

Encore[®] HD Pump Upgrade Kit

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

Description

Use the Encore[®] HD Pump Upgrade Kit to improve pump performance in powder flow consistency with a wider range of powders.

See Figure 1 to see the items included in upgrade kit. Exploded view of pump provided for reference.

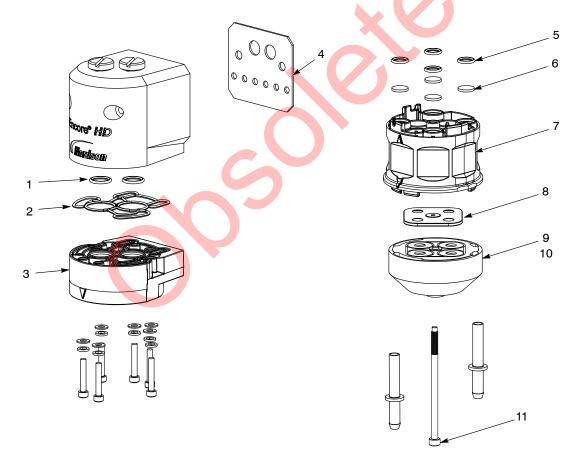


Figure 1 Items in Encore HD Pump Upgrade Kit

- 1. O-rings (0.437 x 0 .562 x 0.063)
- 2. Custom O-ring seal
- 3. Upper Y block
- 4. Pump manifold gasket
- 5. O-rings (0.375 x 0.500 x 0.063)
- 6. Filter discs
- 7. Pinch valve block
- 8. Gasket

- 9. Lower Y block
- 10. Pinch Valves (installed)
- 11. Shoulder screw

Pump Disassembly

NOTE: Any time the pump is disassembled, the Y block gasket (item 13 in Figure 4) must be replaced.



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

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

- 1. See Figure 2. For retrofit pumps, disconnect the purge air lines (1) from the top of the retrofit pump where applicable.
- 2. See Figure 3. Disconnect the inlet (2) and outlet powder tubing (3) from the bottom of the pump.
- 3. Remove the cabinet mounting hardware (4) securing the pump to the pump panel and move the pump to a clean work surface.
- 4. See Figure 4. Starting with the shoulder screw (15) and lower Y block (14), disassemble the pump as shown.
- 5. Discard the old items 6-15 from the pump.

NOTE: Retain screws and washers for the upper Y block for reassembly.

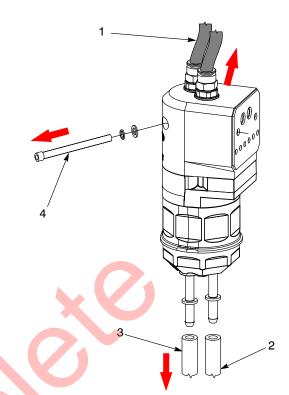


Figure 2 Retrofit Pump Disassemble Preparation

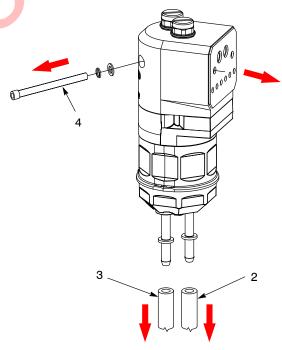
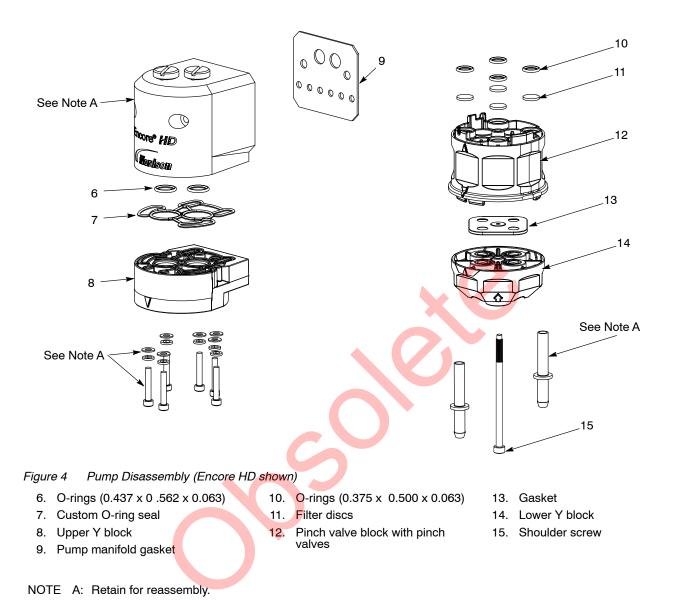


Figure 3 Standard Pump Disassemble Preparation



Pump Assembly with Upgrade Kit

 Place the new O-rings (1) and new custom O-ring (2) into the new upper Y block (3) as shown, then fasten the upper Y block to the purge manifold housing (4) with hardware (5).

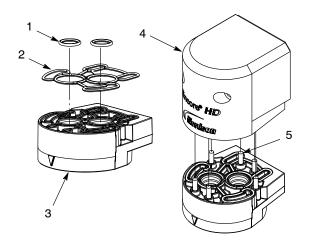
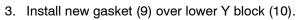


Figure 5 Assemble Upper Y Block to Purge Manifold

2. Install new filter discs (6), and new O-rings (7) into pinch valve block (8).

NOTE: Pinch valves come preinstalled in the new pinch valve block.

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4. Thread the new shoulder screw (11) through the lower Y block (10), pinch valve housing (8), and into the upper Y block (3). Tighten the shoulder screw (11) until shoulder bottoms out and cannot be turned anymore.

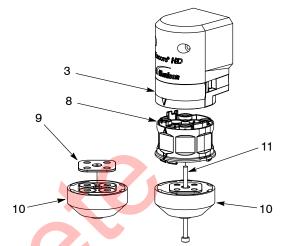


Figure 7 Assemble Gasket and Lower Y Block

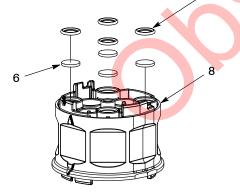


Figure 6 Install Filter Gaskets and O-rings

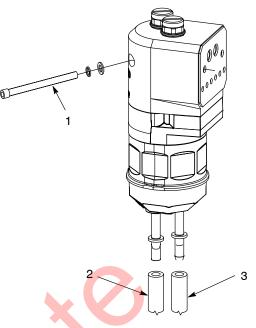
Replacing Pump Gasket

- 1. See Figure 8. Remove old pump gasket from the pump.
- 2. Using an industrial citrus based adhesive remover and plastic scraper, remove any residual adhesive left from old gasket from the pump. Clean any debris from port holes.
- 3. Remove the sticker backing from the new gasket and place on the pump, aligning the holes of the gasket with the port holes on the pump.



Figure 8

CAUTION: Ensure gasket is not covering any of the port holes on pump.



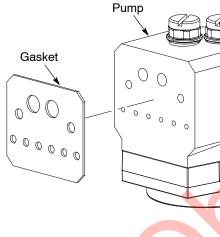
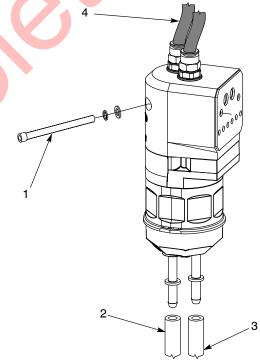


Figure 9 Standard Pump Mounting and Connections



1. See Figure 9 for standard pump and Figure 10 for retrofit pump. Use the mounting hardware

- to (1) secure the pump to the pump panel.
- 2. Connect the inlet (3) and outlet powder tubing (2) from the bottom of the pump.

Replacing Pump Gasket

Mount and Connect Pump

3. See Figure 10. For retrofit pumps, connect the purge air lines (4) from the top of the retrofit pump where applicable.

Figure 10 Retrofit Pump Mounting and Connections

Pump Verification

Complete the following tests to verify pump is ready for operation.

- 1. Check for a good ground connection between the pump manifold and the shoulder screw on bottom of pump. Resistance should be less than 500 Ω .
- 2. Perform a vacuum check. Refer to *Troubleshooting* section of the *Encore HD Pump* manual for procedure.

Parts

See Figure 11 and the following parts list.

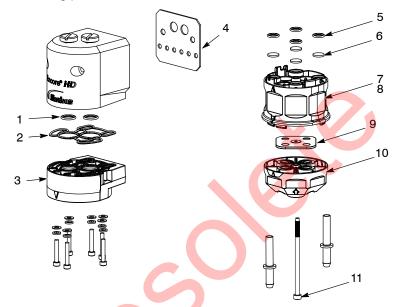


Figure 11 Parts for Upgrade Kit (Exploded View of Pump Shown for Reference)

ltem	Part	Description	Quantity	Note
_	1619690	KIT, upgrade, Encore HD pump	1	
1	940137	 O-RING, silicone, 0.437 x 0.562 x 0.063 	2	
2	1604072	SEAL, upper Y block, conductive, Encore HD	1	
3	1604059	BLOCK, upper Y, pump, Encore HD	1	
4	1612795	GASKET, manifold	1	
5	940126	• O-RING, silicone, 0.375 x 0.500 x 0.063	4	
6	1604071	DISC, filter, pump, Encore HD	4	
7	1604060	BLOCK, pinch chamber, pump, Encore HD	1	
8	1604061	VALVE, pinch, pump, Encore HD	4	А
9	1608603	GASKET, conductive, Encore lower Y block	1	
10	1611092	 BLOCK, lower Y assembly, pump, Encore HD Tivar[®] 	1	
11	1619013	SCREW, socket M5, shoulder, stainless steel	1	
NOTE A: Pi	nch valves com	e assembled in the pinch valve block.	•	

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