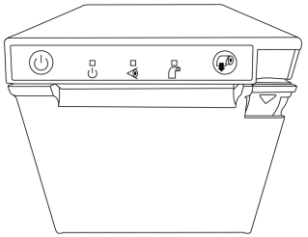
PP-7600X
POS Printer
User Manual



Package Contents

- ✓ PP-7600X Thermal Printer……...(x1)
- ✓ 80mm-wide Thermal Paper……..(x1)
  (For operational testing)
- ✓ 58mm Paper Spacer Plate……(x1)
- ✓ 24V/60W Power Adapter……(x1)
- ✓ Power Cord……...(x1)
- ✓ USB Cable……(x1)
- ✓ RS232 Cable (Optional)……...(x1)
- ✓ Soft Wiping Cloth……(x1)
  (For shinning case only)
- ✓ User Manual……..(x1)

Product Features

- 3" thermal printer with auto cutter
- Printing speed up to 200 mm/sec
- 80 mm or 58 mm paper width support
- Drop-and-load action for easy paper roll replacement
- Control over 2 cash drawers through 1 D.K port
- Interface: USB (True USB & Virtual COM selectable), Serial and Ethernet
- Paper near end sensor
- Optional LD-2100 light bar modular



To avoid paper jam occurring, do NOT press the printer's cover open lever or pull the printed paper during printing.

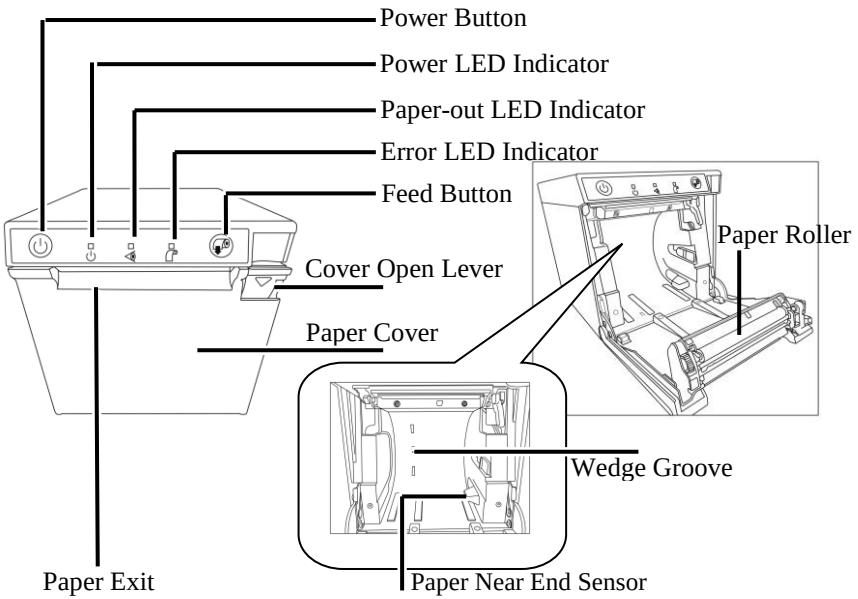


When a paper jam occurs, press the cover open lever to release the paper cover. Then, remove the jammed paper and reinstall the paper roll. Next, close the paper cover properly and firmly.

If the auto cutter is still jammed, the paper cover will be locked. Should the cutter jam be so serious to interfere the paper cover release operation, please push the paper cover back and press the cover open lever several times. If the problem cannot be solved none the less, please call your local service center for help right away.

Views of the PP-7600X

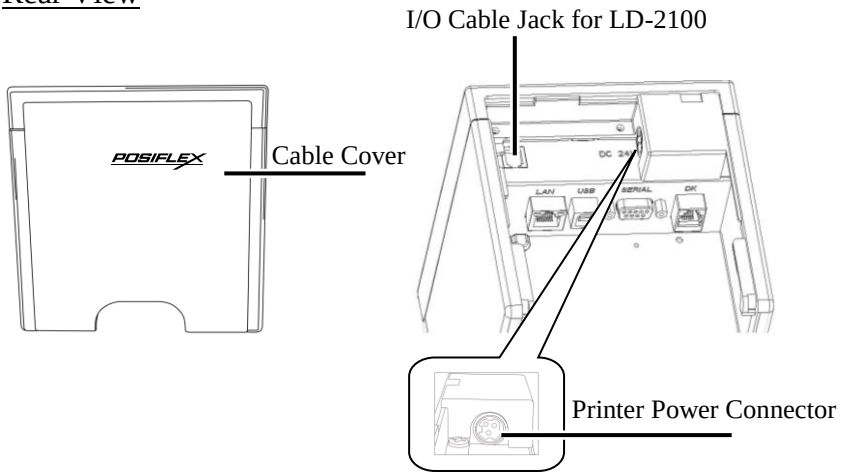
Front View



Part Names	Description
Power Button	This button turns the printer power on or off.
Power LED Indicator	This indicator turns on when the printer power is on.
Paper-out LED Indicator	This indicator turns on when the paper-out issue occurs.
Error LED Indicator	This indicator works when the printer has something wrong. For more details, refer to the Status LED Indicators section given below.
Feed Button	Press this button once to feed the paper roll for one line. Hold down this button to continue feeding the roll paper
Cover Open Lever	Push this lever to open the paper roll cover.
Paper Cover	Open this cover when installing or replacing the paper roll.
Paper Exit	An opening where the paper is outputted

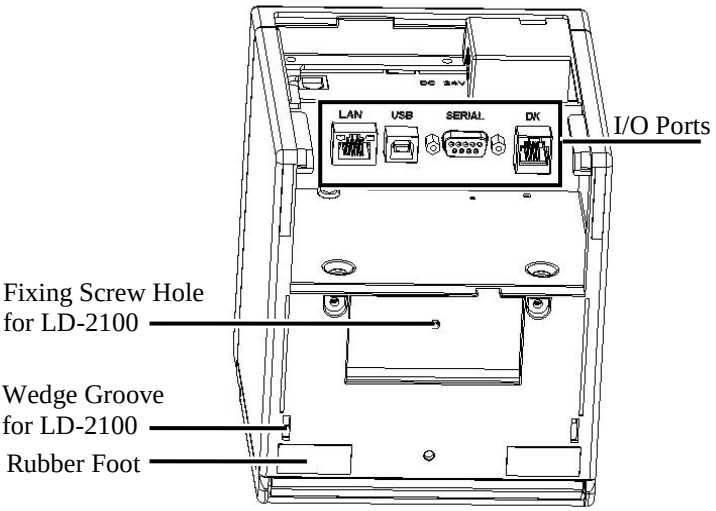
Part Names	Description
Wedge Groove	Aligns and fixes the paper spacer plate
Paper Near End Sensor	(Provided for adjusting the detection position to suit the diameter of the paper core used, and for adjusting the detection position of remaining amount of paper)

Rear View



Part Names	Description
I/O Cable Jack for LD-2100	Connects the I/O cable of LD-2100
Printer Power Connector	Connects the DC cable for the power adapter of PP-7600X

Bottom View

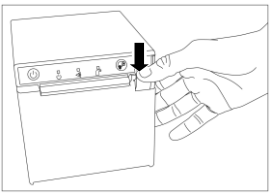


Part Names	Description
I/O Ports	LAN port connector (RJ45) USB connector (Type-B) Serial port connector (DB9) DK (Drawer Kick) connector (RJ10)
Fixing Screw Hole for LD-2100	Formed for fixing the optional LD-2100 light bar
Wedge Groove for LD-2100	Formed for fixing the optional LD-2100 light bar

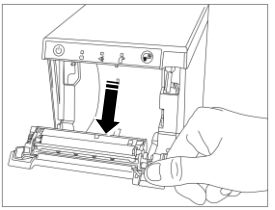
Loading a Paper Roll

Before loading a paper roll, make sure you use a specified paper type. Follow the steps below to load a paper roll.

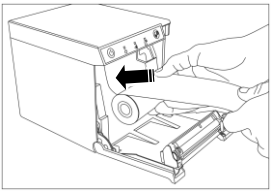
1. Press down the cover open lever to release the paper cover.



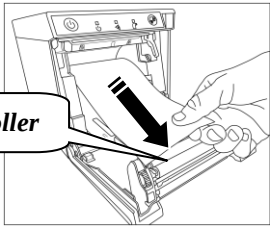
2. The paper cover ejects. Then, open the paper cover manually.



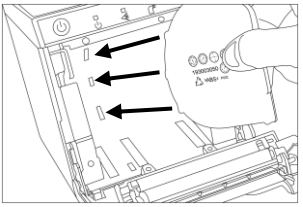
3. Drop the thermal paper inside the paper compartment of the printer, as shown in the right figure.



4. Drag the paper roll to the portion where the paper roller is installed.

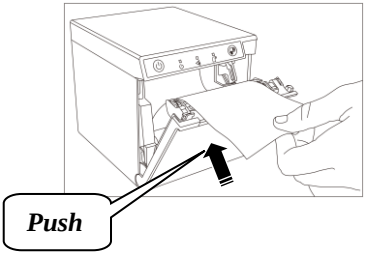


If you want to use a paper roll of 58mm width, install the spacer plate in the compartment of the printer, as shown in the right figure, and then load the paper roll of 58mm width into the partition at the right side of the plate.



Next, set the paper width by using the PP-7600X software switch utility. The software switch utility can be downloaded from the Posiflex' global website:
http://www.posiflex.com/en-global/Download/download. *To get more detailed information on the paper width jumper setting, contact directly the Posiflex' technical service team.*

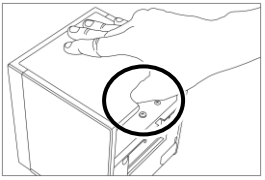
5. To avoid the paper cover not being locked completely, push the central portion of the paper cover to close.



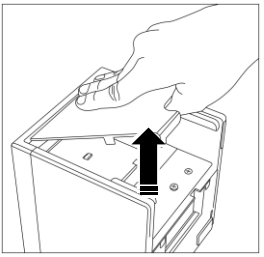
Connecting Power Adapter and I/O Cables

Follow the steps listed below to open the rear cover and connect cables.

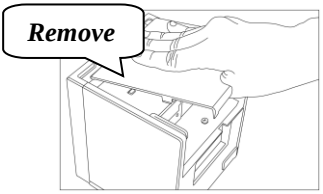
1. Hold the concave portion of the cable cover with thumb, as shown in the circled portion of the figure.



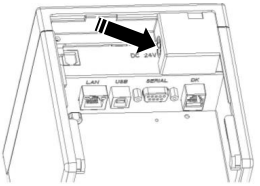
2. Pull the cover in the direction indicated by the arrow in the right figure.



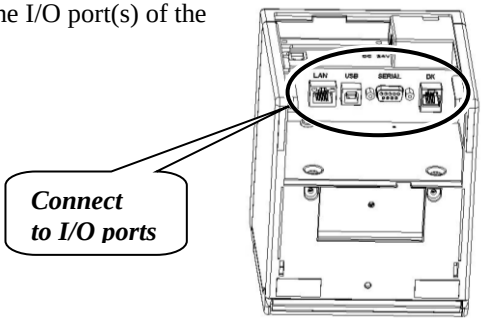
3. Remove the cable cover.



4. Connect power adapter to the printer power connector of the PP-7600X.



5. Connect I/O cable(s) to the I/O port(s) of the PP-7600X.

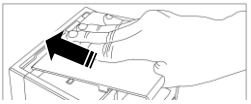


Please follow the instruction given below to connect I/O cables before powering on the printer.
Connect the POS printer with either a USB cable or a RS-232 cable to your POS terminal or with an Ethernet (LAN) cable to your networking device. After being powered ON, the POS printer will automatically detect its connected I/O port.

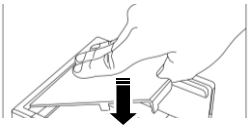
Reboot the printer if you change the interface cable of the printer.

To set up the Ethernet (LAN) port of the printer, connect the POS printer with a USB cable to your POS terminal and then set up the Ethernet (LAN) port of the printer by using the **Posiflex LAN Wi-Fi Printer Manager**. When completing in setting up the Ethernet (LAN) port, pull the USB cable out of the USB port of the printer and reboot the printer.

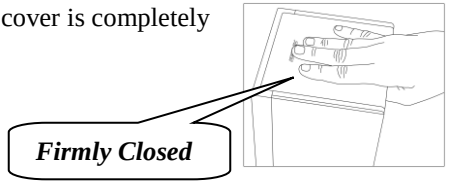
6. Make the cable cover wedge to the printer. Determine that the cable cover is well wedged to the printer.



7. Cover the I/O ports of the printer.



8. Determine that the cable cover is completely closed.



Setting up the Printer

The PP-7600X can be set through the specific software switch setting utility for setup of other functions. Please visit our web site http://www.posiflex.com/en-global/Download/download to download the **PP-7600X Thermal Printer Software Switch Utility for Windows.** Software switches are divided into **SW1, SW2**, **SW3, and SW4**. After downloading the utility, please call your service center for support before operating the software switch setup.

Please reboot the printer after the switch settings are done.

Installing the Posiflex LAN POS Printer Manager

To allow you to easily do settings of the LAN printer, please install the LAN POS printer Manager Utility (Utility Name: *PP-7600 Series LAN and WIFI POS printer Manager Utility*). To download the manager, go to the Posiflex' global website: **http://www.posiflex.com/en-global/Download/download** to download the up-to-date utility.

After downloading the manager utility, it is suggested to do settings through USB interface.

However, to avoid users doing settings by mistake, it is suggested that professional technicians implement the setup. To do more advanced settings on the printer, contact directly the Posiflex' technical service team.

Installing the USB Printer Virtual COM Port Driver

If you use software programs that communicate with your POS terminal via a serial interface (e.g. COM1...COM8), but your POS system does not have any serial port, you will require a so-called virtual COM port driver. This virtual COM port driver allows you to assign a virtual COM port connection number to your POS terminal connected via a USB port and enables bidirectional communication between your POS terminal and the printer.

To download the USB Printer Virtual COM Port Driver, go to the Posiflex' global website: **http://www.posiflex.com/en-global/Download/download** to download the up-to-date driver of the PP-7600X printer.

After downloading the driver, start to install it. When you finish installing the driver, it is suggested to turn on your POS terminal again. The system will automatically detect the PP-7600X printer.

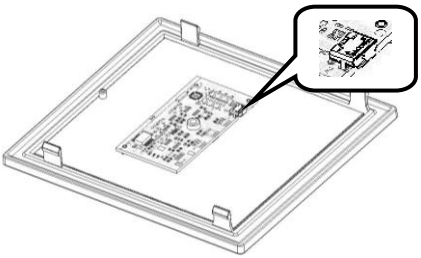
Installing the LD-2100 Light Bar (*Optional*)

Follow the steps below to install the LD-2100 light bar on the PP-7600X printer.

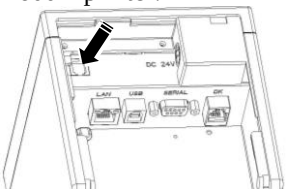


Power off the printer when installing the LD-2100 light bar.

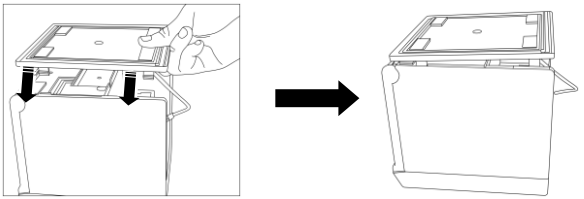
1. Securely connect the pin header of the LD-2100 I/O cable to the pin connector on the LD-2100 control board.



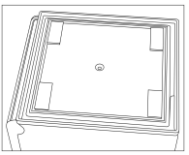
2. Plug the RJ11 connector of the LD-2100 cable into the LD-2100 I/O cable jack of the PP-7600X printer.



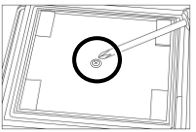
3. Install the LD-2100 light bar onto the bottom side of the PP-7600X by making the four joints formed on the LD-2100 wedge to the four wedge grooves formed on the PP-7600X.



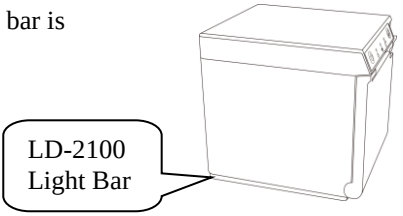
4. Determine that the LD-2100 securely connects to the PP-7600X.



5. Fix the LD-2100 to the bottom side of PP-7600X with a screw.



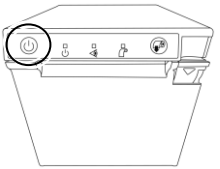
6. The installation of LD-2100 light bar is completed.



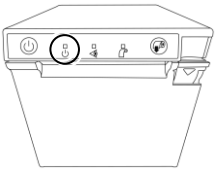
After installing the LD-2100 light bar, you can set up the LD-2100 by using the Posiflex LD2100 Tool. For more detailed information, refer to the Posiflex LD2100 Tool. To download the LD2100 Tool and its manual, go to the Posiflex' global website: **http://www.posiflex.com/en-global/Download/download**.

Powering ON the PP-7600X Printer

1. Press the power button of the printer.



2. The power LED indicator stays bright and solid green when the printer is powered ON.



Status LED Indicators

After supplying power to the PP-7600X and powering ON the printer, you can read the system operation status from the power LED indicator on the printer. The LED status is described below.

LED	Status	Description
Power LED	Solid green	System ON
Error LED	Flash red + several beeps	Cutter abnormal
	Solid red	Cover open
	Flash red	Operation temp. high
Paper-out LED	Solid red + continual beep	Paper out

Performing a Self-Test of the Printer

1. Power off the printer.
2. Press and hold the feed button  of the printer.
3. Power on the printer. The printer will emit one short beep sound.
4. Release the feed button  of the printer.
5. The printer performs a self-test and prints out the self-test result.
   If the paper-out LED indicator  still turns bright in red, press the feed button  of the printer to make the printer print the remaining self-test result.
6. Release the feed button  of the printer and then the paper-out LED indicator  does not light.

Entering the Hexadecimal Dump Mode

To make the printer work in the hexadecimal dump mode, please go through the following instructions.

1. Power off the printer.
2. Open the paper roll cover manually.
3. Press and hold the feed button  of the printer.
4. Power on the printer. The printer will emit one short beep sound.
5. Release the feed button  of the printer.
6. Close the paper roll cover manually.
7. The printer enters the hexadecimal dump mode and prints out the result showing the "***Hexadecimal Dump***" message.

Doing Software Switch Reset

Software Switch Reset is the specially-designed function aimed to facilitate the factory-default reset process. Please go through the following instructions to reset your printer to factory-default settings using **Software Switch Reset**.

1. Power off the printer.
2. Open the paper roll cover manually.
3. Power on the printer. The printer will emit one short beep sound.
4. Press the feed button  of the printer **3** times.
5. Close the paper roll cover manually.
6. The printer will emit one short beep sound and then print a page displaying software switch factory-default settings.
7. The printer will restart by itself.

Doing LAN Settings Reset

Among multiple built-in functions, **LAN Settings Reset** mainly allows you to reset LAN settings to factory default. The following steps are provided to help you complete the reset process.

1. Power off the printer.
2. Open the paper roll cover manually.
3. Power on the printer. The printer will emit one short beep sound.
4. Press the feed button  of the printer **5** times.
5. Close the paper roll cover manually.
6. The printer will emit one long beep sound and then print a page displaying LAN default settings.
7. The printer will restart by itself.
8. Ensure that LAN settings is correctly set to factory default as follows:

LAN Interface Information for Factory Default	
IP Address	192.168.192.168
MAC Address*****	00.19.17.00.02.03
NETMASK	255.255.255.0
GATEWAY	192.168.192.1
LINK STATUS*****	DISCONNECT
FIRMWARE VERSION*****	1.1.2

Note: Values of the items marked with an asterisk "*" are reserved and not allowed to be changed.

Cleaning

➢ Cleaning the Printer Case

Before cleaning the printer case, be sure to power off the printer, and wipe the dirt off the printer case with a soft wiping cloth we provide.



Do NOT clean the product with alcohol, benzene, thinner, or other such solvents. Doing so may damage or break the parts made of plastic and rubber.

➢ Cleaning the Thermal Head and the Platen Roller

We recommends cleaning the thermal head to maintain receipt print quality. We also recommend cleaning periodically (about once every 3 months).

Depending on the paper roll used, paper dust may stick to the platen roller and the paper may not be fed correctly. To remove the paper dust, clean the platen roller with a cotton swab moistened with water. Power on the printer only after the water has completely dried.



- After printing, the thermal head and its surroundings can be very hot. Be careful. Let it be cool before you clean it.
- Do not damage the thermal head with your fingers or any other hard object.

Troubleshooting

➢ The printer cannot print

If you cannot print even though an error has not occurred, perform a self-test to check if printing is possible.

Follow the steps below.

1. Close the paper cover.
2. While pressing the feed button, power on the printer. (Hold down the feed button until printing starts.) The current print status is printed.
3. Briefly press the feed button (less than one second) to continue the self-test. The printer prints using the built-in character set. After the self-test printing, the printer is reset and switches to standard mode.

➢ LED Indicators are On/Flashing/Off

No lights is given by the LED indicators

Check whether the power supply cable is correctly connected to the printer and the socket.

Error LED is on

- ✓ Check whether the paper cover is closed.
- ✓ Check if paper jam occurs or foreign substance enters the paper cutter.
- ✓ The thermal head and its surroundings can be very hot. Printing stops if the thermal head is too hot. Printing starts again automatically when the thermal head temperature falls.

Paper-out LED indicator is on

- ✓ Check whether the paper roll is correctly installed and any paper roll remains.

Error LED indicator is flashing

Power off the printer; after 10 seconds, power it back on. If the error LED indicator turns on again even after turning the power back on, malfunction may occurs. Contact your dealer or Posiflex' technical service team.

Specifications

General	
Printer Reliability	100 Km print length
Auto Cutter Reliability	700,000 cuts or more
NV Bit Image Memory	12KB (max.)
NV Graphics	384KB (max.)
Receive Buffer	6KB
Printer Driver	Windows Driver (APD), OPOS, JavaPOS (Win), CUPS Driver (Linux)
Software	Posiflex Uitlity (Android), PP-7600 Utility (Windows Desktop), Development Tool (Android SDK), Monitoring Tool (RMS)
LED Indicators	Green LED - On = Power Red LED - Error and/or Paper Out
Sensors	Cover Open / Out-of-Paper /Paper Near End
Cash Drawer Port (CR port)	2 drivers (CR port x1)
Power Consumption	Approx. 1.5A (mean)
Power Source	AC adapter (24V DC)
Power Saving	Yes
Temperature	Print quality assured: +5℃~ +40℃ Operating: 0℃~ +40℃ Non-operating: -20℃~ +60℃
Relative Humidity	Operating: 20 ~ 85%, non-condendensing 35% above for auto cutter Non-operating: 5% ~ 90%, non-condensing (paper excluded)
Acoustic Noise Level	55db
Standards and Approvals	CE / FCC
Dimensions (W x D x H)	5.08" x 5.86" x 5.1" / 129 x 148.8 x 129.5 mm
Weight	2.2lbs / 1kg
Color	Black / White
Print	
Print Method	Thermal dot line printing
Print Speed	200 mm/second (max.)

Print Resolution	576 dots (W 8 dots/mm x H 8 dots/mm)
Print Direction	Vertical and Horizontal
Print Fonts	
Fonts/Column capacity	Font A: 12 x 24 48 cpl (default); Font B: 10 x24 57 cpl
Character Size	Font A: 1.25 x 3.00 mm; Font B: 1.13 x 3.00 mm
Character Set	95 Alphanumeric, 18 International, 128 x 43 Graphic
Barcode	UPC-A/E, EAN13/8, ITF, CODE39 / 93 / 128, CODABAR, GS1 DataBar
2D Symbol Printing	PDF417, QR code
Media Handling	
Type	Thermal roll paper
Paper Feed Methord	Friction feed
Print Width	72 mm
Paper Width	80 +0/-1 mm
Paper Loading	Drop-in
Roll Diameter (Max)	ϕ 83 (or 58) +0 / -1 mm
Core Diameter (Min)	ϕ 8 mm
Paper Thickness	60 ~ 80 um
Paper Guide	Yes
Auto Cutter	Yes
Connectivity	
Serial Interface	RS-232
USB Interface	Built-in USB
Ethernet Interface	Ethernet 10/100Base-T/TX
Operating System	
OS support	Android, Linux, Windows

※ ***The product information and specifications are subject to change without prior notice. To get the detailed information on PP-7600X, please check this model from Posiflex Global Website (http://www.posiflex.com/en-global/Download/download).***

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