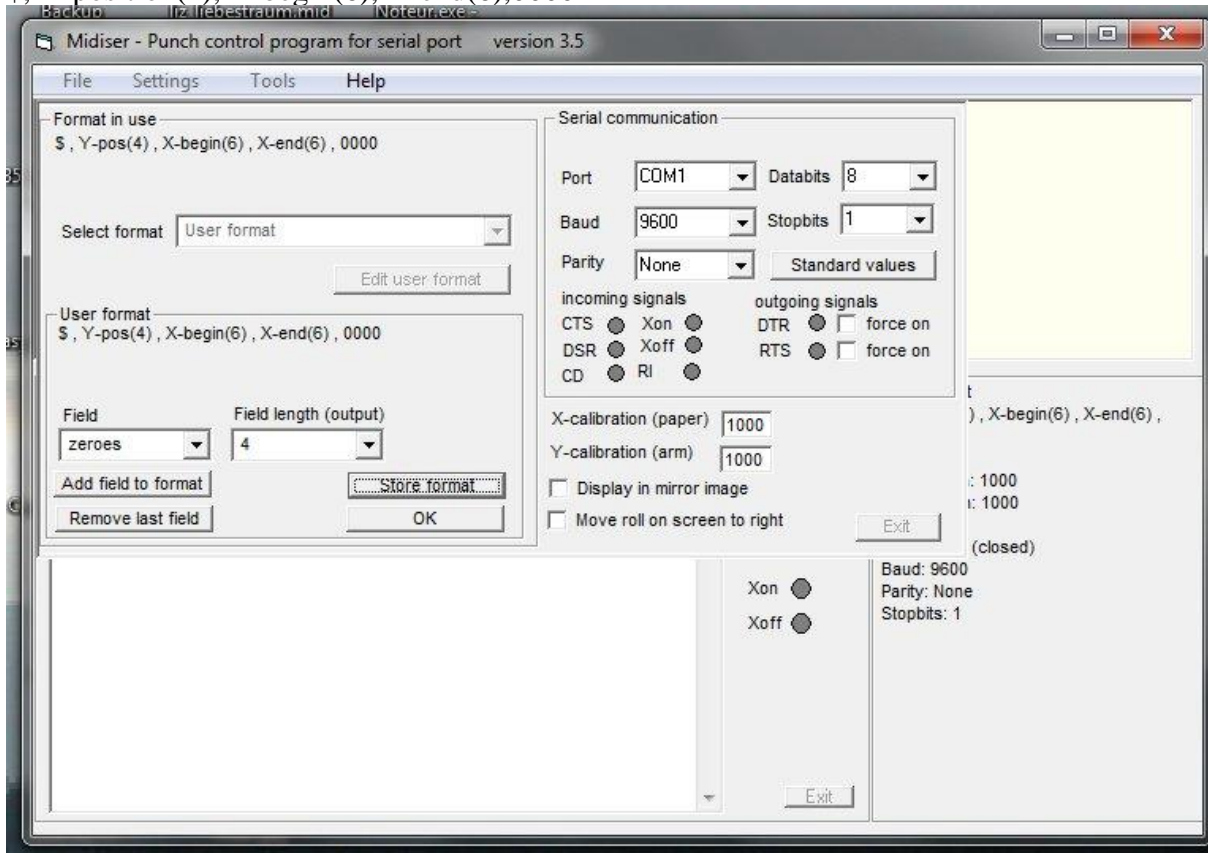


PUNCHER_2C revised July-2-2014

IMPORTANT:

The format code have to be changed by adding the 4 zeroes after then string:

\$, Y-pos(4), X-begin(6), X-end(6),0000



The implementation of this puncher is largely similar to the first version. Because the paper is now transported back and forth, a second transport-roller is fitted before the arm entrance. This one is identical to the main roller and in parallell functioning with it. That's why a small cooling fan is mounted

The spring tension of the rollerwheels of this extra one have to be kept as low as possible because it has only a function at bakwards paper moving. If using light carton is has to be higher.

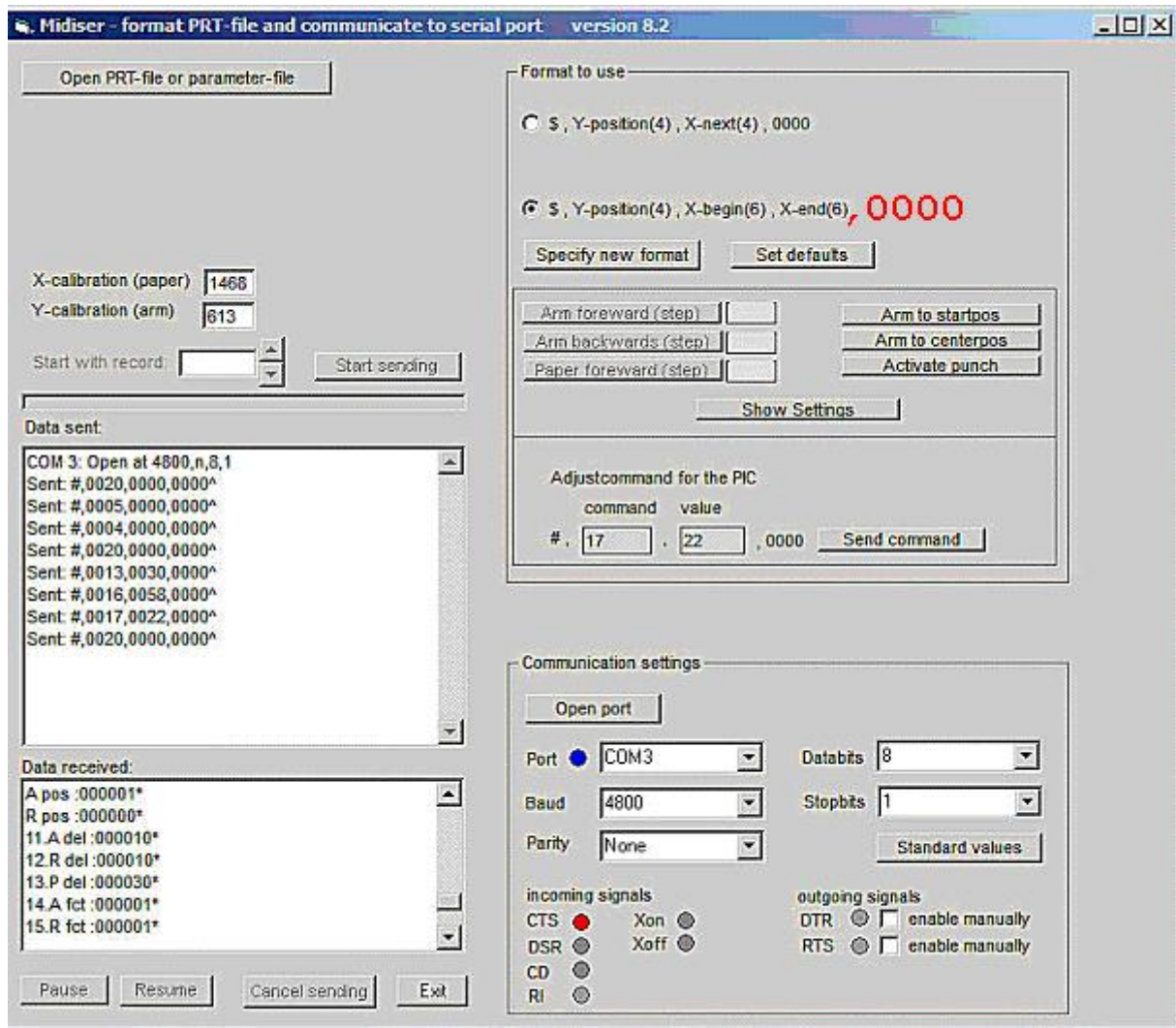
By removing this roller and changing the firmware of the Pic processor (or replace the processor) it can be used as the first version.

For controlling of this version both newest Midiser versions shall be used.

The PRT file must made with note type S

Also this uses a new format to use

Here a screenshot with the basic set up values.



The reports in the data received window are:

- | | |
|------------|---|
| A pos | The actual position of the Arm |
| R pos | The actual position of the Roll |
| | The adjustable settings |
| 11. A del | The delay of the Arm stepper |
| 12. R del | The „ „ of the paper roll stepper. |
| 13. P del | The „ „ of the puncher |
| 14. A fct | The multiply factor for the Arm stepper |
| 15. R fct | The „ „ for the paper roll stepper |
| 16. P Dist | The distance between the holes to be punched. To calculate acc
(distance in 0.1 mm) * X-calibration / 1000 |
| 17 P dia | The radius (diameter) of the punchpen To calculate acc
(diam punch pin in 0.1 mm) * X-calibration / 1000 |
| 18 Max dev | The maximum deviation of the arm center, if the measured actual is greater the
the init proedure will be carried out and the proces will be continued
afterwards. |
| ACT dev | Actual measured deviation |

Commands overview

COMMAND	VALUE	Action	COMMAND BUTTON
1	nnnnn	Arm moves nnnn steps forward	X
2	nnnnn	„ „ „ „ backwards	X
3	nnnnn	Paperroll moves nnnn steps forward	X
4	00001	Arm moves to start position	X
5	00001	Arm moves to center position	X
6	00001	Punch is activated	X
7	nnnnn	Paperroll moves nnnn steps backwards	
8	nnnnn	Set paperrol counter to 0	
9	nnnnn	Set paperroll counter to nnnn * 10	
10	-----	-----	
11	nnnnn	Set Arm stepper delay to nnnn (30 > nnnn > 5)	
12	nnnnn	Set Papaerroll stepper delay to nnnn („)	
13	nnnnn	Set Puncher delay to nnnn (200>nnnn)	
14	nnnnn	Set Arm factor to nnnn (3 > nnnn)	
15	nnnnn	Set Paparroll factor to nnnn(„)	
16	nnnnn	Set distance between holes (200 > nnnn, see reports)	
17	nnnnn	Set diameter/2 of punch (200 > nnnn, see reports)	
18	nnnnn	Set maximum Arm deviation (30 > nnnn see reports)	
19	00001	Activates arm init.	
20	00001	Show settings	X
21	00001	Show firmware version	