

SHARP[®]

SHARP DX-B351PL
Monochrome Laser Printer



It is recommended that you read this Guide carefully before using the printer.

Preface

This manual explains how to use the SHARP DX-B351PL laser printer.

Please read and understand the manual in order to use the product correctly.

Keep this manual in a convenient location for reference whenever needed.

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Version: V1.0

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The product can only be used safely in the non-tropical areas at an altitude no higher than 2,187 yards.

Safety Precautions

Laser Safety

Laser radiation is harmful to the human body. Since laser components are completely sealed in the printer, laser radiation will not leak. To avoid laser radiation, please do not randomly disassemble the printer!

The printer follows the provisions of Class 1 laser products under CFR standard. The printer has a Class III b laser diode, which has no laser radiation leakage among laser components.


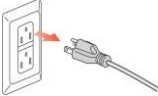






The laser components shall comply with the requirements of U.S. Code of Federal Regulations, 21 CFR 1040, IEC 60825-1.

The following label is attached to the laser components inside the printer:



Safety Warning

Please note the following safety warnings before using the printer:

Warning	
 There is high-voltage electrode inside the printer. Before cleaning the printer, make sure the power is turned off!	
 Plugging and unplugging the power cord plug with a wet hand can result in an electric shock.	
 The fuser unit is hot during and after printing. Touching the fuser unit (the shaded area as shown) may cause burns!	
 The fuser unit is attached with a high-temperature warning label. Please do not remove or damage this label.	

Precautions

Precautions before Using the Printer:

1. Read and understand all instructions.
2. Familiarize yourself with the basic principles associated with operating electrical appliances.
3. Comply with all warnings and instructions marked on the equipment or specified in the manual supplied with the equipment.
4. If the operating instructions conflict with the safety information, please refer to the safety information, as you may have misunderstood the operating instructions. If you cannot resolve the conflicts, please call the Customer Service Hotline or contact a service representative for help.
5. Before cleaning the equipment, remove the power cord from the AC power supply outlet. Do not use liquid or aerosol cleaners.
6. Please make sure that the equipment is put on a stable desktop surface to avoid serious damage caused by the falling of the equipment.
7. Do not put the equipment near a radiator, an air conditioner, or a ventilation pipe.
8. Do not put any articles on the power cord. Do not put the equipment at the place where its power cord could be stepped on by people.
9. Outlets and extension cords must not be overloaded. This may reduce performance and could result in fire or electric shock.
10. Do not allow pets to chew on the AC power cord or the computer interface cable.
11. To avoid contact with the high voltage errors that may result in fire or electric shock, do not allow sharp objects to pierce the equipment power supply. Do not spill liquids onto the equipment.
12. To avoid the risk of electric shock, do not disassemble the equipment. Necessary repairs may only be carried out by professional maintenance personnel. Opening or removing the cover could result in an electric shock or other potential hazards. Incorrect disassembly and assembly could also result in an electric shock during future use.
13. If any one of the following occurs, disconnect the equipment from the computer and pull out the power cord from the AC wall socket and contact a qualified member of the service personnel for maintenance:
 - Liquid has been spilled into the equipment.
 - The equipment has been exposed to rain or water.
 - The equipment falls, or the cover is damaged.
 - Significant changes in the equipment's performance.
14. Only adjust the controls mentioned in the instructions. Incorrect adjustment of other controls may result in damage and the need for professional service representative support.
15. To avoid the risk of electric shock, do not use the equipment in a thunderstorm. If possible, pull out the AC power cord during a thunderstorm.
16. If you continuously print multiple pages, the surface of the tray will become very hot. Take care not to touch this surface and keep children away from this surface.
17. The signal wire of the device connected with the printer cannot be connected to the outdoors.
18. Please ensure timely ventilation in case of a prolonged use or printing huge amounts of documents in a poorly ventilated room.
19. In standby status, the product will automatically enter the power saving (sleep) mode if it does not receive any job for a period (such as 1 minute). It can recognize zero power consumption only if it has not been connected to an external input power supply.
20. As the Class 1 equipment, the product must be connected to the power supply outlet with a protective grounding line when using.
21. This product should be placed according to the shipping marks on the product package box during delivery.

-
22. This is a low-voltage device. When using the device below its specified voltage, if the toner comes off the printed contents, or the equipment starts up slowly, please refer to the product precautions or call SHARP Service Center.
 23. This product is sold as a complete machine. The consumers can go to SHARP Service Center to purchase parts they need. If the product sold is inconsistent with the package list, please go to the specified Service Center to solve the problem.
 24. Install this product in a place where the temperature is between 50 and 90° F and the relative humidity between 20% and 80%.
 25. This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s). The operation is subject to the following two conditions:
 - 1) this device may not cause harmful interference, and
 - 2) this device must accept any interference received, including interference that may cause undesired operation.
 26. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
 27. Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
 28. Shielded cables must be used with this unit to ensure compliance with the Class B FCC limits.
 29. This Class B digital apparatus complies with Canadian ICES-013.
 30. Please store this User Guide properly.

Legal Information



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Supplier's Declaration of Conformity

47 CFR § 2.1077 Compliance Information

Unique Identifier: Trade Name: Sharp, Model No.: DX-B352P

Responsible Party - U.S. Contact Information

Sharp Electronics Corporation

100 Paragon Drive, Montvale, New Jersey, United States 07645

Telephone number: +1-201-529-8984

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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1. Before Using the Printer

1.1. Product series introduction

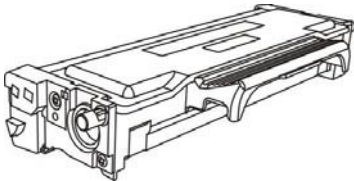
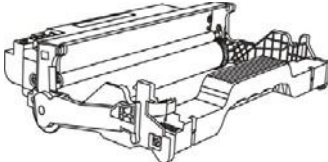
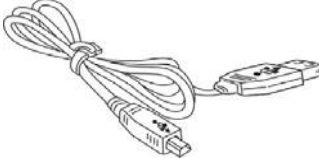
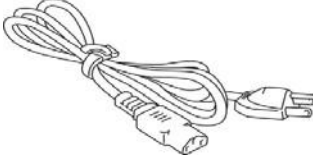


Product series parameters

Interface Type	USB		•
	NET		•
Print Language	PDL		•
Control Panel	LCD		•
Print Speed	A4	33ppm	•
	Letter	35ppm	•
Automatic Two-Sided Printing			•
Mute Printing			•

(•: Support; Blank: Unsupport)

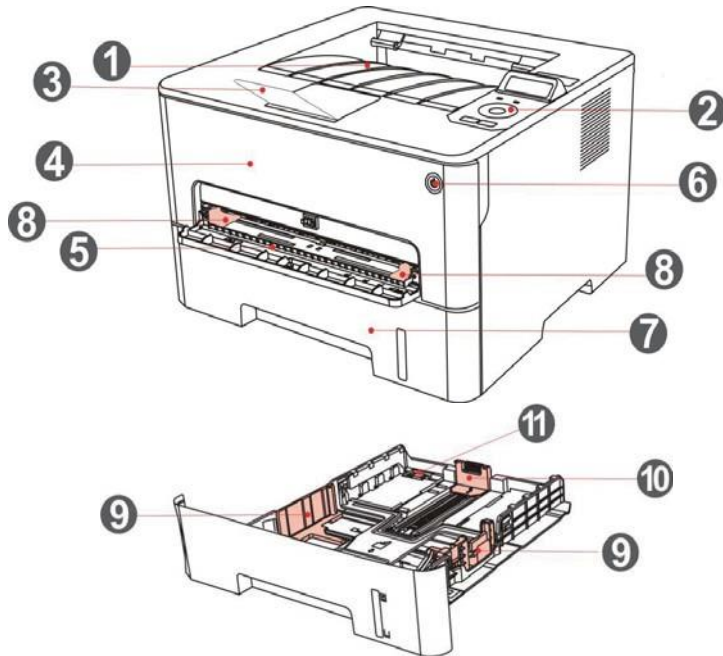
This product series is subject to additions or changes without prior notice.

1.2. Supplied Accessories

Name	Parts
Toner cartridge	
Drum component	
USB Interface Cable	
Power Cord	
CD-ROM	
Quick Setup Guide	

1.3. Product View

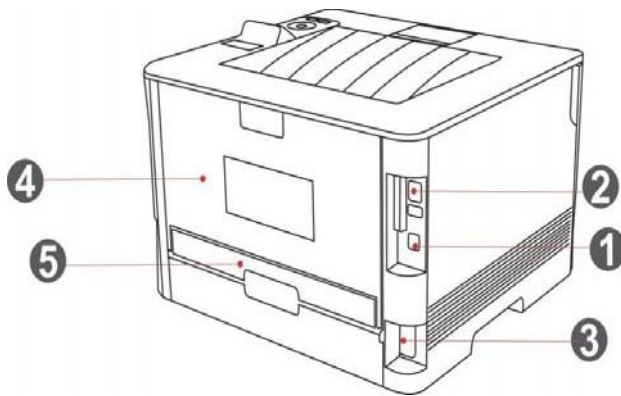
Side view



1	Output Bin	Stores the printed paper.
2	Control Panel	Indicate printer status to conduct set operation.
3	Output Tray	Prevents the printed paper from falling.
4	Front Cover	Open the front cover to take out the laser toner cartridge.
5	Manual feed tray	Place mediums to be printed in manual feed tray.
6	Power switch	Turn the power on or off and press this button under Ready state to enter energy-saving mode. Press and hold this button for more than 2s to turn the printer power off.
7	Automatic Feeder Tray	Place mediums to be printed in the auto feed tray.
8	Paper deflector of manual feed tray	Slide paper deflector to adapt to paper width.

9	Paper width deflector of auto feed tray	Slide paper width deflector to adapt to paper width.
10	Paper length deflector of auto feed tray	Slide paper length deflector to adapt to paper length.
11	Clip of extended tray of auto feed tray	Adjustment of length extension of the tray.

Rear View

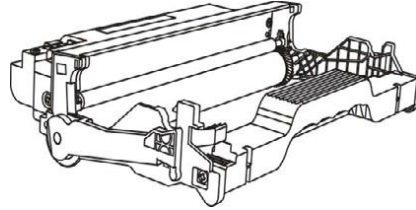


1	USB Interface	Connects product to the computer with USB cable.
2	Network Interface	Connects product to network with a network cable.
3	Power Interface	Connects product to power with power cord.
4	Rear Cover	Paper release when it gets jammed.
5	Duplex Printing Unit	Paper feed at duplex printing and paper release when paper gets jammed at duplex printing.

1.4.Laser Toner Cartridge

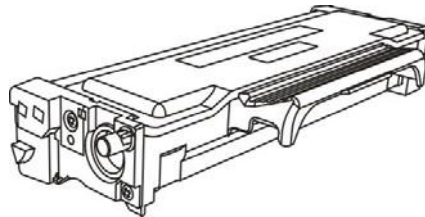
Laser toner cartridge is composed of drum component and toner cartridge.

Service life of drum component



Type	Average Print Volume
Longevity of drum component	About 12000 Pages (Based on ISO 19752 standard)

Service life of toner cartridge



Type	Average Print Volume
Standard-volume toner cartridge	About 1500 Pages (Based on ISO 19752 standard)
High-volume toner cartridge	About 3000 Pages (Based on ISO 19752 standard)



Note :

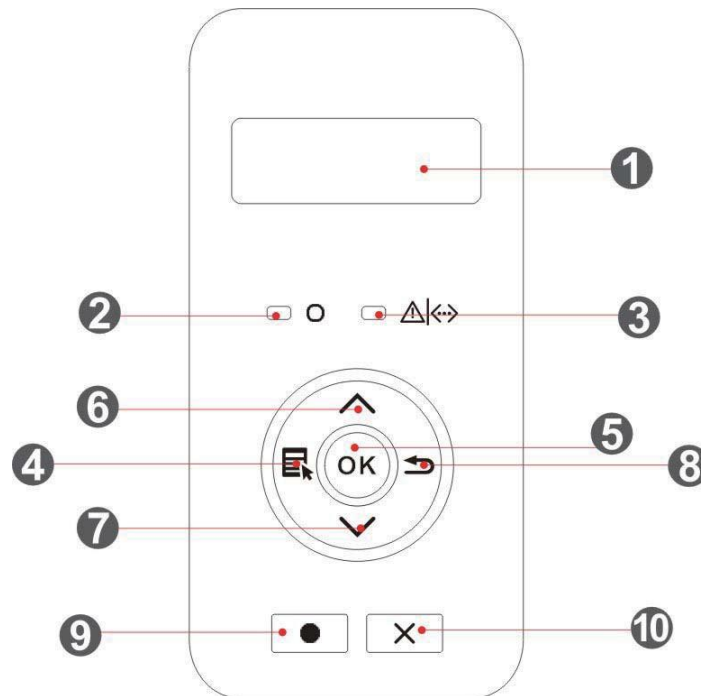
- SHARP does not recommend using consumables other than the original consumables provided, as any damages caused by non-original consumables are not covered by the scope of warranty.
 - Consumable's capacity may vary based on printing volume.
 - Toner cartridge appearance may differ based on volume and models, so the schematic diagram is only for your reference.
-

1.5. Control Panel

1.5.1.0 Overview of control panel

The layout of the printer control panel is shown below:

LCD control panel






No.	Name	Functions
1	LCD Display	Display operation interface and product information
2	Save toner indicator	Indicate the on/off of save toner function(Please refer to Chapter 1.5.2).
3	Toner cartridge/status indicator	Indicate the status of toner cartridge and printer (please refer to Chapter 1.5.2).
4	Menu	Open the main menu of the control panel.
5	OK	Confirm the selection on the screen.
6	UP	Scroll up through the menus and options. Change the numeric value by cycle accumulating.




		Scroll down through the menus and options.
7	Down	Shift the entry positions from left to right, for example, to input IP address entry.
8	Back	Return to the previous menu.
9	save toner key	Open save toner function.
10	Cancel	Exit operation.

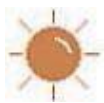


1.5.2. Indicator function of control panel

Display meanings of save toner indicator are as follows:

No.	Save toner indicator	Status	Status description
1		Die out	Turn save toner state function and sleep mode
2		Blue indicator blinks	None
3		Blue indicator normally on	Turn on save toner function

Display meanings of toner cartridge / status indicator are as follows:

No.	Display of toner cartridge/status indicator	Status	Status description
1		Die out	Sleep mode
2		Green indicator blinks	Warming up, printing, print cancelling
3		Green indicator normally on	Printer is ready

4		Orange indicator blinks	Low toner warning
5		Orange indicator normally on	Toner cartridge error (uninstalled ink cartridge, non-matching ink cartridge, invalid toner cartridge)
6		Red indicator normally on	Printer errors such as paper error (paper out, paper jam, paper feed failure), opened front cover

2. Paper and Print Media

2.1. Paper Specification

	Media Type	Plain paper (19-28 lb. bond), thin paper (16-19 lb. bond)
Automatic Feeder Tray	Media size	A4, Letter, A5, Legal, Statement, JIS B5, Folio, Oficio, Executive, ISO B5, A6, B6, 16K, Big 16K, 32K, Big 32K, Custom
	Media weight	16-28 lb. bond
	Maximum capacity of the tray	250 pages
Manual feed tray	Media Type	Plain paper (19-28 lb. bond), thin paper (16-19 lb. bond), thick paper (28 lb. bond- 74 lb. cover), transparent film, carton paper, label paper, envelope
	Media size	A4, Letter, Legal, Folio, Oficio, Statement, Executive, JIS B5, ISO B5, A5, A6, B6, Monarch Env, DL Env, C5 Env, NO.10 Env, C6 Env, Japanese Postcard, ZL, 16K, Big 16K, 32K, Big 32K, Yougata4, Postcard, Younaga3, Nagagata3, Yougata2, Custom
	Media weight	16 lb. bond- 74 lb. cover
	Maximum capacity of the tray	1 pages




- Note :**
- 21 lb. bond standard paper is recommended for this printer.
 - It is not recommended to use special paper extensively, which may affect the service life of the printer.
 - The print media that does not meet the guidelines listed in this User Guide may result in poor print quality, increased paper jam and excessive wear of the printer.
 - Properties such as weight, composition, texture and humidity are important factors affecting the printer performance and output quality.
-

Please note the following matters when selecting the print media:

1. Desired print effect: The print media selected should meet the requirement of the print tasks.
2. Surface smoothness: The smoothness of the print media may affect the sharpness of the print outcome.
3. Some print media may meet all the use guidelines contained herein, but they still cannot bring satisfactory effect. This may be due to incorrect operation, inappropriate temperature and humidity, or other factors beyond the control of SHARP. Before purchasing large quantities of print media, make sure that the print media meets the specifications specified in this User Guide.

2.2. Special Paper

This printer supports using the special paper for printing. Special paper includes: label paper, envelope, transparent film, thick paper, carton paper, thin paper.

 **Note :** • When using special paper or print media, be sure to select matched print type and size in the print settings to get the best print effect.

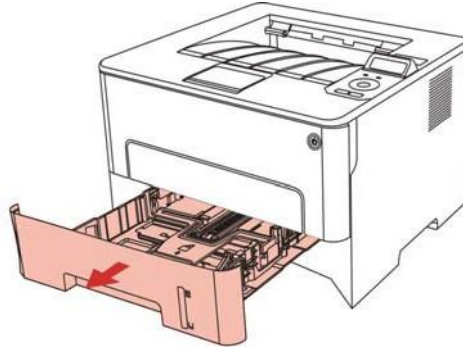
Please observe the following standards:

Types of Print Media	Correct Practices	Incorrect Practices
Label Paper	Use labels with no exposed lining paper only. Labels shall be placed flat when using. Use labels on full sheet only. There is no guarantee that all the labels in the market can meet corresponding requirements.	Use wrinkled, blistered or damaged label papers.
Envelope	Envelopes should be loaded evenly.	Use wrinkled, nicked, stuck or damaged envelopes. Use envelopes with clips, snaps, windows, or coated linings. Use envelopes with self-adhesive stickers or other synthetic materials.
Transparent Film	Only use transparent films approved for use in laser printers.	Use transparent print media that is not suitable for laser printers.
Thick Paper, carton paper	Only use heavy paper that is approved for use in laser printers and meets the weight specifications of this printer.	Use the paper whose weight is more than the specification of the media recommended for this printer, unless the paper is approved for use in this printer.

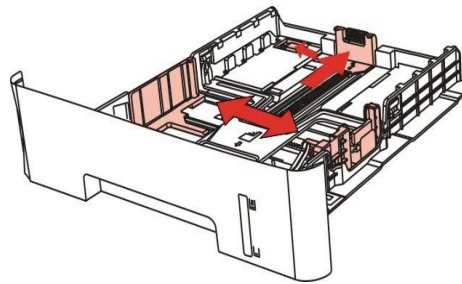
2.3. Loading Paper


2.3.1. Loading into the Automatic Feeder Tray

1. Slide out the automatic feeder tray from the printer.

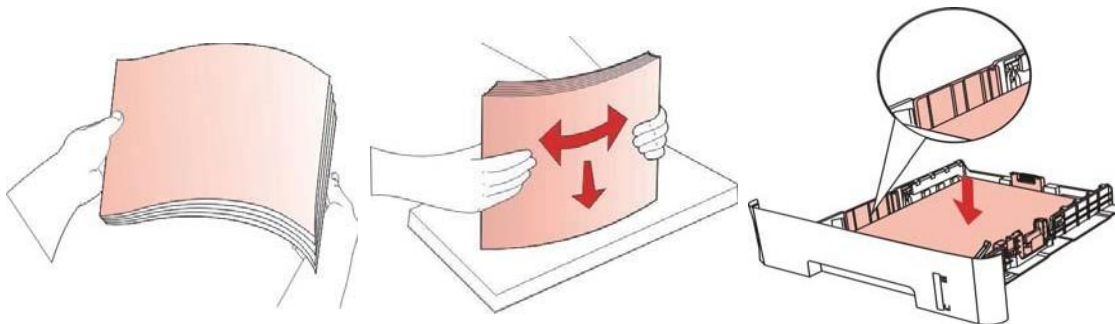


2. Slide the clip of extended tray of auto feed tray, paper length deflector and paper width deflector to the slot suitable for paper size, in order to match paper length and width.

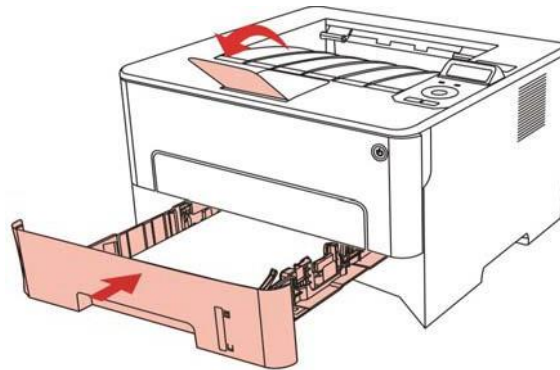


 **Note :** • Do not overly squeeze the "paper length guide" and "paper width guide", otherwise it could lead to deformation of paper.

3. Before loading paper, please unfold the stacked paper to avoid a paper jam or feed error, and then load the paper into the tray print-side down. The automatic feeder tray can be loaded up to 250 pages, 21 lb. bond paper.



4. Raise the output tray to avoid the printed paper from slipping and falling, or immediately remove the printed document after the printing is complete.



Note :

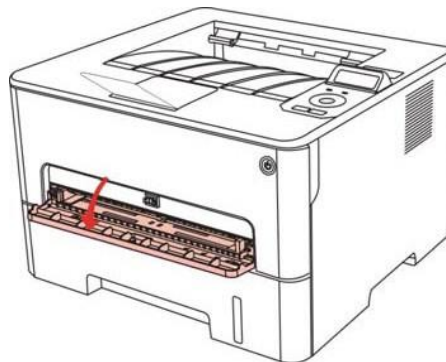
- If more than 250 pages (21 lb. bond) are put inside the auto feed tray at one time, may cause paper jam or paper feed failure.
- If carrying out single-sided printing, please make sure that the side to be printed (the blank side) is face down.

2.3.2. Install manual feed tray

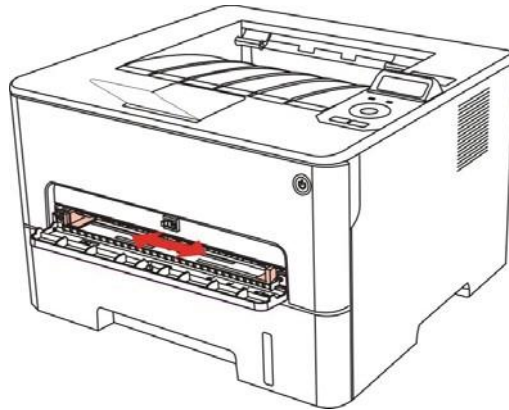
1. Raise the output tray to avoid the printed paper from slipping and falling, or immediately remove the printed document after the printing is complete.



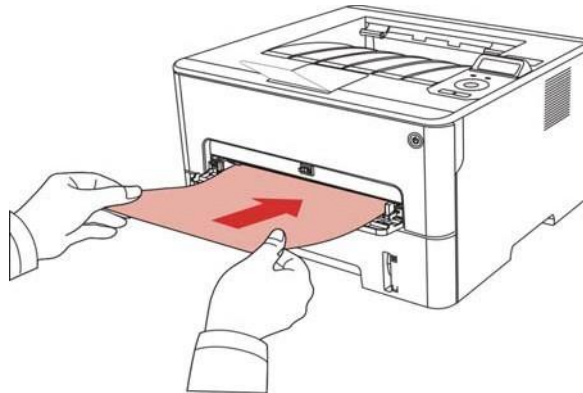
2. Open manual feed tray.



3. Slide the paper deflector of manual feed tray to match the two sides of paper. Do not use excessive force; otherwise, paper will be made jammed or skewed.



4. Put a flat printing medium into the manual feed tray with both hands.



-
- Note :**
- The printer will enter manual feed mode automatically when you put papers inside the manual feed tray.
 - Please put one printing medium inside the manual feed tray each time and put in another piece after finishing printing.
 - Put the printing medium inside the manual feed tray with the printing side up; the top of paper should be put inside first.
-

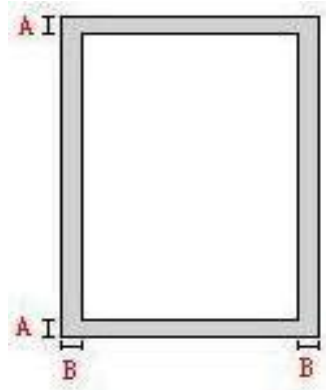
5. When the page is printed and in the output tray, put the second piece inside according to the above steps to continue printing. Slow action will lead to the prompt of paper out or paper failure of manual feed tray. After paper is put inside, printing will be resumed automatically; too quick action may make paper caught up in the printer, which will easily result in paper jam.



-
- Note :**
- After printing, please take out printed papers from printer immediately. Stacked papers or envelopes will lead to paper jam or wrapped paper.
-

2.4. Non-printable Area

The shaded area indicates the non-printable area.



Usage	Paper Size	Top and bottom margins (A)	Left and right margins (B)
Printing	A4	5mm(0.197inch)	5mm(0.197inch)
	Letter	5mm(0.197inch)	5mm(0.197inch)

2.5. Paper application rules

- Rough textured, uneven, oil stained and extremely smooth paper will make printing effect poor.
- Please make sure that there is no dust, fluff, etc. on the paper.
- Paper shall be put on a flat surface and stored in a cool and dry environment.

3.Driver installation and uninstallation

3.1. Driver installation based on Windows system

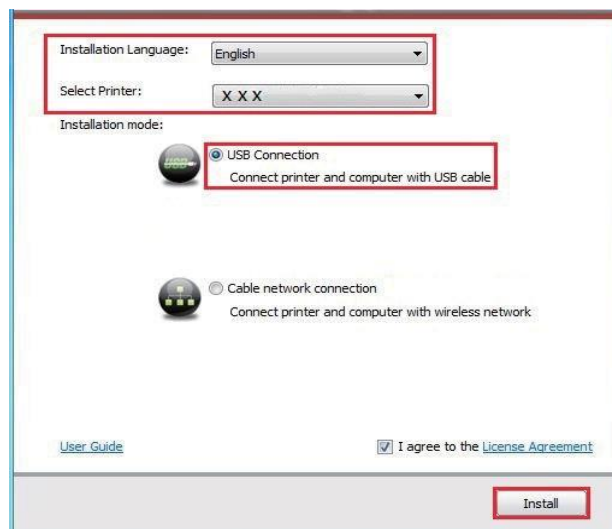
- Before installing the drive, you need to learn about printer model by printing the printer information page out and checking the product name (please refer to [Chapter 7.4](#) for printing methods).
- In case of a previously installed version of the driver, the installation language cannot be changed. Please uninstall the printer driver and then install the driver of new version.



Note: • Driver installation interface may differ because of different models and functions, so the schematic diagram is only for your reference.

3.1.1. Installation via USB connection

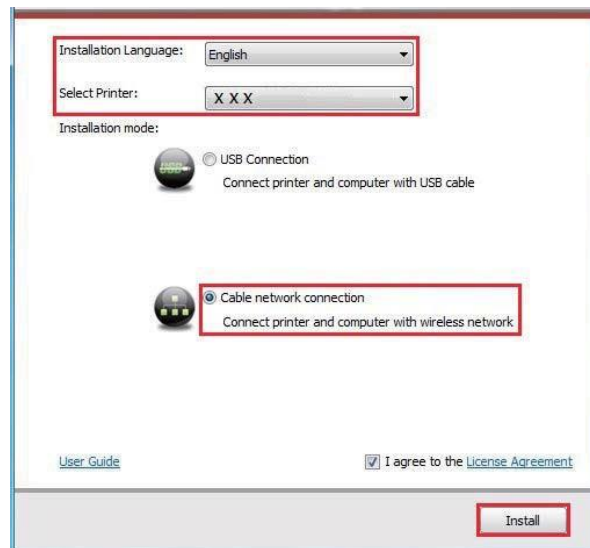
1. Connect the printer to computer with USB cable and then turn power on.
2. Insert the installation CD, accompanying the printer, into the CD driver of computer and operate Autorun.exe installation program.
3. Read and agree to the licensing agreement, select installation language and printer model, select “USB Connection” and then click “Install”.



4. It may take several minutes for the system starts to install the driver.
5. After installation is finished, an “Installation Complete” interface will pop up, which will automatically close in about 3s.

3.1.2. Installation via wired network connection

1. Turn the on the power on the printer and computer.
2. Connect the computer to wired network.
3. Connect network cable to the network interface of printer, to make sure the printer is connected to computer network (please refer to [Chapter 4](#) for network setup).
4. Insert the installation CD, accompanying the printer, into the CD driver of computer and operate Autorun.exe installation program.
5. Read and agree to the licensing agreement, select installation language and printer model, select “Cable network connection” and then click “Install”.



6. The installation program starts to search for printer automatically, and it may take a while.
7. After finishing searching, select the printer that needs to be connected and click “Next”.





Note: • If the printer you need to connect to is not in the list of printers searched, please “Refresh” to search again.

- If you want to install printer driver in the name of host, please click the “Printer Name” you need to connect and “Install the printer from the list with a hostname”.
 - If IP address or host name is added manually, you need to know the IP address of the printer connected or host name. If they are not made clear, please print the “Network setup page” and view “IP Address” and “Host name” (Please refer to [Chapter 7.4](#)).
-

8. It may take several minutes for the system to install the driver.
9. After installation is finished, an “Installation Complete” interface will pop up, which will close automatically in about 3 seconds.

3.1.3. Driver uninstallation

3.1.3.1. Uninstallation method

Windows 7 is taken as the example in the following operation. The information on your computer screen may differ because of multiple operating systems.

1. Click the Start menu of computer and then click All programs.
2. Click SHARP, and then Click SHARP XXX.
SHARP XXX where XXX represents product model.
3. Click uninstall to delete the driver according to instructions on uninstall window.
4. Restart computer after finishing unloading.

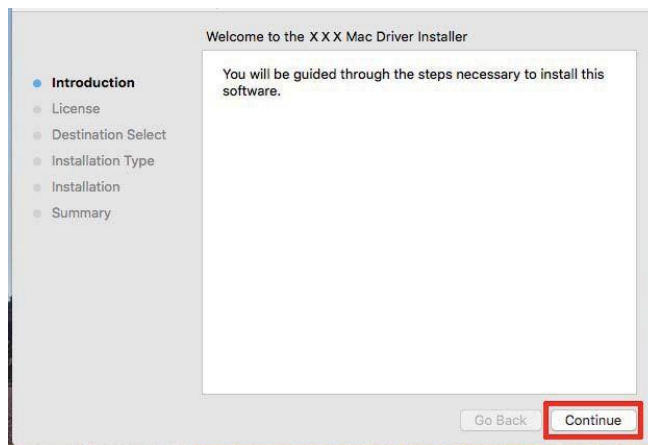
3.2. Driver installation based on Mac system

- Driver installation under Mac system is divided into 2 steps, driver installation and adding a printer. If you are going to print in AirPrint mode, there is no need to install a driver and you just need to add a printer directly.

3.2.1. Driver installation

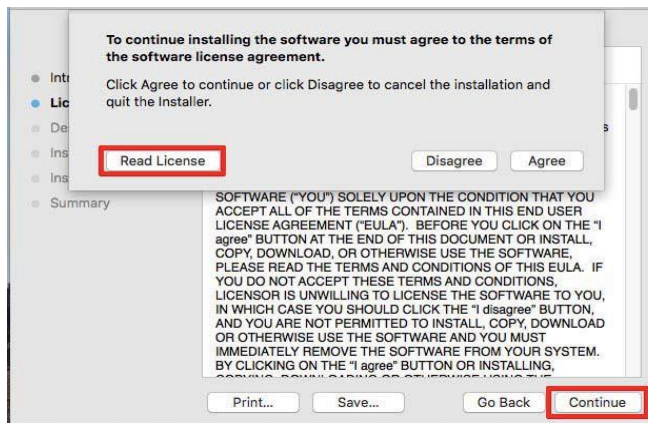
Mac 10.11 is taken as the example in the following operation. The information on your computer screen may differ because of different operating systems.

1. Turn on the power on for the printer and computer.
2. Insert the CD accompanying the printer in the CD driver of your computer, and double click SHARP XXX installation package. (XXX in SHARP XXX represents product model.)



3. Click "Continue".

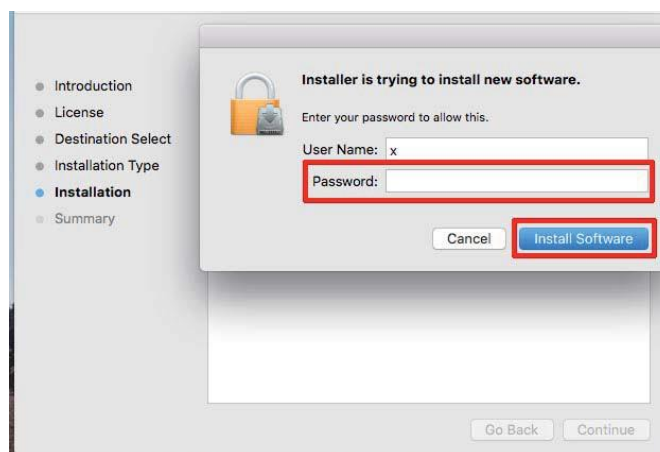
4. Read licensing agreement and then click "Continue".



5. Click "Agree" on the prompt window popping out to accept the licensing agreement.

6. Click "Install".

7. Input computer password and click "Install Software".




8. Click "Continue Installation" on the prompt window popping out.


9. The system will finish driver installation automatically.

3.3. Add printer to Mac system


3.3.1. Add in USB connection mode

1. Connect the printer to computer with USB cable and then turn power on.
2. Enter the “System Preferences” – “Printers & Scanners” of computer.
3. Click  button to select “Add Printer or Scanner”.
4. Select printer and then select the corresponding printer mode from the “Use” menu.
5. Click “Add”.

3.3.2. Addition in wired network connection mode

1. Turn the power of printer and computer on.
2. Connect the computer to wired network.
3. Connect the network cable to the network interface of printer, and make sure the printer is connected to the computer network (Please refer to [Chapter 4](#) for network setup).
4. Enter the “System Preferences” – “Printers & Scanners” of computer.
5. Click  button to select “Add Printer or Scanner”.
6. Select printer and then select the corresponding printer mode from the “Use” menu.
7. Click “Add”.

3.3.3. Add AirPrint printer

1. Turn on the power of the printer and computer.
2. Make sure the connection between printer and computer is set up (USB connection or network connection).
3. Enter the “System Preferences” – “Printers & Scanners” of computer.
4. Click  button to select “Add Printer or Scanner”.
5. Select printer and select “Secure AirPrint” (data encryption) or “AirPrint” (no encryption) in the “Use” option box.
6. Click “Add”.



-
- Note:** • When the printer is connected to a computer with USB cable, the system will recognize and add AirPrint automatically.
- If AirPrint printer of network connection is added, then the connecting USB cable should be disconnected first before adding the printer.
 - AirPrint printer is named after the ending of “AirPrint”.
-

4. Wired network setup

In case printers support wired network printing, they can be connected to network to control printer to print in wired network mode.

4.1. Set IP Address

The IP address of the printer may be automatically obtained through DHCP function or set manually.

4.1.1. Automatic Setting

DHCP automatic setting function is enabled by default on the printer.

1. Connect the printer to the network through a network cable and complete the startup preparation work.
2. The printer will receive the IP address assigned by the server automatically. It may take server minutes to receive an IP address under the influence of network environment.

You can check the IP address of the printer by printing the "Network setup page" out (please refer to [Chapter 7.4](#) for printing method) or check network information by viewing the control panel of the printer (please refer to [Chapter 7.3](#) for viewing methods). If the IP address is not listed, please check network environment and then try again after waiting for several minutes.



Note : • If DHCP server fails to assign IP address automatically, the printer will get the link-local address assigned by printer automatically: 169.254.xxx.xxx.

4.1.2. Manual Setting

To set up IP address for the printer through the control panel of the printer manually, please refer to [Chapter 7.2](#) for details.

To set up IP address for the printer through the embedded Web server manually, please refer to [Chapter 5.2.1](#) for details.

5. Web server

You can manage printer setup via the embedded Web server.

5.1. Visit the embedded Web server

1. Turn on the power for the printer and computer.
2. Connect the printer to network to ensure that the printer is connected to the network where the computer is connected to (please refer to [Chapter 4](#) for network setup method).
3. Input the IP address of printer in the address bar of Web browser to visit the Web server imbedded in printer.

View the IP address of printer via control panel (please refer to [Chapter 7.3](#)) or print the “Network setup page” out to view the IP Address of printer (please refer to [Chapter 7.4](#)).



Note : • Windows users are suggested to use Microsoft Internet Explorer 8.0 (or higher version) or Firefox 1.0 (or higher version), Mac users are suggested to use Safari 4.0 (or higher version). No matter what kind of browser you are using, please ensure that JavaScript and Cookies are always enabled. Please ensure compatibility with HTTP 1.0 and HTTP 1.1 when other network browsers are used.

- If the computer cannot visit the Web server embedded in printer, then your computer and printer may be connected to different networks. Please inspect your network environment or consult your network administrator.

-
4. Click “Log in” option, input user name and password (the default user name is admin and the initial password is 000000) and click “Log in”.

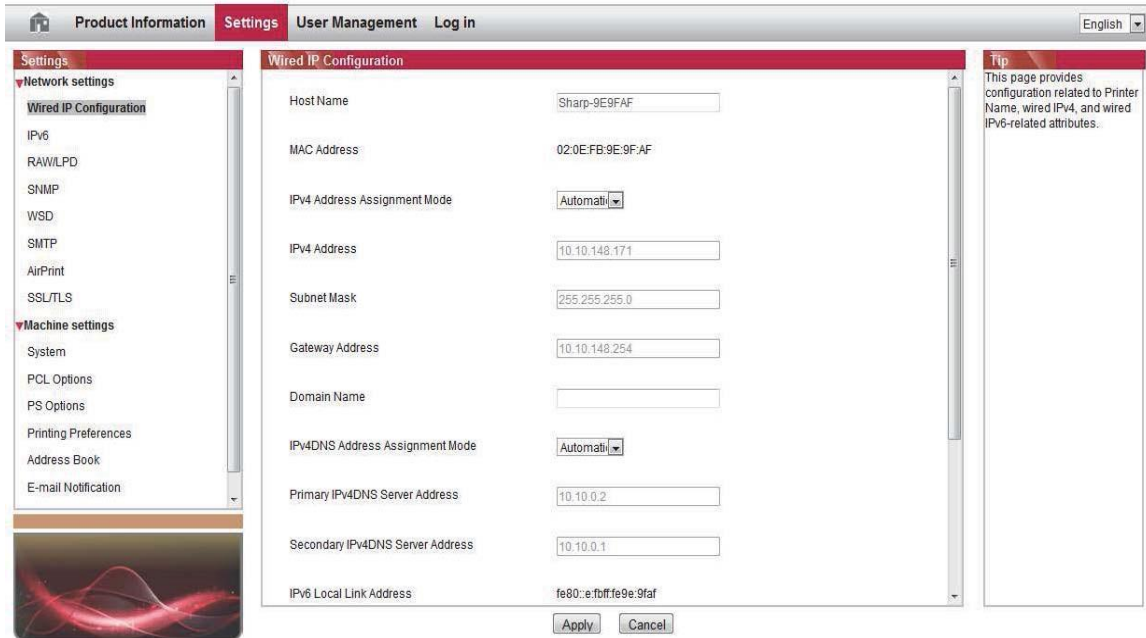


Note : • For safety reasons, you are suggested to change the default password, which can be done in the “User Management” interface.

5.2. Use Web server to manage printer

You can use the embedded Web server to manage the printer.

1. View the basic information including product name, printer state and ink cartridge of printer.
2. Set up the network protocol parameters supported by printer.
3. Set up mail server client and acquire printer state via E-mail notification.



5.2.1. IP address setup

You need to connect your printer to network before IP address setup.

1. In case of wired network model, connect the printer to wired network by connecting to its network interface with network cable.

5.2.1.1. IPv4 setup

IPv4 address of the printer is divided into DHCP auto assignment and manual setting, and the DHCP auto assignment function is on by default. You can set up the IPv4 address of printer manually to set up fixed IPv4 address for the printer.

1. Turn on printer power to connect printer to network.
2. Log in the embedded Web server (please refer to [Chapter 5.1](#) for login method).
3. Click “Settings” – “Network settings” – “Protocol Settings” – “Wired IP Configuration”.
4. Set the IPv4 address assignment mode as “Manual”.
5. Input “IPv4 Address”, “Subnet Mask” and “Gateway Address”, and then click “Apply”.

5.2.1.2. IPv6 setup

1. Turn on printer power to connect printer to network.
2. Log into the embedded Web server (please refer to [Chapter 5.1](#) for login method).
3. Click “Settings” – “Network settings” – “Protocol Settings” – “IPv6”.
4. Click “Enable IPv6 protocol” and “Enable DHCPv6” (clicked by default) and then click “Apply”.

Refresh the browser and view the “IPv6 Local Link Address” and “Stateful Address” in “Wired IP Configuration” interface.



Note : • The printer supports using the following IPv6 addresses for network printing and management.

- IPv6 local-link address: local IPv6 address set up by oneself (addresses beginning with FE80).
 - Stateful address: IPv6 address set up by DHCPv6 server (if there is no DHCPv6 server in network, the “Stateful Address” cannot be assigned).
 - Stateless address: IPv6 address set up by network router automatically (please refer to [Chapter 7.4](#) and print “Network setup page” view IPv6 address).
-

5.2.2. Machine setup

You can add mail address contacts, set up e-mail notification, set up sleep time and recover factory settings via machine setup page.

5.2.2.1. Set up e-mail notification

If you set up e-mail notification, an e-mail will be sent to the mail address specified by you when abnormalities such as paper out occurs. You can receive emails only if you made correct email setup. Please consult your network administrator for detailed setup steps. You need to log in the embedded Web server before setting up email notification (please refer to [Chapter 5.1](#) for login method).

I. Set up SMTP client

1. Click “Settings” – “Network settings” – “Protocol Settings” – “SMTP”.
2. On SMTP page, input SMTP server address, set up the mailbox login name and password and then click “Apply”.

II. Add recipient address

1. Click “Settings” – “Machine settings” – “Address Book” .
2. Click “Add”, input recipient address and then click “Apply”.

III. Set up email notification

1. Click “Settings” – “Machine settings” – “E-mail Notification”.
2. Click button and select the email addresses you want to add to the list of contacts. You can also click “address X” (such as address 1) and input the email addresses you want to add. 3.
3. Click the email addresses and notification contents you want to notify and then click “Apply”.

5.2.2.2. Sleep time setup

The default sleep time of printer is 1 minute and it can be changed via the embedded Web server (the printer installed via network connection).

1. Log into the embedded Web server (please refer to [Chapter 5.1](#) for login method).
2. Click “Settings” – “Machine settings” – “System”.
3. Select sleep time according to your needs and then click “Apply”.

5.2.2.3. Recover factory settings via Web server

1. Log in the embedded Web server (please refer to [Chapter 5.1](#) for login method).
2. Click “User Management” and then click “Restore to Factory Settings” to recover factory settings. The printer will restart automatically after factory settings recovery is finished.

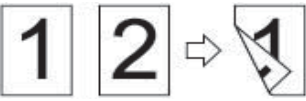








- Note :**
- After factory settings of printer are recovered, user name of the administrator will be recovered to admin and the login password will be recovered to 000000.
 - You can also recover factory settings via keys on the control panel of printer, please refer to [Chapter 7.1.5](#).
 - If factory settings of your printer are recovered, the sleep time will be recovered to 1 minute automatically.
-

6. Print

6.1. Print Function

You can set the print function through "Start" - "Devices and Printers" - select corresponding printer- right click – set print function in "Printing preferences". Some functions are as follows:

Functions	Diagram
Automatic Two-Sided Printing	
Collate Print	
Reverse Print	
N-in-1	
Poster Print(for Windows Operation System only)	
Zoom Print	
Custom Size	



Note : • Windows 7 is taken as example in the above description.

- You can utilize poster printing feature by selecting 2x2 poster printing in multipage.
- You can enable printing preference and click the help button to view detailed function description. Please refer to [Chapter 6.9](#) for the method to open help document.

6.2. Print Settings

You can set up printing parameters with the following two methods before sending work to printer (such as paper type, paper size and paper source).

Operating system	Temporary printing setup change	Permanent default setup change
Windows 7	1. Click "File" menu – "Print" – "Select printer" – "Printer properties" (the detailed steps may differ because of multiple operating systems).	1. Click "Start" menu- "Control Panel" – "Devices and Printers". 2. Right click on the printer icon, select "Printing preference" and then change setup and save it.
Mac OS	1. Click "File" menu – "Print". 2. Change setup in the window popping out.	1. Click "File" menu – "Print". 2. Change setup in the window popping out and click to save the preset. (Select preset every time before printing, or print according to default setup.)



Note : • Priority of App setup is senior to printer setup.

6.3. Cancel printing

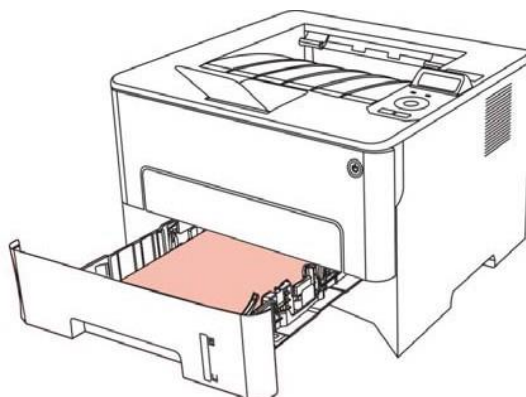
The current printing work can be cancelled in printing process. As for printers with LCD control panel, the printing job can be cancelled by pressing "Cancel"; as for printers with LED control panel, the printing job can be cancelled by pressing the "Cancel" key for more than 2 seconds.

6.4. Printing Mode

The printer can print with the auto feed tray and manual feed tray. The default setting is auto selection, and if there is printing medium in the manual feed box, papers in manual feed tray will be used first.

6.4.1. Printing with the Automatic Feeder Tray

Before printing, please make sure that the correct quantity of print media is installed inside the auto feed tray, and there is no print media in the manual feed tray.

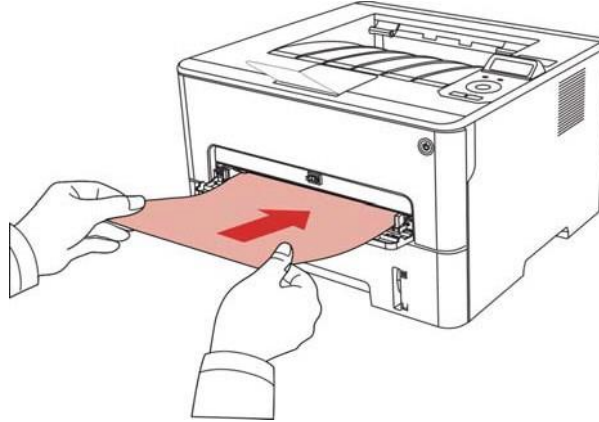




-
- Note :**
- For precautions on loading paper, see [Chapter 2](#).
 - For the type of media to be printed with the automatic feeder tray, see [Chapter 2.1](#).
-

6.4.2. Printing with manual feed tray

When you put papers in the manual feed tray, the printer will enter manual feed mode.



-
- Note :**
- Manual feed mode means that papers will be fed from the manual feed tray first if there are papers being put inside it.
 - Generally, the manual feeder tray is used to print on special paper, such as envelopes, transparencies, etc., and only one piece of paper can be loaded each time.
 - Please refer to [Chapter 2](#) for putting papers inside manual feed tray.
 - Please refer to [Chapter 2.1](#) for type of mediums that can be printed via manual feed tray.
-

6.5. Automatic Two-Sided Printing

The printer supports automatic two-sided printing of plain paper. Paper size supported by the automatic two-sided printing: A4, Letter, Legal, Oficio/Folio (8 ½" x 13"), 16K.



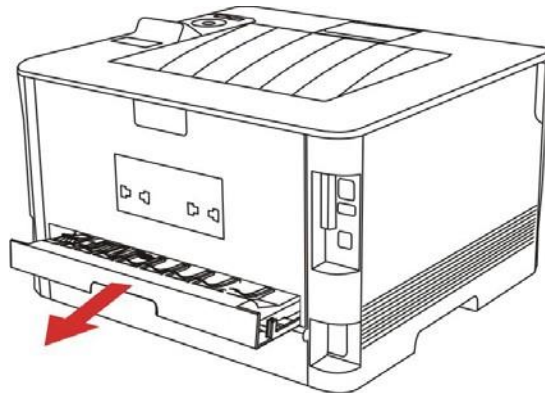
- Note :**
- Trying the automatic two-sided printing may damage the printer if some paper media are not suitable for automatic two-sided printing.
 - Auto duplex printing does not support poster printing.
 - Please refer to [Chapter 2](#) for paper loading and type of mediums that can be printed via auto feed tray.

6.5.1. Duplex printing unit setup

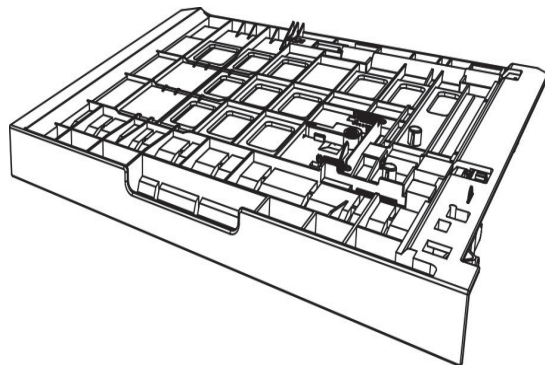
To achieve the best printing result, you can set up the paper size of duplex printing unit. As for duplex printing of A4 and 16K papers, the slide should be adjusted to the A4 position; as for Letter, Legal, Folio and Oficio (8 ½" x 13") duplex printing, the slide should be adjusted to the Letter position.

Setup steps of duplex unit are: 1.

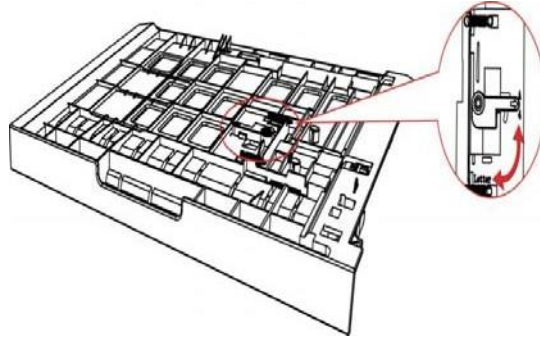
Draw out duplex unit.



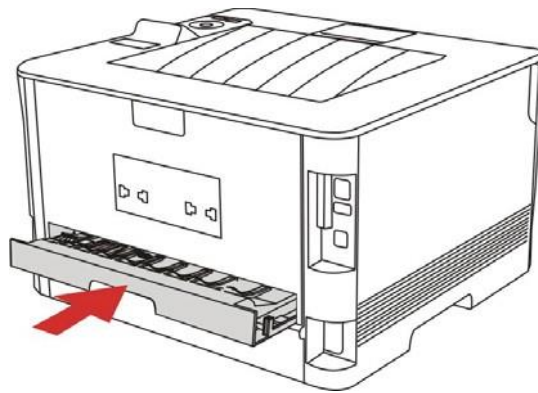
2. Keep the backside of duplex unit up.



3. Adjust paper size slide to A4 or Letter position to finish setting up.



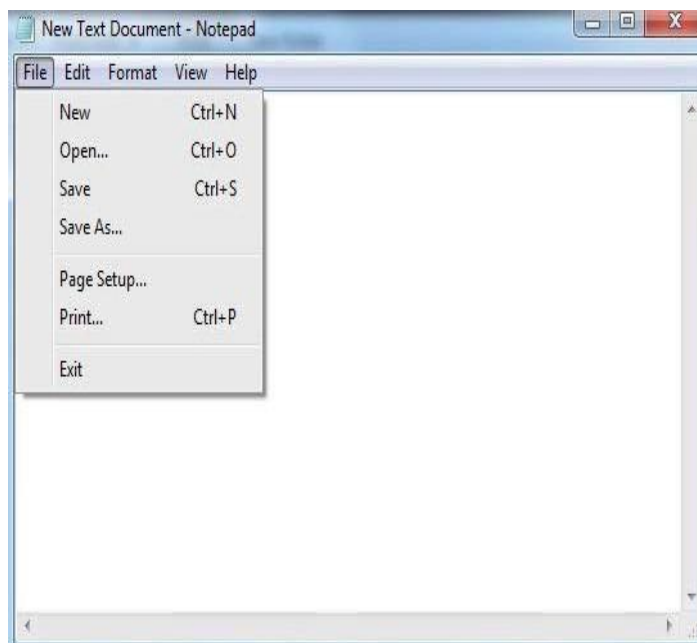
4. Install the duplex unit in the printer.



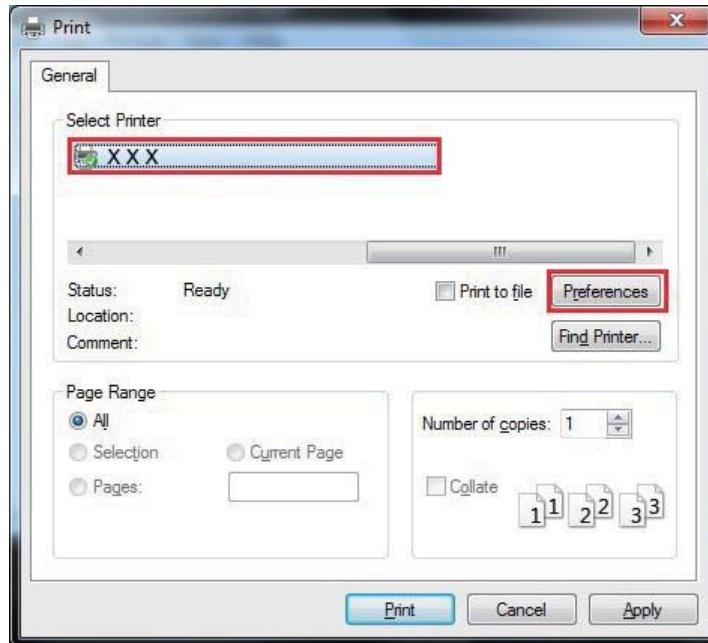
6.5.2. How to carry out auto duplex printing

1. Open the print job to be printed from the application (such as a Notepad).

2. Select Print from the File menu.

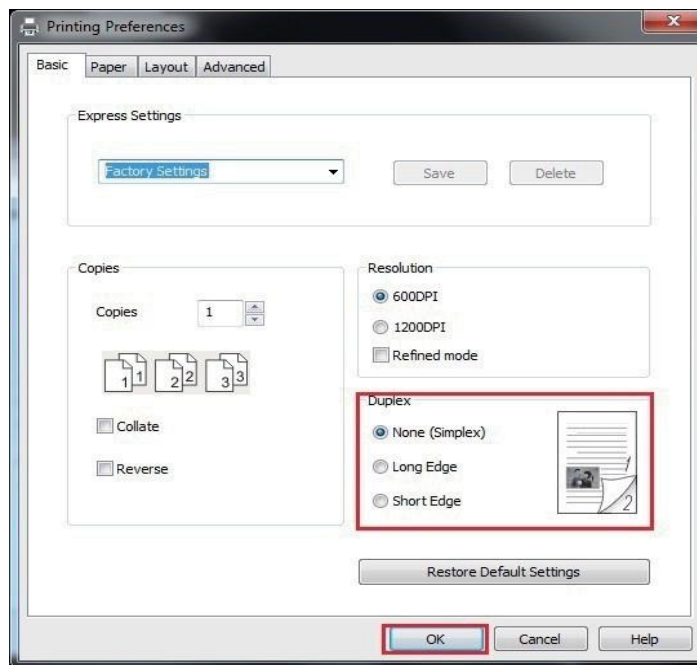


3. Select printer of the corresponding model.

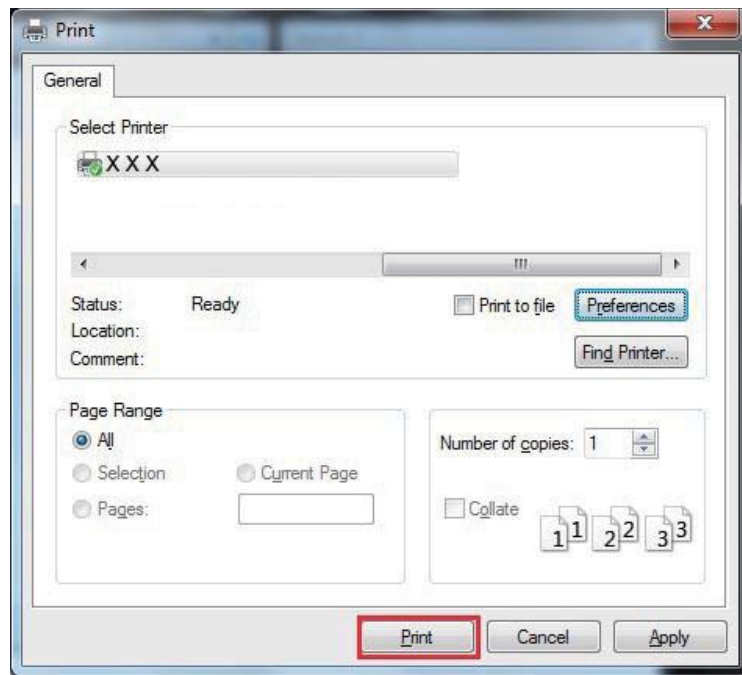


4. Single click "Preferences" for printing setup.

5. Select the "Duplex" in "Basic" tab and then select "Long Edge" or "Short Edge".



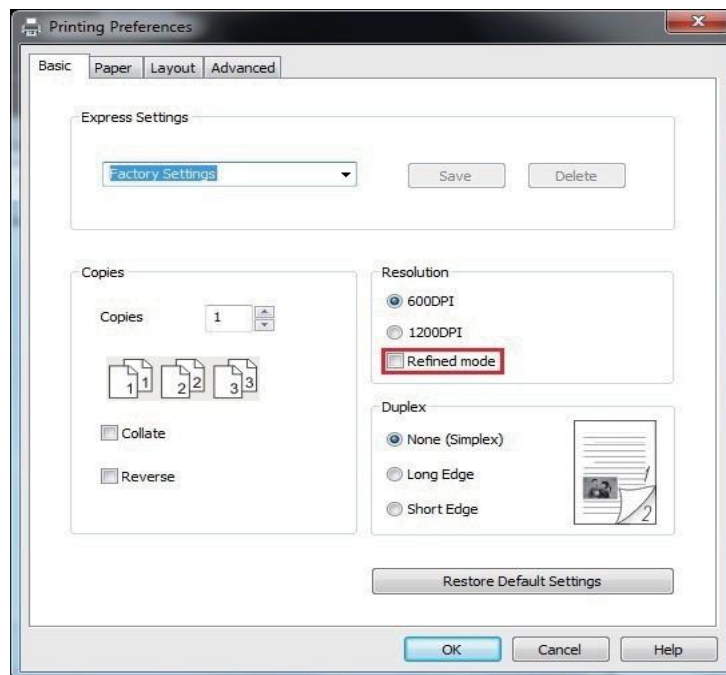
6. Single click "OK" to finish printing setup. Click "Print" to realize auto duplex printing.



6.6. Fine mode printing

The Fine mode is applicable to engineering drawings and fine lines printing.

Set up fine mode in the basic page of printer preferences After setup, fine printing mode can be realized.



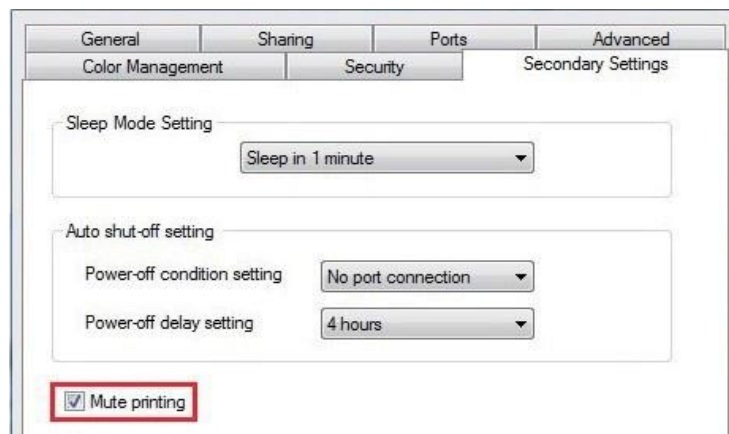
6.7. Mute printing

If the Mute Printing is set, the printing noise will be reduced but the printing will slow down to some extent.


The operating steps of mute printing are as follows (applicable to printers that are installed via USB connection)

Windows 7 is taken as the example in the following operation. The information on your computer screen may differ because of multiple operating systems.

1. Enter the “Start menu” – “Control Panel” –view “Devices and Printers”.
2. Right click printer and select “Printer properties” in the pull-down menu.
3. Enter the “Secondary Settings” option.
4. Click “Mute printing” and click “Ok” to finish setup.



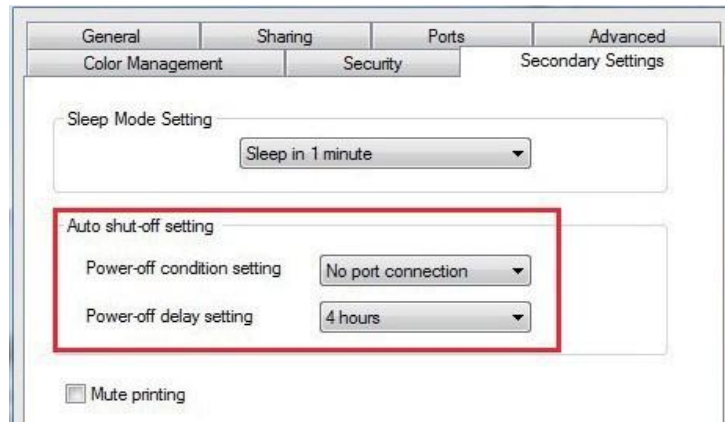
5. Open the printing work from the App, select a printer of the corresponding model and then set up printing according to needs.
6. Click “Print” to realize mute printing.

 **Note :** • Printers with LCD control panel can be set to mute printing with keys on control panel directly, please refer to [Chapter 7.1.4](#).

6.8. Auto shut-off setting

“Auto shut-off setting” to set shut-off delay for the printer.

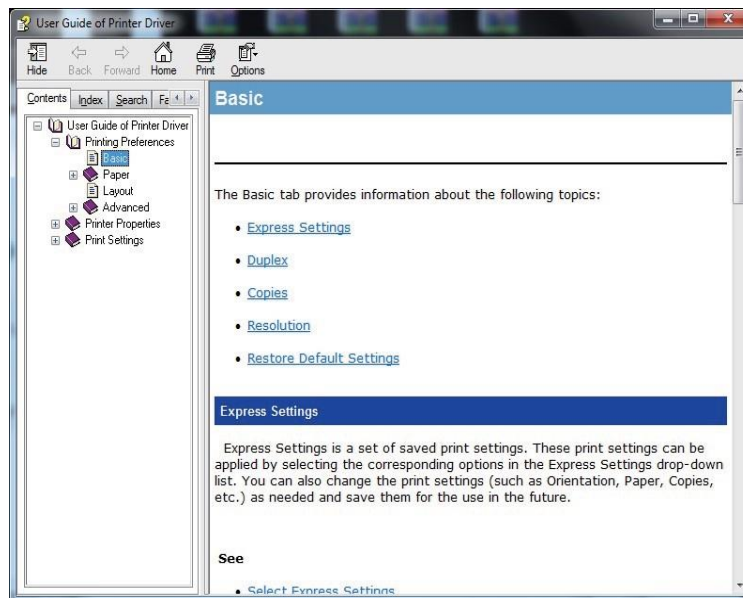
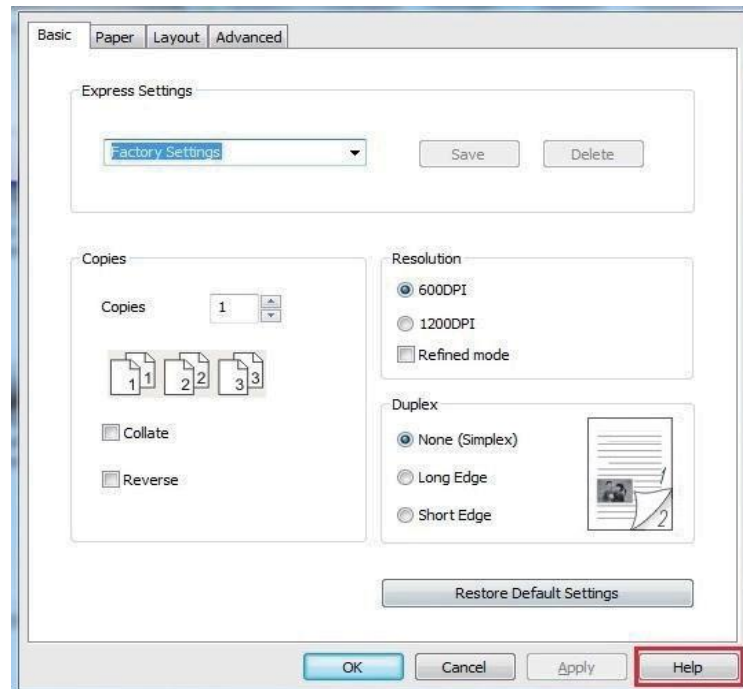
1. Enter computer “Start Menu” – “Control Panel” – View “Devices and Printers”.
2. Right click printer, select “Printer properties” in the drop-down list.
3. Enter “Secondary Settings” option and set “Auto shut-off setting”.
4. Click “OK” to finish setting.



-
- Note:**
- For printer provided with LCD control panel, users may set auto off function through control panel keys. Please refer to [Chapter 7.1.6](#).
 - Individual countries (or regions) do not support auto-off setting.
-

6.9. Open Help Document

You can open the "Printing preferences" and click "Help" button (for Windows Operation System only). The help document contains the user guide where you can find the information on print settings.



7.General Settings

This Chapter mainly introduces some general settings.

7.1. System Setting

7.1.1. Language Setting

"Language Setting" is used to select the language to be displayed on the control panel.

- 1) Press "Menu" to enter the Menu Settings interface.
- 2) Press "OK" to select the "1. System Setting" option.



- 3) Press "OK" key to select "1. Language Set" option to set language, as shown in the below figure:




7.1.2. Sleep Time Setting

Sleep mode can reduce the energy consumption of the printer and “Sleep time setting” is used in the idle time before the device enters sleep mode.

- 1) Press "Menu" to enter the Menu Settings interface.
- 2) Press "OK" to select the "1. System Setting" option.
- 3) Press direction key “▲” or “▼” to select “2. Sleep time Set” option, and press “OK” key to set the corresponding sleep time.

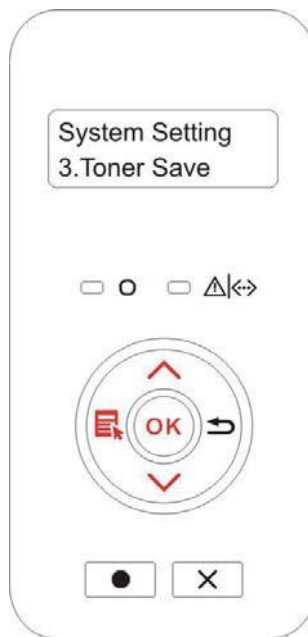


-
-  **Note:**
- In sleep mode, the printer can be woken up by pressing any key or sending the print job to the printer.
 - Sleep time of network printer can be set with the embedded Web server (Please refer to [Chapter 5.2.2.2](#)).
-

7.1.3. Toner Save

You can select the save toner mode which can reduce toner consumption and reduce printing cost. When save toner mode is “on”, the printed color will be lighter. Save toner mode is “off” by default.

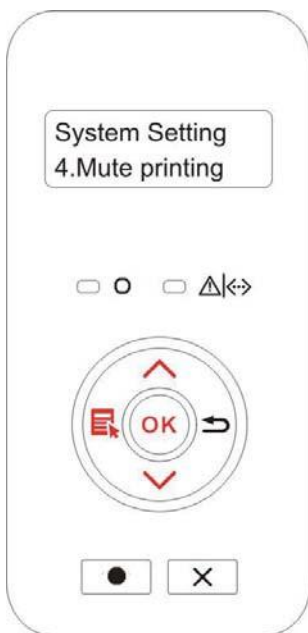
- 1) Press "Menu" to enter the Menu Settings interface.
- 2) Press "OK" to select the "1. System Setting" option.
- 3) Press direction key “▲” or “▼” and select “3. Toner Save” option and press “OK” key to turn on/off this mode.



7.1.4. Mute printing

Set mute mode to establish low speed printing with low noise. When mute mode is “on”, printing will be in a low speed. This mode is “off” by default.

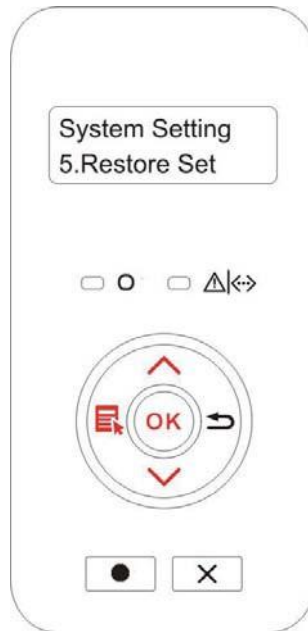
- 1) Press "Menu" to enter the Menu Settings interface.
- 2) Press "OK" to select the "1. System Setting" option.
- 3) Press direction key “▲” or “▼” and select “4. Mute printing” option and press “OK” key to turn on/off this mode.



7.1.5. Restore Factory Settings

"Recover factor settings" is used to recover the default settings of the printer. The printer will restart itself automatically after recovering factory settings.

- 1) Press "Menu" to enter the Menu Settings interface.
- 2) Press "OK" to select the "1. System Setting" option.
- 3) Press direction key "▲" or "▼" to select the "5. Restore Set" option and press "OK".



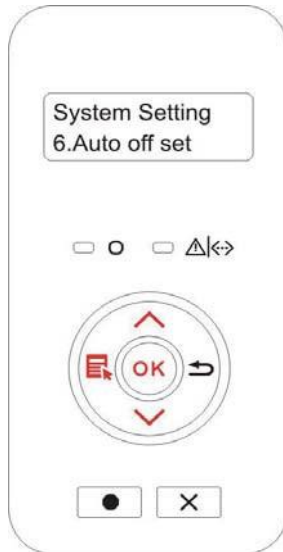
Note : • Factory settings of network printer can be recovered via embedded Web server (please refer to [Chapter 5.2.2.3](#)).

- As for printers with LED control panel, press the power key to turn printer on and then press the Cancel/Continue key for more than 2 seconds until the two green status lights on the panel start to blink at the same time. Then, release the key and wait for factory settings of the printer to recover. The printer will restart itself automatically after finishing recovering factory settings.

7.1.6. Auto shut-off setting

"Auto shut-off setting" to set the off condition and off delay of printer.

- 1) Press "Menu" to enter the Menu Settings interface.
- 2) Press "OK" to select the "1. System Setting" option.
- 3) Press direction key "▲" or "▼" to select options of "6. Auto off set", press "OK" to set off condition and off delay.



Note: Set auto off condition:

- Shutdown under no-port state (default configuration): no port is connected, printer is under standby or sleep mode.
- Shutdown under idle state: the printer is under standby or sleep mode.
- If auto off condition is satisfied, printer will be off at the preset time.
- After printer is off, power consumption is 0.5W or lower.

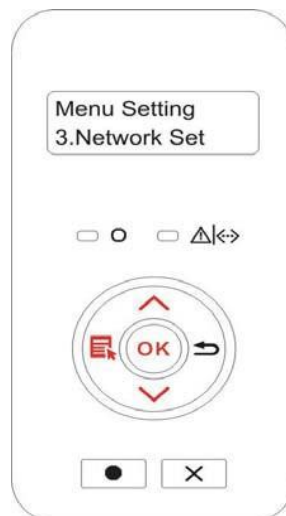
7.2. Network Settings

You can check or set network status via network setting.

- 1) Press "Menu" to enter the Menu Settings interface.
- 2) Press direction key "▲" or "▼" and select "3. Network Set" option and press "OK" key to set "Wired network setting".



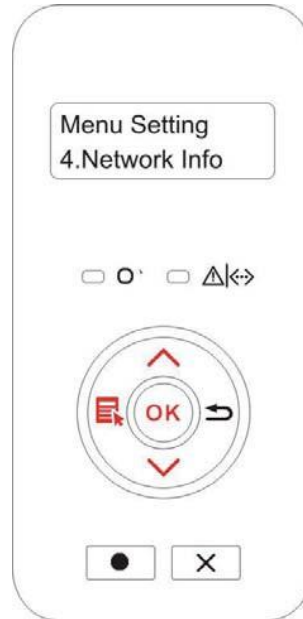
Note : • To set IP address, subnet mask and gateway, press direction key "▲" to circularly accumulate values from "0-9", press direction key "▼" to circularly input the position from left to right, press "OK" key to save setting and press "Return" key to return to the previous menu.



7.3. Network Information

You can check the network status through Network Information.

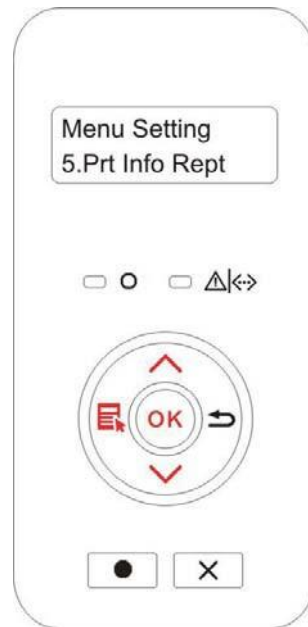
- 1) Press "Menu" to enter the Menu Settings interface.
- 2) Press direction key "▲" or "▼" and select "4. Network Info" option and press "OK" key to view "wired network information".



7.4. Print information report

You can print information report by operating control panel. These pages can help you to learn about product information and diagnose and solve product failures.

- 1) Press "Menu" to enter the Menu Settings interface.
- 2) Press direction key "▲" or "▼" and select "5. Prt Info Rept" option.



- 3) Press the "OK" key to enter the print information report menu. You can print the product report according to your needs.

The product reports that can be printed include: the demonstration page, information page, menu structure page, network setup page, PCL font list page and PS font list page.



Note : • The product report above is the most complete version and may be different from the product report of model that you actually use.

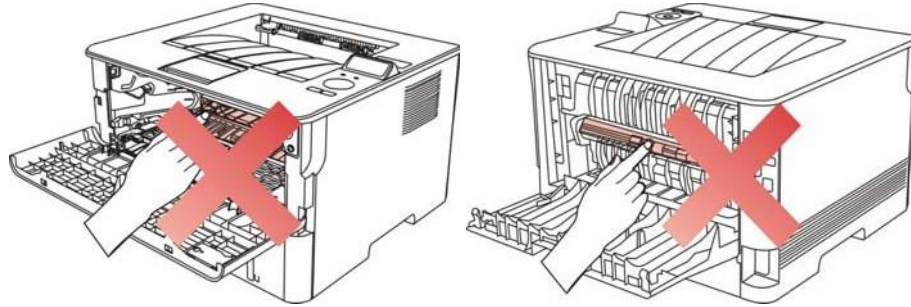
8. Routine Maintenance

8.1. Cleaning the Printer

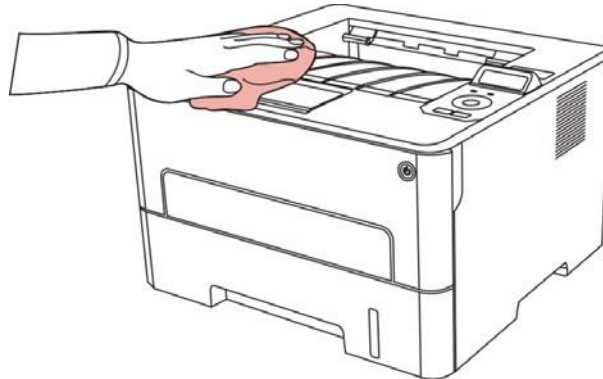


Note : • Please use mild detergents.

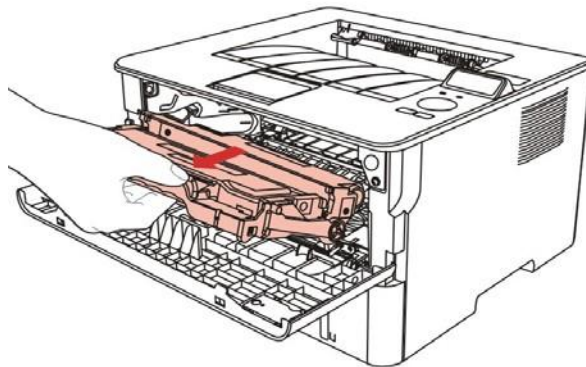
• Some parts of the printer may still be hot for a short period after use.
When opening the front cover or rear cover to clean the parts inside the printer, please do not touch the parts in the shaded area as shown in the following picture.



1. Use a soft cloth to wipe the outside of the printer clean.



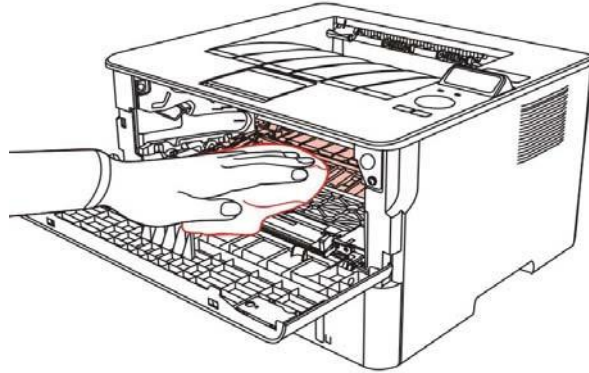
2. Open the front cover and take the laser toner cartridge out along the track.



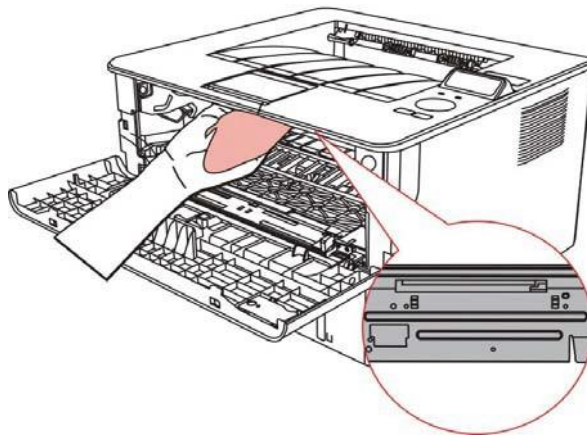


Note : • When removing the toner cartridge, put the toner cartridge in a protective bag or wrap it with thick paper to avoid direct light damaging the toner cartridge.

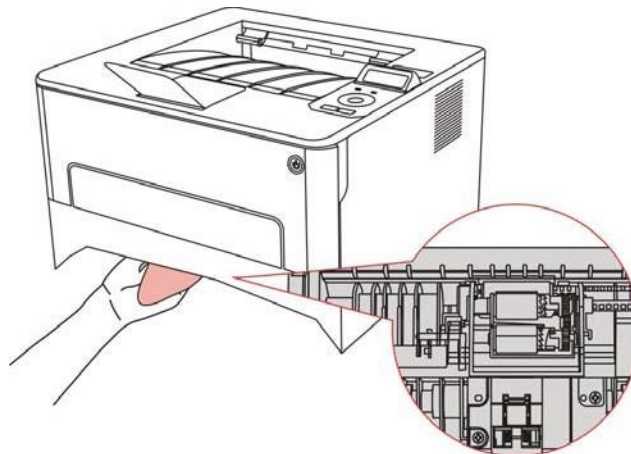
3. Clean the inside of the printer by gently wiping the shaded area, as shown in picture, with a dry and lint-free cloth.



4. Wipe the LSU lens of printer gently with dry lint cloth.



5. Open the auto feed tray and wipe the pickup roller gently with dry lint cloth.



8.2. Toner cartridge and drum component maintenance

8.2.1. About toner cartridge and drum component

1. Application and maintenance of toner cartridge

Please use the original toner cartridge for better printing quality.

Please pay attention to the following items while using the toner cartridge:

- Do not take the toner cartridge out of its package unless it will be used immediately.
- Do not refill the toner cartridge without permission; otherwise, the damages caused will not be included in the scope of warranty of the printer.
- Please place the toner cartridge in cool and dry places.
- Please do not place the toner cartridge near ignition sources, as the toner inside it is inflammable and may cause fire.
- Please pay attention to toner leakage while it is taking out or disassembled. In case of toner leakage, skin contact with toner or spattering into eyes or mouth, please wash it with clear water immediately, or see a doctor if feeling unwell.
- Toner cartridge should be placed out of reach of children.

2. Service life of toner cartridge

- The service life of toner cartridge is depending on the toner quantity needed by printing.
- For printers with LED control panel, normally-on orange toner cartridge indicator means that the service life of toner cartridge has expired, and a new toner cartridge should be replaced.
- For printers with LCD control panel, normally-on orange toner cartridge indicator or “Ctg life expired” displayed on LCD display means that the service life of toner cartridge has expired, and a new toner cartridge should be replaced.

3. Service life of drum component

- For printers with LED control panel, normally-on red drum component indicator means that the service life of drum component has expired, and a new drum component should be replaced.
- For printers with LCD control panel, “Drum Unit Life End” displayed on LCD display means that the service life of drum component has expired, and a new drum component should be replaced.

8.2.2. Replace toner cartridge and drum component

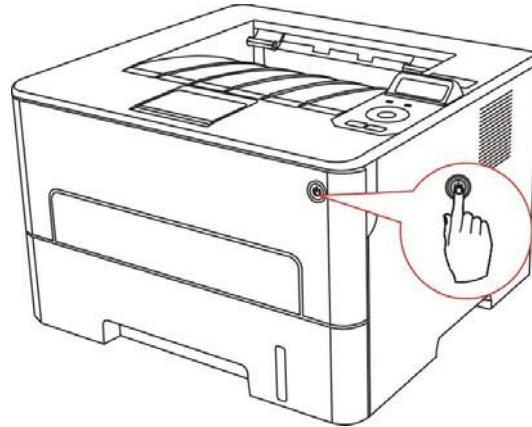


Note: Please pay attention to the following matters before replacing toner cartridge:

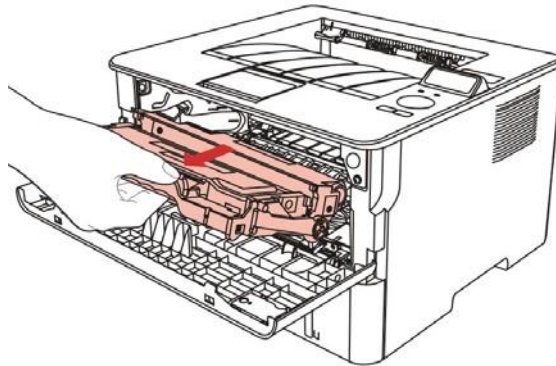
- Since there may be toner on the surface of toner cartridge, please pay attention while taking it out to avoid spattering.
 - Please place the toner cartridge taken out on paper to avoid large-scale spattering of toner.
 - When installing, do not touch the surface of the toner cartridge, so as to avoid scratching it.
-

Toner cartridge replacement steps:

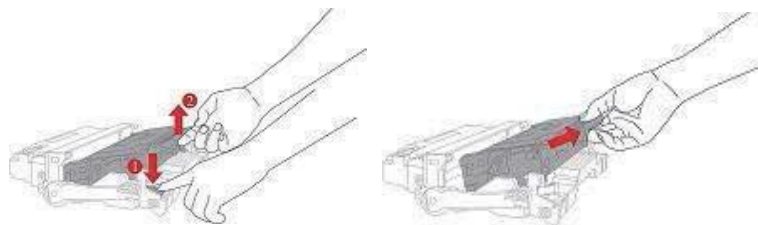
1. Power off the printer.



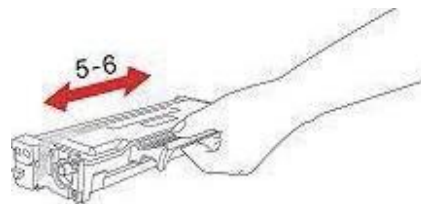
2. Open the front cover and take the laser toner cartridge out along the track.



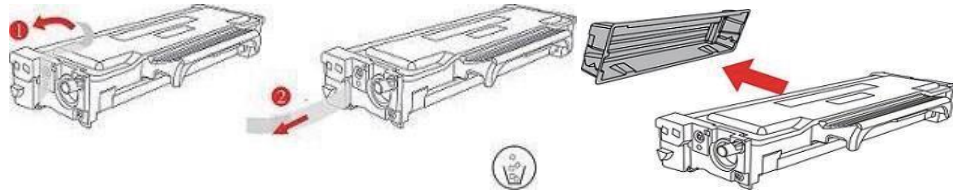
3. Press the blue button on the left side of drum component with left hand and lift the toner cartridge handle with right hand at the same time to take the toner cartridge out.



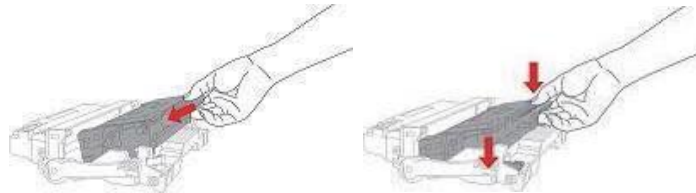
4. Open the package of the new toner cartridge and hold the toner cartridge handle to shake it left and right for 5 – 6 times, so that the toner inside can be uniformly dispersed.



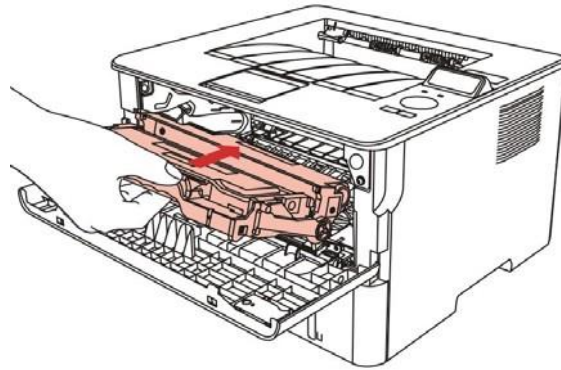
5. Pull the seal out and take the toner protection cover out.



6. Install the drum component along the inner track to finish installing toner cartridge.



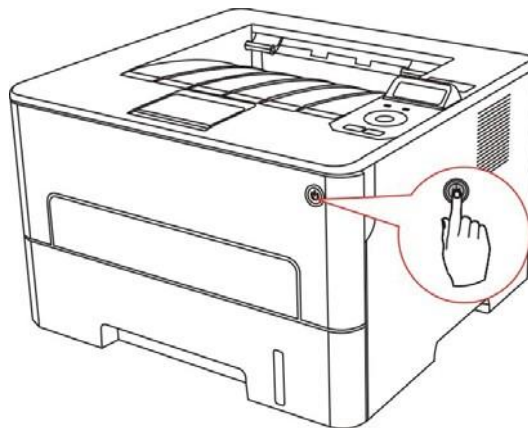
7. Take the drum component with toner cartridge installed and install it inside the printer along the inner track of printer to finish installing.



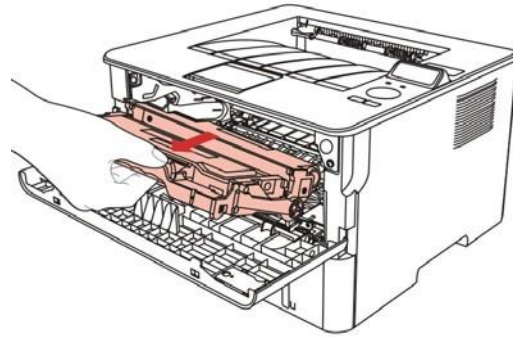
8. Close the front cover.

Drum component replacement steps:

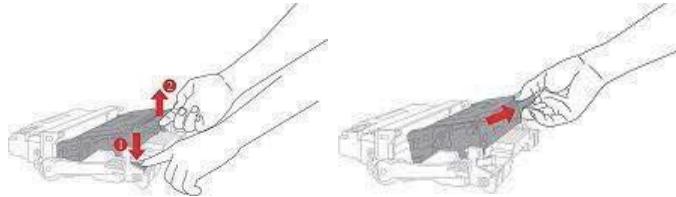
1. Power off the printer.



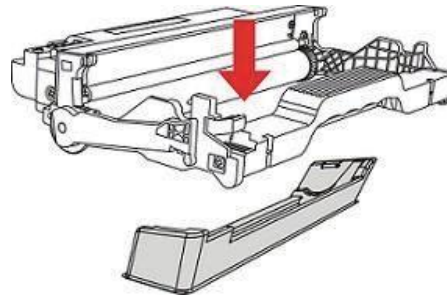
2. Open the front cover and take the laser toner cartridge out along the track.



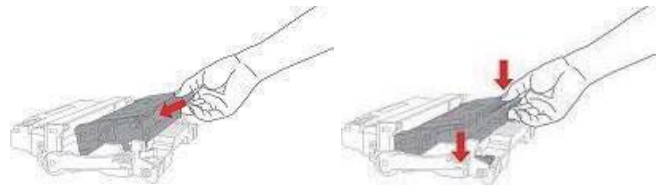
3. Press the blue button on the left side of drum component with left hand and lift the toner cartridge handle with right hand at the same time to take the toner cartridge out.



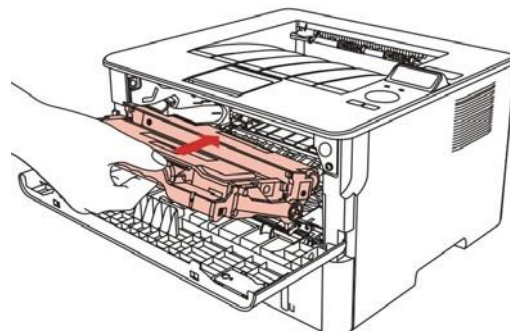
4. Open the package of new drum component, take the protection device of drum component, and put the drum component on a horizontal table.



5. Install the drum component along the inner track to finish installing toner cartridge.



6. Take the drum component with toner cartridge installed and install it inside the printer along the inner track of printer to finish installing.



7. Close the front cover.

9. Troubleshooting

Please read this section carefully. It may help you to solve common problems encountered during the printing process. If the problems persist, please contact Aftersales Service Centre.

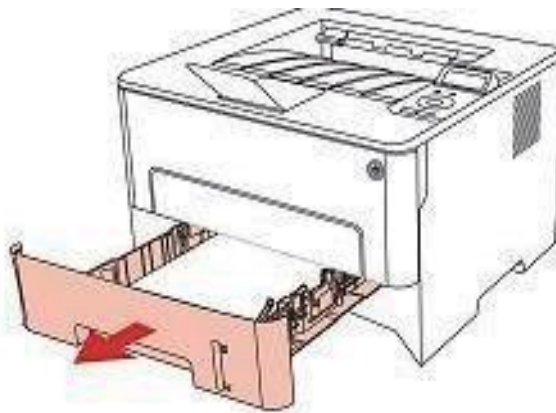
Prior to handling common problems, first check that:

- The power cord is connected correctly, and the printer is powered on.
- All the protective parts are removed.
- The toner cartridge is installed correctly.
- The paper is correctly loaded into the tray.
- The interface cable between the printer and the computer is connected correctly.
- The correct printer driver has been selected and installed properly.
- The computer port is properly configured and is connected to the correct printer port.

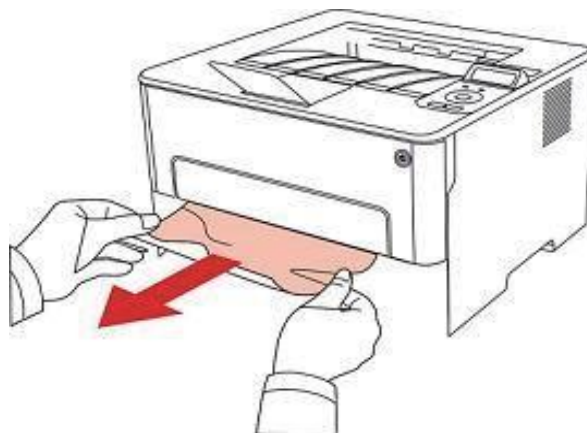
9.1. Cleaning Jammed Paper

9.1.1. Paper jam of auto feed tray

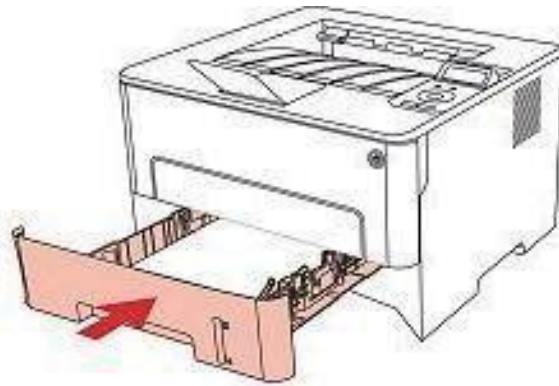
1. Open the tray.



2. Gently pull the jammed paper out.



3. After taking papers jammed out, please reinstall the paper tray inside the printer and close the front cover, then the printer will recover printing automatically.

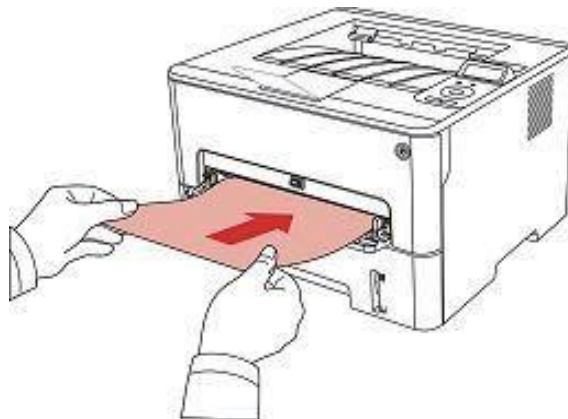


9.1.2. Paper jam of manual feed tray

1. Gently pull the jammed paper out.



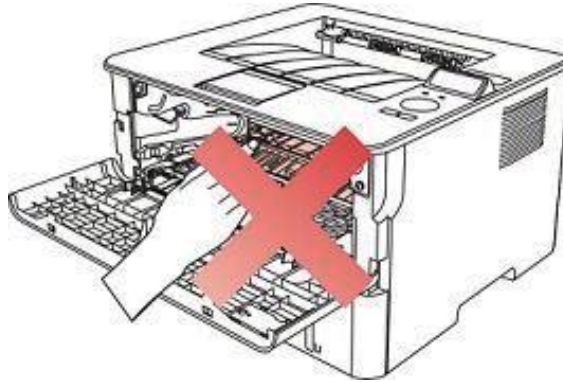
2. After taking papers jammed out, open and close the front cover and the printer will recover printing.



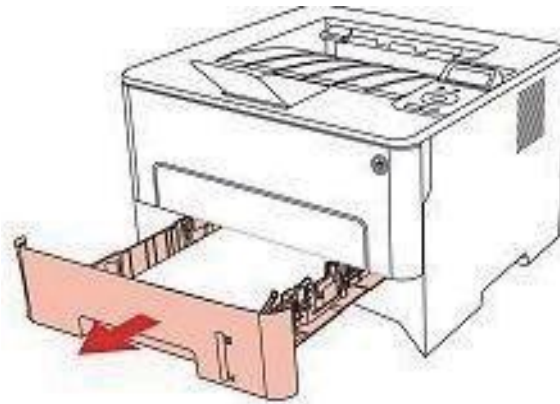
9.1.3. Middle jam



Note : • When papers jammed in the middle are taken out, please pay attention and do not touch the shaded area shown below, in order to avoid burn.



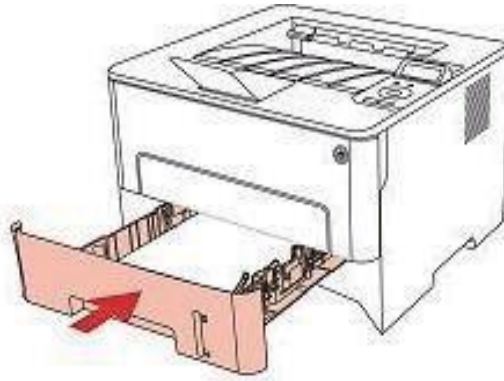
1. Pull paper tray out.



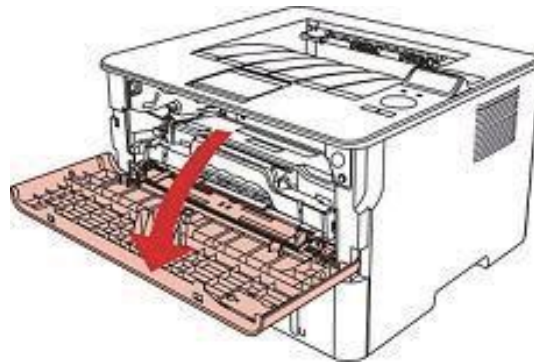
2. Gently pull the jammed paper out.



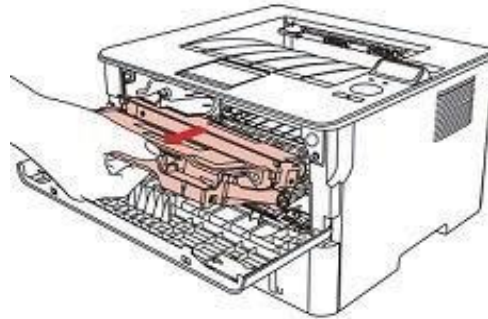
3. Install paper tray.



4. Open the front cover.



5. Take the laser toner cartridge out along the track. (For the purpose of preventing printing quality from affecting by the exposure of photosensitive drum, please put the laser toner cartridge inside the protection bag or wrap it with thick paper).




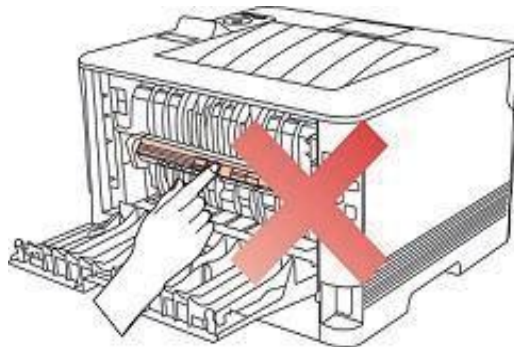
6. Gently pull the jammed paper out.



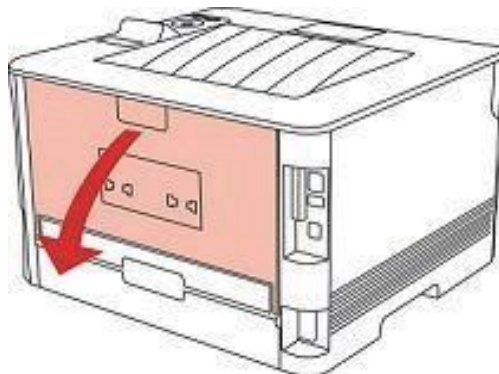
7. After taking out papers jammed, install the laser toner cartridge again and close the front cover, then the printer will recover printing.

9.1.4. Paper Jam in the Fuser Unit

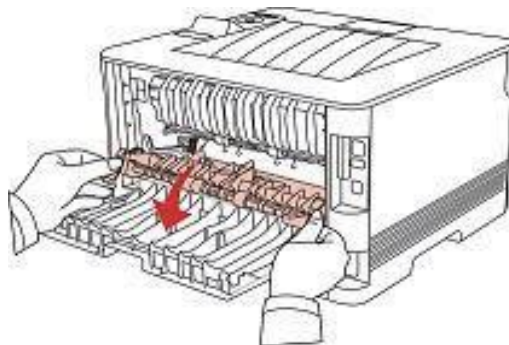
-  **Note :** • When papers jammed in fuser unit are taken out, please pay attention and do not touch the shaded area shown below in order to avoid burns.



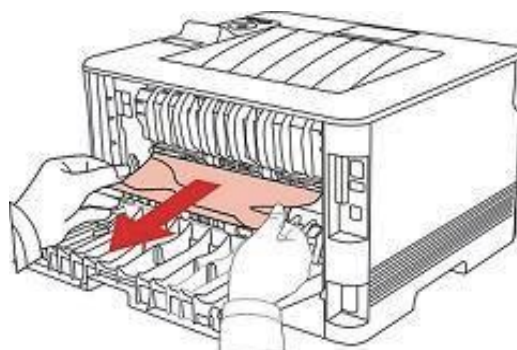
1. Open the rear cover.



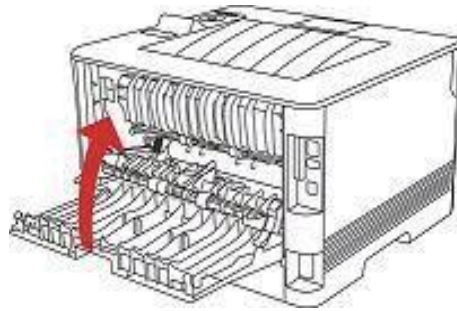
2. Open the fuser door using the handles on both sides.



3. Gently pull the jammed paper out.

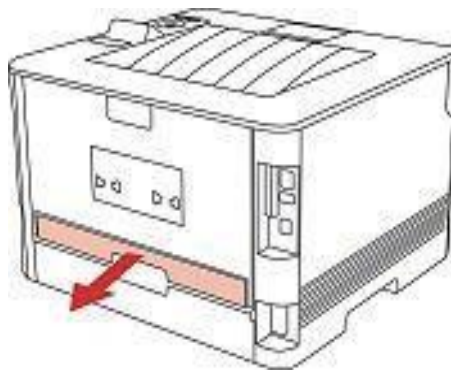


4. After taking papers jammed out, close the back cover and open the front cover and then the printer will recover printing.

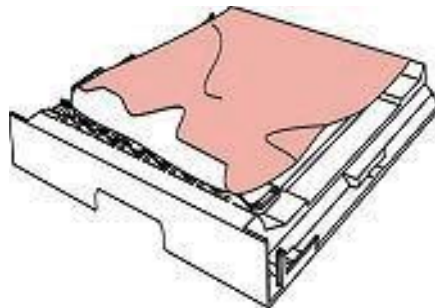


9.1.5. Duplex Unit Jam

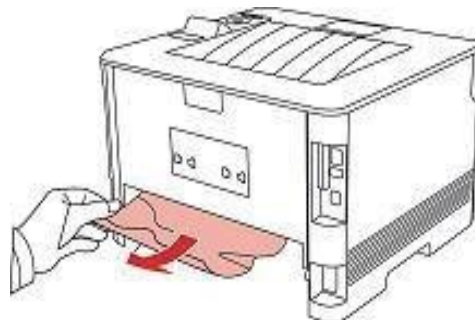
1. Remove the duplex printing unit from the back of the printer.



2. Remove the jammed paper from the duplex unit.



3. If the paper does not come out along with the duplex unit, open the tray and remove the jammed paper directly from the bottom.



4. After taking papers jammed out, install the duplex unit back and inspect other parts to the product. If it can be ensured that there are no jammed papers, open and close the front cover and then the printer will recover printing automatically.



- Note :**
- After all papers jammed are taken out according to the above steps, close the front cover and tidy the papers in paper tray, then the printer will recover to print automatically.
 - If the printer still does not start printing, please check that all the jammed paper inside the printer has been cleared.
 - If you cannot remove the jammed paper yourself, please contact your local SHARP authorized repair center or send the printer to the nearest SHARP authorized service center for repair.
 - Printer appearance may differ because of various models and functions, so the schematic diagram is only for your reference.

9.2. Software Failure

Problem	Solution
The printer icon will not be displayed in the “Printers and Faxes” folder.	Reinstall the printer driver. Ensure that the USB interface cable and the power cord are properly connected.
The printer is in Ready mode, but it will not perform any print job.	If the failure still exists after restarting the printer, please reinstall the printer driver. Make sure the network cable of USB cable is connected correctly.
Failed to install the driver	Check whether the print spooler service is enabled. Check the power supply and the connection of the printer.
The driver cannot be used if the IP address of the printer has been changed	Modify the port IP address of the printer driver. If the above method does not work, please reinstall the printer driver. It is recommended that a fixed IP address should be set to the network printer. In the DHCP network, it is recommended to bind the IP address with the MAC address of the printer.

9.3. Common Troubleshooting



9.3.1. Common Problems

Problem	Cause	Solution
Problems with the Printer		
The printer does not work	<p>The cable between the computer and the printer is not connected properly.</p> <p>Error in specifying the print port.</p> <p>The printer is offline, and User Guide of Printer is checked.</p> <p>The printer has not recovered from an internal error, such as a paper jam, paper empty, etc.</p> <p>Driver program of printer is not installed correctly.</p>	<p>Disconnect and then reconnect the printer cable.</p> <p>Check the Windows printer settings to ensure that the print job has been sent to the correct port. If the computer has more than one port, make sure that the printer is connected to the correct port.</p> <p>Make sure that the printer is in the normal online status.</p> <p>Please eliminate errors so that the printer can recover to its normal state.</p> <p>Unload and reinstall the driver program of printer.</p>
Problems with Paper Handling		
Paper feed failure	<p>The print media has been loaded incorrectly.</p> <p>The print media is out of the supported media range.</p> <p>The feed roller is dirty.</p> <p>Too many papers in paper tray.</p>	<p>Please install printing medium correctly; please print with manual feed tray if special printing medium is used to print.</p> <p>Please use the print media within the specification range.</p> <p>Clean the feed roller.</p> <p>Take the excessive papers out from paper tray; please print with manual feed tray if special printing medium is used to print.</p>

Paper Jam	Too many papers in paper tray.	Take the excessive papers out from paper tray; please print with manual feed tray if using special print medium.
	The print media is out of the supported media range.	Take the excessive papers out from paper tray; please print with manual feed tray if using special print medium.
	There is foreign matter in the paper path.	Clean the paper path.
	The feed roller is dirty.	Clean the feed roller.
Print multipage feed	Internal parts failure.	
	Excessive static electricity on the print media.	Separate the print media to eliminate some static electricity.
	The print media is damp and is sticking together.	It is suggested that you use the recommended print media.
	Internal parts failure.	Separate the print media or use better quality and dry print media.

 **Note :** • If the problem still cannot be solved, please contact the customer services center.

9.3.2. Image Defects

Problem	Cause	Solution
 <p>The printout is whitish or light</p>	<ul style="list-style-type: none"> • The print media does not meet the usage specifications, for example, the media is damp or too rough. • The resolution setting of printing program is too low and concentration setting is too low or save toner mode is clicked. • Toner is low. • Toner cartridge is damaged. 	<ul style="list-style-type: none"> • Please use proper print media within the specification range. • Set the resolution and concentration setting of the program or cancel clicking the save toner mode. • It is suggested to replace the original toner cartridge.
 <p>Toner spots</p>	<ul style="list-style-type: none"> • Dirty toner cartridge or toner leakage. • Toner cartridge is damaged. • The print media does not meet the usage specifications, for example, the media is damp or too rough, or has been used previously. • The paper path is dirty. 	<ul style="list-style-type: none"> • It is suggested to replace the original toner cartridge. • Please use the print media within the specification range. • Clean the paper path.



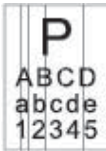
White spots

- The print media does not meet the usage specifications, for example the media is damp or too rough, or has been used previously.
- The paper path is dirty.
- The drum inside toner cartridge is damaged.
- Please use the print media within the specification range.
- Clean the paper path.
- It is suggested to replace the original toner cartridge.



Toner comes off

- The print media does not meet the usage specifications, for example the media is damp or too rough or has been used previously.
- The printing paper medium set, and paper medium placed are not consistent.
- The inside of the printer is dirty.
- Toner cartridge is damaged.
- The parts inside the printer are damaged.
- Please use printing medium within the specification scope and use manual feed tray for printing in case of special medium.
- Please print with the corresponding paper medium.
- Clean the inside of the printer.
- It is suggested to replace the original toner cartridge.



Black vertical stripes

- Dirty toner cartridge
- Damaged inner parts of toner cartridge.
- Dirty glass on the inner laser of the machine.
- The paper path is dirty.
- Clean or replace toner cartridge
- Clean the mirror of the laser at the back of the printer.
- Clean the feed path of printer.



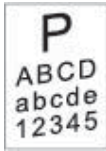
Black/gray background

- The print media does not meet the usage specifications, for example, the media is damp or too rough, or has been used previously.
- Dirty toner cartridge
- Damaged inner parts of toner cartridge.
- The paper path is dirty.
- Abnormal internal transfer voltage of printer.
- Please use the print media within the specification range.
- Clean or replace toner cartridge
- Clean the paper path inside the printer



Cyclical traces appear

- Dirty toner cartridge.
- Damaged inner parts of toner cartridge.
- The fuser component is damaged.
- Clean or replace toner cartridge.
- Please contact a customer service center to replace a new fuser assembly.



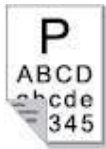
Skewed pages

- The print media has been loaded incorrectly.
- The paper path of the printer is dirty.
- Ensure the correct loading of the print media.
- Clean the paper path inside the printer.



Wrinkled paper

- The print media has been loaded incorrectly.
- The print media does not meet the usage specifications.
- The paper path of the printer is dirty.
- The fuser component is damaged.
- Ensure the correct loading of the print media.
- Please use print media within the specification range.
- Clean the paperpath inside the printer.
- Please contact a customer service center to replace a new fuser assembly.



The back of the printout is dirty

- Dirty toner cartridge
- The transfer roller inside the printer is dirty.
- The transfer voltage inside the printer is abnormal.
- Clean or replace the toner cartridge.
- Clean the internal transfer part of the printer.



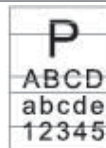
Whole page dark

- Toner cartridge is improperly installed.
- Inner damage of toner cartridge.
- Abnormal internal charging of machine or the toner cartridge is not charged.
- Install ink cartridge correctly.
- It is suggested to replace the original toner cartridge.



The toner does not adhere to the paper

- The print media does not meet the usage specifications, for example, the media is damp or too rough or has been used previously.
- The inside of the printer is dirty.
- Toner cartridge is damaged.
- The parts inside the printer are damaged.
- Please use printing medium within the specification scope, and use manual feed tray for printing in case of a special medium.
- Clean the inside of the printer.
- It is suggested to replace the original toner cartridge.



Horizontal stripes

- The toner cartridge is not installed correctly.
- The toner cartridge may be damaged.
- The parts inside the printer are damaged.
- Install the ink cartridge correctly.
- It is suggested to replace the original toner cartridge.



Note : • Failure of the above can be improved by cleaning or replacing the toner cartridge. Please contact customer services center if the problem can still not be solved.

10. Menu Structure

With the help of the structure of this printer on the panel menu, you can view and set the following functions:

- 1) Press "Menu" to enter the menu setting interface.
- 2) Press "▲" or "▼" to select "Prt Info Rept".
- 3) Press "OK" and then "▲" or "▼" to select "Menu Struc Pg".
- 4) Press "OK" to print.

11. Product Specifications



- Note :**
- Specification values vary slightly from printers with different models with different functions, and product specifications vary from different countries and regions.
 - These values are based on the initial data. For more information about the latest specifications, please visit: www.sharpusa.com.

11.1. Overview of the Specifications

Product Size(W*D*H)	Approx. 13.9" (w) x 13.1" (d) x 9.1" (h)
Product Weight	Approx. 15 lbs.
Print Environment	Print temperature range: 10-32°C (50-90 °F)
	Print humidity range:20%RH~80%RH
Power Voltage	110V Model : AC100-127V(±10%),50/60Hz(±2Hz),9A
Noise (acoustic pressure level)	Printing : ≤ 52dB(A)
	Standby: ≤30dB(A)
	Mute mode: ≤46 dB (A)
Enter network standby time	1 minute
Power Consumption	Network standby: 1.72W
	Standby: ≤50W
	Shutdown: ≤0.5W
	TEC: conforming to requirements of EnergyStarV2.0

Operating system	Microsoft Windows XP/ Windows Vista/ Windows 7/ Windows 8/ Windows 8.1/ Windows 10/ Windows Server 2003/ Windows Server 2008/ Windows Server 2012 (32/64 Bit)
	Mac OS 10.7/10.8/10.9/10.10/10.11
Communication interface	USB 2.0 (High Speed)
	IEEE802.3 10Base-T/100Base-Tx
Print Time of First Page	≤8.5 sec
Monthly Maximum Print Copies	25,000 pages
Maximum printable size	8.5" x 14"

SHARP®