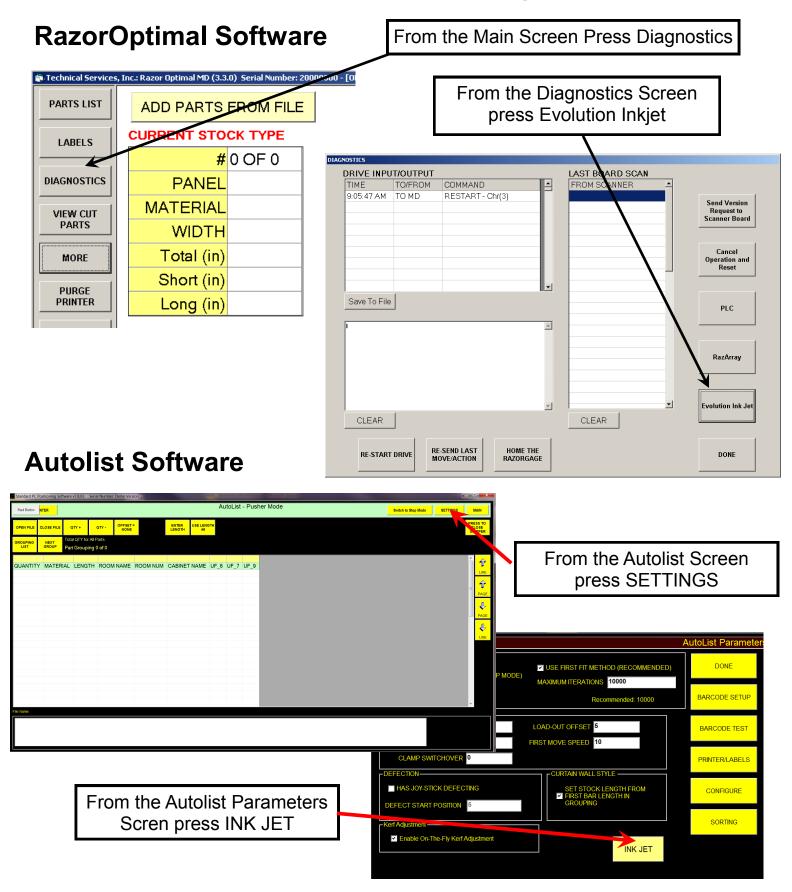
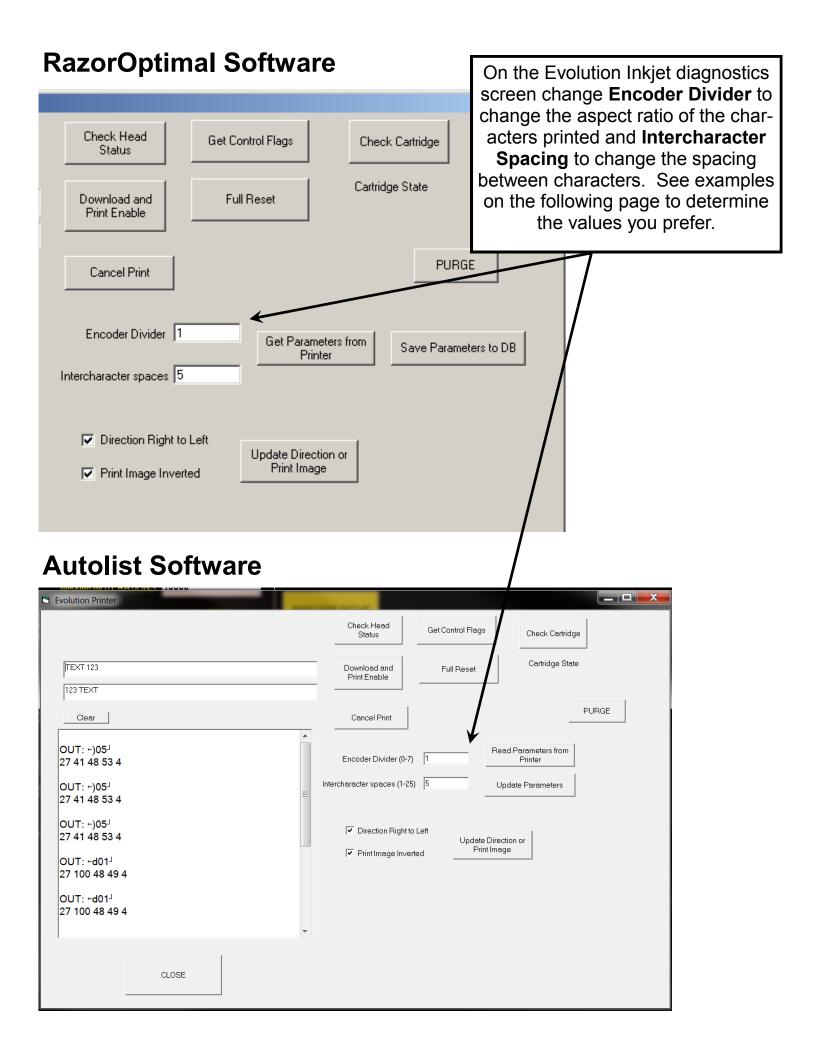


## RazorGage Inkjet Printer Changing the Character Aspect Ratio & Spacing





3/4 MAPLE SOLID RATIO 7-20 3/4 MAPLE SOLID BOTTOM RAIL 6 RATIO 5-1 其關係的動物的種類有 STD H 3/4 MAPLE SOLID BOTTOM RAIL 3/4 MAPLE SOLID BOTTOM RAIL 6 RATIO 2-2 34 MAPLE SOLID BOTTOM RAIL 6 RATIO 2-5 3/4 MAPLE SOLID BOTTOM RAIL 6 RATIO 3-10

### **RazorOptimal Software**

## After you set the values perform the following steps in order:

## **Click Save Parameters to DB**

## **Click Download and Print Enable**

🖹 Evolution Printer	
	Check Head Status Get Control Flags Check Cartridge
TEXT 123	Download and Print Enable
Clear	Cancel Print PURG:
	Encoder Divider 1 Get Parameters from Printer Save Parameters to DB
	<ul> <li>Direction Right to Left</li> <li>Update Direction or</li> <li>Print Image Inverted</li> </ul>
CLOSE	

Click Close, then close the Main Diagnostics Screen, then RESTART the RazorOptimal Software. Then the settings will take effect.

### **Autolist Software**

# After you set the values perform the following steps in order:

## **Click UPDATE PARAMETERS**

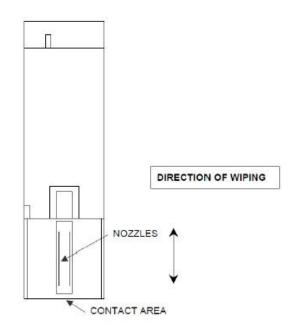
## **Click Download and Print Enable**

Evolution Printer	
	Check Head Status Get Control Flags Check Cartridge
TEXT 123	Download and Print Enable Full Reset Cartridge State
Clear	Cancel Print PURGE
OUT: ←)05 <sup>J</sup> 27 41 48 53 4	Encoder Divider (0-7) 1 Read Parameters from Printer
OUT: ←)05 <sup>J</sup> 27 41 48 53 4	Intercharacter spaces (1-25) 5 Update Parameters
OUT: ←)05 <sup>J</sup> 27 41 48 53 4	Direction Right to Left     Update Direction or     Print Image
OUT: ←d01 <sup>J</sup> 27 100 48 49 4	Print Image Inverted     Print Image
OUT: ←d01 <sup>J</sup> 27 100 48 49 4	
·	
CLOSE	

Click Close, then close the Autolist Parameters Screen by clicking DONE, then close the Autolist Screen and close the RazorGage Software. RESTART the RazorGage Software and the settings will take effect. Maintaining and Cleaning Ink Cartridges

Maintain the bold, highly legible print that your inkjet printer is capable of by ensuring that the nozzle face of the ink cartridge is clean. Saw dust, ink spay and contaminants in the air can build up on the nozzle face during normal operation. The gap between the print head and material should be minimal (about 3/32") and the dust collection system must be adequate. Any build up of contaminates near the nozzles can degrade the print quality and cause fuzzy print, missing lines or complete loss of print. The solution to this problem is simply wiping the face of the ink cartridge.

Remove the cartridge. We recommend that a soft lint-free wipe be used to wipe the nozzle face. Wiping should be in the long (vertical direction) of the nozzles with the cartridge pointing down. The wipe may be wetted with ink from the nozzle area. DO NOT use any cleaners, solvents, etc. to clean the nozzle area. DO NOT apply excessive force as this may scratch the nozzle area.



During periods of inactivity cartridges should be placed in a Cover for Cartridge. This device holds the cartridge securely in place and seals the nozzle face from air and contaminants:



Ink Cartridge Cover RGX00585 - \$11.25

If the nozzle clog is persistent then the use of our Cleaning Kit may be necessary to draw ink from the nozzles.

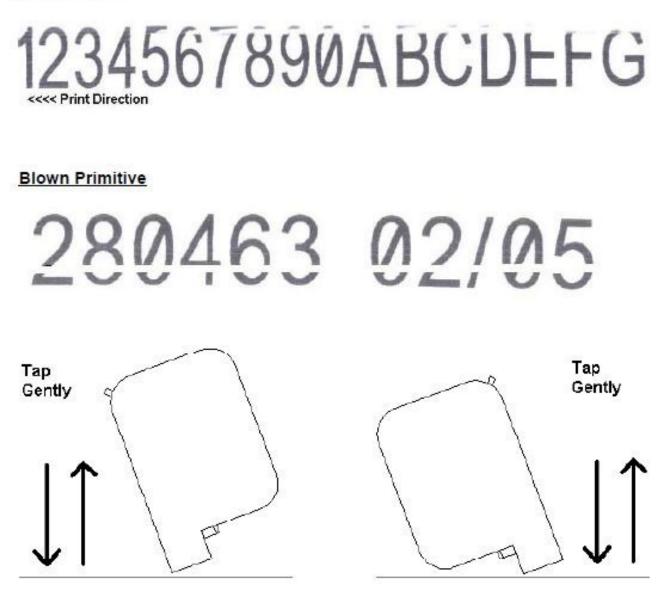


Insert the ink cartridge into the tray and securely snap into place. Place the tip of the syringe into the front of the tray. While holding the syringe securely in place gently draw back on the syringe plunger until ink flows into the syringe. Normally, it is not necessary to evacuate more than 0.1 cc of ink at a time as indicated below. Following ink withdrawal remove the syringe carefully. Remove the ink cartridge from the tray. Remove any remaining ink from the nozzle face with a lint free wipe.

Should the processes suggested above fail to clear the print quality problem, you may have either an air bubble in the ink near the nozzle or there could be a failure in the printer itself.

The print sample depicted below illustrates an air bubble trapped in the nose of the ink cartridge. Notice that the area not printed is tapered rather than a continuous band of unprinted information as in the case of a blown primitive.

#### Air in Cartridge



The air bubble can usually be broken and displaced by gently tapping the cartridge nose on a hard surface. Tilt the cartridge approximately 30 to 45 degrees and tap gently. Tap both corners of the cartridge nose. If the printer seems to be unresponsive watch the green LED on the printer to make sure it blinks when the RazorGage software starts up or when a board gets cut and a label should be printing. It should also blink when you press the Purge button from the RazorGage software. If you don't see the LED blink then be sure to check the communication cable (looks like an Ethernet cable) and the power cable. MAKE SURE BOTH CABLES ARE PLUGGED IN AT BOTH ENDS. The power cable plug at the printer needs to be secured with the small set screw coming in from the side of the power receptacle. If the printer is still not responsive try doing a hard reset. To do so, first close the RazorGage program. Disconnect the power cable from the top of the printer – it should be held in with a set-screw. Insert a standard paper clip into the hole on the female dovetail side of the printer, and while holding the paper clip in place (a light click will be felt) re-apply the power connecter. This operation will reset the print carriage assembly to the factory default settings and will clear any current message. Next, startup the RazorGage software.

If there are problems with the printed label here are some tips:

1. Wipe the printhead from top to bottom to get two black lines this could take a couple of times.

2. Do not use anything except a dry and if possible lint free cloth.

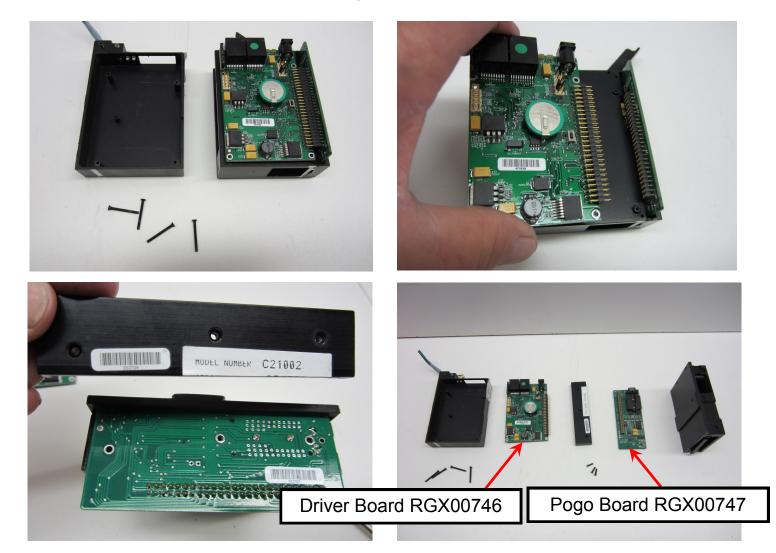
3.Use the cleaning tool. This is very inexpensive and will save a lot of headaches.

3. If you are using 4600 or 4700 ink you must install clip supplied when not using. If extra's clips are needed order (Part # RGX00585 - \$11.25). Again saving a lot of headaches.

4. Sometimes it is hard to tell the difference between full or empty cartridges. If you have a scale the 4500,4600,and 4700 full cartridge weighs 112 grams. Empty 77 grams.

5. The pogo board controls the cartridge. The gold pins have to make contact and be clean from water ink etc. Try running a pencil eraser across the pins and see if you can remove contaminants. Maybe a pin is stuck down this might fix that problem as well.

If you find that your print is missing multiple dots causing a line through your print and it continues with a new cartridge this could be the pogo board. Its called a blown primitive. The pogo board will have to be replaced. The pogo board is indicated in the pictures below. The part number is RGX00747 and the price is \$165.38. If the printer is completely dead then the driver board may need to be replaced. The driver board is part number RGX00746 and the price is \$335. See the pictures below showing how to access the driver board and the pogo board.



All parts shown are available on the online RazorGage Store. Go to www.razorgage.com, click Replacement Parts, then click the picture to enter the store. We recommend purchasing ink from: A & M Sales Milwaukee, WI www.amsalesinc.net 800-382-6108

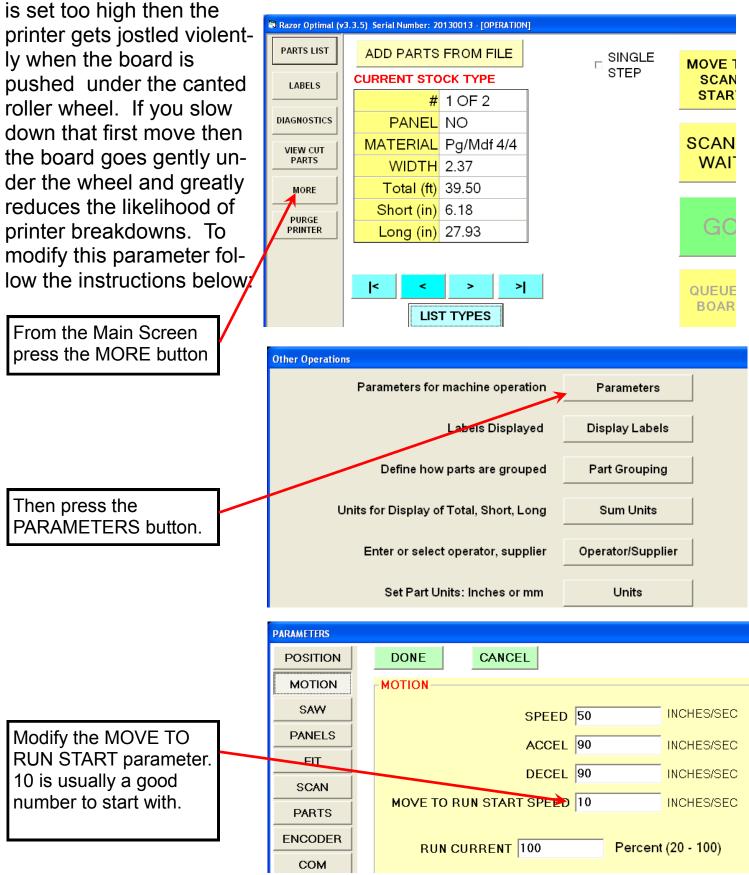
The 4500 ink cartridge is the one most commonly used with RazorGage equipment. If you are printing on hard, non-porous surfaces such as plastic of metal you may want the 4600 cartridge. If you push the Check Head Status Button. In the information box, You should see 3 Lines of information, if you do, it means the Cat 5 cable is working.

Evolution Printer	
	Check Head Get Control Flags Check Cartridge
TEXT 123 123 TEXT	Download and Full Reset Cartridge State Print Enable
Clear	Cancel PrintPURGE
OUT: 0)05027(0) 41()) 6(0) 4(0) IN: )0 41 6 OUT: 0d01027(0) 100(d) 6(0) 4(0) IN: d0 100 6 OUT: 084:027(0) 56(8) 6(0) 4(0) IN: 80 56 6 Information box	Encoder Divider       1         Get Parameters from Printer       Save Parameters to DB         Intercharacter spaces       5         ✓       Direction Right to Left         ✓       Print Image Inverted
CLOSE	

If you push the Check Head Status Button. In the information box, you should see 5 lines of information, if you do, the Cat 5 cable is working correctly. If you see less than 5 there is a problem communicating.

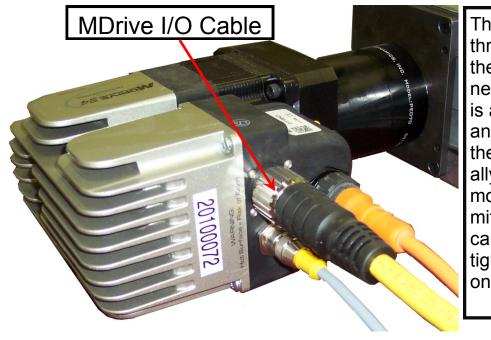
Evolution Printer	
	Check Head Get Control Flags Check Cartridge
TEXT 123 123 TEXT	Download and Full Reset Print Enable
Clear	Cancel Print PURGE
OUT: IRII 27 82 1 4 27(I) 82(R) 48(0) 48(0) 4(I) MI: R00 82 48 48	Encoder Divider 1 Get Parameters from Printer Save Parameters to DB
Information box	<ul> <li>Direction Right to Left</li> <li>Update Direction or</li> <li>Print Image Inverted</li> </ul>
CLOSE	

If your printer driver board or pogo board is requiring replacement often, it could be that the MOVE TO RUN START SPEED is set too high. This parameter controls the speed of the first move the positioner makes when it is pushing the board under the printer. If the MOVE TO RUN START SPEED



### RazorOptimal - Printer Purges but won't print..

If the printer purges alright but will not print, first click the LABELS button on the main screen of the RazorOptimal and check to see if the PRINT LABELS checkbox is checked. If it is checked, run a board and watch the green LED on the printer body. If it stays on most of the time and blinks off for each new board then Ithe printer may not be getting encoder counts from the motor.. Follow the steps below to trouble-shoot this problem.



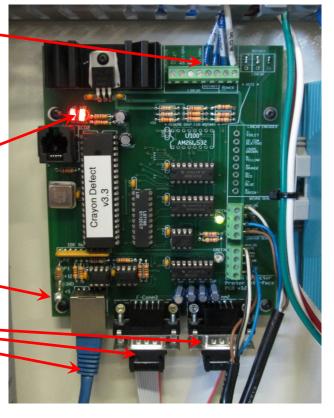
The MDrive I/O cable has a threaded ring that tightens the cable to the mating connector on the MDrive. This is a very robust connector and sometimes it seems like the ring is tight when it actually needs to be tightened more. In this condition, intermittent I/O related problems can occur. To make sure it is tight, wiggle the cable with one hand and continually

Working with each wire individually, loosen the screw terminal, remove the wire and re-insert making sure that the terminal will be tightening on the coper and not on the insulation. Then retighten the terminal screw.

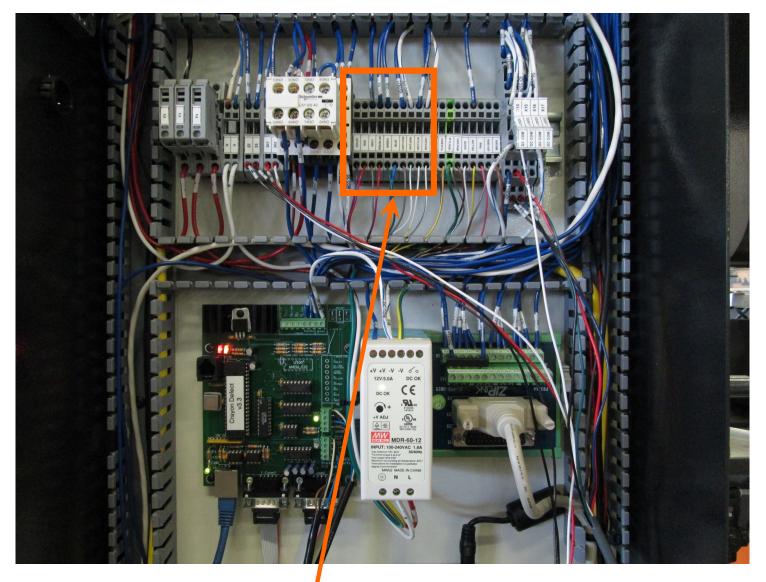
Make sure these two LEDs are on. They indicate that the card has the two power sources it requires.

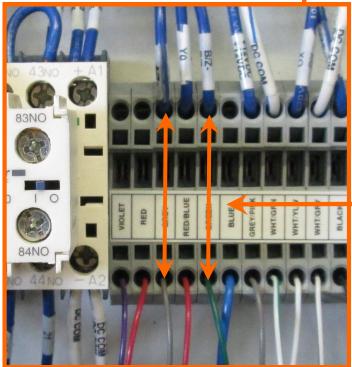
This LED should be flashing.

Make sure these three cables are plugged in securely.



Continued on next page....





Inspect the wires indicated at left. If none of them are obviously loose, remove each wire individually and re-insert making sure that the terminals clamp on the copper wire and not on the insulation. To remove the wire, insert a small narrow screwdriver into the square hole above or below the wire entry point. Remove the screwdriver to reclamp the wire. See picture below.

