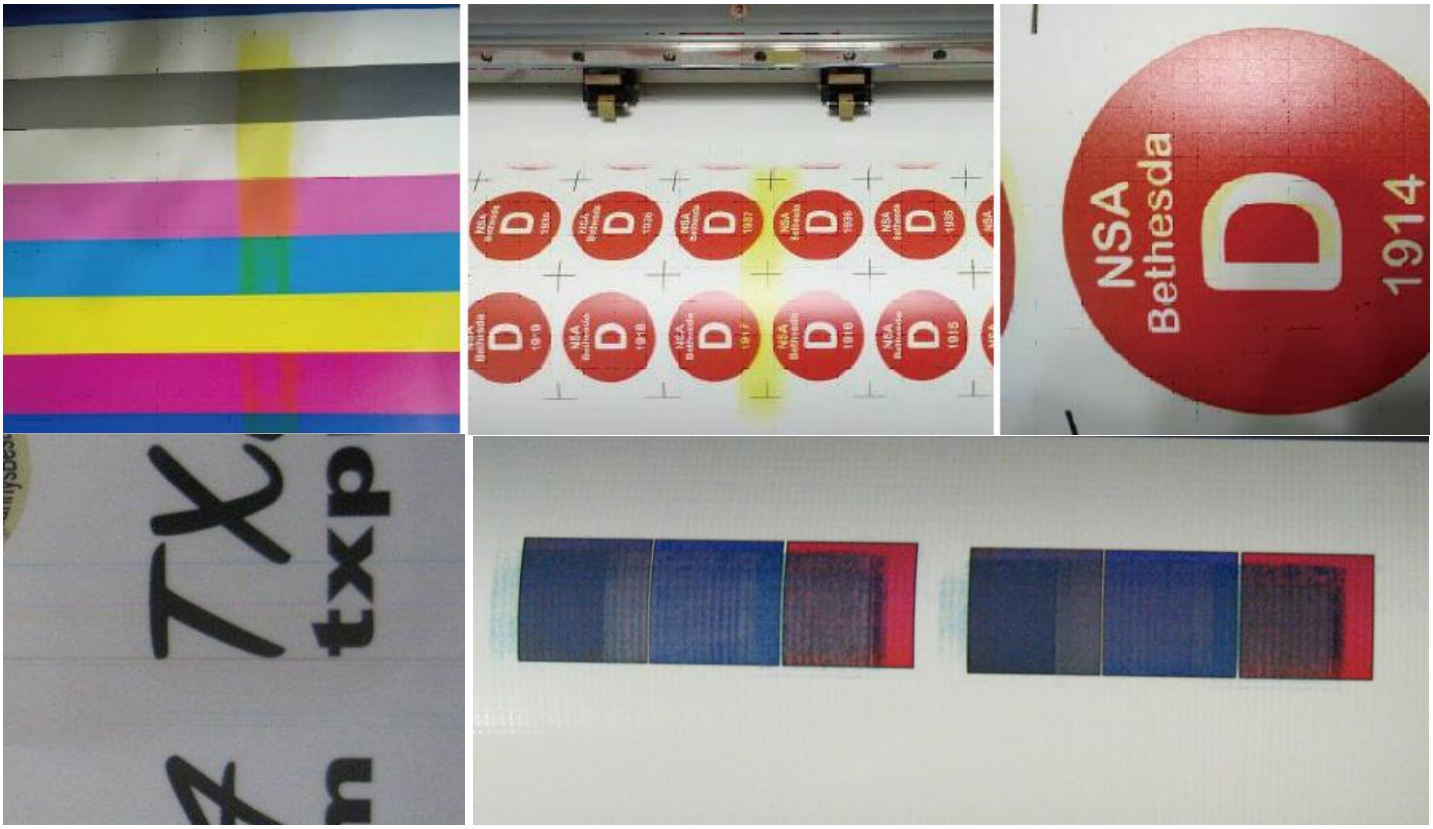
Repair Guide

Block Noise Printing
VS Series

November 11, 2011

Symptom:

Colors printed in vertical lines or blotchy, offset printing. See images below for clarification.



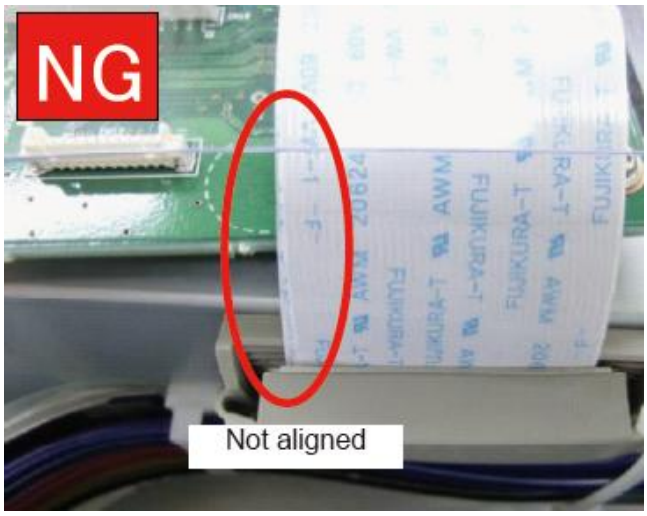
The cause of the issue is a misalignment in the long data cables which send the signal to the print heads. The misalignment causes a digital noise which causes print quality issues. The misalignment has also been attributed to print and cut accuracy issues as well.

Steps to resolve the issue are contained in the following pages.

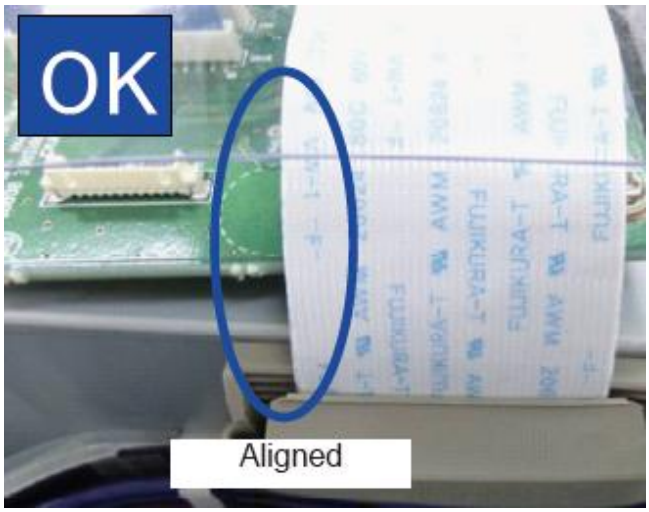
Follow the steps below to correct the issue:

1. Remove all exterior covers from the printer.

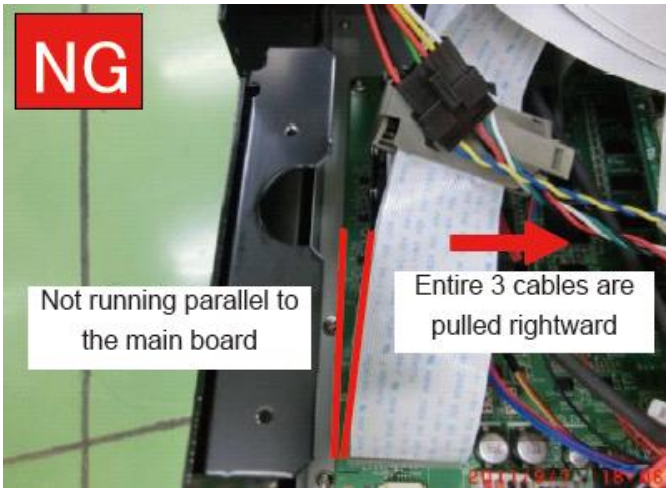
2. Check the alignment of the long ribbon cables at the print carriage board.



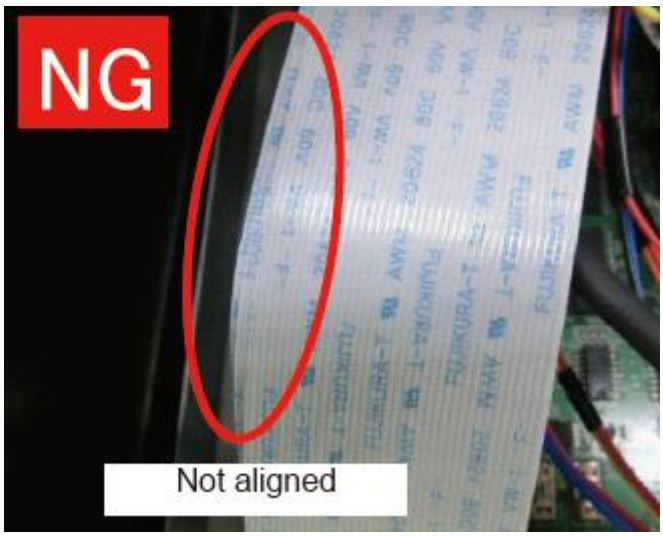
3. Correct the alignment if need be by unclamping the cables and resetting them. You can use masking tape to help align the cables.



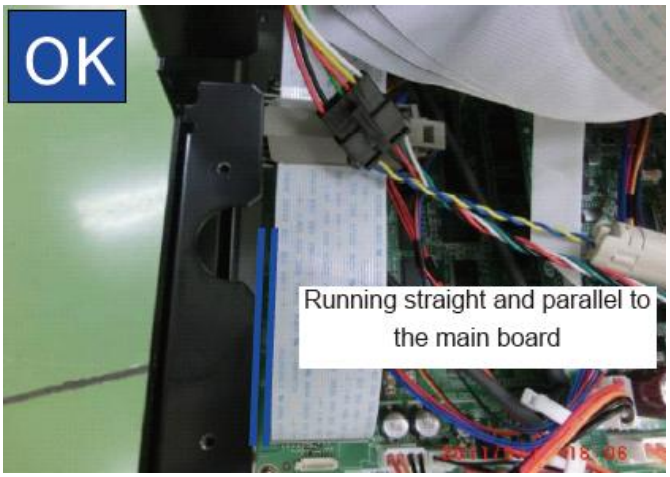
4. Check the long ribbon cables back at the main board. They should run parallel to the main board.



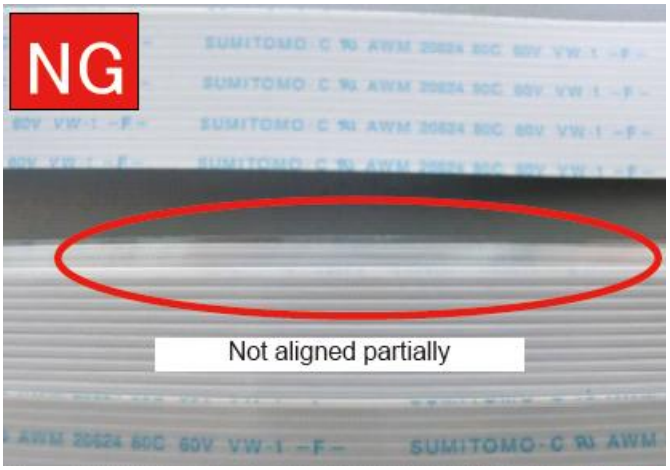
5. Check to make sure the long ribbon cables are aligned with each other.



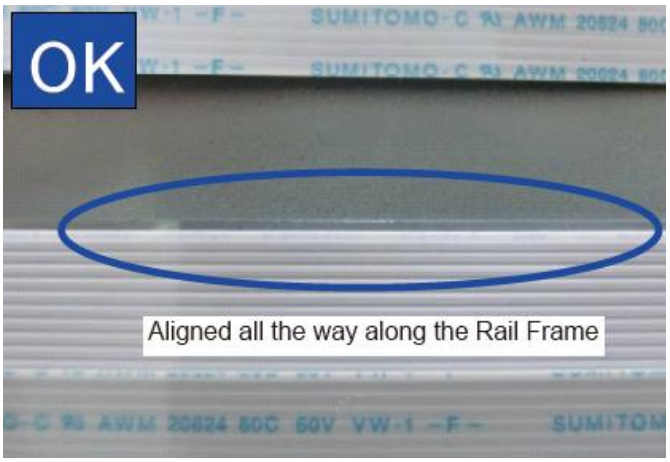
6. Align long ribbon cables with each other and make them parallel with the main board.



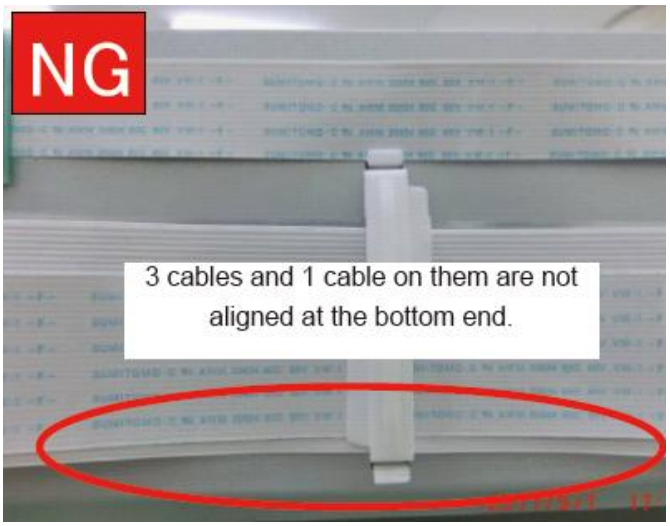
7. On the back side of the printer check the path of the long ribbon cables and make sure they are aligned. The tolerance is within one signal line.



8. Align ribbon cables along the length of the rail frame. Use masking tape to align the cables if needed.

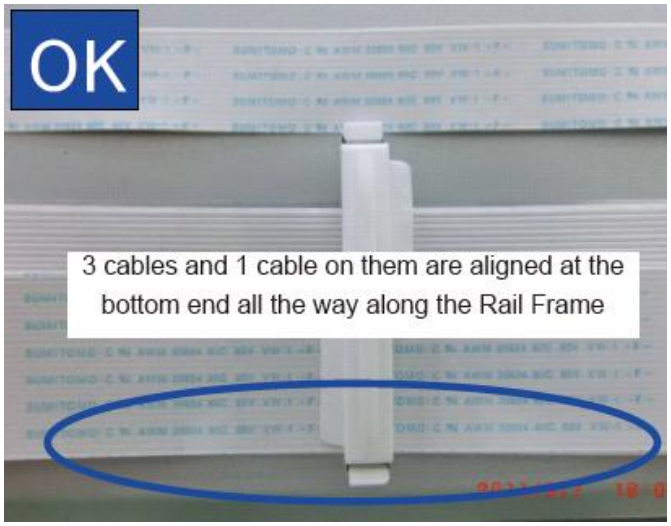


9. Check to make sure the outermost cable is aligned to the 3 long ribbon cables all along the rail frame.



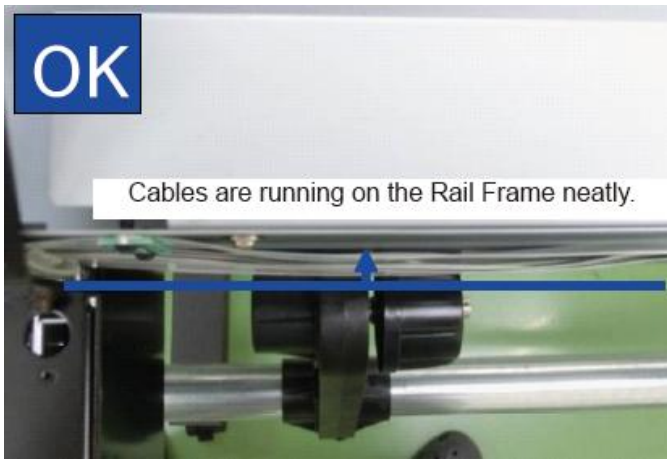
10. Align the outer most cable with the long ribbon cables. You can use masking tape to hold them in place.

Note: At the capping station side the front cable and the long ribbon cables cannot be completely aligned. This is normal.

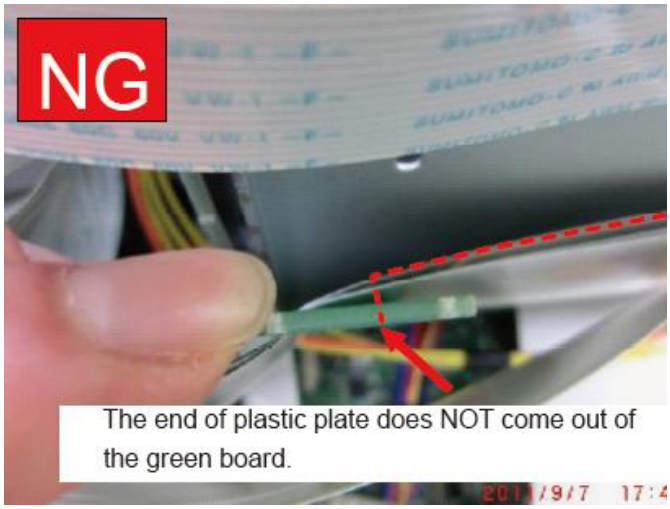


11. Check to make sure all cables are not swelling out from the rail frame as shown.

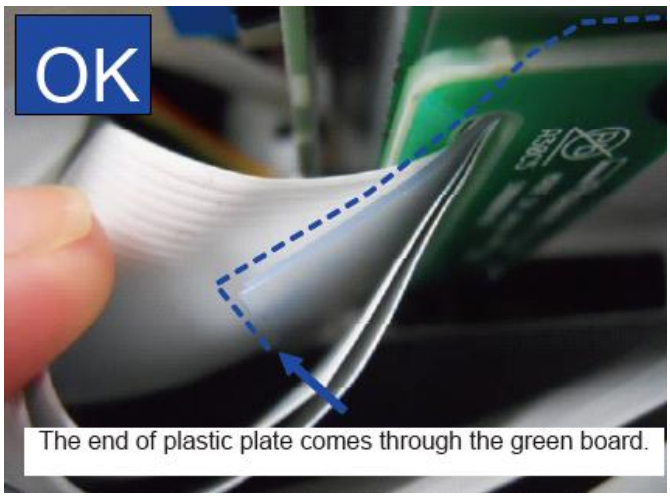
12. Correct cable positioning to be as shown.



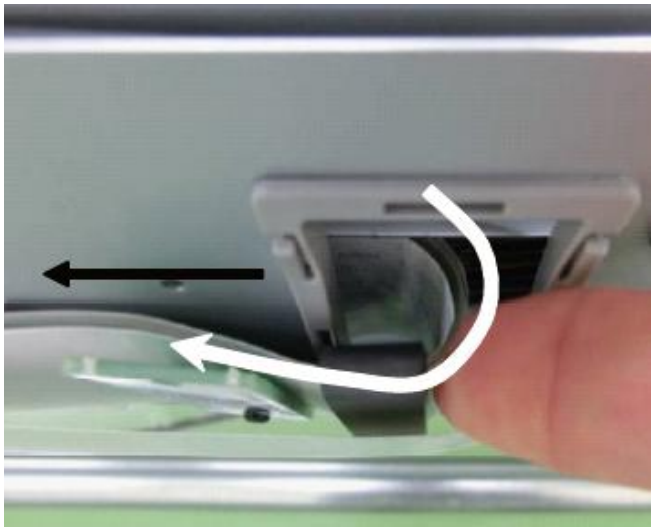
13. On the capping station side of the printer there is a plastic plate. Make sure the clear insulation cable passes through the green board.



14. If the insulation cable does not pass through the green board make the correction so it appears as it does in the image by following the next steps. If it is ok, the process is complete.



15. Remove the rivets which hold the flat ribbon cables and release the clamps.

16. From the window in the picture pull the length of cable needed so the clear insulation cable can pass through the green board in steps 13 and 14.

Note: Be sure that all cables remain aligned after moving the extra length of cable.