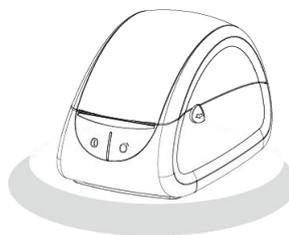
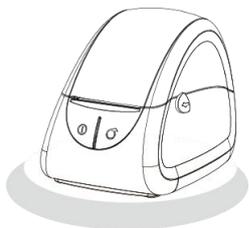

LPQ58/80

User Manual



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Important Safety Instructions

1. Safety warning



Warnings: The print head will become very hot during printing; avoid contact with the print head after printing has finished.



Warnings: Do not touch the printer head and connector in case static damage the printer head.

2. Instructions

Read the following instructions thoroughly before starting up your printer.

- 1) Place the printer on a solid and even base so that it cannot fall.
- 2) Leave enough space around printer for operation and maintenance.
- 3) Keep all liquids away from the printer.
- 4) Do not expose the printer to high temperatures, direct sunlight or dust.
- 5) Protect the printer from shock, impact and vibration.
- 6) Ensure the printer is connected to a socket with the correct mains voltage.
- 7) Switch off the printer power supply when it's not in use for a long time.
- 8) To ensure the printing quality and reliability, suggest use the same quality or recommend paper supplier.
- 9) Pls. switch off the power supply when connect/disconnect all the ports or it will cause damage to the printer control circuit.
- 10) Never carry out maintenance or repair work yourself. Always contact a qualified service technician.
- 11) Keep this User Manual in a place which is easily accessible at all times.

Chapter1. Introduction

Pls. follow the following procedures to install the printer and print out the test paper.

1.1 POS Printer Packing

Note: Pls. do not connect the printer to the computer before the installment finished.

- 1 Open the packing of printer and keep the packing material.
- 2 Make sure you own all parts as follows:

- Printer



- Quick start guide



- Paper roll



- CD



- Power adapter
varies by locale or region



- Power cord
varies by locale or region

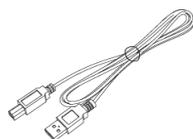


- Cables fastener



Optional Accessories

- USB cable



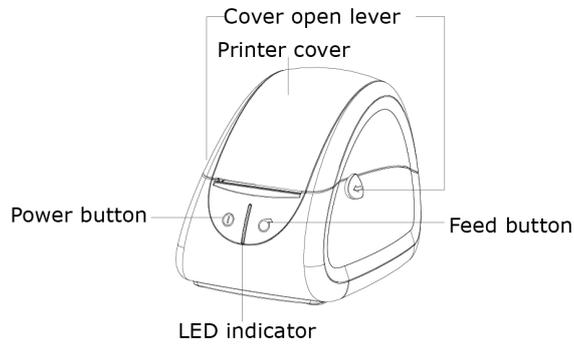
- Serial cable



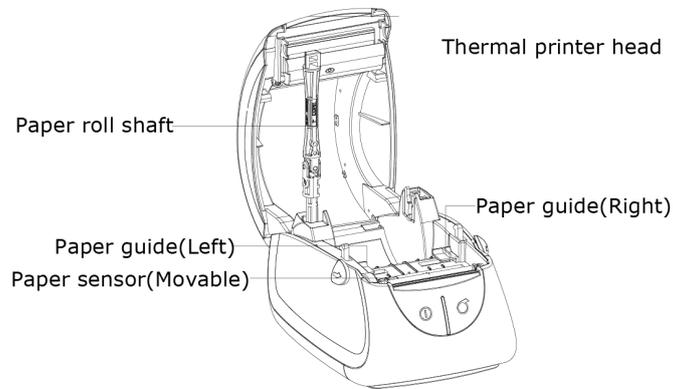
Figure 1-1

1.2 Printer Components

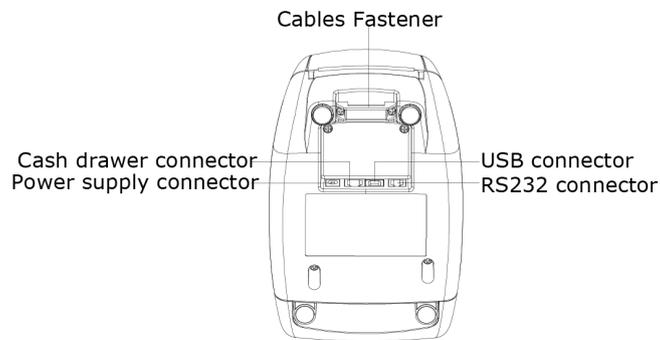
■Front



■Open the Printer Cover



■Rear



■Install the Cables Fastener

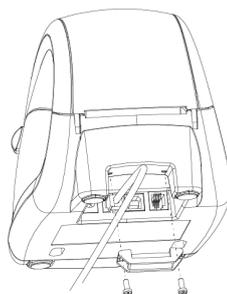


Figure 1-2

Chapter 2 Specification

2.1 Specification

Table 2-1 General Specifications

(1/2)

Items		Parameter	
		LPQ58	LPQ80
Printing	Printing method	Thermal line printing	
	Resolution	203dpi	
	Printing width	56mm	72mm
	Printing speed	100mm/s	
	Interface	RS232/USB/Cash drawer	
Page mode		Support	
Memory	RAM	1M Byte	
	Flash	4M Byte	
Character	Chinese	GB18030	
	Alphanumeric	ASC II 9×17,12×24	
	User-defined	Yes	
	Codepage	[PC437(USA:StandardEurope)], [Katakana], [PC850(Multilingual)], [PC860(Portuguese)], [PC863(Canadian-French)], [PC865(Nordic)], [PC857(Turkish)], [PC737(Greek)], [ISO8859-7(Greek)], [WPC1252][PC866(Cyrillic#2)], [PC852(Latin2)], [PC858(Euro)], [KU42], [TIS11(Thai)], [TIS18(Thai)], [PC720], [WPC775], [PC855(Cyrillic)], [PC862(Hebrew)], [PC864(Arabic)], [ISO8859-2(Latin2)], [ISO8859-15(Latin9)], [WPC1250], [WPC1251(Cyrillic)], [WPC1253], [WPC1254], [WPC1255], [WPC1256], [WPC1257], [WPC1258], [MIK(Cyrillic/Bulgarian)], [CP755(EastEurope,Latvian2)], [Iran], [Iranian], [Latvian], [ISO-8859-1(WestEurope)], [ISO-8859-3(Latin3)], [ISO-8859-4(Baltic)], [ISO-8859-5(Cyrillic)], [ISO-8859-6(Arabic)], [ISO-8859-8(Hebrew)], [ISO-8859-9(Turkish)], [PC856]	
Barcode	1D	UPC-A,UPC-E,EAN8,EAN13,CODE39,ITF,CODEBAR,CODE128,CODE93	
	2D	PDF417、QR code	

Table 2-1 General Specifications(Continued)

(2/2)

Items		Parameter	
		LPQ58	LPQ80
Detection	Sensors	Cover open detection,out of paper detection,label gap detection and black mark detection	
LED indicator	Power indicator	Blue	
	Normal working indicator	Green	
	No paper/Error indicator	Red	
Power supply	Input	12V $\overline{\text{---}}$ 2A (External power adapter)	12V $\overline{\text{---}}$ 2A (External power adapter)
Cash drawer control		12V	
Paper loading	Paper type	Thermal paper/thermal label paper/black mark paper	
	Paper width	58mm	80mm
	Paper thickness	0.25mm Max.	
	Paper roll diameter	90mm Max for inner paper feeding, (no Max when outer paper feeding)	
	Paper loading	Easy loading	
	Recommended paper	FD210,PD150R,PD160R (OJI Paper CO.,LTD.)	
Command		TSPL/ESC	
Physical characteristics	Working condition	0~40℃/20~85%RH	
	Storage condition	-20~70℃/5~95%RH	
	Dimension	186(L)*128(W)*133(H)mm	188(L)*150(W)*134(H)mm
	Weight	805g (without paper roll)	880g (without paper roll)
Reliability	TPH	150km	

NOTE:

Pls. use the recommended thermal paper or same quality paper, otherwise it will influence the printing quality and decrease the thermal print head life.

Chapter 3 Operation Methods

3.1 Paper Installation

1. Pull the cover open lever towards you and lift the cover.

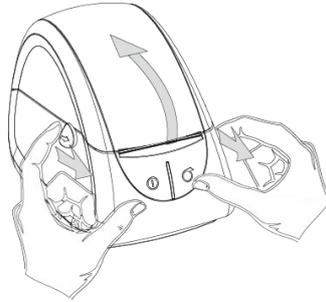


Figure 3-1

2. Firstly, pull up the paper roll shaft. Then adjust the shaft according to the internal diameter of paper roll (There is detailed illustration which is about internal diameter of paper roll on the shaft). Next, install the paper roll and fix the shaft.

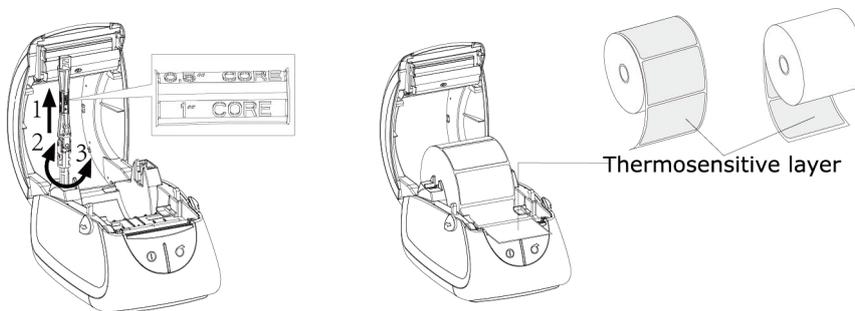


Figure 3-2

3. Pull out some paper roll, then open the paper guides to the max width and pass the paper through the paper guides. Next, adjust the paper guides to the paper width.

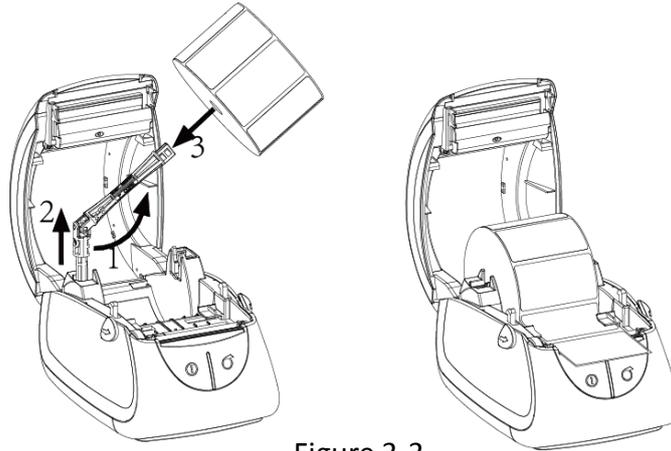


Figure 3-3

3. Press down the center of the printer cover to close the cover, then tear off the excess paper.

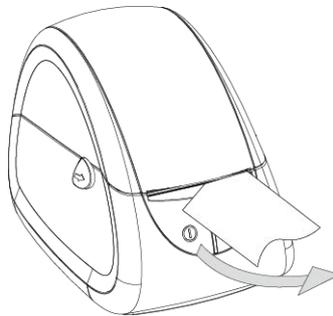


Figure 3-4

Loading External Paper Roll

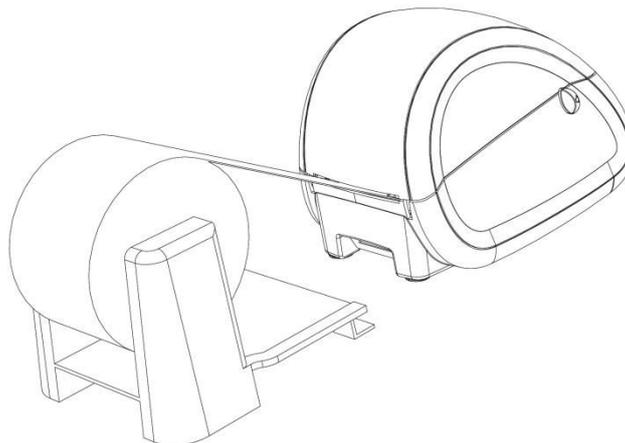


Figure 3-5

3.2 Functions use

3.2.1 Power on

When printer power off, keep pressing **【POWER】** button about 1 second, then printer power on and the LED indicator is blue. When printer works normally, the LED indicator is green. When paper out or abnormal working, the LED indicator is red.

3.2.2 Power off

When printer power on, keep pressing **【POWER】** button about 1 second, then printer power off. LED indicator goes out.

3.2.3 Self-test

When user get the printer, user can have a self test to find the current setting and state.

The method of self-test:

Make sure it is powered off then press **【FEED】** button. While you hold **【FEED】** button, press **【POWER】** button. Printer will print out demo paper which includes the current state of printer, printer setting and example of print.

3.2.4 Paper feeding (manual operation)

Under the normal working state, press **【FEED】** button, then printer starts to feed.

3.2.5 Power Supply

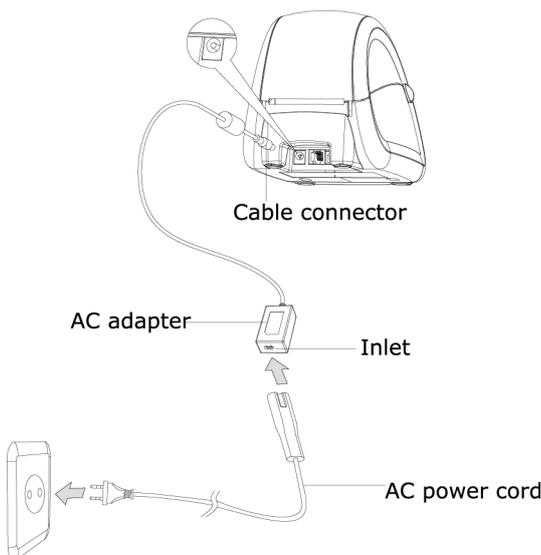


Figure 3-6

- 1) Plug in the cable connector of the AC adapter to the power connector at the rear of the printer.
- 2) Connect the AC power cord to the inlet of AC adapter and insert AC power cord plug into a suitable wall outlet.

■ Warning:

Be sure to use the specified power adapter provided by our company. Connection to an improper power source may cause fire, explosion or damage to the printer.

3.2.6 Parameter setting

1. Please follow the following steps to enter parameters setting mode:

NOTE: The two actions should be done in the 2 seconds after printer power on.

- a. Press **【POWER】** button three times
- b. Press **【FEED】** button one time

In parameter setting mode, **【POWER】** button is used for choosing the option and **【FEED】** button is used for confirmation and quit the current menu to enter the next menu.

2. When printer succeeds in entering the parameters setting mode, it prints the following contents and enters the first parameter setting – baud rate setting.

Enter setting mode:

Setting baud:

Baud = 9600

It prints current baud rate 9600 and please press **【POWER】** button to select the baud rate required. Press **【POWER】** button one time, the printer prints the current ' baud= ***** '.When the printer prints the baud rate required, press the **【FEED】** button to confirm and quit, then enter the second setting – paper type setting.

Optional baud rates: 9600, 19200, 38400, 57600, 115200.

3. After entering paper type setting mode, it prints the following contents:

setting paper type:

Paper type: Label

If user wants to change the paper type, press **【POWER】** button to select. Press **【POWER】** button one time, and the printer prints the current paper type: ***** When the printer shows the paper type required, press **【FEED】** button to confirm and quit The printer enters the third setting – print density setting.

Optional paper type: receipt, label ,black mark and auto

Note:

- *Default media/paper type is label. Under auto mode, printer feeds paper automatically to identify the media type after power on. Max label gap is 8mm. The default label height is 120mm. Max label height which can be located by printer is 500mm. It can be modified according to the user's need by printer utility tool. See more information in <<Printer Utility Tool*

Instructions>>.

- The movable paper sensor must be fastened in the correct position to make sure that paper sensor can detect the paper status and label location under label printing mode.
- Correct position: the little triangle on movable paper sensor frame must be opposite to the one on the printer guide frame.

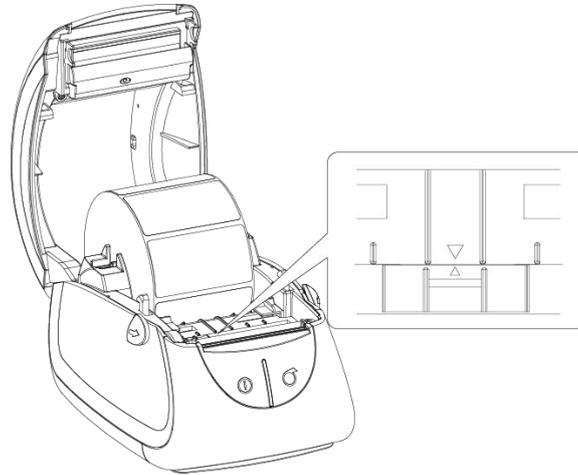


Figure 3-7

4. After entering density setting mode, it prints the following contents:

Setting density:

Density: middle

If user want to change the density, press **【POWER】** button to select. Press **【POWER】** button one time, and the printer prints the current density : ***** . When the printer shows the density required, press **【FEED】** button to confirm and quit. The printer enters the forth setting – print width setting.

Optional density: high, middle and low.

5. After entering print width setting mode, it prints the following contents:

Set print width mode:

Print width: default

If user want to change the print width, press **【POWER】** button to select. Press **【POWER】** button one time, and the printer prints the current print width ***** . When the printer shows the print width required, press **【FEED】** button to confirm and quit. The printer enters the fifth setting – print protocol setting.

Optional printing width: default (384dots) and full area (448dots).

6. After entering protocol setting mode, it prints the following contents: (**NOTE: The setting mode is only available when you use label paper.**)

Set protocol:

Protocol: TSPL

Users can change the protocol by pressing **【POWER】** button one time, and press **【FEED】** to confirm the chosen protocol. After this setting, printer will automatically power off.

Optional protocol: TSPL, ESC/POS

NOTE: When receipt paper is used , only ESC/POS protocol is working.

When label paper is used, protocol type can be set to either ESC/POS or TSPL.

7.Power on ,then above settings will take effect.

Chapter 4 Interface

4.1 USB interface

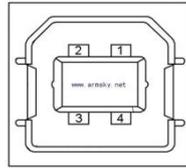


Figure 4-1

PIN No.	Signal name
1	VBUS
2	D-
3	D+
4	GND

4.2 Cash drawer interface

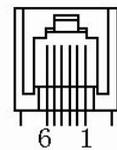


Figure 4-2

Pin No.	Signal	Function
1	FG	Frame Ground
2	DRAWER 1	Drawer kick-out drive
3	DRSW	Drawer open/close signal
4	VDR	Drawer driving source
5	DRAWER 2	Drawer kick-out drive
6	GND	GND

4.3 RS232 interface

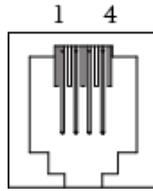


Figure 4-3

PIN No.	Signal name
1	RTS
2	RXD
3	GND
4	TXD