



Tuning Printers

Tuning your Printer and Scanner
Tuning your Printer and Scanner -
Mini

"Tuning" your Printer and Scanner



Alignment is critical for all printing solutions. For B&W printing, you must add two elements being the darkness of the printed responses and the scan darkness of the OMR scanner.

Alignment

Alignment is measured using the file Ltr-BW.frm (alternate A4-BW.frm) which you should copy and name with this physical laser printer name, then print from FoD-OMR. The middle section of this sheet should read perfectly from Channel 23 and less well the further from Channel 23 that you go.

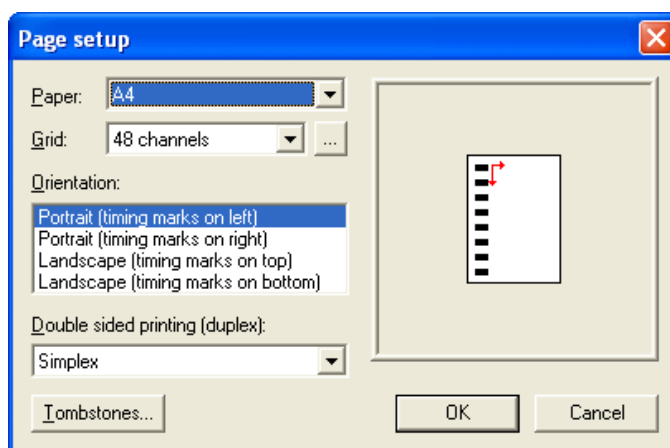
Please make up a sheet read definition for this sheet so you can see channels 16 through 30.

The best definition is to show co-ordinates so you get back this as the result:

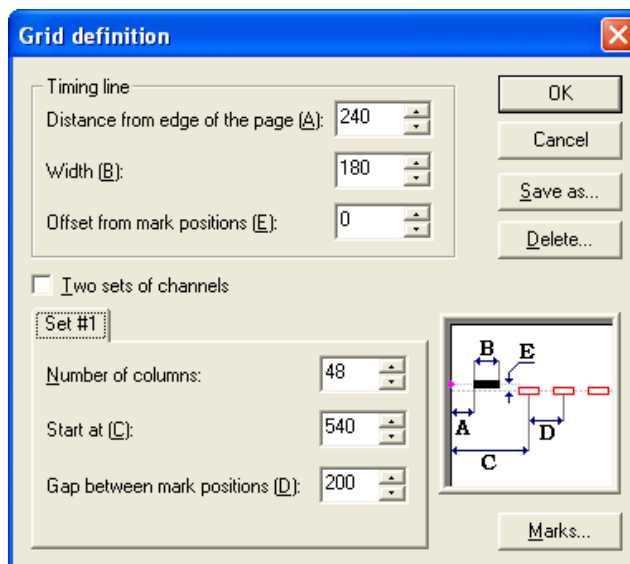
Channel 16-22:	YYYYYYY	left of the central channel
Channel 23:	Y	channel 23 is the mid channel
Channel 24-30:	YYYYYYY	right of the central channel

If you have more left-hand "hits" than right-hand "hits" you will need to move responses to the left, and move right for the converse. Each pre-slugged response moves 2/300 inches from the center (23rd) channel. The difference between Left and Right hits divided by two is the amount to move, negative for left movement, positive for right movement, in 1/300ths.

- Click **Page Setup** in the **File** menu.



- Click the **Finder** button next to the **Grid** list to create a custom grid definition.



- Adjust the distance from the paper edge to the middle of the first column (value **C**) in the dialog box diagram). Reduce to move left, increase to move right. Remember the adjustment calculated was in 1/300ths where this value is 1/1200ths, so multiply by four for your adjustment.

Remember to print and try again please.

[Top](#)

Darkness

Print darkness is in two parts, the darkness of the **response shape** and the darkness of the **response text** when placed inside the response. If you have the response text outside the response shape (between timing marks or in an unread area) please ignore the instructions for response text.

Response shape

Use the above form and check the darkness of the response shape (from the second channel) against the response shape you intend to use. If the result is too light for your human audience, please use the Printer Control Panel to darken the image until it is "acceptable", then check it through the scanner and make sure the scanner will not read the darker response mark.

Response text

Use the above form and read the text-only blocks in these locations:

Channel 2, Rows 19-30
Channel 42, Rows 16-27

Select the value below the first value read and now attempt to read that response from the blocks of 5 responses above and below the center, for the value and response shape you have chosen thus far. All should not read, the next block should have one or two reads only. Adjust until you get no reads - this is your levels for all B&W OMR forms ON THIS PRINTER.

[Top](#)