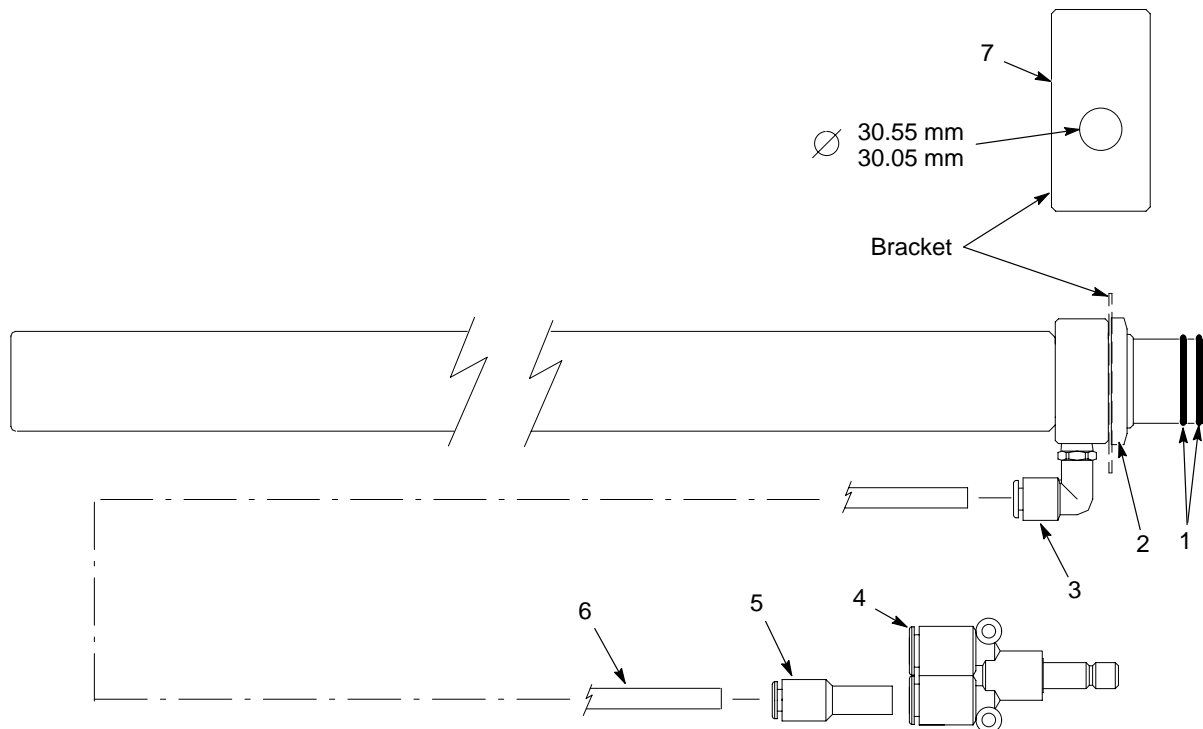
NOTE: The O-ring fit fluidizing pickup tube has been discontinued, but replacement parts are still available.

One-Piece Fluidizing Pickup Tube Kit

See Figure 3.

NOTE: If you replace an existing O-ring fit or threaded pickup tube with this kit, you must either drill out the hole in the bracket as shown in Figure or order a new bracket (7), as the outside diameter of the new tube is greater than the diameter of the hole in the bracket.

Item	Part	Description	Quantity	Note
—	1043075	KIT, one-piece fluidized pickup tube, VBF	1	
1	941185	• O-RING, silicone, conductive, 0.875 x 1.062 in.	2	
2	1043595	• NUT, M30 x 1.5, NZ steel	1	
3	1043603	• ELBOW, male, 6 mm x 1/8 in.	1	
4	1020208	• CONNECTOR, plug-in Y, 8-mm tube	1	
5	972286	• REDUCER, 8-mm stem x 6-mm tube	1	
6	900742	• AIR TUBING, 6-mm OD x 4 mm, blue	6 ft	
7	1018642	BRACKET, slide, pickup tube	1	



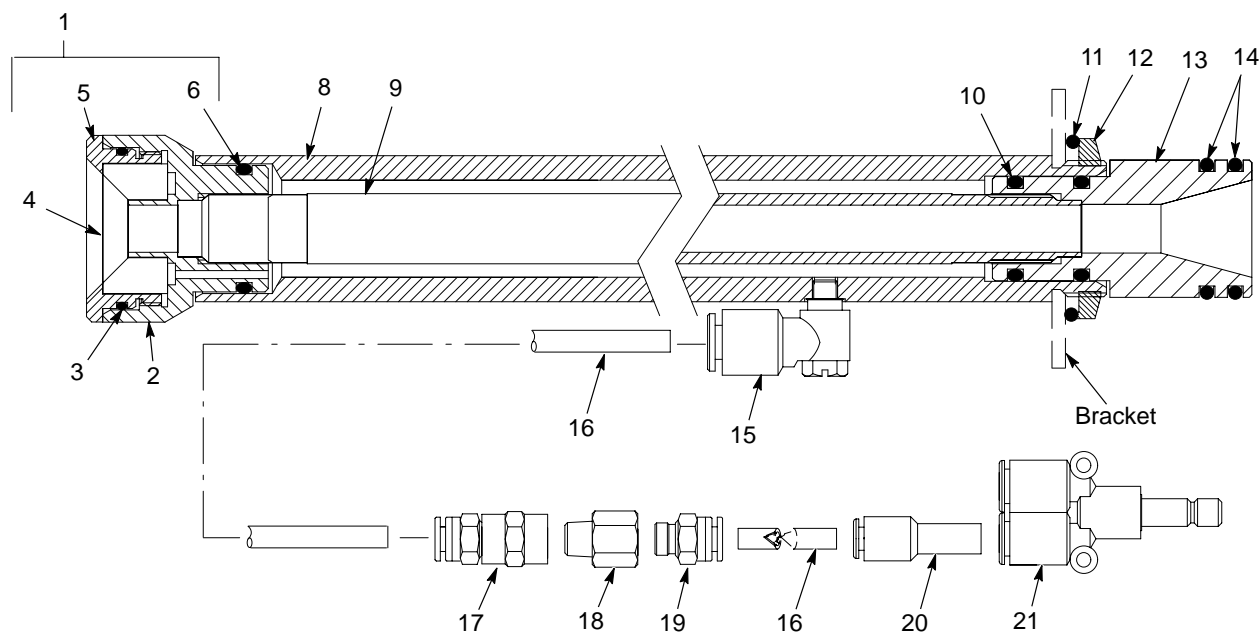
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Figure 3 One-Piece Fluidizing Pickup Tube Kit

Threaded Fluidizing Pickup Tube Kit

See Figure 4.

Item	Part	Description	Quantity	Note
—	1033061	KIT, fluidizing pickup tube, threaded, Econo-Coat, vibratory box feeder	1	
1	1031622	• KIT, adapter, fluidizing	1	
2	1031591	• • ADAPTER, insert, fluidizing box feeder	1	
3	940243	• • O-RING, silicone, 1.125 x 1.25 x 0.063 in.	1	
4	305789	• • INSERT, fluidizing disc, box feeder	1	
5	305786	• • CAP, pickup tube, fluidizing box feeder	1	
6	941178	• • O-RING, silicone, conductive, 0.812 x 1.00 in.	1	
8	305785	• TUBE, pickup, outer, fluidizing box feeder	1	
9	1031590	• TUBE, pickup, fluidizing box feeder	1	
10	941145	• O-RING, silicone, conductive, 0.625 x 0.812 in.	2	
11	941201	• O-ring, Viton, 1.00 x 1.88 x 0.094 in.	1	
12	939613	• LOCKNUT, conduit, $\frac{3}{4}$ -in. NPS	1	
13	152227	• ADAPTER, pump, vibrator box feeder	1	
14	941185	• O-RING, silicone, conductive, 0.875 x 1.062 in.	2	
15	972310	• ELBOW, male, M5 x 6 mm	1	
16	900742	• AIR TUBING, 6-mm OD x 4 mm, blue	6 ft	
17	972157	• CONNECTOR, female, M6 tube x $\frac{1}{8}$ -in. RPT	1	
18	972243	• ORIFICE, 0.026, $\frac{1}{8}$ -in. NPT x $\frac{1}{8}$ -in. NPT	1	
19	972141	• CONNECTOR, male, 6-mm tube x $\frac{1}{8}$ -in. universal	1	
20	972286	• REDUCER, 8-mm stem x 6-mm tube	1	
21	1020208	• CONNECTOR, plug-in Y, 8-mm tube	1	



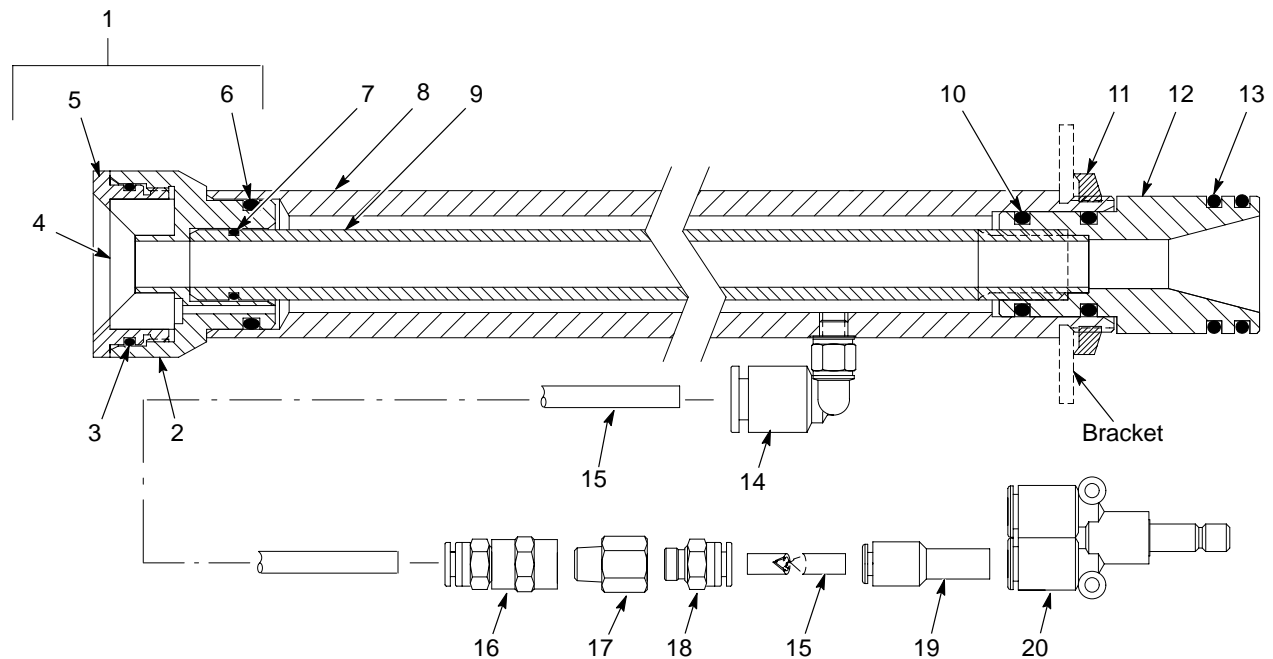
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Figure 4 Threaded Fluidizing Pickup Tube Kit

O-Ring Fit Fluidizing Pickup Tube Kit (Discontinued)

See Figure 5.

Item	Part	Description	Quantity	Note
—	1019751	KIT, fluidizing pickup tube, O-ring fit, box feeder	1	
1	306175	• KIT, adapter, fluidizing	1	
2	305787	• • ADAPTER, insert, fluidizing box feeder	1	
3	940243	• • O-RING, silicone, 1.125 x 1.25 x 0.063 in.	1	
4	305789	• • INSERT, fluidizing disc, box feeder	1	
5	305786	• • CAP, pickup tube, fluidizing box feeder	1	
6	941178	• • O-RING, silicone, conductive, 0.812 x 1.00 in.	1	
7	940137	• O-RING, silicone, 0.437 x 0.562 x 0.063 in.	1	
8	305785	• TUBE, pickup, outer, fluidizing box feeder	1	
9	305784	• TUBE, pickup, fluidizing box feeder	1	
10	941145	• O-RING, silicone, conductive, 0.625 x 0.812 in.	2	
11	939613	• LOCKNUT, conduit, $\frac{3}{4}$ -in. NPS	1	
12	152227	• ADAPTER, pump, vibrator box feeder	1	
13	941185	• O-RING, silicone, conductive, 0.875 x 1.062 in.	2	
14	972310	• ELBOW, male, M5 x 6 mm	1	
15	900742	• AIR TUBING, 6-mm OD x 4 mm, blue	6 ft	
16	972157	• CONNECTOR, female, M6 tube x $\frac{1}{8}$ -in. RPT	1	
17	972243	• ORIFICE, 0.026, $\frac{1}{8}$ -in. NPT x $\frac{1}{8}$ -in. NPT	1	
18	972141	• CONNECTOR, male, 6-mm tube x $\frac{1}{8}$ -in. universal	1	
19	972286	• REDUCER, 8-mm stem x 6-mm tube	1	
20	1020208	• CONNECTOR, plug-in Y, 8-mm tube	1	



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Figure 5 O-Ring Fit Fluidizing Pickup Tube Kit

Issued 11/04

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