

Z310 Fast Axis Replacement Procedure

Rev C

Description:

Documents how to remove the Z310 Fast Axis Assembly

Prerequisites:

- None.

Equipment / Parts Required:

- A set of Allen wrenches.

Procedure:

1. Turn off power and unplug the ZPrinter® 3D Printer.
2. Slide gantry to middle of print area and remove cable enclosure cover. (Pictures 1-2)



Picture 1

Cable
Enclosure
Cover



Picture 2

3. Disconnect the power cable and ribbon cable. Twist to disconnect fluid supply tubing. (Pictures 3-5)



Picture 3

Ribbon
cable

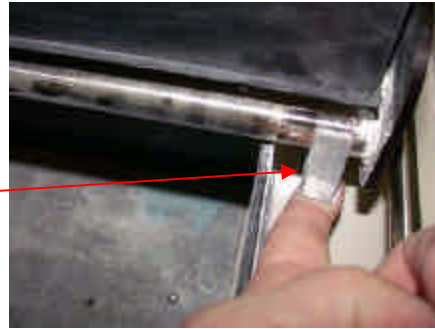
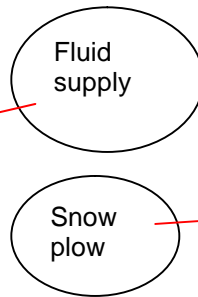
Power
cable



Picture 4



Picture 5



Picture 6

4. Remove the snowplows from both sides of the printer module. Slide the snowplow away from the edge of the build box until it disengages from the retaining tab. Press on the top edge of the snowplow until it pops off of the spreader roller. (Pictures 6-8)



Picture 7



Picture 8

5. Using the Allen wrench, remove the two printer module mounting screws. Be sure to support the printer module by hand when removing the second mounting screw. Pivot the front of the printer module up while lifting from the rear and remove. (Pictures 9-12)



Picture 9



Picture 10



Picture 11



Picture 12

Z310 Fast Axis Module Replacement

To reinsert the fast axis assembly, go backwards through the steps.

1. Reinsert the fast axis into the ZPrinter[®] 3D Printer. (Pictures 13-14)



Picture 13



Picture 14

2. Using the Allen wrench, reinsert the mounting screws. (Pictures 15-16)

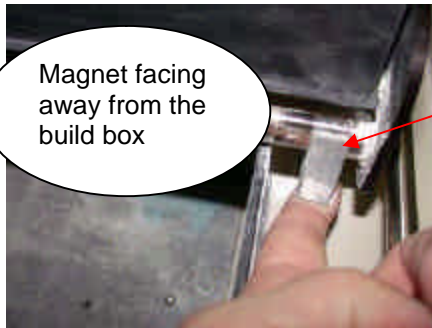


Picture 15

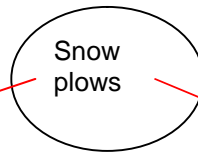


Picture 16

3. Reinsert the snowplows. Be sure that the magnet is facing away from the build box. (Pictures 17-18). Be sure to push the snowplows into the slots.



Picture 17

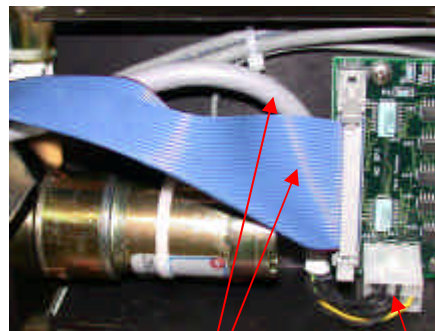
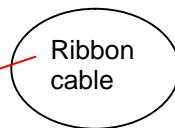


Picture 18

4. Reinsert the ribbon cable, power cable, and fluids connector. (Pictures 19-21) Note in Picture 20 that the gray cable goes behind the blue ribbon cable.



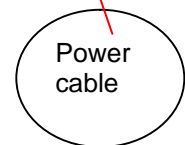
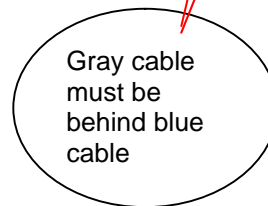
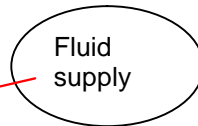
Picture 19



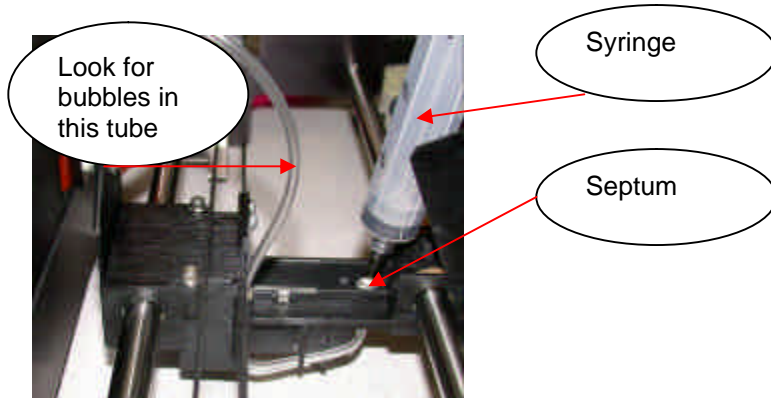
Picture 20



Picture 21



5. Using the syringe provided in the user tool kit, place the needle into the septum and slowly draw binder through the system, until no bubbles are present in the binder tube. (Picture 22)



Picture 22

6. Reinsert a new print head.
7. Purge the print head.

Change History

Rev B ECN 1388 BWH 11/5/04

Rev C ECN 1410 BWH 12/14/04

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