



<New Prep Filters>

Installation of new prep filters

Revised 07/01/2013

whoekh@retailinkjet.com to suggest improvement

Objective: New prep Filters are being used. The new filters should last the life of the machine. Please follow the directions closely and contact RIS support if questions or concerns arise.

RIS technical support 1-858-779-9148 option 3

Please read all instructions prior to starting work.

Prep Station A & B Kit

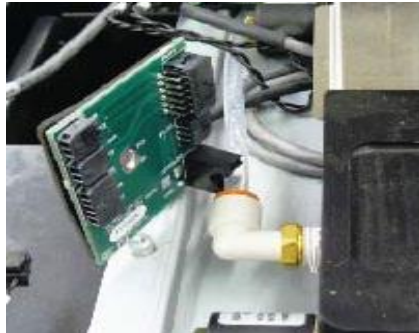
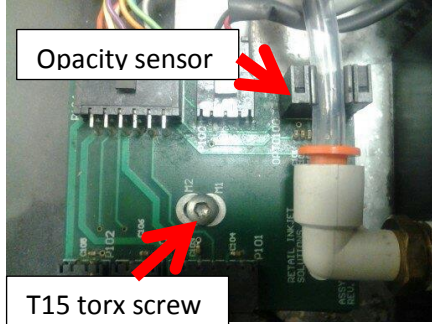
Part Number: 320553-00

Contents:

- 2 prep filter assemblies
- 2 sections of tubing (one short 10" and one long 17")
- Tubing Cutter

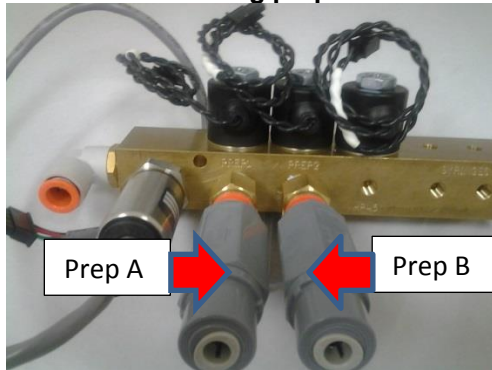
STEP	DISCUSSION	ACTION – DO THIS
1	Remove the Upper Hood	<ul style="list-style-type: none"> • The upper hood is secured to the machine with seven (7) fasteners. • Using a 3/16" Allen tool or Phillips Screwdriver, remove the seven fasteners securing the upper hood to the machine. • Two fasteners are located on each side of the machine and three fasteners are located across the top of the machine. • Carefully slide the hood back and up to remove.
2	Remove Work Surface	<ul style="list-style-type: none"> • Clear any loose items from the top of the work surface. • Remove the tester cover by pulling forward and set it aside. • Raise the vacuum chamber door by pulling forward and up on the handle until it locks into the open (top) position. • Open the left upper drawer (labeled REFILL ADAPTERS) to gain access to the underside of the work surface and remove the thumb screw fastener. • Open the right upper drawer (labeled TEST ADAPTERS) to gain access to the underside of the work surface and remove the thumb screw fasteners • Grasp the sides of the work surface and pull towards you to slide it off the machine.
3	Remove Drill Facia	<ul style="list-style-type: none"> • Check to be sure the drill station is disabled by pulling down on the drill handle. If the drill motor rotates, disable it by logging off of the machine • Remove the shrouded drill bit assembly by pressing up on the quick release collar. • Remove the grip knob from the end of the drill handle by unscrewing it. • Using a T20 torx driver, remove the fastener on the left side of the fascia that secures it to the system. • Slide the fascia up to release the mounting hooks and pull the fascia forward to remove it.

Remove old vacuum tubing from prep station



- Remove the T15 torx screw that secures the fluid sense board
- Rotate board 90 degrees and gently remove the board from the tubing to release it from the opacity sensor.
- **NOTE**, be careful not to break the opacity sensor when working in this area.
- Press in on the orange coupler and remove tubing from left side of prep station.
- Repeat for other prep station
- Save this tubing in case it is needed later.
- Clean up any liquid that may have come out to the tubing.

Remove the existing prep filters

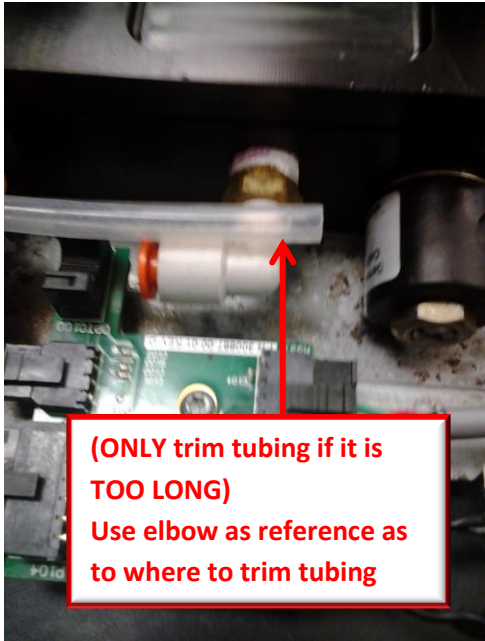
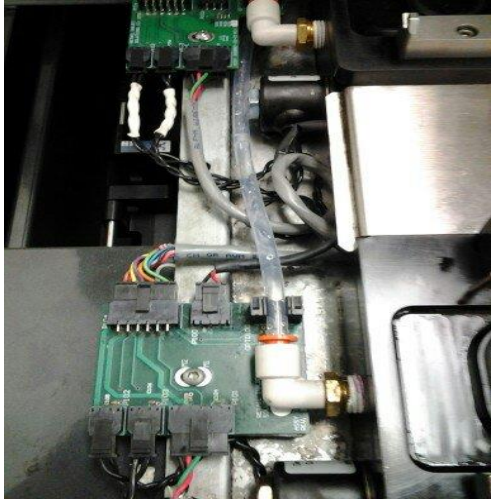


- On the waste manifold there are 2 gray inline filters.
- Press in on the compression fitting and remove the filters
- Remove and discard the old tubing and prep filters.
- Please note Prep A connects to the leftmost port on the waste manifold
- Prep B is to the right of Prep A (there are markings on the waste manifold that indicate which port is for prep 1 or A and Prep 2 or B)
- Clean up any liquid that may have come out to the tubing

Install New Filters



- Install new filters onto waste manifold.
- The new filters are universal and can go on either prep station port.

<p>7</p>	<p>This tubing is too long and needs to be trimmed. Use the elbow as a reference.</p> 	<ul style="list-style-type: none"> • There are 2 sections of tubing that comes with the kit. The tubing is cut to size but <u>might need to be trimmed</u>. NOTE: Please be careful not to kink the new tubing during installation. • The longer section of tubing connects from the new filter on the right to prep station B (closest to front of machine) • The shorter section of tubing connects from the new filter on the left to prep station A (closest to the back of the machine) • Ensure the tubing is properly routed and there are <u>no kinks</u> (see image on left) <ul style="list-style-type: none"> ○ Route the tubing from the back of the machine to the prep station. ○ Make the connection at the prep filter first, then at the prep station ○ If the tubing is too long, measure and trim it. ○ IF you trim too much off, you will have to use the old tubing and cut it to size. It is better for it to be a little long than too short. Too short will cause vacuum leaks. ○ The tubing from prep B should go over the cables and under the Prep A fluid sense board
<p>8</p>	<p>Proper routing of tubing.</p> 	<ul style="list-style-type: none"> • Make sure tubing is properly seated in the opacity sensor. • Reinstall Fluid sense boards
<p>9</p>	<p>Test for proper operation</p>	<ul style="list-style-type: none"> • After the filters are installed, run the prep flow test from tech pane. • Perform a Prep Delta Test (Value should be 7 -10 in/hg) • Perform a Total Service Call and process some cartridges

Technical References

Prep Flow Test

- In the lower right of tech pane, select the “TEST” button to display some automatic test for you to run.
- Prep Flow A and B test will turn on vacuum, then fluid, and then remove the fluid in the prep station. If fluid is not vacuumed away clean vacuum port holes and verify all tubing is properly connected.

Prep Station Delta

- Navigate to Tech Pane and make sure all valves are closed.
- Turn on Vacuum pump and check Separator level is near 15.5 in/Hg. Adjust with regulator as needed.
- Open the vacuum valve on the prep station and note the drop in pressure. The difference in pressure is the Delta (Delta value should be 7 -10 in/hg)
- Close the vacuum valve on the prep station
- Repeat for other prep station

TSC (Total Service Call)

1. Resolve primary issue (reason you are there) and check with lab personnel for any additional items.
2. Test the vacuum wand, flush with water if necessary.
3. Verify ALL ink lines are primed.
4. Run Syringe Leak Test and resolve any leaks.
5. Check injectors for clogs by removing and flushing with water.
6. Perform prep fluid flow check, clean holes in prep station thoroughly with a large paperclip.
7. Open all four ink drawers and inspect for leaks. Also look for ink bottles that appear to be “sucked in” due to a clogged vent. Clean any clogs with a paperclip if necessary.
8. In the Tech Pane check the following
 - a. Separator vacuum level (should be approx. 15.5 in/hg) adjust with regulator as needed.
 - b. Decay rate (approx. 0.1-0.2 in/hg/sec)
9. Vacuum Chamber
 - a. Check the fill chamber door for cracks and that the door seal is in position with the screws set normally
 - b. Perform vacuum chamber leak check (vacuum reaches at least 25.5 in/hg and holds maximum vacuum with no leaks.
10. Remove all covers including the tabletop and check for leaks. Clean as needed to restore the machine to original state.
11. Check drill bit and verify that the shield extends fully.
12. Check tester interconnect board to verify no bent, missing or sticky pins.
13. Verify all system fans are running.
14. Blow or wipe off dust and wipe down machine.
15. Drain the waste.
16. Run several cartridges through ALL processes to check functionality before leaving site.