

PP5600 SERIES POS PRINTER USER'S MANUAL

Rev.: Original





Do not connect cables in ways other than those mentioned in this manual. Different connections may cause equipment damage and burning.

Never attempt to repair this product yourself. Improper repair work can be dangerous.



Federal Communications Commission Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

For compliance with Federal Noise Interference Standard, this equipment requires a shielded cable.

This statement will be applied only for the printers marketed in U.S.A.

CE manufacturer's Declaration of Conformity (EC Council Directive 89/336/EEC of 3 May 1989)

This product has been designed and manufactured in accordance with the International Standards EN50081-1/01.92 and EN50082-1/01.92 following the provisions of the Electro Magnetic Compatibility Directive of the European Communities as of May 1989

Warranty Limits

Warranty will terminate automatically when the machine is opened by any person other than the authorized technicians. The user should consult his/her dealer for the problem happened. Warranty voids if the user does not follow the instructions in application of this merchandise. The manufacturer is by no means responsible for any damage or hazard caused by improper application.

About This Manual

This manual is aimed to assist the user to utilize the PP5600 series which is a series of POS printers delicately designed to work with either serial or parallel interface connection. This manual covers both operational and technical aspects.

The manufacturer of the PP5600 series heartily apologizes to the user for reserving the right to change or to modify this manual without notice due to the rapid and constant progress and improvement on science and technology. The user may always obtain the most up to date information through our web site: http://www.posiflextw.com, http://www.posiflextw.com, http://www.posiflextw.com,

© Copyright Mustek Corp. 2003

All rights are strictly reserved. No part of this documentation may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical, photocopying, or otherwise, without the prior written consent of Mustek Corp. the publisher of this documentation.

((

P/N: 19380900010



Table Of Contents

BEFORE STARTED	1
CONGRATULATION1	1
PRODUCT BRIEFING1	1
Descriptions	1
Features1	2
MODELS	3
UNPACKING	3
OPTIONS1	4
IMPORTANT TIPS1	5
MAIN PARTS ON THE EXTERIOR1	6
INDICATORS1	7
QUICK START-UP2	1
CONNECTING CABLES	1
Serial connection	1 1
Parallel connection	1 1
	1 1
Peripheral connection	1 2
LOADING / REPLACING RIBBON CASSETTE.	_
2	
LOADING PAPER	<i>2</i>
	5
SELF TEST	_
	0 6
Paper near end sensor	•
DIP switch setting	6
MAINTENANCE GUIDES3	1
MAINTENANCE GUIDE LINES3	1
GENERAL CLEANING	1
TROUBLE SHOOTING	1
General problems3	1



Printing problems3	2
Paper jam problems	3
Auto cutter problems3	3
SPECIFICATIONS4	1
PRINTER4	1
PAPER	1
RIBBON CASSETTE4	2
POWER ADAPTOR 4	2



I. BEFORE STARTED

A. CONGRATULATION

You have made a very wise decision by purchasing the easy loading; high performance; high reliability 9 pin dot matrix impact printer Aura PP5600 series of Posiflex products. This series of printers has been elegantly designed for a Point-Of-Sale, kitchen & kiosk application. The manufacturer of this printer not only wishes to take this opportunity to congratulate your smart investment on buying this printer but also likes to express the wishes for your prosperous future by using it.

B. PRODUCT BRIEFING

1. DESCRIPTIONS

The Aura PP5600 series printer is a stream-lined low profile 40 column 9 pin dot matrix easy loading impact printer designed to fit the Posiflex POS system perfectly well and also for other POS printing applications. The Aura PP5600 series printer serves the stand-alone desktop application. The print mechanism applied in this printer series is remarkably reliable.

The Aura PP5600 series utilizes friction type paper feed mechanism and supports two types of interface input in one machine through automatic detection on which type of cable connected. The interfaces are RS232 for serial interface and Centronics mode for parallel interface. Cabinet color is selectable between beige and charcoal.

The Aura PP5600 supports an optional guillotine type auto cutter for paper partial cut and a standard manual cut mechanism.



It even supports some enhancement capability for reminder function to persons around. It can be used to drive a separately purchased **kitchen bell** for such reminder function in noisy environment. This printer also supports application in different countries of various kinds of power systems by changing the power cord to the power adaptor.

2. Features

- Dot matrix 9 pin printer head
- Bi-directional printing with logic seeking
- Friction type paper feed
- 40 columns for 16.9 CPI
- Print on ordinary paper or up to 3-fold non-carbon copy paper
- DC 24V powered
- Selectable parallel or serial (RS232C) interface by autodetection on cable change
- 5 character code pages for code range 80h to FFh supported: USA & Europe PC437, PC850, PC860, PC863, PC865
- 15 international character sets of a dozen characters each within code range 20h to 7Fh supported: USA, France, Germany, England, Denmark, Sweden, Italy, Spain, Japan, Norway, Denmark II, Spain II, Latin America, Korea, Croatia
- Versatile print function as emphasized printing and underlining set by software print commands
- About 20KB input buffer available enabling simultaneous printing and data receiving



- Supports Posiflex kitchen bell drive when used as kitchen printer
- Hardware hand shaking in serial interface through DIP switch selection
- Manual paper cut mechanism for PP5600D or guillotine type auto cutter plus manual cut mechanism for PP5600B
- Supports ESC command
- Dimension: 228 mm (l) x 158 mm (w) x 140 mm (h)

c. MODELS

PP5600D – with manual cutter PP5600B – with auto cutter

D. UNPACKING

Followings are items you may find when you carefully unpack the carton that delivers Aura PP5600 series printer. If there is any discrepancy or problem, contact your dealer immediately. Be sure to save the packing materials in case the printer needs to be shipped at some point in the future.

- ① The printer itself.
- ② Test paper roll 76 mm in width.
- 3 Ribbon cartridge
- ④ One of the interface cables:
 - a Serial cable with 9 pin D sub Female to 9 pin D sub Male connectors
 - b Parallel cable with 25 pin D sub Male to 25 pin D sub Female connectors



Length of the interface cable depends on whether the order includes the power adaptor. When power adaptor is included, the interface cable is 6 ft long for stand alone application. When the power adaptor is not included in the order, the interface cable is a shorter one for integrated application in Posifle x POS system.

- ⑤ One of the power sources:
 - a Power adaptor + power cord (depend on country type ordered).
 - b Power supply cable (when no power adaptor ordered)

This printer power supply cable is used to supply power to the printer from the PB or PST series of Posiflex POS system.

⑥ This User's Manual

E. OPTIONS

The underlined items below must be well defined in order, they can not be field added or changed.

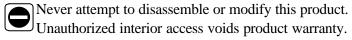
- Paper near end sensor
- Special language selection
- Case color option
- Inked ribbon cartridge
- Kitchen bell

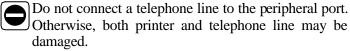


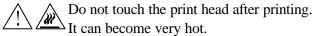
F. IMPORTANT TIPS

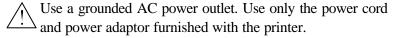
Place the printer on a sturdy, level surface.
Choose a place that is well ventilated and f

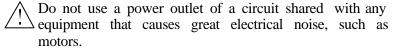
Choose a place that is well ventilated and free from direct sunshine and excessive heat, dust, smoke or fume.

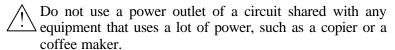


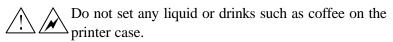


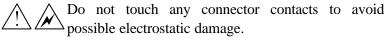








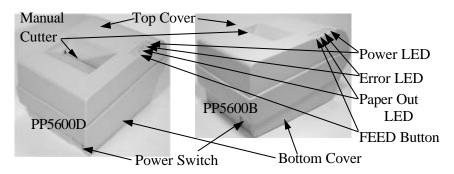


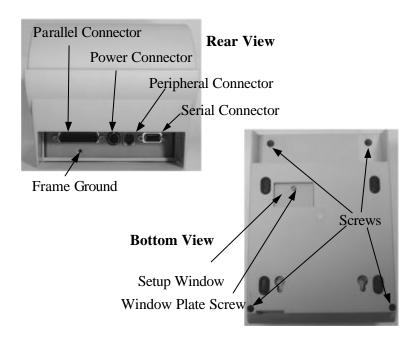


Ideal room temperature is from 5°C to 40°C. Ideal humidity is from 20% to 85% RH (no condensation).

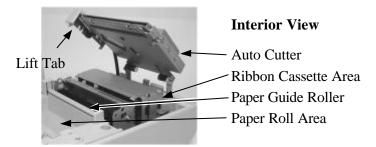


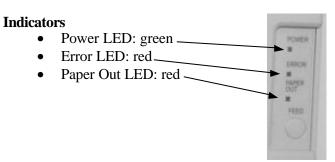
G. MAIN PARTS ON THE EXTERIOR















II. QUICK START-UP

A. CONNECTING CABLES



1. Serial connection

All the external connectors are in the recessed area at the rear bottom. The serial connector is a 9 pin D sub Female connector at the right in the picture above. Apply the male connector of RS232 cable to this port for serial application. Please note that when serial connection is used, there must be no cable connection at the parallel port on the printer. The default protocol used in serial connection is 9600 bps, none parity check, 8 data bits, 1 stop bit.

2. Parallel connection

The parallel connector is a 25 pin D sub Male connector at the leftmost location in the connector area. Apply the female end of the parallel cable at this port for parallel application. Please note that when parallel connection is used, there must be no cable connection at the serial port on the printer.

3. Peripheral connection

The peripheral controller is a RJ11 jack near the serial connector. With use of Posiflex cash drawer cable 20863018001 (CCBLA-180-1), this port can control a Posiflex cash drawer CR3100 or CR3200 or CR4000 or CR4100. If a Posiflex special split cable 20867023800 (CCBLA-238) is used instead, this port can control two cash drawers of above models.



When the printer is used as a kitchen printer, please use this port for kitchen bell connection instead.

4. Power connection

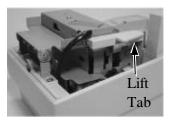
The power connector is a 3 pin jack between the peripheral connector and the parallel connector. Either a Posiflex supplied power adaptor or a printer power cable from a Posiflex POS system can be connected to this connector to supply power for this printer. During insertion of the power plug, be sure to hear the click to obtain a firm contact.

CAUTION: Before doing the insertion or extraction of the power plug, be sure to pull the outer sleeve of the plug backward to release the internal latch. Failure to do this could damage the power plug. Such damage is considered as an artificial destruction and is not covered by the warranty.

When all the above cable connections are made correctly, you may connect your power adaptor to the wall outlet. Make sure that the type of power cord and the voltage requirement of the power adaptor meet the local power conditions. Do not turn the power on for the moment.

B. LOADING / REPLACING RIBBON CASSETTE

- Turn off the power to the printer.
- Lift the front end of the top cover to remove it.
- Open the auto cutter by pulling the tab up if it is installed in the printer. (PP5600B)
- Remove slack in the ribbon by





turning the ribbon feed knob of the ribbon cartridge counterclockwise. The ribbon must be properly tightened to be able to set in position in installation. Never turn the knob the other way round or the ribbon may mess up inside the cassette and ruin the whole cassette.

 If in process of replacing the ribbon cassette, the cassette shall be removed in the manner that the side of the knob is pulled up first with the end of the holding tab remain held down.

Place the ribbon cartridge in position as shown in the picture. Seat the side with the holding tab first then press down the whole cassette. Rotate the ribbon feed knob counterclockwise during the action pressing down the ribbon cartridge into position to help the installation operation if necessary.

• Turn the knob counterclockwise to remove slack in

ribbon for use.

 Apply even force to close the auto cutter (PP5600B) so that the small lug of auto cutter can seat in right position on the



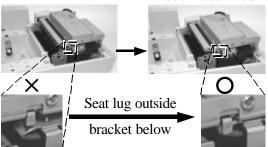
Pressing this end



Pull up this end to remove

Seat this end first

Ribbon feed knob



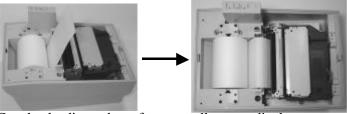


bracket of the print mechanism as in the picture.

• Close the top cover by fitting its rear end lug first for ribbon replacement only or go on loading paper as in next paragraph.

C. LOADING PAPER

1. Drop the paper roll inside the paper compartment in the orientation as shown in left picture below.



2. Cut the leading edge of paper roll perpendicular to paper direction and now please turn on the power to the printer by pressing the

power button in front side of the printer. Insert the leading end of the paper roll into the paper intake slot on print mechanism. Insert the paper till you feel the front end caught by the



paper feed roller inside the print mechanism then the paper will automatically advance to proper position (paper exit of print mechanism). In case there was a slip at the insertion of the leading end of paper roll and you want to keep same heading clearance, you may press the FEED button to advance the paper to position.

3. Close the top cover back. Should the front end of paper roll tend to curl as when it comes near end of the paper roll, it is advisable to press the FEED button to check if the paper comes out of the slot in top cover. Engage manual support to make sure it comes out if it fails.



D. SELF TEST

Press and hold down feed the button while turning on the power. The printer will then perform a self test and print out some major settings detected. You may turn off the power and turn it on again to resume normal use of the printer at this stage. You may also press the feed button at this moment to have the printer further print out some basic font used and a special pattern to have the self test proceedings completed. A sample slip of whole self test result is printed here for reference. Please note that both serial and parallel interfaces indicated. are That means the printer is working on an auto-sensing and auto-select algorithm. The pattern of long vertical lines at bottom of the slip is an indicator for adjustment on so-called bi-directional printing offset.

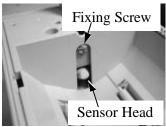
PP-5600 P.O.S. PRINTER POSIFLEX Version 1.2 JULY 3rd 2003 ESC COMMAND EMULATION With Alphanumeric Font Interface : Auto detect Parallel / Serial Protocol : 9600 M 8.1 Handshaking: DTR / DGR BUSY on : OFF LINE or BUFFER FULL Characters Per Line: 40 / 33 CPL Buffer Capacity : 20 KBytes Press FEED button to print funts and offset !"H#X8"()*+,-./0123456787::(=>?@ABCDEFG HIJKLKHUPGRSTUVWXYZ[\]^_'abcdefighijklano pgrstuvwcyz{|}" Çüéübbäg8eéiiiAkéxébbéûû youtethfaidowasserndaino 编码衬有品的银油品。 @BR6ed6Dat25fj:=***.fma. TEST DUP SM. SI DEFSET SETTING 928 END OF SELF-TEST 828



E. SPECIAL ADJUSTMENTS

1. Paper near end sensor

If the paper near end sensor is installed in the printer and enabled, a fine tuning on the position of the paper near end sensor may be required for different outer diameter of the paper roll bobbin. Please refer to the picture at right from inside the paper roll compartment that there are



a fixing screw and a sensor head in the wall. Slightly release the fixing screw using a blade screw driver or suitable coin to adjust the position of sensor head. For smaller roll diameter, the sensor head should go lower.

2. DIP switch setting

In setup window on bottom plate of the printer there are 2 DIP switches. The 4 position switch at the right is coded S1 and controls bi-directional print offset. The 8 position switch at the left is coded S2 for gar



position switch at the left is coded S2 for general printer settings.

a.Bi-directional printing offset - S1

Pos. 1	Off	On	Off	On												
Pos. 2	Off	Off	On	On	Off	Off	On	On	Off	Off	On	On	Off	Off	On	On
Pos. 3	Off	Off	Off	Off	On	On	On	On	Off	Off	Off	Off	On	On	On	On
Pos. 4	Off	On	On													
Value	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

The offset values in above table are in unit of half dot.

The bi-directional printing offset actually is well adjusted and requires no further action when a new printer is received. However, after long period of usage some internal mechanical



clearance will vary. This clearance can be observed from the offset pattern printed in bottom of self test.

Whenever the lower part of the long vertical lines is shifted horizontally away from the upper part by about one dot width, the offset value should be adjusted to move it back for decent print if bi-directional print is engaged. Increasing the offset value by changing the S1 setting can move the lower part to right and decreasing the value moves the lower part to left.

b.Printer general setting – S2

Switch		ON	OFF
2-1	Hand shaking mode	X-ON/X-OFF	DTR/DSR
2-2	Data bit	7-bit data	8-bit data
2-3	Parity check	Parity check	No parity check
2-4	Parity selection	Even parity	Odd parity
2-5	Baud rate (bps)	4800	9600
2-6	Busy on	Buffer full	Off line or Buffer full
2-7	Column spacing (columns per line)	2 half dots (42 / 35)	3 half dots (40 / 33)
2-8	Print direction	Uni-direction	Bi-direction

Positions 1 to 6 of the S2 switch define the communication protocol and handshaking criteria in RS232 interface. They will present no influence if parallel interface is used.

Position 7 of S2 alters the horizontal spacing between characters to get different print density on same font format.

Position 8 of S2 determines whether to print only in one direction of print head operation or in both directions.

All positions of S2 default to OFF when printer delivered.





III. MAINTENANCE GUIDES

A. MAINTENANCE GUIDE LINES

Always turn off and disconnect power before start.

Please pay attention not to be hurt by any sharp ed

Please pay attention not to be hurt by any sharp edge of the metal parts when handling the interior of the printer.



Do not touch the print head and motor after printing. It can become very hot.

Never use benzene, benzine, thinner, trichloroethylene alcohol, or ketone based solvents on the printer's plastic and rubber components.

B. GENERAL CLEANING

Please use a soft hair brush or compressed air to clear away any dust or paper scraps accumulation inside the printer. Check also the area of the auto-cutter regularly.

C. TROUBLE SHOOTING

This section gives solutions to some printer problems you may have.

1. General Problems

No LED lights up on control panel when switched on—Make sure that the power supply cables are correctly plugged into the printer, the power adaptor and to the power outlet. Make sure that power is supplied to the power outlet. If the power outlet is controlled by a switch or timer, try use another outlet.



2. Printing Problems

Nothing can be printed with ERROR LED ON – Check the Paper Out LED. If it is ON, most probably the paper roll is not installed or is at or near the end. Install a new paper roll. If the Paper Out LED is OFF, please check for paper jam described in next item.

If there is no paper jam and the printer has been printing for quite a period of time, the print head may be overheated. It will usually cool back in few minutes and the printing will resume.

If there is no paper jam and the print head is not overheated, turn off the printer and wait for half a minute then turn it back on. If the problem still remains, contact a qualified service person.

Nothing can be printed with ERROR LED OFF – Try to run self test according to previous chapter to check if the printer itself works properly. If the self test passes, check the following:

- a. Check the connection of the interface cable at both the printer and computer ends. Also make sure that this cable meets the specification required for both the printer and the computer and also the settings by software.
- b. Check the printer data communication settings against the computer. The printer settings can be found easily on the self test print out.

If the problem remains or the self test fails, contact your dealer or a qualified service person.

Poor printing quality – Contaminants like paper scraps and dusts on the print head or near worn out inked ribbon can lower the print quality drastically. Clean the print head replace the ribbon cassette as required.



3. Paper Jam Problems

Paper is jammed inside the printer – Please follow procedures below.



Do not touch the print head and motor after printing.

It can become very hot.

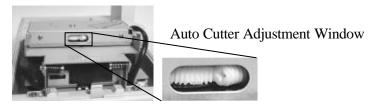
- Turn off the printer.
- Open the top cover after the print head cools down.
- Cut the paper roll from the paper intake slot with a pair of scissors.
- Open the auto cutter by pulling the tab up if it is installed in the printer. (PP5600B)
- Turn the printer power back to on.
- Press the FEED switch to forward the paper out of the paper guide. Engage mechanical help like tweezers or manual pull if necessary.
- Clean the paper path when necessary.
- Reload the paper as instructed in "LOADING PAPER".

If the auto cutter is jammed, you may have difficulty opening the auto cutter. Please first resolve the auto cutter problems per description in next item and then come back to deal with the paper jam. Please also clear away any contaminants accumulated in the cutter track.

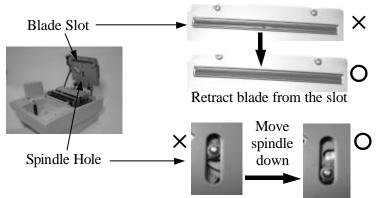
4. Auto Cutter Problems

If any materials like a staple or paper clip or excessive paper scraps fall into the auto cutter unit, the auto cutter could get stuck. In such case, please open the top cover and find adjustment window in the auto cutter as shown in the picture on top of following page. Please apply a small cross head screw driver to turn the plastic screw in the window and to move the cutter blade along the track and reset it to home position.





To check for home position of the auto cutter, please open the auto cutter and look into the blade slot and the spindle hole as in pictures below. Use proper tool to cut away the paper around auto cutter if it presents obstacle to the actions. Clear away any paper scraps from the auto cutter once it is reset to position.



In case it is the auto cutter that fails to respond to the paper cut command, please contact your dealer or a qualified service person. However, please use manual cutter as a temporary alternative measure before this problem is remedied.



IV. SPECIFICATIONS

A. PRINTER

ITEM	SPECIFICATION
Printing method	Dot matrix impact method
Print head configuration	9 pins
Printing direction	Bi-directional; logic seeking
Effective printing width	59.85 mm
Printing speed (max.)	4.0 lines / sec @ 42 columns
Paper feed method	Friction auto-feed
Paper load method	Drop and auto paper feed
Manual cutter	Saw tooth blade
Auto-cutter capability	Partial cut (1 point at center left)
Dot Pitch	0.30 (H) x 0.353 (V) mm
Paper feed pitch (min.)	0.176 mm (1/144 inches)
Paper feed holding force	Min. 8 N (816 gf)
Paper feed speed (max.)	140 mm / sec
Input power type	DC
Input voltage	24 V + / - 5 %
Power consumption	43 W @ printing
Dimension (mm)	228 (D) x 158 (W) x 140 (H)
Weight	1.6 Kg net (1.9 Kg w/ auto cutter)

B. PAPER

Paper type	1 ply regular roll paper up to 3 ply non-carbon copy roll paper
Paper width	76 + 0 / - 0.5 mm
Paper roll outer diameter	82 mm max.
Paper roll inner diameter	12 + 1 / - 0 mm
Paper thickness	70 ~ 100 um for 1 ply, 60 ~ 80 um for 3 plies



C. RIBBON CASSETTE

ITEM	REQUIREMENT
RECOMMENDED TYPE	RC200P
COLOR	Purple
RIBBON MATERIAL	Nylon 66
RIBBON WIDTH	13 mm
CASSETTE DIMENSION	144.4 (W) x 65 (D) x 26.7 (H) mm
EXPECTED LIFE	3 million characters

D. POWER ADAPTOR

ITEM	REQUIREMENT
INPUT VOLTAGE	100 V AC ~ 250 V AC
INPUT FREQUENCY	50 ~ 60 HZ
INPUT CURRENT	1.5 A MAX. @ 115 V AC
OUTPUT VOLTAGE	+ 24 V DC
OUTPUT POWER	52 W MAX.
STATIC LOAD	0 A ~ 2.2 A
OUTPUT REGULATION	+ / - 5 %
VPP RIPPLE & NOISE	240 mV
MTBF	30,000 HRS
EMI STANDARDS	VDE – B, FCC – B, VCCI – B

Free Manuals Download Website

http://myh66.com

http://usermanuals.us

http://www.somanuals.com

http://www.4manuals.cc

http://www.manual-lib.com

http://www.404manual.com

http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com