

Econo-Coat® Mobile Powder Spray System with Box Feeder

Introduction

See Figure 1. The Econo-Coat mobile powder spray system is a complete manual powder spray system mounted to a two-wheeled dolly. Refer to *System Overview* on page 11 for a description of the equipment included with the system.

This instruction sheet explains how to assemble, operate, and order replacement parts for the Econo-Coat mobile powder spray system. More detailed information about the powder pump (3), spray gun (4), and control unit (5), can be found in the manuals that were shipped with them.

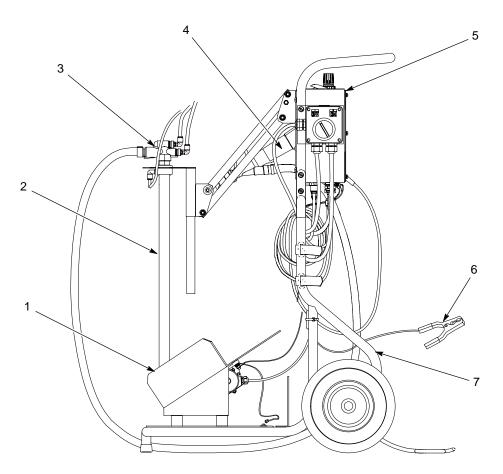


Figure 1 Econo-Coat Mobile Powder Spray System with Box Feeder

- 1. Vibratory box feeder
- 2. Fluidizing pickup tube
- 3. Powder pump

- 4. Spray gun
- 5. Control unit

6. System ground wire with clamp

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7. Dolly

Note: Refer to System Overview on page 11 for a description of the component functions.

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Assembly



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



WARNING: All conductive equipment in the spray area must be connected to a true earth ground. Ungrounded or poorly grounded equipment can become electrically charged. This charge can deliver a severe shock or create sparks hot enough to cause a fire or explosion.

Component Assembly

Remove the dolly and boxes from the shipping box. Open each box and lay out the parts contained in the boxes. Assemble the components following these instructions:

NOTE: Your system may have been partially assembled at the factory. If a component is already assembled to the dolly, disregard its assembly procedure. See Figure 2.

Component	Procedure
Vibratory Box Feeder	1. Secure the vibratory box feeder (2) to the dolly using the M8 flat washers, lock washers, and hex nuts (1) supplied with the vibratory box feeder.
	2. Secure the vibratory box feeder switch (5) to the side of the dolly frame using M5 pan-head screws, lock washers, and flat washers (6) on the outside of the dolly frame and M5 flat washers and hex nuts (4) on the inside.
Control Unit	 Place the top of the control unit (12) against the back of the control unit mounting bracket (3).
	2. Secure the control unit to the mounting bracket using the four M6 pan-head screws and lock washers (13).
Pickup Tube	Pivot the pickup tube arm (11) away from the dolly.
	2. Slide the pickup tube bracket (10) into the pickup tube arm.
	3. Remove the lock nut (8) and O-ring (14) from the pickup tube assembly (7).
	 Insert the pickup tube assembly up through the pickup tube bracket. Install the lock nut and O-ring to secure the pickup tube assembly to the pickup tube bracket.
	NOTE: O-ring (14) is used on kit 1033061 only.
Powder Pump	Using a slight twisting motion, push the powder pump (9) onto the pickup tube assembly (7).

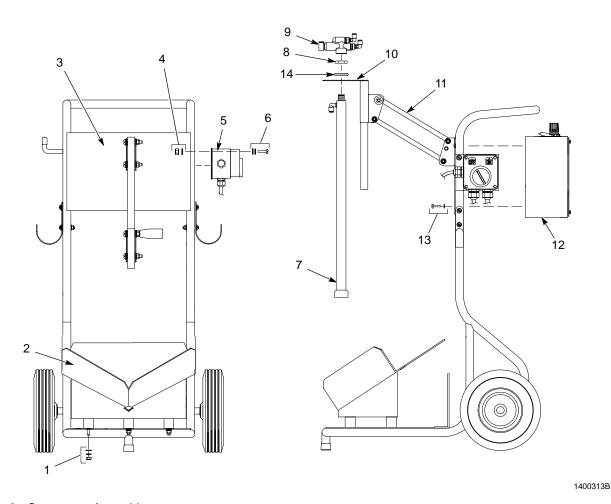


Figure 2 Component Assembly

- 1. M8 flat washer, lock washer, hex nut
- 2. Vibratory box feeder
- 3. Control unit mounting bracket
- 4. M5 Hex nuts and flat washers
- 5. Vibratory box feeder switch
- 6. M5 screw, lock washer, flat washer 11. Pickup tube arm
- 7. Pickup tube assembly
- 8. Lock nut
- 9. Powder pump
- 10. Pickup tube bracket

- 12. Control unit
- 13. M6 Pan-head screws and lock washers
- 14. O-ring (see Note)

Note: O-ring (14) is used on kit 1033061 only.

Electrical Connections

Complete two electrical connections:

- Control Unit Power Cord: Wire the control unit power cord to the box feeder switch
- Power Input Cord: Wire the box feeder switch power cord to an electrical panel or customer-supplied plug.

Control Unit Power Cord

Remove the cover from the vibratory box feeder switch, pull the control unit's power cord through the empty cable gland, and wire the power cord to the terminal block as shown in the appropriate wiring diagram. Tighten the cable glands on all three cables.

NOTE: Two vibratory box feeders are available (220 volt and 115 volt).

- See Figure 3 for 220-volt box feeder wiring.
- See Figure 4 for 115-volt box feeder wiring.

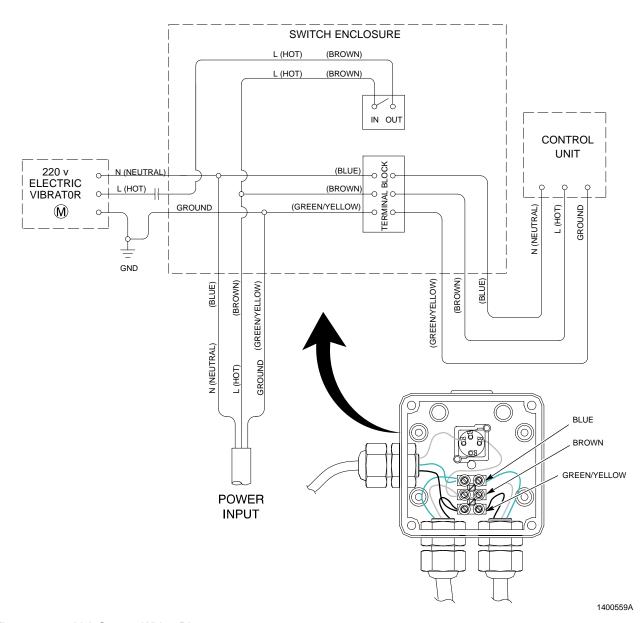


Figure 3 220-Volt System Wiring Diagram

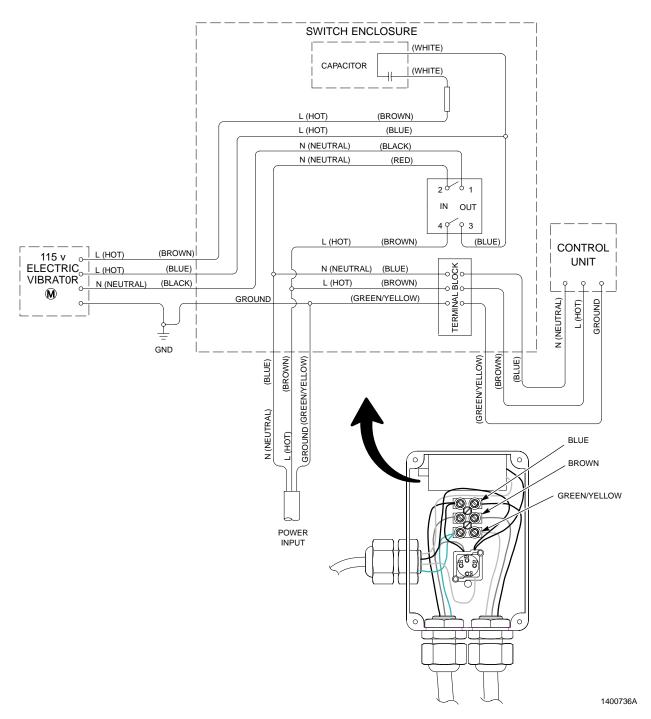


Figure 4 115-Volt System Wiring Diagram

Power Input Cord

Wire the power input cord (attached to the box feeder switch) to either an electrical panel or a customer-supplied plug.

Wire Color	Function	
Blue	N (neutral)	
Brown	L (hot)	
Green/Yellow	GND (ground)	

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Ground Wires

Two ground wires are included with the system. See Figure 5 for guidelines for installing them.

NOTE: Install the ground wires between the flat washers on the ground studs as shown.

Item	Description	Connections	
1	Ground Wire with Clamp	Control unit ground stud	
2	Three-Ring Ground Wire	Control unit ground stud	
		Vibratory box feeder ground stud	
		Dolly ground stud	

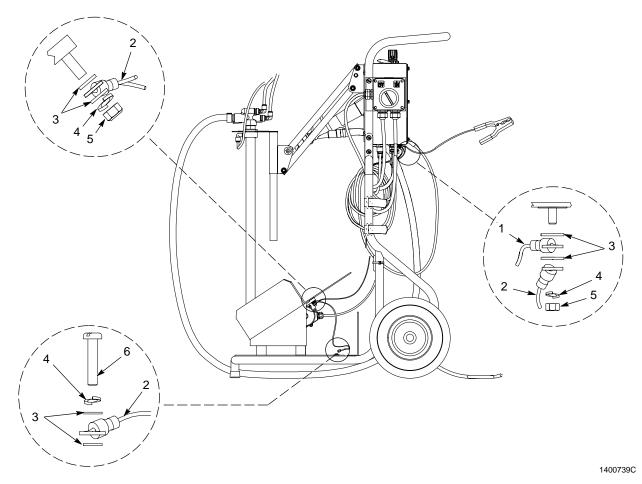


Figure 5 Ground Wires

- 1. Ground wire with clamp
- 2. Three-ring ground wire
- 3. Flat washers
- 4. Lock washer

- 5. Hex nut
- 6. Pan-head screw

Fluidizing Air Assembly

See Figure 6.

NOTE: The fittings and air tubing in this procedure are included in the fluidizing pickup tube kit.

- 1. Push the Y-fitting (1) into the control unit's atomizing air fitting.
- 2. Install the 8-mm to 6-mm reducer (2) into the Y-fitting.
- 3. Push the blue, 6-mm air tubing (3) into the reducer. Connect the other end of the tubing to the pickup tube elbow.

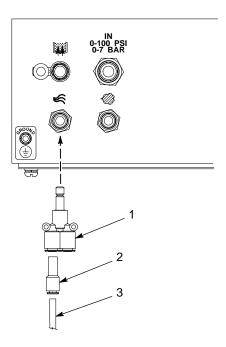


Figure 6 Fluidizing Air Assembly

- 1. Y-fitting
- 3. Blue 6-mm air tubing

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2. Reducer

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Tubing and Cable Connections

See Figure 7.

NOTE: Use the two hose clamps (provided with the feed hose) to secure the powder feed hose to the powder pump outlet and spray gun inlet.

Item	Description	Size	Control Unit Back Panel Connection	Other Equipment Connection
1	Atomizing Air Tubing (Blue)	8-mm OD	Control Unit Y-Fitting	Powder Pump Elbow A
2	Flow Rate Air Tubing (Black)	8-mm OD		Powder Pump Elbow F
3	Fluidizing Air Tubing (Blue)	6-mm OD	Fluidizing Air Fittings (E or F)	Pickup Tube Elbow
4	Powder Feed Hose (Blue)	12.7-mm (¹ / ₂ -in.) ID	(not connected to control unit)	Powder Pump Outlet; Spray Gun Inlet
5	Spray Gun Cable	_	GUN OUTPUT (See Note)	Spray Gun Handle (prewired)
6	POWER INPUT Cable	_	POWER INPUT (prewired)	Vibratory Box Feeder Switch (Refer to <i>Electrical</i> <i>Connections on</i> <i>page 4</i>)
7	Air Supply Tubing (Blue)	10-mm OD	IN 0-100 PSI 0-7 BAR	Clean, Dry Air Source

NOTE: Tighten the gun cable retaining nut to 6 N•m (4.4 ft-lb). An optional 4-meter extension cable is available. Do not add more than two extension cables to the gun cable.

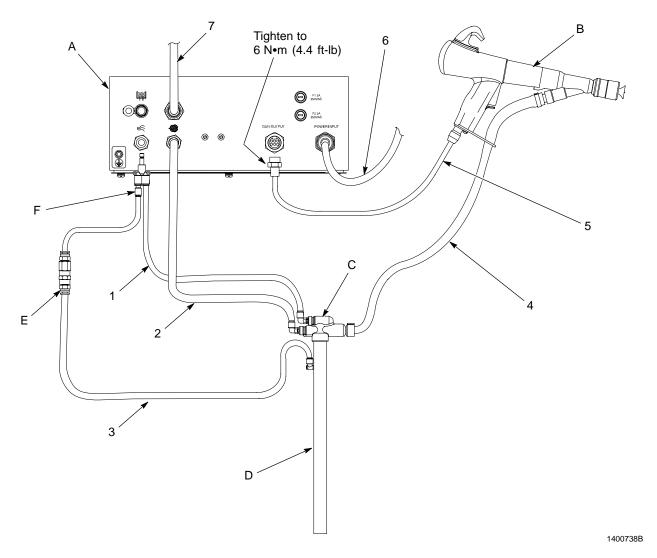


Figure 7 Tubing and Cable Connections

- A. Control unit
- B. Spray gun
- C. Pump
- D. Pickup tube
- E. Fluidizing air fittings
- F. Fluidizing air fittings

- 1. Blue, 8-mm air tubing
- 2. Black, 8-mm air tubing
- 3. Blue, 6-mm air tubing
- 4. Powder feed hose

- 5. Gun cable
- 6. POWER INPUT cable
- 7. Blue, 10-mm air tubing (IN)

Note: Item E is used only with old-style, O-ring fit pickup tubes. If your system does not have an O-ring fit pickup tube, connect the blue, 6-mm air tubing (3) to item F.

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Bundling Cables and Air Tubing

See Figure 8.

Item	Description	Bundle These Items Together to the Dolly Frame:	
1	Spiral-Cut Tubing	Flow rate, atomizing, and fluidizing air tubing	
		NOTE: Use the spiral-cut tubing only to bundle the air tubing together as shown. Use a cable tie (2) to secure the bundled tubing to the dolly frame.	
2	Cable Tie	Three-ring ground wire; ground wire with clamp; and flow rate, atomizing, and fluidizing air tubing	
3	Cable Tie	Three-ring ground wire; ground wire with clamp; and fluidizing air tubing	
4	Cable Tie	Vibrator motor capacitor (220-volt systems only)	
5	Hook and Loop Tape Strap	Control unit power cord, gun cable, vibrator motor cord and system power cord	
6	Hook and Loop Tape Strap	Control unit power cord, gun cable, vibrator motor cord and system power cord	

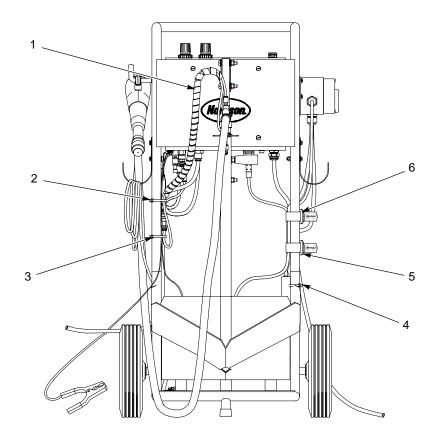


Figure 8 Bundling Cables and Air Tubing

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System Overview

Item	Description	Function
1	Vibratory Box Feeder	Vibrates a box of powder to promote even powder distribution in the box
2	Fluidizing Pickup Tube	Injects air into the powder at the end of the pickup tube, fluidizing the powder and preventing clogging
3	Powder Pump	Draws the fluidized powder coating up the fluidizing pickup tube and forces it through the powder feed hose and out to the spray gun
4	Powder Spray Gun	Electrostatically charges and sprays the powder coating
5	Control Unit	Adjusts the electrostatic and air flow characteristics of the system
6	System Ground Wire with Clamp	Connects all of the system components to a true earth ground
7	Dolly	Provides a central location for all system components and allows the system to be moved easily

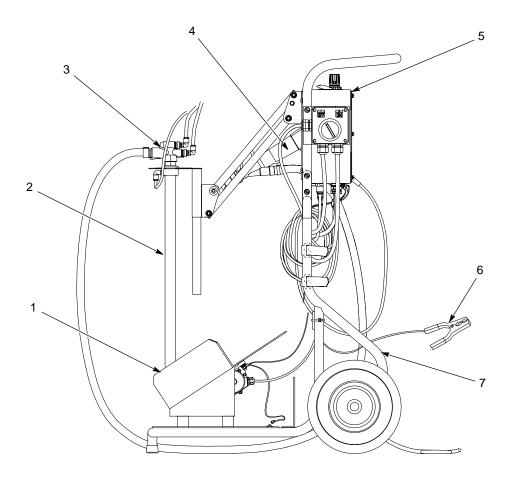


Figure 9 System Overview

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Operation



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



WARNING: This equipment can be dangerous unless it is used in accordance with the rules laid down in this manual.

Powder Box Installation

NOTE: The vibratory box feeder can hold 11-25 kg (25-55 lb) boxes of powder.

See Figure 10.

- 1. Pivot the pickup tube arm (6) upward as far as possible.
- 2. Pull the pickup tube and bracket (3, 4) out of the arm bracket (5).

NOTE: To store the pickup tube and bracket during box installation or maintenance, place the slot in the end of the pickup tube bracket onto the arm bracket as shown in the detail in See Figure 10.

- 3. Place a box of powder (2) in the vibratory box feeder cradle (1).
- 4. Fold back the box flaps and open the plastic bag containing the powder coating. Fold the bag over the box flaps to keep the flaps out of the way.

NOTE: Do not force the end of the pickup tube into the powder. During operation, vibration and gravity will cause the pickup tube to sink into the powder.

- 5. Pivot the pickup tube arm downward as far as it will go. Slide the pickup tube and bracket assembly into the arm bracket and allow the pickup tube to sink into the powder.
- 6. To prevent accidental powder spills, wrap the plastic bag around the pickup tube and loosely secure the bag with a tie wrap.

Startup



WARNING: All conductive equipment in the spray area must be connected to a true earth ground. Failure to observe this warning may result in a severe shock.

Make sure that the following conditions have been met before operating the Econo-Coat mobile powder spray system:

- All of the Assembly procedures on pages 2-10 have been completed.
- The air supply system's filters and dryer are working properly.
- The booth exhaust fans are operating.
- The powder recovery system is operating.
- The spray gun cable, powder feed hose, and air tubing are connected securely to controller, powder pump, and spray gun.
- 1. Secure the system ground wire with clamp (9) to a true earth ground.
- 2. Set the control unit air pressures to zero by turning the flow rate and atomizing air regulators completely counterclockwise.
- 3. Set the supply air pressure to 5-7 bar (80-100 psi).
- 4. Install a box of powder onto the vibratory box feeder. Refer to Powder Box Installation for instructions.
- 5. Turn the control unit power switch (7) to the on position.
- 6. Turn the vibratory box feeder power switch (8) to the on position.

NOTE: The following air pressure settings are average starting points. Experimentation will be necessary to achieve the desired results. The flow rate and atomizing air pressures can only be adjusted while the spray gun is spraying.

7. Point the spray gun into the booth and hold down the trigger. Set the flow rate and atomizing air pressures to the following specifications:

Flow Rate Air: 2 bar (30 psi) Atomizing Air: 0.7 bar (10 psi)

8. Adjust the kV or μA setpoint as desired using the +/- keys.

NOTE: The kV increases or decreases in multiples of 1. The µA increases or decreases in multiples of 5.

NOTE: To reset the kV setpoint to 0, press and hold the +/- keys at the same time.

- 9. Pull the spray gun trigger to test the spray pattern. Adjust the kV or µA setpoint; the flow rate and atomizing air pressures; and spray gun nozzle to obtain the desired spray pattern.
 - For a narrower spray pattern, slide the nozzle's pattern adjuster toward the front of the spray gun.
 - For a wider spray pattern, slide the nozzle's pattern adjuster toward the back of the spray gun.

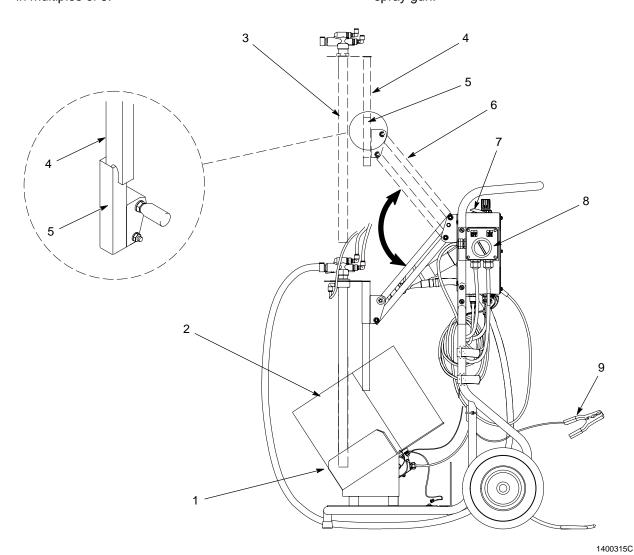


Figure 10 Operation

- 1. Vibratory box feeder cradle
- 2. Box of powder
- 3. Pickup tube

- 4. Pickup tube bracket
- 5. Arm bracket
- 6. Pickup tube arm

- 7. Control unit power switch
- Vibratory box feeder power switch
- System ground wire with clamp

Shutdown

- 1. Turn off the main air supply and relieve system air pressure.
- 2. Turn the flow rate and atomizing air regulators completely counterclockwise.
- 3. See Figure 10. Turn the vibratory box feeder power switch (7) to the off position.
- 4. Turn the control unit power switch (6) to the off position.
- Disconnect the main air supply tubing from the air source.
- 6. If the control unit power cable is connected by a plug, disconnect the power cable from the power source.
- 7. Perform the Daily Maintenance procedures.

Daily Maintenance



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 control unit and vibratory box feeder and disconnect the system from its input power source before performing any of the following tasks. Failure to observe this warning may result in a severe shock.



WARNING: Relieve system air pressure and disconnect the system from its input air supply before performing any of the following tasks. Failure to observe this warning may result in personal injury.

NOTE: If necessary, remove any O-rings and clean parts using a cloth dampened with isopropyl or ethyl alcohol. Do not immerse the parts in alcohol. Do not use any other solvents.

Perform the *Shutdown* procedure before completing any of the following daily maintenance procedures.

Component	Procedure
Spray Gun	Disassemble and clean the spray gun's powder path.
	Refer to the Econo-Coat Manual Powder Spray Gun manual for instructions.
Pump	Disassemble the pump and clean all parts using low-pressure, compressed air.
	Replace any worn or damaged parts.
	Refer to the pump manual for instructions.
Pickup Tube	Blow powder off all outer and inner surfaces using low-pressure, compressed air.
Control Unit	Wipe powder off the control unit using a clean, lint-free cloth.

Parts

NOTE: Replacement parts for the powder pump, spray gun, and control unit are listed in their own manuals.

System Part Numbers

These part numbers include all of the components included with the mobile powder spray system, including the dolly, spray gun, control unit, pump, pickup tube, and box feeder. If you do not know the input voltage of your system, compare the part number on the system identification plate to these part numbers. The system identification plate is located on the front of the dolly near the box feeder switch.

Part	Description
1018639	SYSTEM, dolly, vibratory box feeder, 220 volt, 50 Hz, Econo-Coat
1019713	SYSTEM, dolly, vibratory box feeder, 115 volt, 60 Hz, Econo-Coat

Dolly Parts

See Figure 11.

Item	Part	Description	Quantity	Note
1		DOLLY, one piece, assembly	1	
2		NUT, hex, M5, steel, zinc	7	
3		WASHER, lock, helical spring, M5, steel, zinc	7	
4		WASHER, flat, M5, steel, zinc	13	
5	1018641	BRACKET, handgun, two-wheeled dolly	1	
6		SCREW, pan, slotted, M5 x 40, steel, zinc	4	
7	164578	BRACKET, hose/cable	2	
8		WHEEL, 10 x 2.75 in.	2	
9		CAP, push, ⁵ / ₈ -in. shaft (16 mm)	2	
10		CAP, tube, load bearing, 1.00 in.	1	
11		SCREW, pan, slotted, M5 x 25, brass	1	
12		WASHER, flat, M5, brass	2	
13	240674	TAG, ground	1	
14	1018640	BRACKET, electrical box, two-wheeled dolly	1	
15		SCREW, pan, slotted, M5 x 40, zinc	2	
16	1018642	BRACKET, slide, pickup tube	1	
17		BRACKET, pivot, pickup tube, slide	1	
18		BRACKET, pivot, box feeder arm	1	
19	860538	SCREW, pan head, slotted, M5 x 8, zinc	2	Α
20	345169	SCREW, pan, slotted, M8 x 40, stainless steel	4	Α
21	983263	WASHER, flat, M8, stainless steel	22	
22	983404	WASHER, lock, M8, steel, zinc	10	
23		NUT, hex, M8, stainless steel with nylon insert	4	
24		ARM, vibratory box feeder pickup tube	2	
25		HANDLE, tapered, plastic, M8 x 1.25-in. thread	1	
26		SCREW, shoulder, M6 x 1.0 x 30-mm shoulder	1	
27		NUT, hex, M6, with nylon insert, stainless steel	1	
NS	1019752	HARNESS, grounding, 3 ring-tongue terminals	1	

NOTE A: These screws are installed with threadlocking adhesive.

NS: Not Shown

Dolly Parts (contd)

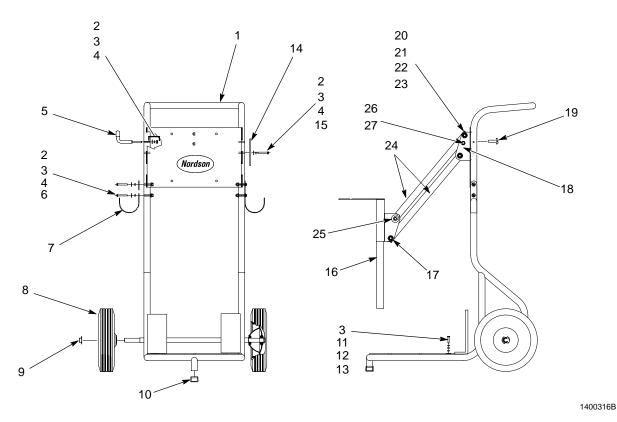


Figure 11 Dolly Parts

Fluidizing Pickup Tubes

Two fluidizing pickup tubes are available for the mobile powder spray system:

- One-Piece: The fluidizing adapter is an integral part of the pickup tube and cannot be replaced separately. The one-piece pickup tube is easier 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.

Discontinued Pickup Tube

• O-Ring Fit: The replaceable fluidizing adapter fits onto the inner pickup tube with an O-ring.

NOTE: The O-ring fit fluidizing pickup tube has been discontinued, but replacement parts are still available. Refer to *One-Piece Fluidizing Pickup Tube Kit* for information about upgrading from an existing O-ring fit pickup tube.

One-Piece Fluidizing Pickup Tube Kit

See Figure 12.

NOTE: If you replace an existing O-ring fit pickup tube with this kit, you must either drill out the hole to the size shown in Figure 12 or order a new bracket (7). 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	

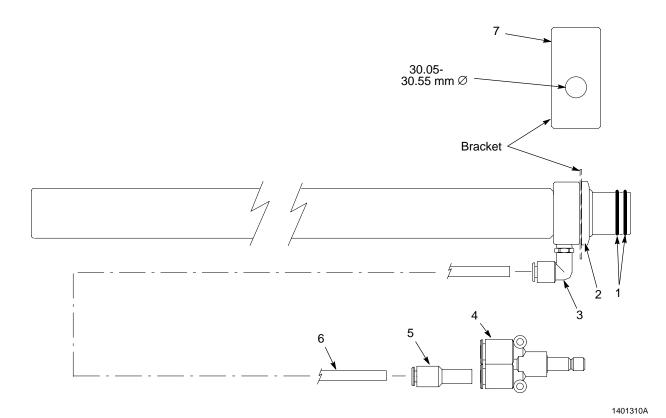


Figure 12 One-Piece Fluidizing Pickup Tube Kit

Threaded Fluidizing Pickup Tube Kit

See Figure 12.

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, 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 ¹ / ₈ -in. RPT	1	
18	972243	 ORIFICE, 0.026, ¹/₈-in. NPT x ¹/₈-in. NPT 	1	
19	972141	CONNECTOR, male, 6-mm tube x 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	

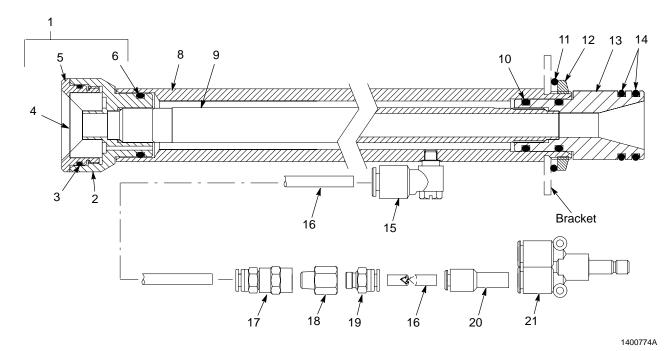


Figure 13 Threaded Fluidizing Pickup Tube Kit

Part 1006701F

O-Ring Fit Fluidizing Pickup Tube Kit (Discontinued)

See Figure 14.

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, 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 ¹ / ₈ -in. RPT	1	
17	972243	 ORIFICE, 0.026, ¹/₈-in. NPT x ¹/₈-in. NPT 	1	
18	972141	CONNECTOR, male, 6-mm tube x 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	

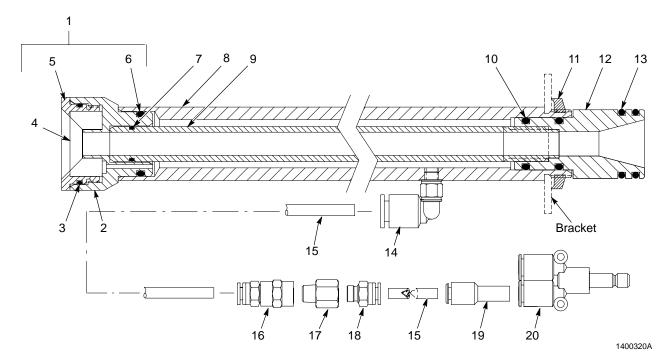


Figure 14 O-Ring Fit Fluidizing Pickup Tube Kit

Vibratory Box Feeder

See Figure 15.

Item	Part	Description	Quantity	Note
1		HOLDER, vibratory box assembly	1	
2	1018596	ISOLATOR, vibration, 3-mm dia x 8-mm studs	3	
3		WASHER, flat, M8, stainless steel	6	
4		WASHER, lock, M8, steel, zinc	6	
5		NUT, hex, M8, stainless steel with nylon insert	6	
6	1005703	VIBRATOR, electrical, 220 V, 50 Hz	1	Α
6	1005702	VIBRATOR, electrical, 115 V, 60 Hz	1	Α
7		CABLE, vibratory box feeder	1	
8		CABLE GLAND, M16 x 1.5	1	
9		TERMINAL BLOCK, 3 pole	1	
10		CABLE GLAND, M20 x 1.5	2	
11	1010223	CORD, power, controller to J-box	1	В
12	140794	CABLE, SO, power, 16/3, 90 D, black, blue-brown-green/yellow	15 ft	

NOTE A: Check the voltage on your existing vibrator before ordering.

B: Power cord 1010223 is included with the control unit.

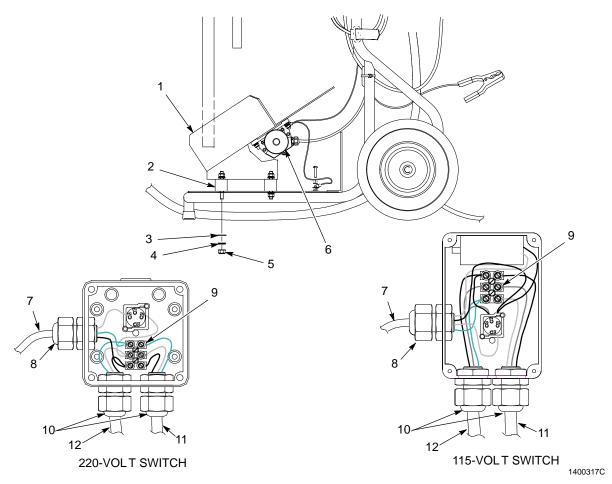


Figure 15 Vibratory Box Feeder Parts

Part 1006701F

Air Tubing, Powder Feed Hose, and Accessories

The following parts are shipped with the system.

NOTE: Order all air tubing and powder feed hose in increments of one foot.

Part	Description	Quantity		
900740	AIR TUBING, 10/6.5-7 mm, polyurethane (IN)	AR		
900618	AIR TUBING, 8-mm OD, blue, polyurethane (atomizing)	AR		
900619	AIR TUBING, 8-mm OD, black, polyurethane (flow)	AR		
900742	AIR TUBING, 6/4 mm, blue, polyurethane (fluidizing)	AR		
900650	POWDER TUBING, 12.7 mm (0.5 in.), blue	AR		
900517	SPIRAL-CUT TUBING, polyurethane, 0.62-in. ID	AR		
939247	CLAMP, hose, snap-it	2		
939004	STRAP, cable, 0.06-1.75 in., natural	3		
301841	STRAP, Velcro, with buckle, 25 x 3 cm	2		
AR: As Required				

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