

08740

Spectrum Z510 Fast Axis Module Install

Rev A

Description:

Procedure to remove and replace a Spectrum Z510 Fast Axis Module (Z Corp p/n 06420).

Prerequisites:

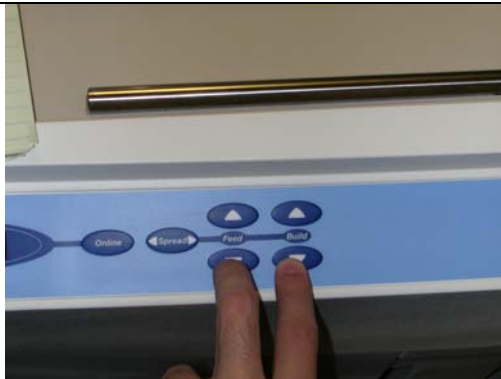
- To prepare for the removal of the of the Fast Axis Module, begin by vacuuming off the deck, build and feed pistons to avoid dragging any portion of the Fast Axis module through powder.
- Unpack the new module (save the packaging for shipment back to Z Corporation)

Equipment / Parts Required:

- 3/16" Hex Allen Wrench (part of 06525 User Tool Kit)
- Phillips screw driver (part of 06525 User Tool Kit)
- Paper towels
- Vacuum cleaner

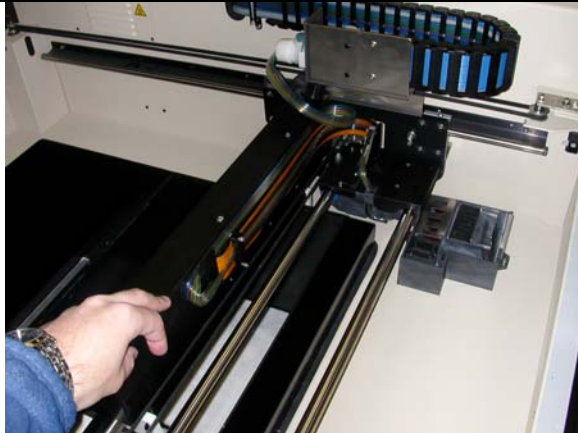
Procedure:

1 – Lower both pistons – this will provide you with more access to the module as you're removing it from the printer.



2 – **BEFORE PROCEEDING:** Turn off the machine power and disconnect the power cable from the rear of the machine.

3 – Carefully slide the Fast Axis module so it is sitting over the build piston.

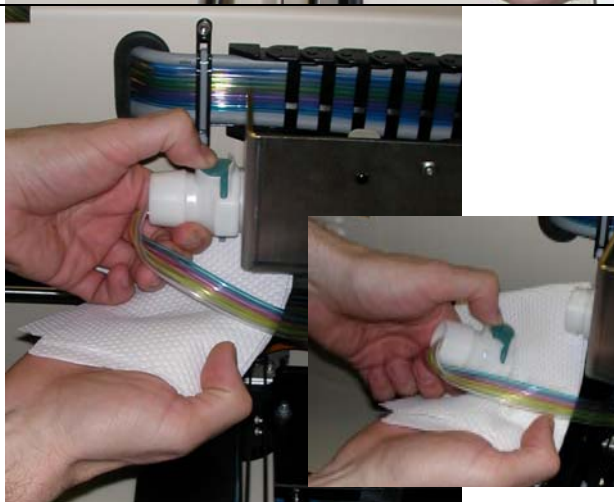


4 – Remove the snowplows (both front and back)

- Slide away from the piston boxes.
- Then, push down on both ends. The snowplow will snap off the roller.
- Put aside.

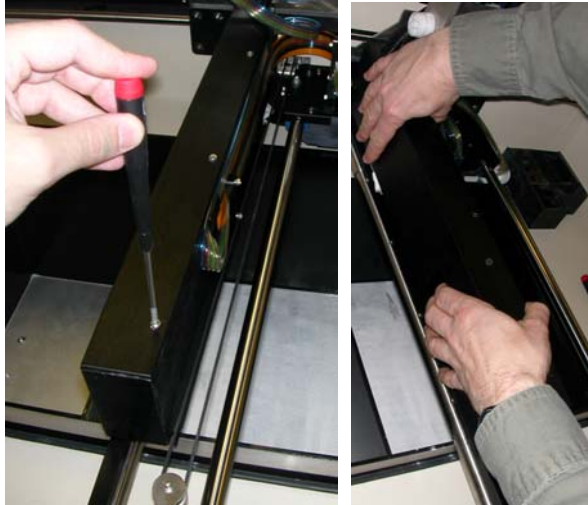


5 – Disconnect the fluid connector at the rear of the Fast Axis by pushing the thumb latch and pulling straight off. **The connector may drip slightly – holding a paper towel underneath will collect any drips which may form.**



6 – Remove the Head Card Cover

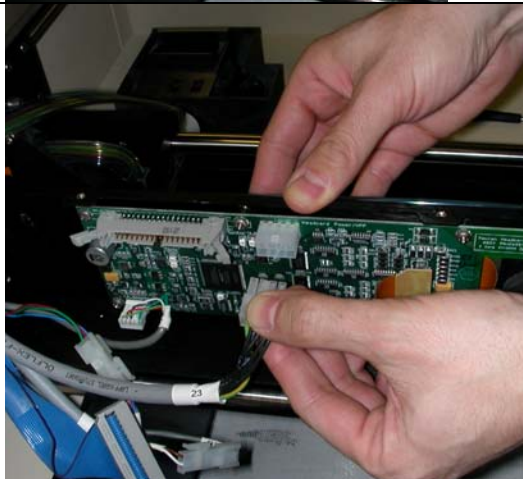
- Remove the 3 Phillips head screws on the Head Card Cover – set aside.
- Rotate the cover counter-clockwise and pull up to disengage – set aside.



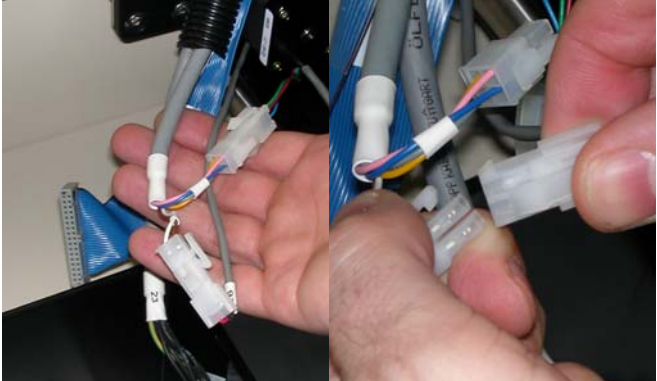
7 – Disconnect the blue ribbon cable by pushing the two grey clips outward and pulling the cable straight out of its connector



8 – Disconnect the power cable from the head card by depressing the latch on top and pulling straight out of its connector



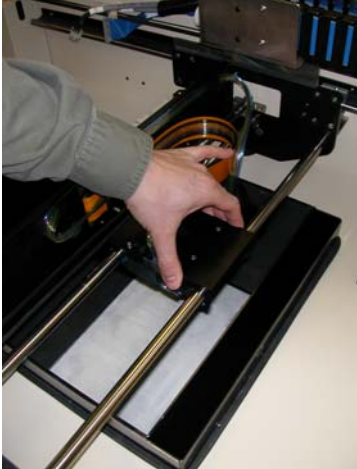
9 – Disconnect the two motor connectors by depressing the latches and pulling apart while firmly holding both sides



10 – Tuck the bundle of cables out of the way behind the belt running across the back of the printer



11 – Move the carriage to the middle of its travel – this will help prevent it from being damaged when removing the Fast Axis.



12 – Using a 3/16" Hex Allen wrench, remove the two screws shown here at the rear of the Fast Axis Module – set screws aside



13 – Grasping the Fast Axis Module from underneath the spread roller, push back slightly on the Slow Axis Plate while lifting up the Fast Axis. Once the front of the Fast Axis has cleared the front edge of the deck, pull the module towards you and off the printer.



14 – **IF SHIPPING BACK TO Z CORPORATION:** Attach the Head Card cover and place the Fast Axis Module (including the snowplows) in the same packaging the new one was shipped in.

INSTALLING A NEW FAST AXIS ASSEMBLY

The replacement of a fast axis assembly is simply the reverse of the removal. Some notes to pay attention to:

- Make sure the carriage is near the middle of the fast axis when you install it
- Don't forget to connect **ALL** of the cables and fluid connector securely
- Don't forget to tighten the screws holding the Fast Axis Assy to the machine
- Don't forget to install the snowplows
- Upon booting up with the new Fast Axis you should:
 - Rezero without error (this will happen automatically during boot up)
 - Toggle the roller on and off (from ZPrint), you should be able to hear it – if not the cable may be disconnected
 - Purge the air out of the fluid lines using the syringe – watch for the air bubbles to stop – empty any fluid you remove into the waste.
 - Insert heads and run an auto-alignment

Change History

Rev A ECN 1460 Released - BDS February 8, 2005

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08741

Spectrum Z510 Service Station Module Install

Rev A

Description:

Procedure to remove and replace a Spectrum Z510 Service Station Module (Z Corp p/n 06521).

Prerequisites:

- To prepare for the removal of the Service Station Module, begin by vacuuming off the deck.
- Remove the Service Station module from it's packaging (save packaging for shipping back old module)

Equipment / Parts Required:

- 1/8" Hex Allen Wrench (part of 06525 User Tool Kit)
- Paper towels
- Vacuum cleaner

Procedure:

1 – Clean service station

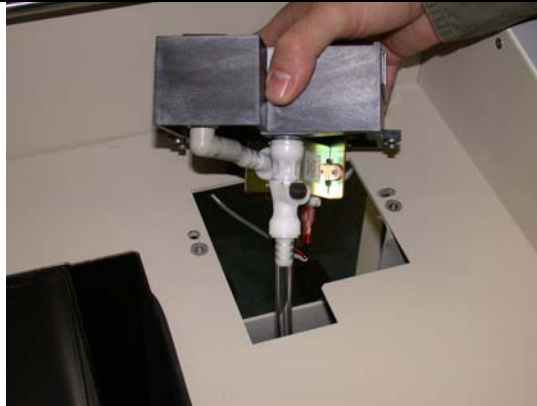
- Remove the Spittoon Cover and wipe clean with a paper towel
- Using dry paper towels, soak up any fluid which may be in the spittoon and in the Service Station.



2 – Using the 1/8" Hex Allen wrench, remove the three screws holding the Service Station to the deck.



3 – Lift the Service Station Assembly up and out of the space – there will be two tubes and a cable preventing you from pulling it up too far.



4 – Disconnect the two tubes (by depressing the thumb latches and pulling apart the connectors). One is located as shown in the picture and the other is mounted to the sheet metal just below the opening (you'll have to reach down inside the hole in the deck to reach this)



5 – Disconnect the cable and remove the Service Station – the cable will have a white connector with a thumb latch hanging just a few inches away from the pump.

6 – **IF SHIPPING BACK TO Z CORPORATION:** Make sure the Service Station is empty of fluid and place in the same packaging the new one was shipped in.

INSTALLING A NEW SERVICE STATION ASSEMBLY

The replacement of a Service Station Assembly is simply the reverse of the removal. Some notes to pay attention to:

- Connect the motor cable

- Connect the tubing (the two tube connectors are different, preventing you from connecting the wrong ones together)
- Tighten to the deck using all three screws
- Upon booting up with the new Service Station you should:
 - Make sure there is wash fluid in the wash bottle.
 - Run “Prime Wash Pump” in the Service menu of ZPrint – this requires print heads in the carriage and will ask you to put one if it does not detect one

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Spectrum Z510 E Box Module Install

Rev A

Description:

Procedure to replace a Spectrum Z510 E Box Module (Z Corp p/n 06435).

Prerequisites:

- Remove the E Box from it's packaging (save packaging for shipping E Box back to Z Corporation)

Equipment / Parts Required:

- Phillips screw driver (part of 06525 User Tool Kit)



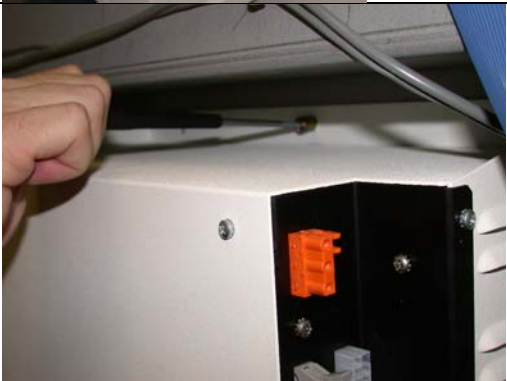
Procedure:

To prepare for the removal of the E Box – **TURN THE MACHINE POWER OFF AND UNPLUG THE POWER CORD**

1 – Remove the 5 screws holding the back cover on



2 – Lift the back cover up and back – away from the machine – there are two hooks towards the bottom of the panel which must disengage

<p>3 – Disconnect all of the cables attached at the bottom of the E Box (this should only be a network cable)</p>	
<p>4 – Disconnect all of the cables connected at the right side of the E Box.</p>	
<p>5 – Unscrew the captive fastener at the middle top of the E Box. This fastener will pop out slightly and be free to rotate in both directions when it's fully disengaged</p>	
<p>6 – Lift the E Box straight up and towards you. There are four, small key holes which must match up between the E Box and the printer when re-installing</p>	

INSTALLING A NEW E BOX ASSEMBLY

The replacement of an E Box Assembly is simply the reverse of the removal. Some notes to pay attention to:

- Make sure the four key holes are all engaged – this is the case if the E Box feels securely attached to the printer – even before the fastener is screwed tight
- Attach all of the cables to the side of the E Box – all of the connectors on the side of the E Box should have a cable attached.
- Attach the network cable to the base of the E Box
- Attach the power cord and power up the printer.

- Verify that the printer booted correctly
 - The machine will first try to re-zero the pistons – the pistons will move to the bottom of travel and make a grinding noise when they reach it. It is okay and should last about 30sec. Each piston will perform this operation once.
 - After the pistons move and the Fast and Slow axis have performed their standard re-zero operation, the display should say “ONLINE” and the printer should be ready to run.

Change History

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