

How to achieve proper calibration settings for passbook
printers?
(Olivetti, Lipi,Epson,Wincor)

Printer Calibration user guide

For

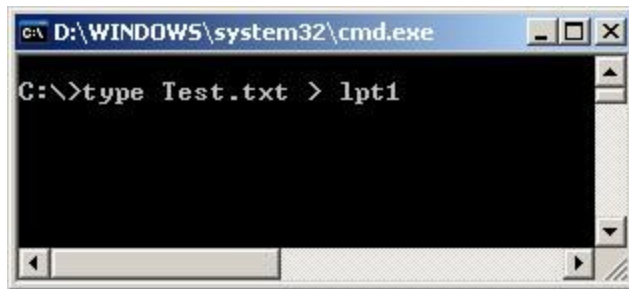
State Bank Of India

And

Associate Banks

Prerequisites:

- Make sure that passbook printer is set as default printer.
- The client system must have local administrator rights.
- Create a text file (Test.txt) in C: drive with some text(say TEST1) of 10 lines.
- Go to the command prompt with [c:\](#)
- Run following command in command prompt.
- c:\>type Test.txt > **Port name**



- Where port name is the name of port where passbook printer connected locally might be **LPT1** or **COM1**.

Step 1: Data in a text file should be printed from left top corner position as shown in the image below.

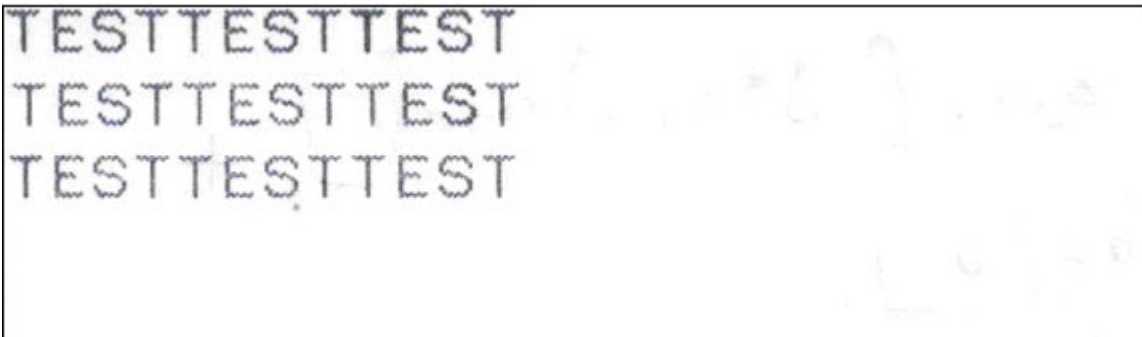


Image1: Proper calibration of printer.

Step 2: If this is not the case then follow the instruction given under the heading “**Correcting Printer Calibration**” for the respective printer (e.g. Olivetti or Lipi).

The following images show the unacceptable calibration of printer.

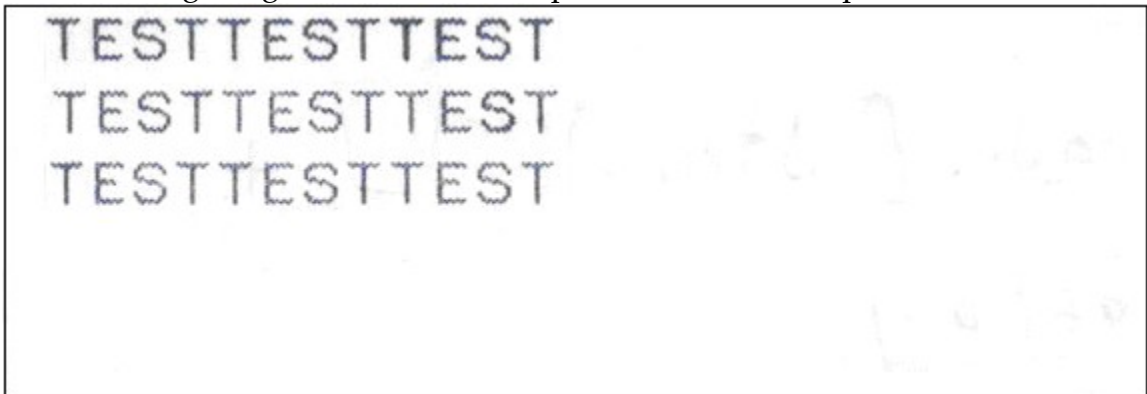


Image2: Printed with **improper left** calibration of printer.



Image3: Printed with **improper left and top** calibration of printer.

How to get existing printer settings on paper?

For Olivetti Printer / Lipi Printer:

- Turn off the printer.
- Press & hold **station 2** & turn on the printer.
- Release **station 2** when printer gets initialized properly.
- Insert a paper into printer it will print existing settings.

Correcting Printer Settings if applicable:

Note: Same steps applicable for **Olivetti** and **Lipi** Printer.

Olivetti Printer / Lipi Printer:

- In existing printer settings observe the settings which are underlined:
- Existing settings shown In image 4 for olivetti and image 5 for lipi.
- Two sample steps in details has given to change settings if applicable.
- Please apply similar steps for other underlined settings.
 - **BOF IBM-PP LIKE: N**
 - **TOF IBM-PP LIKE: N**
- Make sure the above two settings are set to 'N' if this is not the case then toggle them to 'N'. Steps to do the same are given below:

FW REL. 1.04E VER. 120 CG VER. 010

Needles test:

1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	0	0
																									D	V

CONFIG.
DRAFT SPEED: NORMAL
LQ TYPE: NLQ1
PAPER WIDTH: FIRST LINE
BUZZER: Y
INTERFACE: SERIAL1
RS1 EMULATION: IBM
BAUD RATE: 9600
BIT/CHAR: 8
PARITY: NONE
STOP BIT: 1
DSR: Y
DCD: Y
PAP.EDGE DETEC.: N
SPECIAL FORMS: N
BIM BIDIRECT: N

Olivetti Printer Standard Settings.

IBM
EMULATION: P.P.II
PASSBOOK: Y
BINDING: HORIZ.
SIDE: L
CHAR SET: PC
PC CHAR SET: 437 (INT)
PC TABLE: TABLE 2
CHAR DEFINITION: DRAFT
CPI: 12
COMPRESSED: 17.1
LF+CR: N
CR+LF: N
LF HEAP UP: NEVER
ESC BEL O CHECK: NORMAL
ZERO SLASH: N
LINE LENGTH: 80
INSERT MODE: DIRECT
FORM LENGTH: 12
BOF IBM-PP LIKE: N
TOF IBM-PP LIKE: N

OLIVETTI
EMULATION: PR2E
PASSBOOK: Y
BINDING: VERTICAL
SIDE: L
CHAR SET: OLIVETTI
OLI. CHAR SET: ST1SINT
CHAR DEFINITION: DRAFT
CPI: 10
COMPRESSED: 16.6
VERTICAL RESOL.: 1/240inch
LF+CR: N
LINE LENGTH: 90
REPLY SYNCHRON.: N
STATUS REQUEST: NO WAIT

Image 4: Olivetti Printer standard settings.

Note: Please consider settings under CONFIG and IBM menu.

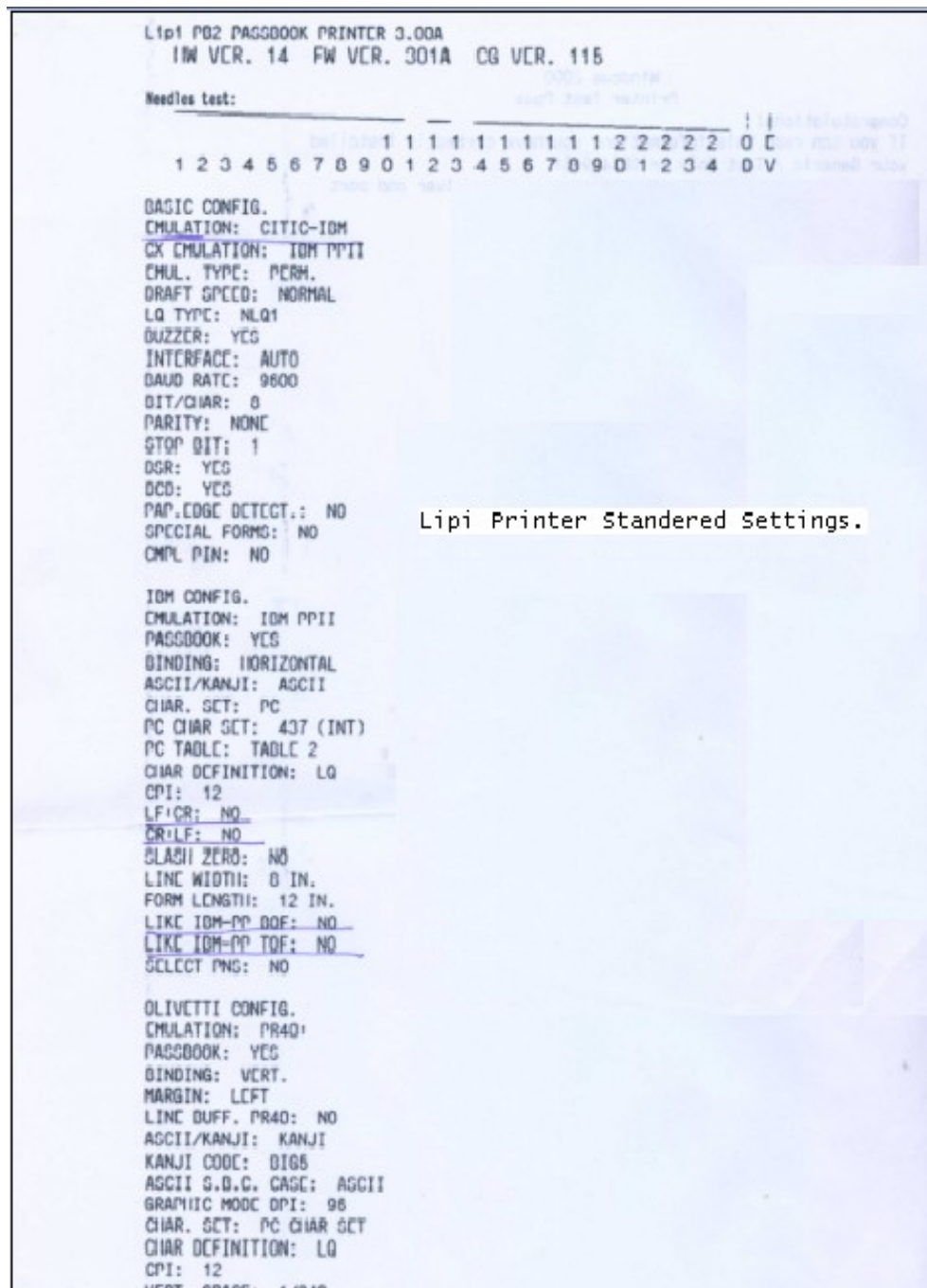


Image 5: Lipi Printer standard settings.

Note: Please consider settings under BASIC CONFIG and IBM CONFIG menu.

How to change existing BOF & TOF setting?

Olivetti Printer / Lipi Printer:

- : Turn off the printer
- : Press and hold **Station 1** & **Station 2** printer buttons and turn on the printer.
- : When printer gets properly initialized release **station 1** and **station 2**.
- : Insert A4 size paper into the printer
It will print the line below at the bottom of inserted page.

STATION 1=CONFIRM STATION 2=SKIP PRESS LOCAL TO CONTINUE

- : Press **LOCAL**
It will print the line below
MENU: CONFIG.
- : Press **STATION 2**
It will print the line below
MENU: CONFIG. IBM
- : Press **STATION 1**
It will print the existing settings one by one; go on pressing **STATION 1** until you see the setting below.

BOF IBM-PP LIKE: Y

If this value is 'Y' as shown above, then toggle it to 'N' by pressing **STATION-2**, now the print will come as below:

BOF IBM-PP LIKE: Y N

If this value is already 'N' then skip it and move on to the next setting by pressing **STATION-1**

TOF IBM-PP LIKE: Y

If this value is also 'Y' as shown above, then toggle it to 'N' by pressing **STATION-2**, now the print will come as below:

TOF IBM-PP LIKE: Y N

If this value is already 'N' then skip it and save the changed setting by pressing **LOCAL** printer button.

It will print the line below

SAVE PARAMETERS: Y

Press **STATION 1** to confirm the altered settings. One beep will be produced by the printer.

If you don't want to save the settings you have changed, you can simply toggle the "SAVE PARAMETER" value to 'N' by simply pressing the **Station 2** printer button.

Turn off the printer to make the settings permanent.

To see the changed settings perform following steps:

- Turn off the printer.
- Press and hold **Station-2** printer button and turn on the printer.
- When printer gets properly initialized release **station-2**.
- Insert A4 size paper into the printer
- It will print printer settings.

How to change existing printer calibration?

Olivetti Printer / Lipi Printer:

Step 1: Switch off printer.

Step 2: Switch on printer.

Step 3: Double click on desktop TestPrint icon and insert a blank A4 size paper into printer.

Step 4: It will print some testing string which shows printer printing position.

Step 5: If it is not as shown in **image 1** then correct the printer calibration.

Correcting Printer Calibration:

Note: Same steps applicable for **Olivetti** and **Lipi** Printer.

Step 1: Switch off the printer.

Step 2: Open the front panel of printer as shown in image below.



Image 6: Olivetti printer with front panel open.

Step 3: Press and hold all three buttons (**Station 1**, **Station 2** and **Local**) simultaneously & switch on the printer. Do not release three buttons until printer gets started.

Step 4: When you heard a beep sound and printer starts properly release all three buttons and close front panel of printer.

Step 5: Now press the **local** button.

For Vertical Calibration:

Step 6: Now press button **station 1** once for **vertical** alignment correction.

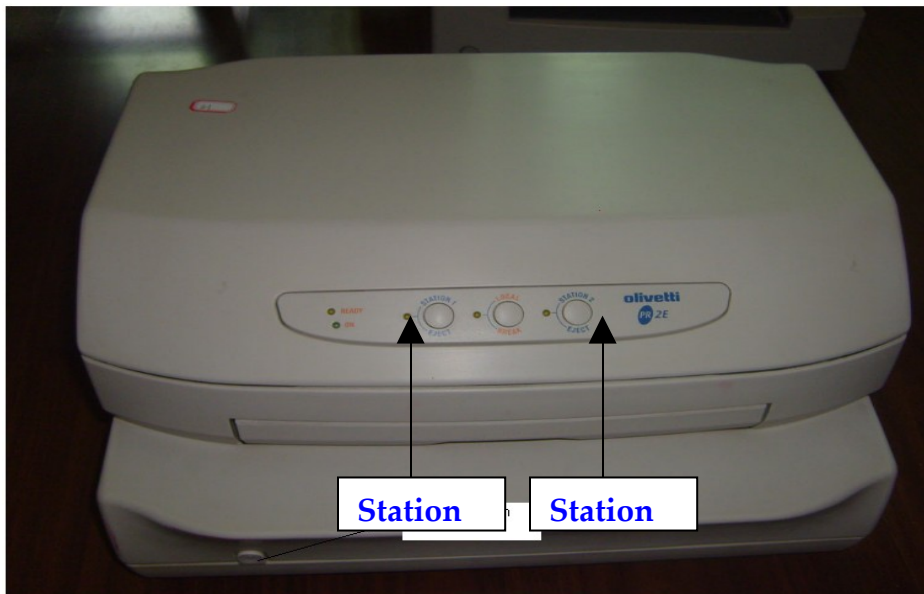


Image7: Olivetti printer with front panel closed.

Step 7: If you have selected to correct vertical calibration by pressing **station 1** button please wait for 10 sec.

Step 8: You can adjust the print start position up by pressing **station 1** or You can adjust the print start position down by pressing **station 2** buttons respectively.

Note: It has been observed that continuously pressing **station 1** or **station 2** button 5-times shifts the print start position 1 line up or down respectively.

Step 9: Insert blank sheet of A4 size paper in printer. In case of vertical position setting change, printer will print character “H” On top of papers this will become the print start position (Top).

Step 10: If resultant calibration is not acceptable then go back to **Step8**.

Step 11: After successfully achieving the desired top print start positions press the **local** button to confirm/save the settings. Now switch off the printer and switch it ON. And confirm the changes in printer calibration by giving print by TestPrint utility (To print through TestPrint utility double click on the desktop icon “TestPrint”).

For Horizontal Calibration:

Step 12: Now press button **station-2** once for **horizontal** alignment correction.

Step 13: If you have selected to correct horizontal calibration by pressing **station-2** button please wait for 10 sec.

Step 14: You can adjust the print start position left by pressing **station 1** or You can adjust the print start position right by pressing **station 2** buttons respectively.

Note: It has been observed that continuously pressing **station 1** or **station 2** button 5-times shifts the print start position one char left or one char right respectively.

Step 15: Insert blank sheet of A4 size paper in printer. In case of horizontal position setting change, printer will print character “H” along with a horizontal line starting with the left print start position of the printer. This will become the print start position (left).

Step 16: If resultant calibration is not acceptable then go back to **Step14**.

Step 17: After successfully achieving the desired left print start positions press the **local** button to confirm/save the settings. Now switch off the printer and switch it ON. And confirm the changes in printer calibration by giving print by TestPrint utility (To print through TestPrint utility double click on the desktop icon “TestPrint”).

Epson Printer :

How to get existing printer settings on paper?

- Turn off the printer.
- Press & hold **F1** & **F2** turn on the printer.
- Release **F1** and **F2** when printer gets initialized properly.
- Press **F2** and insert a paper into printer it will print a line at bottom.
- Again press **F2** it will print existing settings of Epson printer.

Pin test:

1 2 3 4 5 6 7 8 9 0 1 1 1 1 1 1 1 1 1 2 2 2 2 2

1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9 0 1 2 3 4

**** Settings Menu ****

<Common Settings>

High speed draft:

I/F mode:

Auto I/F wait time(seconds):

Parallel I/F bidirectional mode:

Packet mode:

Baud rate(BPS):

Data length(bit):

Parity:

Passbook:

Binding:

Thin paper:

Buzzer:

Paper width measurement:

Right paper edge detection:

Low-noise mode:

Broken pin compensation:

Broken pin number:

Roll paper:

Rear Paper Guide:

<Other Emulation Settings>

Software:

Print direction:

0 slash:

Font:

Pitch(cpi):

Character table:

International character set for Italic table:

Auto line feed:

Auto CR(IBM PPDS):

A.G.M.(IBM PPDS):

IBM character table(IBM PPDS):

Columns:

Paper loading:

**** Options ****

Off On

Auto Parallel Serial USB

10 30

Off On

Auto Off

19200 9600 4800 2400 1200 600 300

8 7

None Odd Even Epson Printer Standard Settings.

Off On

Horizontal Vertical

Off On

Off On

After loading Before printing

Off On

Off On

Off On

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

17 18 19 20 21 22 23 24

Off On

Off On

PR2 ESC/P 2 IBM PPDS ESC/P 2+ESC/MC

Bi-D Uni-D Auto

0 0

Draft Roman Sans Serif Courier Prestige Script

OCR-B Orator Orator-S Script C Roman T(PS)

Sans Serif H(PS)

10 12 15 17.1 20 Proportional

Italic PC 437 PC 850 PC 860 PC 863 PC 865 PC 861

BRASCII Abicomp Roman 8 ISO Latin 1 PC 858

ISO 8859-15

Italic U.S.A. Italic France Italic Germany

Italic U.K. Italic Denmark 1 Italic Sweden

Italic Italy Italic Spain 1

Off On

Off On

Off On

Table 2 Table 1

80 90 94

Auto load Data exists

Image 8: Epson printer standard settings .

To adjust the printing start position, follow these steps.

To adjust the printing start position, follow these steps.

- : Light on
- : Light off
- ◐ : Light flashing
- ◑ : Light 2-flashing

● ● ○ Current starting position

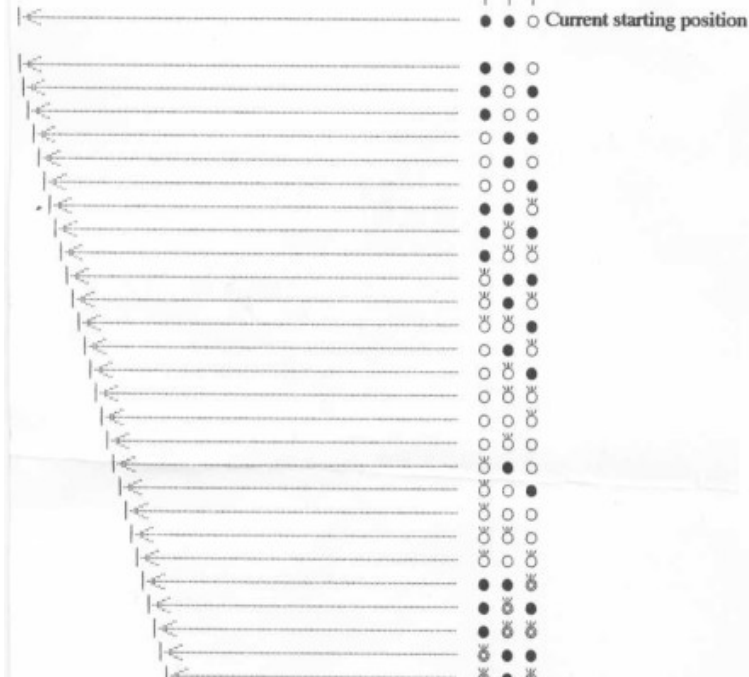


Image9: Epson printer standard settings for proper horizontal calibration.

Epson Printer Vertical Position Adjustment:

Step 1: Turn OFF the printer.

Step 2: Press and hold **F2** button.

Step 3: Turn ON Printer, and release **F2** button after you notice a beep sound and all 3 printer LED's (**F1, Offline, and F2**) starts blinking.

Step 4: Press **Offline** Button ones, after all LED's **F1, Offline, F2** are turned on.

Step 5: Insert a blank paper into printer; it will print the string "**HHH**" to represent current vertical position.

Step 6: Press **F1** button **10** times to move string **HHH** to upward position and to shift printer start position downward press **F2** button 10 times.

Step 7: Insert the paper to check the new printer start position. If the printer calibration is not acceptable then go back to **Step 6**.

Step 8: Switch off the printer and restart it now changed settings are applied to the printer.

Epson Printer Horizontal Position Adjustment:

Step 1: Turn off the printer.

Step 2: Press and hold **F2** printer button.

Step 3: Turn **ON** Printer, and release **F2** button after you notice a beep sound and all 3 printer LED's (**F1, Offline, and F2**) starts blinking.

Step 4: Press **F2** printer button once.

Step 5: Insert a blank sheet of paper into the printer.
It will print horizontal positioning in details.

Step 6: To make printer horizontal calibration proper set the LED status as follows by randomly pressing the buttons **F1, F2 and Offline**.

F1	OFF
Offline	OFF
F2	ON

This combination is essential for proper horizontal calibration of printer.

Step 6: Switch off the printer to save the settings.

Step 7: To verify the horizontal printer calibration follow steps 1 to 5 again.
The output print is expected as shown in image 7 above.

Wincor Printer:

How to Check Existing Settings?

Step 1: Turn off the printer.

Step 2: Press and hold **Eject Key** and turn on the printer.

Step 3: Insert a blank A4 size paper into printer and release **Eject** button it will print current printer settings.

For Wincor passbook printer proper calibration can be obtained by configuring the standard printer settings.

Printer

Options:

030509 1030 4915_STD.MOD 990519 1000 CP15_437.FNT
 990330 1001 BOOTPROM.FRM

Fonts:

DQ	DQ/ISO 8859	Roman
Roman/ISO 8859	Sans Serif	Sans/ISO 8859
OCRA	OCRB	

INTERFACE

Type	aan. selection
Baudrate	9600
Databits	8
Stopbits	1
Parity	off
Protocol	DTR
Centronics	ECP

EMULATION

Emul. type 1	Proprietary XL24
Top of form pos.	13/60
Typeface	Data Quality
Char.-density	Proportional
Char.-width	Normal width
Country	U.S.A.
CR	CR = CR
LF	LF = LF
left edge	0
Ref. Edge	left
Feeder	off
Multi part	off
Emul. type 2	IBM 4722
Continuous print	off
Low Noise	off

SERVICE

Alignment	0
Adjust vertical	9
Adjust horizont.	0
Feed mode	normal
Interface Menu	on
Emulation Menu	on
Memory extension	off
SCS	0

PROPRIETARY XL24

Top of form pos.	2/60
Typeface	Data Quality
Char.-density	12 CPI
CR	CR = CR
LF	LF = LF
left edge	1/60
bottom edge	0/60
page length	A4
line length	80

Wincor Printer Standard Settings.

Electronic Printhead

2
0

1
24

123456789101112131415161718192021222324

Page counter

5254

Image 10: Wincor printer standard settings for proper calibration.

How to Change Existing Settings of Wincor Printer as shown below

1	The steps to be followed to do the setup in WINCORE Passbook Printer		
2			
3	Sno	Action Required to be done	Display Message on Passbook Printer Screen
4	1	Start Printer by Holding VALID key	ONLINE No Paper
5	2	Insert A4 Size Paper in Passbook Printer	ONLINE Paper
6	3	Press STOP key	STOP Paper
7	4	Press USER1 Key to enter into ' Menu-Service ' menu	MENU Service
8	5	Press VALID key to enter into ' Service-Test ' menu	SERVICE Test
9	6	Press USER2 to enter in ' Service Alignment ' menu	SERVICE <u>Alignment</u>
10	7	Press VALID key to enter into Service <u>alignment</u> Menu	ALIGNMENT <Present Value>
11	8	Press USER1 to decrease or USER2 to increase existing values The required Value is -1	ALIGNMENT -1
12	9	Press VALID key to save the settings	ALIGNMENT Accepted
13	10	Press STOP key to go back to Service <u>Alignment</u> Menu	SERVICE <u>Alignment</u>
14	11	Press USER2 to enter into ' Service Adjust Vertical ' Menu	SERVICE Adjust Vertical
15	12	Press VALID key to enter into selected menu The current Values will be displayed on screen	ADJUST VERTICAL <Presnt Value>
16	13	Press USER1 to decrease or USER2 to increase existing values The required Value is -7	ADJUST VERTICAL -7

Image 11 : Steps to change Settings.

17	14	Press VALID to save the changes	ADJUST VERTICAL Accepted
18	15	Press STOP key to go back to Service Adjust <u>Certical Menu</u>	SERVICE Adjust Vertical
19	16	Press USER 2 to enter into ' Service Adjust Horizontal Pos ' menu	SERVICE Adjust Horizontal <u>Pos</u>
20	17	Press VALID key to see present values	ADJUST HORI < <u>Presnt Value</u> >
21	18	Press USER1 to decrease or USER2 to increase existing values The required Value is -5	ADJUST HORI -5
22	19	Press VALID to save the settings	ADJUST HORI Accepted
23	20	Press STOP key twice	MENU Service
24	21	Press USER2 twice to enter Emulation Menu	MENU Emulation Type1
25	22	Press VALID key Present values will be displayed on screen	EMULATION TYPE1 <Present Value>
26	23	Press USER1 to decrease or USER2 to increase existing values The required Value is <u>Proprinter XL24</u>	EMULATION TYPE1 <u>Proprinter XL24</u>
27	24	Press VALID key to save the settings	EMULATION TYPE1 Accepted
28	25	Press STOP key	MENU Emulation Type1
29	26	Press USER 2 to enter into ' EMULATION-Top of Form Pos ' menu	EMULATION Top of Form <u>Pos</u>
30	27	Press VALID to enter into menu	TOP of FORM POS <Present Value>
31	28	Press USER1 to decrease or USER2 to increase existing values The required Value is 10/60	TOP of FORM POS 10/60

Image 12 : Steps to change Settings.

	A	B	C
32	29	Press VALID key to save the settings	TOP of FORM POS Accepted
33	30	Press STOP key	EMULATION Top of Form <u>Pos</u>
34	31	Press USER2 7 times	EMULATION Left Edge
35	32	Press VALID to view existing values	LEFT EDGE <Existing Value>
36	33	Press USER1 to decrease or USER2 to increase existing values The required Value is 0	LEFT EDGE 0
37	34	Press VALID key to save the settings	LEFT EDGE Accepted
38	35	Press STOP key	EMULATION Left Edge
39	36	Press STOP key	MENU Emulation
40	37	Press USER2	MENU <u>Proprinter</u> XL24
41	38	Press VALID key to enter into <u>Proprinter</u> menu	PROPRINTER XL24 Top of Form <u>Pos</u>
42	39	Press VALID to see existing values	TOP OF FORM POS <Existing Value>
43	40	Press USER1 to decrease or USER2 to increase existing values The required Value is 10/60	TOP OF FORM POS 10/60
44	41	Press VALID key to save the settings	TOP OF FORM POS Accepted
45	42	Press STOP key	PROPRINTER XL24 Top of Form <u>Pos</u>
46	43	Press USER2 5 times	PROPRINTER XL24 Left Edge

Image 13 : Steps to change Settings.

Note: We have tested and found proper calibration of Wincor printer with the settings shown in image 10. In case proper calibration is not obtained even after applying given settings, you can adjust it by altering **Service tab** settings, namely: **Alignment, Vertical Alignment and Horizontal Alignment.**