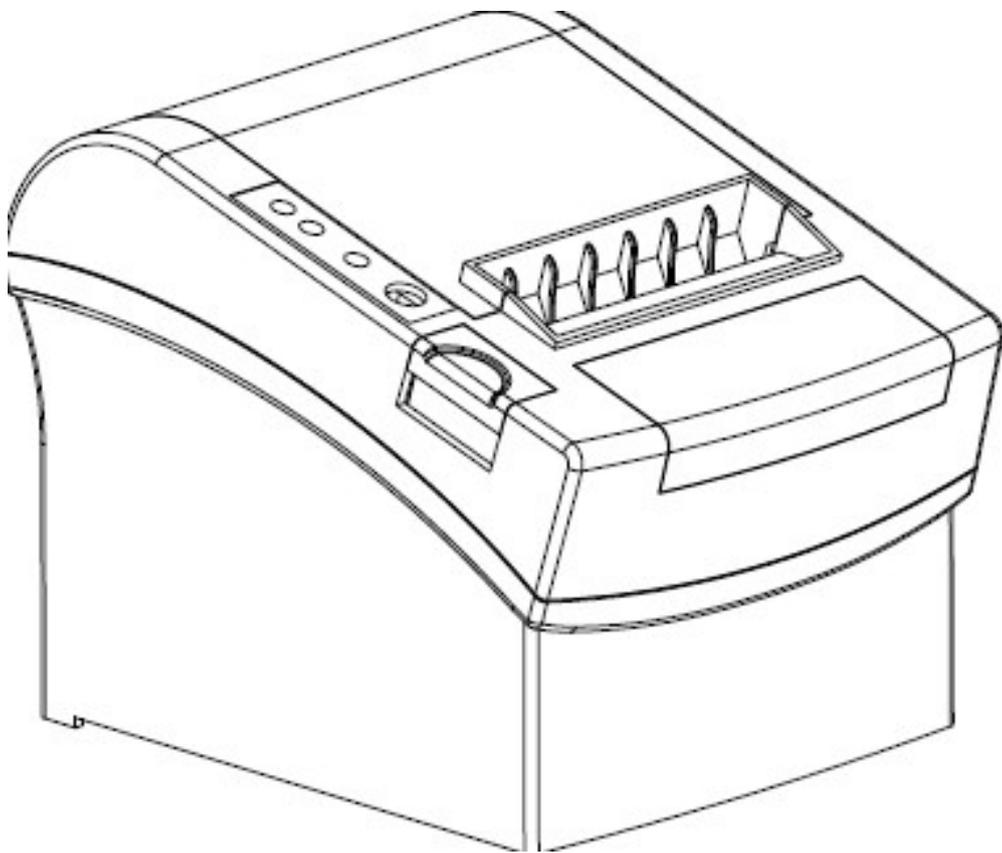


# 80MM Thermal Receipt Printer User Manual



## 1.80mm Thermal Printers Introduction

The 80mm series printers have lots of new advanced features and the printing speed increases notably.

(1) Driver Mode Print Speed Set DIP switch, "SW-8" ON with the high-speed driver mode, the graphics printing speed increases from 27mm/s to 100mm/s, and the 80mm series from 90mm/s to 260mm/s. In the mean time, printers work with low noise

For 80230 or 80260, there are many new features, such as paper-end reprinting function, ethernet printer status monitor, ethernet multi-link, EPSON OPOS ADK V1.95 supports, thai characters printing, and optional parity bit (None, Odd, Even, Space and Mark) for serial port.

(2) Kitchen print beeper set DIP switch, "SW-6"ON, if connect one speaker to printer cash drawer port, when cut Paper finished, speaker will be beeping for 5 seconds, to notice there is one print finished. (NOTE: when printer cash drawer port is connected with cash drawer,please do not set DIP switch, "SW-6"ON, otherwise cash drawer will be burnt.)

(3) Serial port 115200bps high speed print On serial printer,set DIP switch, "SW-8 "ON, to get 115200bps high speed print Mode.

(4) Ethernet multi-link When one printer is online printing, another printer can be connected and holding online, waiting for printing command.

(5) Paper-end Reprint Paper end cause printing unfinished,now install a new paper roll , unfinished printing will be repeated to get it complete finished.

(6)Printer is embedded with software Defend software property, with this function, printer can't be working properly if software or printer changed.



Anti-oil, waterproof, dustproof



High speed printing



Identity verify



Multi-link printing



OPOS ADK V1.95 driver



Different international languages

## 2. 80mm Thermal printer Technique parameter

Mdel	80180	80230	80260
Printing method	Line thermal		
Printing speed	180mm/s	230mm/s	260mm/s
Printing width	72mm/576 dots(paper width 79.5±0.5mm)		
Paper thickness	0.06~0.08mm		
Print columns	576 dots per line or 512 dots per line		
Resolution	203X203 dpi(Maximum)		
NV Flash buffer	60KBytes	256KBytes	
Data receive buffer	32 KBytes	128KBytes	
Character sets	ASC II 13 international character sets Chinese GB18030		
Language	Buyer language		
Interface	RS-232C/Parallel/USB/Ethernet		
Cutter	Full or partial		
Reliability	Printing head	100 kilometers	

	cutter	1000,000 times
Power supply	Input	AC100~220V (50/60HZ, ≤1.5A)
	Out put	DC 24V/2.5A
Cash drawer	DC 12-24V/1A	
Print beeper	/	Available
Black mark	/	Available
Kitchen print	/	Available
Environment	Working temperature 0-45℃	
	Humidity 10-80%	
Bar code	UPC-A/UPC-E/JAN13(EAN13)/JAN8(EAN8) /CODE39/ITF/CODABAR/CODE93/CODE128	
Driver	Win9X/WinME/Win2000/WinNT/WinXP,WinVista,Win7	
Command	Compatible with ESC/POS&Star	

### 3. Printer&Standard equipment:

Printer	one unit
Power adaptor(24V)	one unit
Power cable	one unit
Drive, user manual, warranty card	one set
Date cable(serial, parallel or USB)	one unit
Paper roll	one unit

### 4. Printer spare parts:

Spare parts include: mechanism, PCB controller, plastic case & frame, power adapter, interface, panel controller...and so on, following is the function for them:

(1)Mechanism: It is one of central parts in printer, consist of motor and print head, it is made from exactly technique.To one thermal printer, it has a carriage motor to roll thermal paper, print head is the thermal sensor, print out characters and graphics when thermal resistance heated.

(2)Plastic case & frame: Install PCB controller board and metal parts together, to assemble one full printer.

(3)Interface card: Interchange data between printer and PC host,

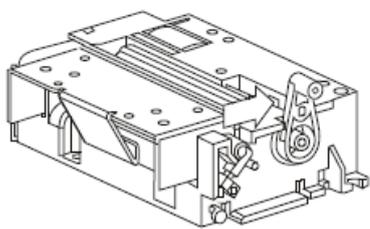
available for parallel, serial, USB, ethernet ...and so on.

(4)PCB Controller board: It is the most important part in printer, command printer to print out characters and graphics. It is consist of CPU main circuit, power supply circuit, carriage motor circuit, cash drawer circuit.

(5)Power adapter: Supply direct current for printer, switch AC current into DC current, supply stable pump DC current.

(6)Panel board: There is FEED, POWER, STATUS indicators on the panel board, press FEED to move paper forward, self-test, hex mode, and indicate problem on print adapter.

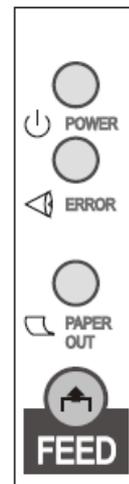
(7)Auto-cutter: Cut paper when printing finished, full or partial cut optional, consist of carriage motor, gear, cutter, cut slice.



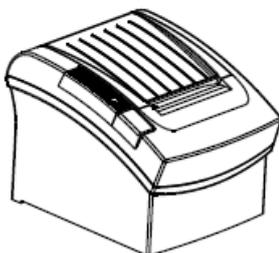
1. Mechanism



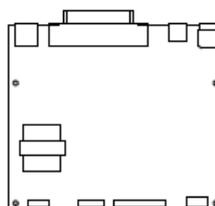
3. Interface card



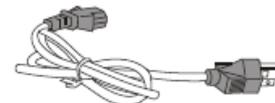
5. Power adapter



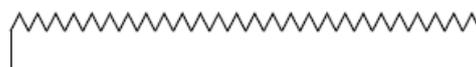
2. Plastic case & frame



4. PCB Controller board



6. Panel board



7. Auto-cutter

#### **4. Printer problems analysis:**

(1) Mechanism: Its life time is affected by environment and paper quality, in dusty environment, or using bad quality thermal paper, will reduce mechanism life time. So mechanism need to be cleaned in period. Printer characters may become partially unclear due to accumulated paper dust and dirt. To remove blackish dust collected on the surface of the thermal head, wipe it with Isopropyl alcohol (IPA). To use good quality thermal paper can extend mechanism life, at the same time thermal head won't be easy dusty. After long time working, will happen feeding paper not smoothly or not feeding problem, which is caused by printer gear expending life, you can change new gear to resolve this problem.

(2)Cutter: When print finished, if auto-cutter can't cut, or can't cut properly, firstly to check if auto-cutter is off? Connection is correct or not? You can replace another available cutter onto the printer, to check if original cutter is damaged. If cutting paper can be completed, maybe the cutter splice is distorted or short of bounce, you can change a new cutter or increase cutter bounce to resolve the problem.

(3)PCB Controller: If printer has following problem: can't print out, print in mass, can't feed paper, maybe the elements on PCB is damaged, users can replace the PCB board with a new controller board.

(4) Plastic case & frame: It is not easy to be damaged, except that wrong transportation, operation, shock reason will Make it damaged. If damaged, please change to new case and frame.

(5)Power adapter: Before printer power on, do remember to check if adapter is same as what printer needed. Please use the adapter together with the same printer, using wrong adapter will damage printer. If adapter indicator is off after connection, the adapter should be damaged.

(6)Interface: When printer can't work or print in mass, maybe printer interface is damaged, user can replace the interface port by a good one, to confirm if interface card is damaged.

(7) Panel board: If printing is normal, but FEED button doesn't work, then panel board is damaged. if printing is normal, but POWER indicator is off, then POWER indicator is damaged. User can replace the panel board to check if it is damaged.

#### **5. General problem:**

(1) Will the serial port printer print in mass?

Printing in mass will happen if baud rate of PC host is different from printer's.

(2) Why is the red light flashing with paper installed properly?

Print head is too hot or printer hasn't detect the black mark; Or the print head and cutter haven't connected correctly.

(3) Why can't the printer open cash drawer? Or cash drawer open automatically?

Please check if the cash drawer is connected with printer properly. If connected properly, please send service department to fix it. If cash drawer open automatically, maybe it is burnt, please send service department to fix it.

(4) Why doesn't printer test the paper?

Please clean the printer sensor with soft brush if the sensor is dusty. If it doesn't work after cleaning, Please send to service department for fixing.

(5) Why printing in disorder after using the printer for some time.

The printer interface is damaged, please change communication interface board or send maintenance department to fix it.

(6) Why the indicators can't be lighting?

Please check if power line is inserted correctly to printer, adapter and socket, and check if printer is power on. If above all correct, please send maintenance department to fix it.

(7) What are the additive functions of series?

Compared with GP-80 series have following additive functions: download NV image, macro-definition print, page mode print, compatible with EPSON TM-T88III roundly.

(8) Why does the thermal printer print unclearly?

Please confirm if the whole print area or part of it is unclearly, if the whole print area is unclearly, maybe the print paper can't get up to the quality standard, if part of print area is unclearly, maybe the print head is dusty, please clean the surface of thermal head gently with alcohol cotton, if can't print clearly, please send maintenance department to fix it.

(9) What languages does series support?

80MM series printers support simplify, traditional, Korean, Japanese and 21 sorts of international language.

(10) How to install printer in network neighborhood ShareDocs?

Come into network neighborhood, find the printer in sharing, double click the printer to install the driver.

(11) Why auto-cutter only cut in half?

The cutter splice is distorted or short of bounce, you can change a new cutter or increase cutter bounce to resolve the problem.

(12) Ethernet or print in multi-link, but sometimes can't print out, how to resolve it?

Firstly check internet connection is always on or not, then make Self-test on each printer, to check if Some Ethernet ID is repeated, if with such problem, please use Ethernet IP program to change Ethernet ID To make each printer have their own ID Number

(13) Why is the thermal printer cutter locked?

At this time please don't prize by rigidity object, firstly please press top cover or pat it slightly, to check if cutter can return back. If not please open the front cover of cutter, adjust the gear by hand to make the cutter cover open front cover automatically.

14) How to manage if some water leak into printer?

Key: Please power off immediately, use a electric drier to make PCB, mechanism dry fast.

Note: temperature can not beyond 50

(15) How to get into drive mode? What additional functions with series?

Set DIP switch, "SW-8" ON with the high-speed driver mode, the graphics printing speed of series increases from 27mm/s to 100mm/s, and the series from 180mm/s to 260mm/s. In the mean time, printers have low work noise. For series, there are many new features, such as paper-end reprinting function, ethernet printer status monitor, ethernet multi-link, EPSON OPOS ADK V1.95 supports, thai characters printing, and optional parity bit (None, Odd, Even, Space and Mark) for serial port.

(16) How to get beeper in Kitchen print:

Set DIP switch, "SW-6" ON, If connect one speaker to printer cash drawer port, when cut paper finished, speaker will be beeping for 5 seconds, to notice there is one print finished.

(NOTE: when printer cash drawer port is connected with cash drawer, please do not set DIPswitch, "SW-6" ON, otherwise cash drawer will be burnt.)

(17) How to get high speed print with Serial port 115200bps

On serial printer, set DIP switch, "S" W-8 ON, to get 115200bps high

speed print mode.

(18) How to re-print document which was unfinished for paper end.  
Now install a new paper roll, unfinished printing will be repeated to get it complete finished.

(19) Does it support software embedded in printer?  
Yes, printer is embedded with software; defend software property, with this function, printer can't be working properly if software or printer changed.

(20) Does it support multi-link with Ethernet port?  
Key: Yes, when one printer is online printing, another printer can be connected and holding online, waiting for printing command.

## **6. Replace printer port**

(1) , I+, , , such models, please loose the screws on the two sides of port, pull the interface card out of printer carefully, and check the holes position to install the port you need, you need confirm it is inserted in correct, at its place, otherwise printer won't work.

(2) ,G I+, I I+, such models, please open the bottom cover by loose the screws on it, and then loose the screws on the two sides of port, take the interface card out of printer, and install the port you need, you need confirm it is inserted in correct, at its place, otherwise printer won't work.

## **7. Safety Notice:**

- \* Don't touch the Head of printer with anything.
- \* Don't touch the cutter blade.
- \* Don't bend the power cord excessively or place any heavy objects onto it.
- \* Only use the power cord excessively or place any heavy objects onto it.
- \* Use only approved accessories and do not try to disassemble, repair or remodel it for yourself.
- \* Install the printer on the stable surface. Choose firm, level surface where the printer will not be exposed to vibration.
- \* Don't let water or other foreign objects in the printer.
- \* Don't connect a telephone line into the peripheral drive connector.
- \* We recommend that you unplug the printer from the power outlet whenever you do not plan to use it for long periods

## **8. Guarantee free:**

- \* Damaged by manmade reason.
- \* Disassemble printer before factory allowance

- \* Printer is not from our factory, it is the imitated product
- \* One year guarantee period overdue
- \* Force majeure caused some parts of printer damaged

## **WARRANTY CARD**

Dear Customer:

First, thank you trust and support us.

In order to safeguard your interests and efficient services, and make you without any worries for the products, we provide warranty service on the products.

Please carefully read the following clauses and items. When buying the printer, please confirm the printer function normally, including accessories and documents.

The warranty card will be requested for any services. Keep it properly. Please fill in and send the product warranty cards copy within one month to the local agent.

Our company will do our best to provide warranty services to you. We guarantee the printer can be changed new one within one month, repaired within one year and lifetime maintenance.

All products occurred faults in the period of warranty time (one year), free services will be provided by our customer service center. In the warranty period, the company will cover all kind of charges, such as spare parts and repairing fee. When the warranty period is over, you'll be charged according to regular fee.