

Print Head Doctor 4

Flushing Instructions

It is very important to flush your Print Head Doctor machine after use and when changing the recovery fluids. Failure to follow these instructions will result in a machine malfunction, and termination of the warranty on any parts that were in contact with fluids.

Changing Fluids Between Recovery Cycles

The main idea is to remove the flushing fluids from the machine as much as possible, before using another fluid. Some fluid gets trapped in the internal parts of the machine: tubing, solenoids, relief valve and filters. You won't need to flush the machine after using the recovery fluid 1X. If you are using "W" recovery fluids, use a distilled water instead of fluid 1X referenced below.

- Drain the fluid back into the bottle using DR cycle with the Relief Valve fully closed. The tank should be empty. Allow the DR cycle to keep running for half a minute after all the fluid has been sucked out of the tank. You will need to tilt the machine a little, to allow the intake tube to suck in the rest of the fluid.
- Open the Relief Valve by turning it counterclockwise one turn.
- Run the DR cycle for 5 seconds and stop it.
- Execute the AR cycle for 10 seconds. The air will push the fluid out of the machine.
- Some fluid will get into the tank. Wipe it off with a cloth, so that the tank remained dry.
- Place the output tubes (from ports A) into the tank.
- Run the Reverse Flushing cycle R1 for 10 seconds.
- Run AR cycle for 5 seconds.
- Wipe the tank dry.
- Add approximately 100 ml of recovery fluid 1X into the tank.
- Run the R1 cycle for 10 seconds. The tubes connected to ports A should be able to suck the fluid in.
- Connect one of the tubes on port A to the port B. The other port A tube should be in the tank.
- Run C1 (Combined) cycle for 10 seconds.
- Place both port A tubes into a waste bottle.
- Close the Relief Valve.
- Start the DR cycle and let it run for 30 seconds.
- You may need to tilt the machine a little to allow the tubes to suck in the 1X fluid completely.
- Open the Relief Valve.
- Run AR cycle for 10 seconds.
- Wipe the tank dry.

- Now the machine is ready for the new fluid. Pour it into the tank.
- Close the Relief Valve.
- With the waste bottle still connected to the output, run the DR cycle until you see the fluid running into the waste bottle.
- Let it run for 5 seconds and stop the cycle.
- Now the machine is ready.

Flushing the Machine After Use

Do not leave the machine with fluids inside for an extended period of time (e.g. overnight). Always flush it thoroughly by executing the following steps. The only fluid safe to leave inside the machine is 1X or 1DX.

- Drain the fluid back into the bottle using DR cycle with the Relief Valve fully closed. The tank should be empty. Allow the DR cycle to keep running for half a minute after all the fluid has been sucked out of the tank. You will need to tilt the machine a little, to allow the intake tube to suck in the rest of the fluid.
- Open the Relief Valve by turning it counterclockwise one turn.
- Run the DR cycle for 5 seconds and stop it.
- Execute the AR cycle for 10 seconds. The air will push the fluid out of the machine.
- Place the output tubing on ports A into the tank.
- Run R1 cycle for 10 seconds.
- Run AR cycle for 5 seconds.
- Some fluid will get into the tank. Wipe it off with a cloth, so that the tank remained dry.
- Add 500 ml of recovery fluid 1X into the tank.
- Run R1 cycle for 10 seconds, making sure that the fluid is getting picked up by the tubing on ports A.
- Connect one of the tubes on port A to the port B. The other port A tube should be in the tank.
- Run C1 (Combined) cycle for 10 seconds.
- Place both port A tubes into a waste bottle.
- Place the output tubing into a waste bottle.
- Close the Relief Valve.
- Start the DR cycle and let it run for 10 seconds.
- You may need to tilt the machine a little to allow the tubes to suck in the 1X fluid completely.
- Open the Relief Valve.
- Place the output tube into the ultrasonic tank and secure it, to make sure it stays in the tank.
- Run the DR cycle for 3 minutes.
- Close the Relief Valve.
- Place the output tube of the machine into the source bottle of fluid 1X.
- Run the DR cycle until the tank is empty.
- Open the relief valve.
- Run AR cycle for 10 seconds.
- Run R1 cycle for 10 seconds.
- Run AR cycle for 5 seconds.
- Wipe the tank dry.
- Disconnect the output tube and cap the output ports.
- Now the machine is ready for storage.