

HDLV[®] 55 Gallon Drum Dolly Transfer Pump Retrofit Grounding Kit



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

Description

The retrofit grounding kit for the HDLV® drum dolly transfer pump contains components to update:

- Lower Y-block
- · Pickup tube assembly
- · Antistatic and polyethylene tubing
- · Tubing fitting adapter

Installing Grounding Kit



WARNING: Shut off and relieve system air pressure before performing the following tasks. Failure to relieve air pressure may result in personal injury.

Remove Old Lower Y-Block

NOTE: Tag all air and powder tubing before disconnecting from the pump.

- See Figure 1. Disconnect the purge air lines from the top of the pump.
- 2. Disconnect the inlet (suction) and outlet (delivery) powder tubing from the bottom of the pump.

NOTE: Measure and mark down the length of the inlet and outlet tubing for reference in later procedures.

3. Remove the two screws (A) and the cover from the pump.

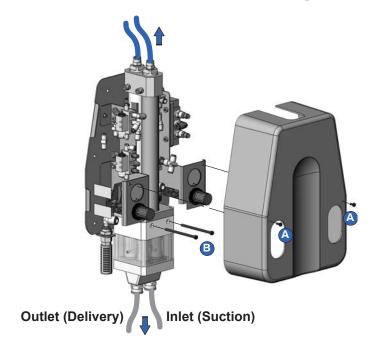


Figure 1 Removing the Pump Assembly

© 2021 Nordson Corporation 1620766-01

- 4. See Figure 2. Disconnect one end of each of the seven air tubes indicated.
- 5. See Figure 1. Remove the two screws (B) securing the pump assembly to the base. Remove the pump assembly to a clean work surface.

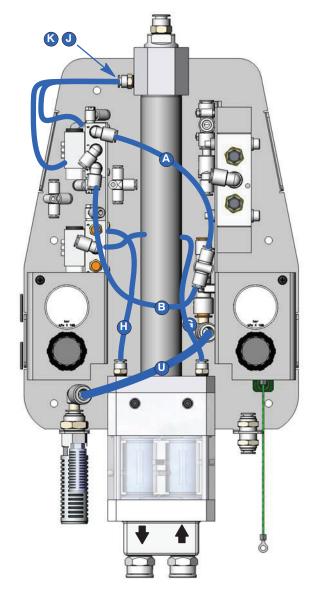


Figure 2 Disconnecting Air Tubing

6. See Figure Figure 3. Remove the four screws securing the lower Y-block to the pump.

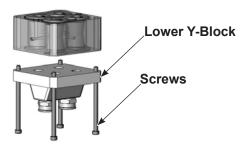


Figure 3 Remove Old Lower Y-Block

Install New Grounded Lower Y-Block

1. See Figure 4. Install grounded lower Y-block using four screws. Tighten screws two turns at a time to 7-10 in-lb using an alternating pattern.

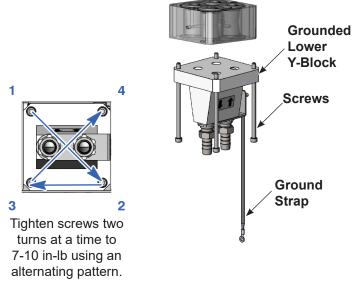


Figure 4 Install New Grounded Lower Y-Block

- 2. See Figure 1. Install pump assembly onto base and secure using two screws (B)
- 3. See Figure 2. Reconnect seven air tubes.
- 4. See Figure 4. Attach ground strap from lower Y block to pump back plate.
- 5. See Figure 1. Install the cover and the two screws (A) onto the pump.

1620766-01 © 2021 Nordson Corporation

Install Pickup Tube and Suction Antistatic Tubing

- 1. Remove the old pickup tube and tubing.
- 2. Use the inlet tubing (suction) measurement taken from the previous procedure to measure and cut new antistatic tubing to the same length as old.
- 3. Slide the spring guard over the antistatic hose so spring is about 12 in. from the end.

NOTE: In the next step, if the antistatic tubing is too stiff, dip the end of antistatic tubing into a hot cup of water for 5 seconds to soften tubing.

4. See Figure 5. Push the tubing onto the pickup tube barb all the way so the internal ground wire of antistatic tubing contacts the flange shoulder on the pickup tube.

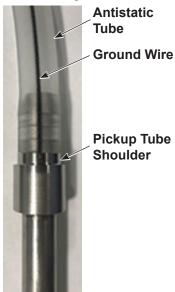


Figure 5 Install Antistatic Tube onto Pickup Tube

See Figure 6. Bring the spring guard down and rotate clockwise over the tubing onto the pickup tube to make contact with the pickup tube head. This creates both strain relief for the tubing and grounding for the spring.

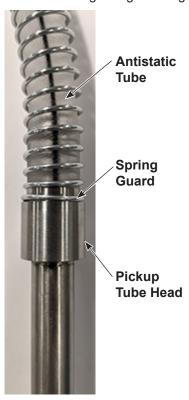


Figure 6 Assembly Pickup Tube with Spring Guard

© 2021 Nordson Corporation 1620766-01



CAUTION: For the next step, make sure the set screw is loose enough to allow the collar to slide easily over the pickup tube. If set screw is not loose enough, damage could occur to both collar and pickup tube.

See Figure 7. Loosen the set screw on the collar and slide collar up over pickup tube toward the pickup tube head. Leave about 2 in. of space between pickup tube head and collar and tighten set screw.



Figure 7 Install Collar

- 7. Install the pickup tube into the lid of the drum.
- 8. Connect the other end of the antistatic tubing to the right side barbed fitting (suction side) of the lower Y-block on the pump.

NOTE: Make sure the internal ground wire contacts the flange on the barbed fitting.

See Figure 8. Attach the ground wire with the clamp from the drum lid to the pipe of pickup tube above the collar.

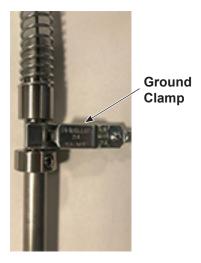


Figure 8 Install Ground Clamp

Connect Delivery Antistatic Tubing

- Use the outlet tubing (delivery) measurement taken from the previous procedure to measure and cut new antistatic tubing to the same length as old. Disgard old tubing.
- 2. Cut about 4-6 in. length of the new polyethylene tubing.
- 3. See Figure 9. Install tubing onto the fitting adapter.

NOTE: In the next step, if the antistatic tubing is too stiff, dip the end of antistatic tubing into a hot cup of water for 5 seconds to soften tubing.

- a. Connect the antistatic tubing to the 14.7 mm side of the adapter. Make sure the ground wire makes contact with the adapter flange.
- b. Connect the polyethylene tubing to the 12.7 mm side of the adapter.

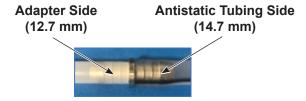


Figure 9 Fitting Adapter Installation

4. Connect the other end of the antistatic tubing to the left barbed fitting (delivery side) of the lower Y-block on the pump.

NOTE: Make sure the internal ground wire contacts the flange on the barbed fitting.

Connect the other end of the polyethylene tubing to bulk feed entry tube of the sieve cover or sieve accumulator.

1620766-01 © 2021 Nordson Corporation

Parts

Item	Part	Description	Quantity	Note
_	1620762	KIT, RETROFIT, DRUM, DOLLY, GROUND HDLV	1	
1		TUBE, PICKUP, DRUM, GROUND HDLV	1	Α
2		COLLAR, SHAFT, SET SCREW, 5/8 X 1-1/8, STAINLESS STEEL	1	А
3	1620095	FITTING, BARB, DOUBLE, 11MM X 1/2 IN, STAINLESS STEEL	1	
4	1610762	KIT, LOWER Y WITH BARB, HI CAP HDLV GEN II	1	
NS		SPRING GUARD, GALVANIZED STEEL, 0.75 IN ID X 12 IN L	1	Α
NS	768178	TUBING, POWDER, ANTISTATIC 12.7 MM (0.5 IN) ID	50 ft	
NS	1063654	TUBE, POLYETHYLENE, 16 MM OD	2 ft	

NOTE: A. Items included in kit 1620904.

NS: Not Shown

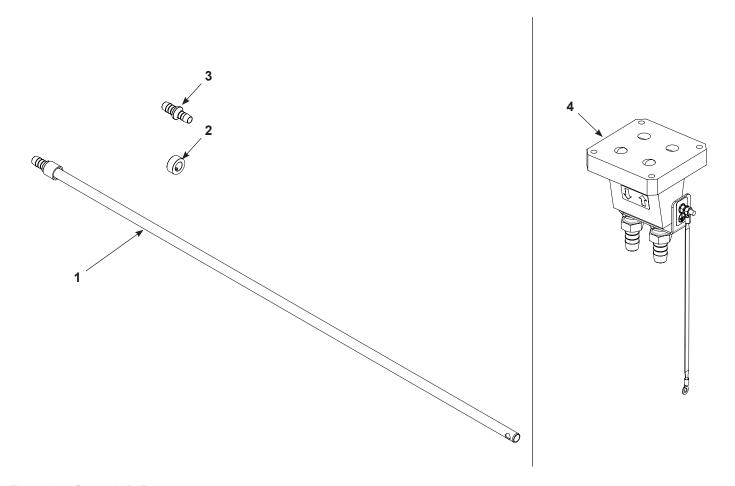


Figure 10 Ground Kit Parts

1620766-01 © 2021 Nordson Corporation