

08799

Fluid System Clean Out Procedure For ZPrinter 310 And 310 Plus (DESIGNmate Mx)

Rev A

Description:

Binder may get contaminated due to bacteria or fungus growth; this issue can be remedied by sanitizing the fluid system and then using fresh binder. This procedure outlines a decontamination process for the Z310 Plus (DESIGNmate Mx).

Potential binder contamination may be detected in a few ways:

1. Repeated early print head mortality.
2. Visible residue in binder bottles or fluid lines. Be particularly alert for anything of a different color than the binder.

Prerequisites:

ZCorp trained technician

Equipment / Parts Required:

Two Gallons (8 liters) of Distilled Water, divided for use
¾ cup (200 ml) of Household Bleach (4-6% sodium hypochlorite)
20ml Syringe (found in the toolbox, P/N 10674)
16-Gauge Black Needle (found in the toolbox, P/N 13115) or tube with fittings in newer toolkits (06775) See picture at end of procedure.
1 HP10 print head (for replacing in the Printer)

Procedure:

PLEASE NOTE: This procedure will take one-two hours. You will flush the system with a solution of diluted bleach to disinfect it, and then flush with distilled water to rinse. Read through the entire procedure before beginning. If you have questions, please contact your service representative or the Z Corporation Service Department.



WARNING: Use gloves and safety glasses when handling concentrated bleach. Do not pump concentrated bleach through the printer. Do not leave bleach solution in the printer for more than 1½ hours. Always flush with distilled water after bleaching.

1. Mix ¾ cup (200 ml) of bleach into 1 gallon (4 liters) of distilled water. This will give you a 5% solution. **Warning: Use of gloves & safety glasses are recommended when handling concentrated bleach.** Mix bleach solution on the same day as use. Specialty bleaches with peroxide, or scented bleaches, or the new "splashless gel" types, are not good disinfectants. Quantities need to be adjusted if you use an extra-strength bleach available in some areas.
2. Remove and dispose of existing contaminated binder. Any binder running through a contaminated system should be disposed of to prevent further contamination. Dispose of binder according to company or local regulations. If you are saving a sample for analysis, save at least 100mL in a bottle with a good screw cap.
3. Rinse the binder containers with distilled water; make sure there is no evident binder residue in the containers.

4. Fill the binder container half full with the bleach solution. Replace the bottle cap and circulate the solution thoroughly inside the bottle. Put the binder bottles back in place on the printer.
5. Empty the waste container, rinse it out, and replace it in the printer
6. If print head is still present, choose **Change Print Head** from the **Service** menu, remove the print head.
7. Assemble the 16-gauge black needle into the syringe and remove the plunger.
8. Place the needle into the septum. Allow the gravity feed of the printer to fill the entire syringe (about 20 ml). Do this *two times* to make sure the line is clear. Be careful to keep fluids from dripping on the Pogo card or any other area. Use paper towels to protect the Pogo card. **Note** - you may also use the 3/32 tube with fittings (part # 06775) to draw out the two syringes of fluid.
9. Let the bleach solution sit in the fluids system for at least 5 minutes but not more than 1½ hours. *Do not let the bleach sit in the machine overnight!*
10. Empty the remaining bleach solution out of the binder container and the waste container.
11. Fill the binder container half full with distilled water. Replace the bottle cap and circulate the water thoroughly inside the bottle.
12. With the binder bottle back in place, repeat step 8 to fill all fluid lines with water.
13. Let the distilled water sit in the system for at least 15 minutes.
14. Remove distilled water from binder bottle and replace with fresh binder. Dispose of waste fluid.
15. Repeat step 8 to fill fluid line with fresh binder. Install *a new print head*, close the cover, and press on-line. Press **Done** at the Change Print Head menu on the screen. Press **Start** to begin a Print Head Purge.
16. Resume Printing

Part # 06775 (3/32 hose with fittings). Included in recent toolkits.



For additional assistance or if the problem recurs within 90 days, please contact the Service Department at (781)852-5050 or via email at service@zcorp.com.

Change History

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