



AM.CO.ZA FastCOLOUR Large Format Printer
EPSON® DX5/DX7 Printhead Alignment Tool
User Guide

Keep Updated of New Version of this Document

and other FastCOLOUR Printer Information

Please subscribe the maillist of FastCOLOUR Printer for updates:

<http://am.co.za/subscribe>

You can also check our CNC Utilities to download this document.



<http://www.cncu.co.za/> or <http://am.co.za/utility/disk>

For all our CNC Machines, check <http://am.co.za/>

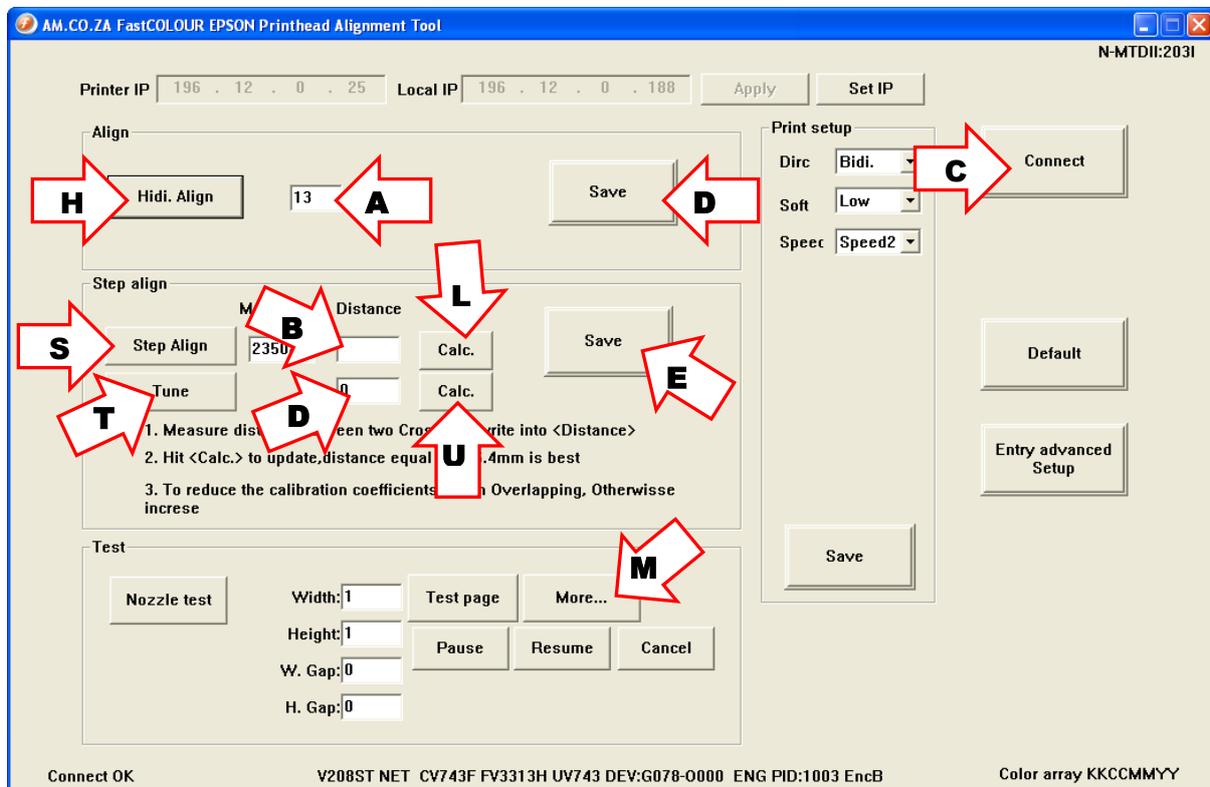
Or call 072 222 2211 or 060 600 6000

Latest edit at 2016/11/01 09:08:20 PM



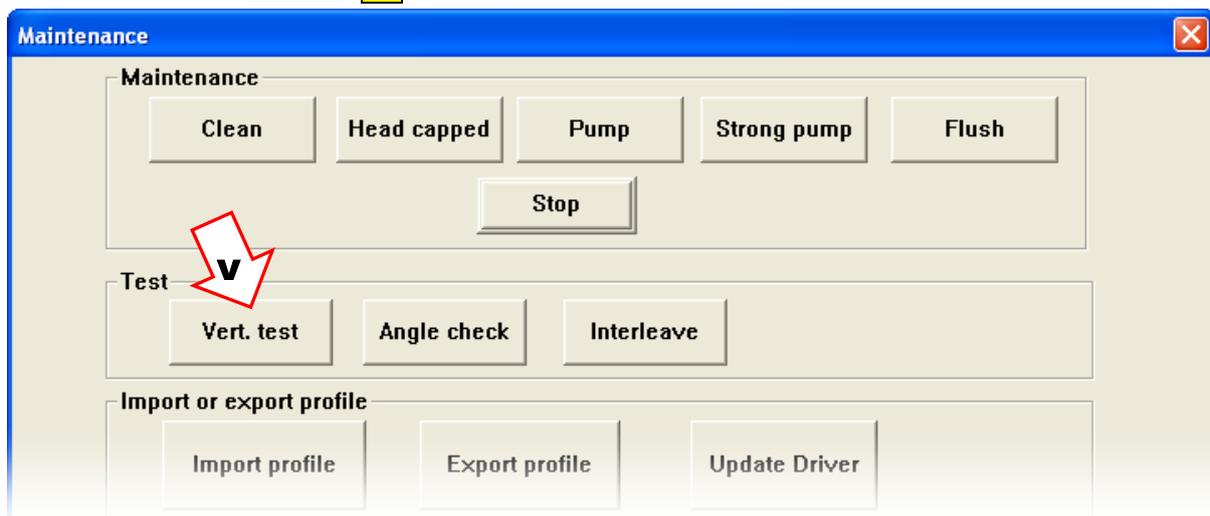
AM.CO.ZA FastCOLOUR Large Format Printer EPSON® DX5/DX7 Printhead Alignment Tool User Guide

Connect to Printer and Default Interface



Click “**Connect**” **A** Button to connect to your AM.CO.ZA FastCOLOUR Printer. If cannot connect, check your network cable, as well as follow the “FastCOLOUR Network and Driver Setting” instruction on our Utility Disc.

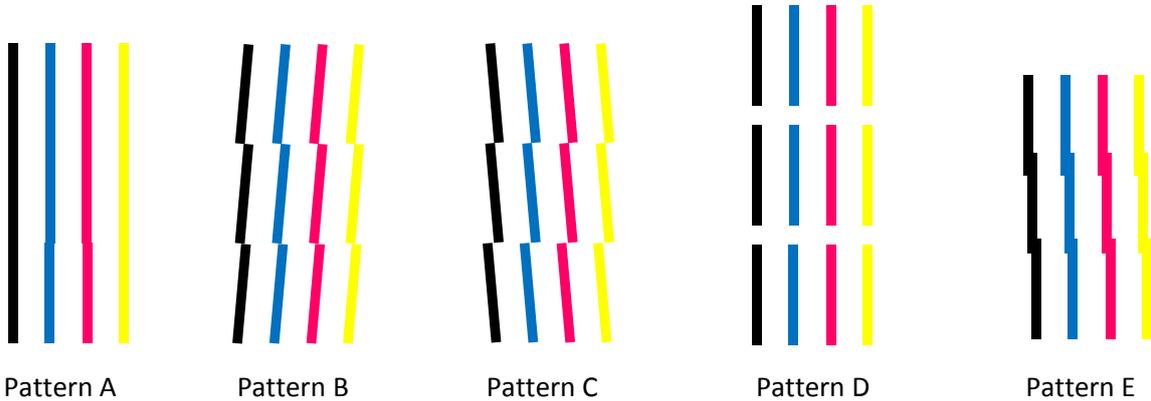
Once You Click the “**More...**” **M** Button, you will see more options.



Printhead Vertical Alignment

This alignment is only required to be performed after Printhead position physically changes.

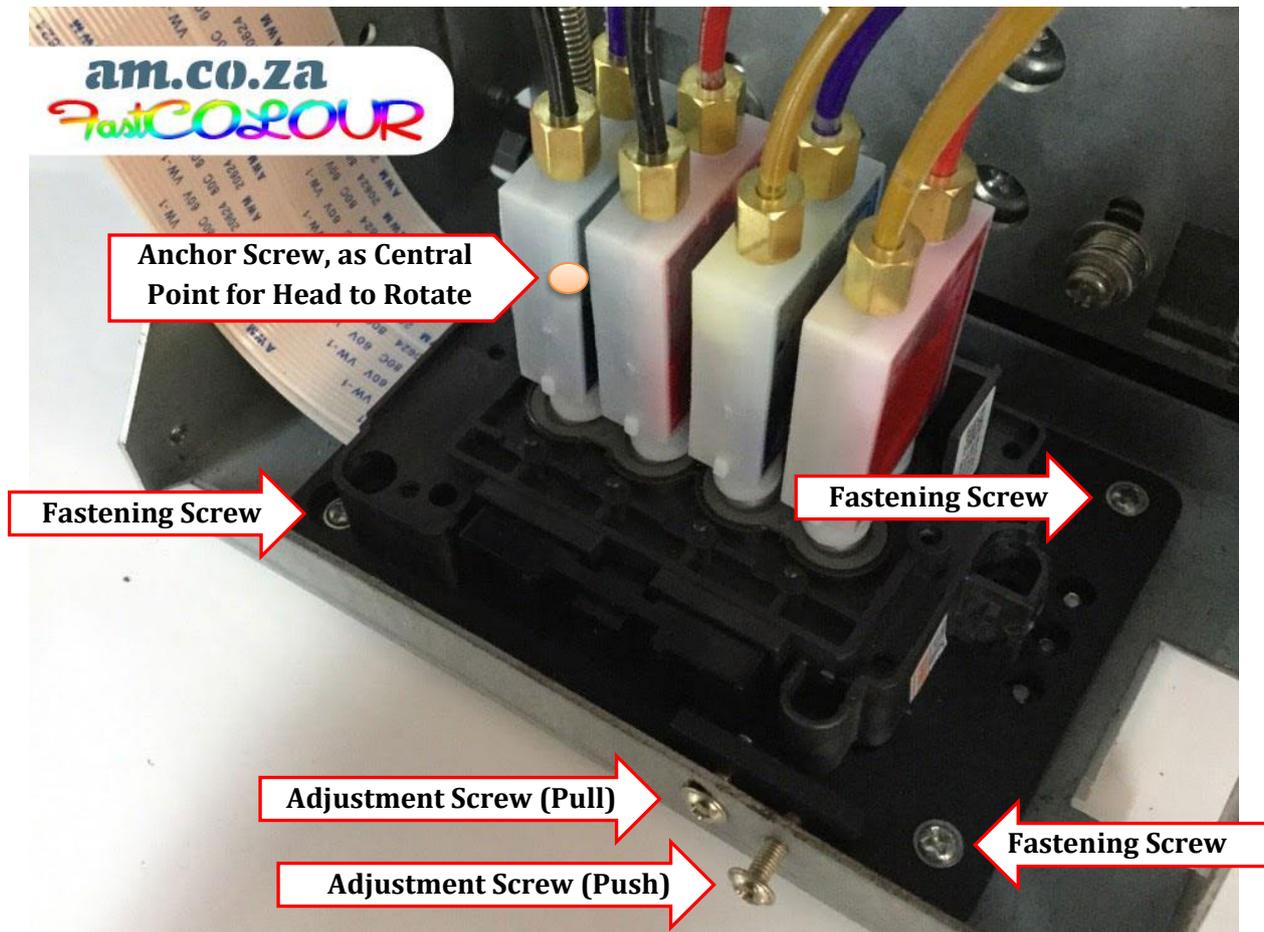
Click “Vert. test”  Button, your printer will print a pattern as:



The order of the colour may differ as illustrated above, because the order of ink colours supply to the Printhead may differ.

If you got **Pattern A**, your Printhead vertical alignment is perfect.

If you got **Pattern B** or **C**, adjust head position, then reprint, until you get **Pattern A**.



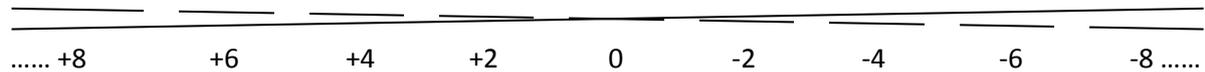
If you got **Pattern D** or **E**, (too much gap in between or overlap plenty), do **Step Alignment** first.

Printing Step Alignment

This alignment is only required to be performed when machine has been setup first time, or after motor, belt, gear, any mechanical has been changed and/or any printed circuit board has been change.

- **Tune Method**

Press "Tune" **T** Button, your printer will print two crossed lines with numbers underneath.



The goal is to get two lines crossed at position 0.

If two lines crossed but position is not 0, type the number underneath crossed point into block **D**, then Calculate **U** and Save **E**, then print again.

If two lines NOT cross, use "Step Align" method below. Then perform "Tune" again for best result.

- **Step Align Method**

Press "Step Align" **S** Button, your printer will print a big square. Once finished printing, measure the Length (the media rolling direction, not width) of the square, and put the measurement in millimetre (mm) into Block **B**, then calculate **L** and save **E**.

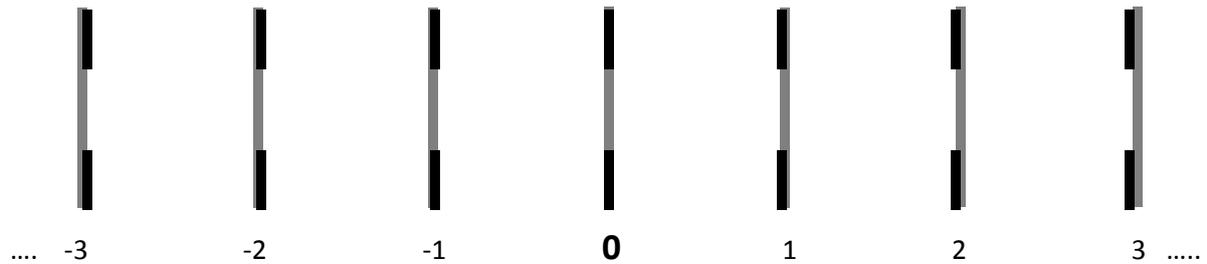
Then back to "Tune" to get best result of step alignment.

Horizontal Printing Alignment

Our FastCOLOUR Large Format Printers come with bi-directional printing technology -- to express ink both coming and going during the high speed printing. Horizontal Printing Alignment is to ensure ink droplet land on same spot on both directions. This printing alignment is NOT required if you disabled the bi-directional printing.

When the distance between “Printhead” and “Printable Media” changes, this alignment has to be performed. E.g. changed printable media, lift or lower down the print head.

Click “Hidi. Align” **H** Button, your printer will print a pattern as:



The goal is get **0** position printed of both directions visually vertically straight.

If you found any other position with better result, add (or minus) the number with the number in block **A** and Save **D**.

Then print again to confirm.

[End of Document]