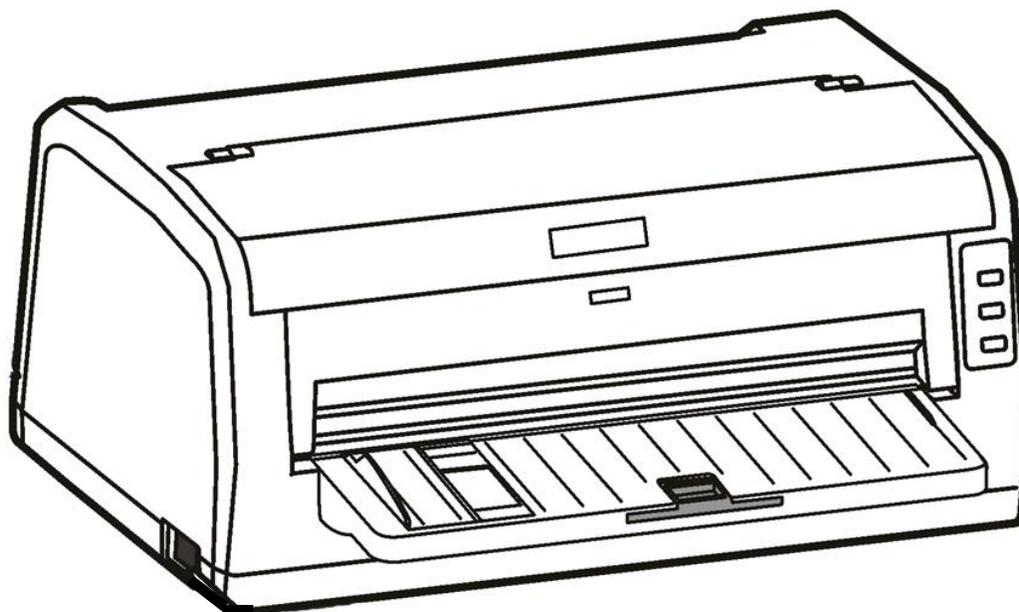




Documax 5380
24-Pin Dot Matrix Printer
User's Guide



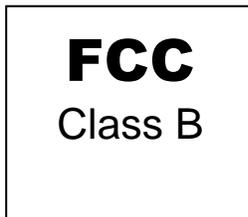
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Regulatory Statement:



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.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.



16PU
NWGQ
E247562
120VAC ~ 60Hz ~ 1.0A

AMT Datasouth Support:



<http://www.amtdatasouth.com/support-1/downloads/>

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Operational safety



CAUTION

- To avoid burns, do not touch the print head immediately after printing.
- Do not put your fingers under the tractor covers while loading fanfold paper.
- Unplug this product from the power outlet before cleaning.
- Do not use this product near water.
- Mechanical and electrical repairs should be conducted by qualified service personnel.

Cautions in setting up

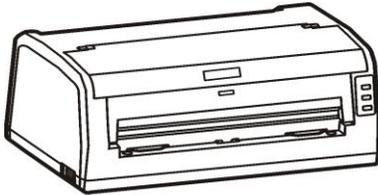


CAUTION

- Unpack the printer. Make sure that the printer body and all accessories are included in the package and no parts are damaged.
- Place the printer on a rigid, horizontal base in a location that is free of vibration.
- Do not use the printer in a location exposed to direct sunlight or close to a heater or other heat generating equipment.
- Before connecting or disconnecting the interface cable, be sure to turn off the printer.
- Do not use the printer in a dusty location or any location subject to sudden changes in temperature and humidity.
- Do not connect the printer to a non-standard power source.
- Never try to print without a ribbon cartridge installed and paper loaded.
- Rear Operating Clearance
 - Fanfold Paper: 2" plus Paper Length
 - Manual Cut Sheets: Paper Length Minus 9"
- Take care not to twist the ribbon while installing the ribbon cartridge.
- If the case or cover becomes dirty, clean it with a soft cloth moistened with a small quantity of neutral detergent diluted with water. Never use a hard cloth or volatile solvent such as alcohol, thinner, or benzene.
- Push the lock levers of both tractors to the LOCK positions firmly when loading fanfold paper.
- Do not turn off the printer during printing, as this may lead to a malfunction.

Packaging

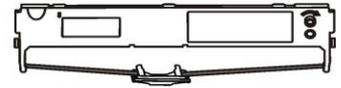
Unpacking the printer



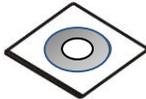
Printer



Paper Support



Ribbon Cartridge



CD ROM
(Including *user's manual* and driver)



USB Cable



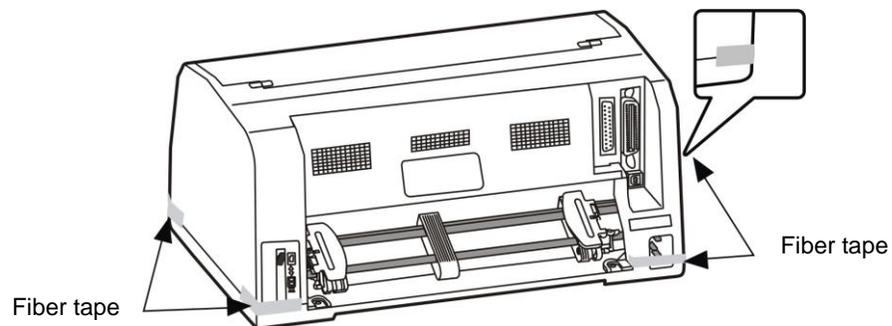
Power Cord



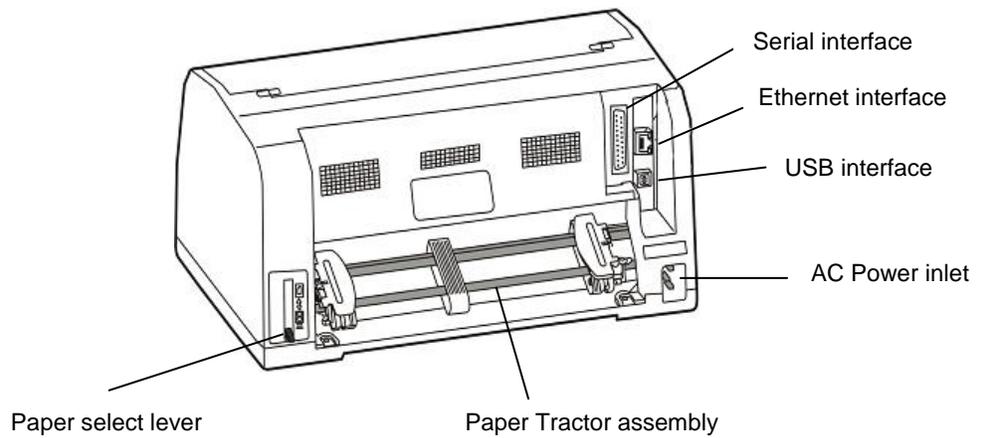
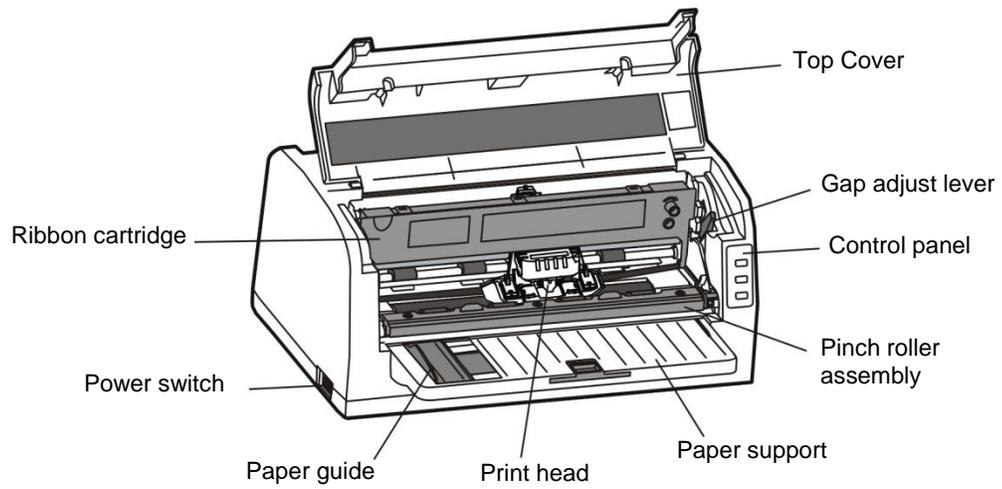
Quick Start Guide

Removing protective material

1. Open the packing box, remove the printer and tear off the fiber tape around the printer cover as shown. Save all the original packing materials, so that they can be reused when transporting the printer.



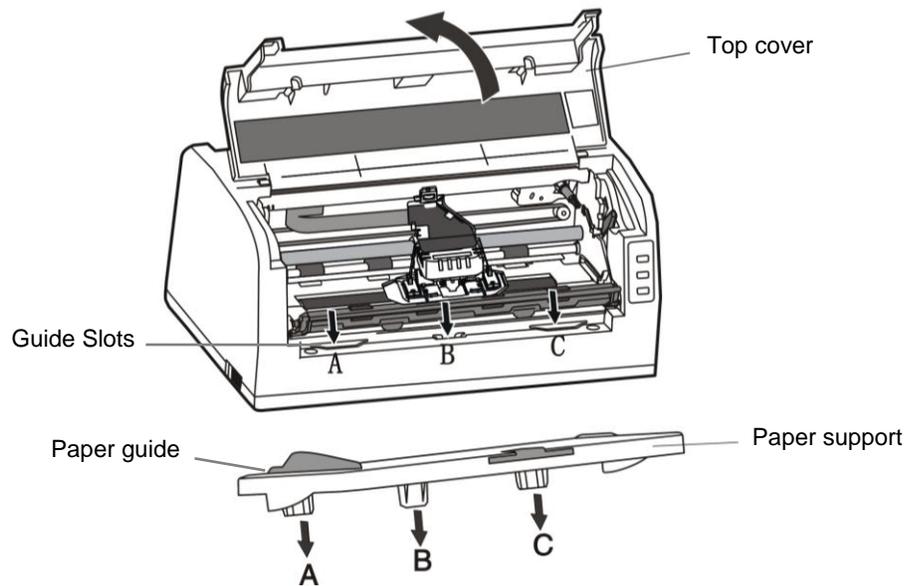
Part identification



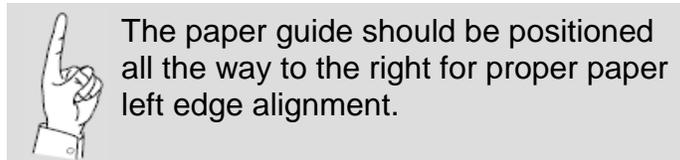
Installation

Installing paper support

1. Open the top cover, align the A, B, C tabs over the printer corresponding A, B, C slots, and then press downward to fasten.

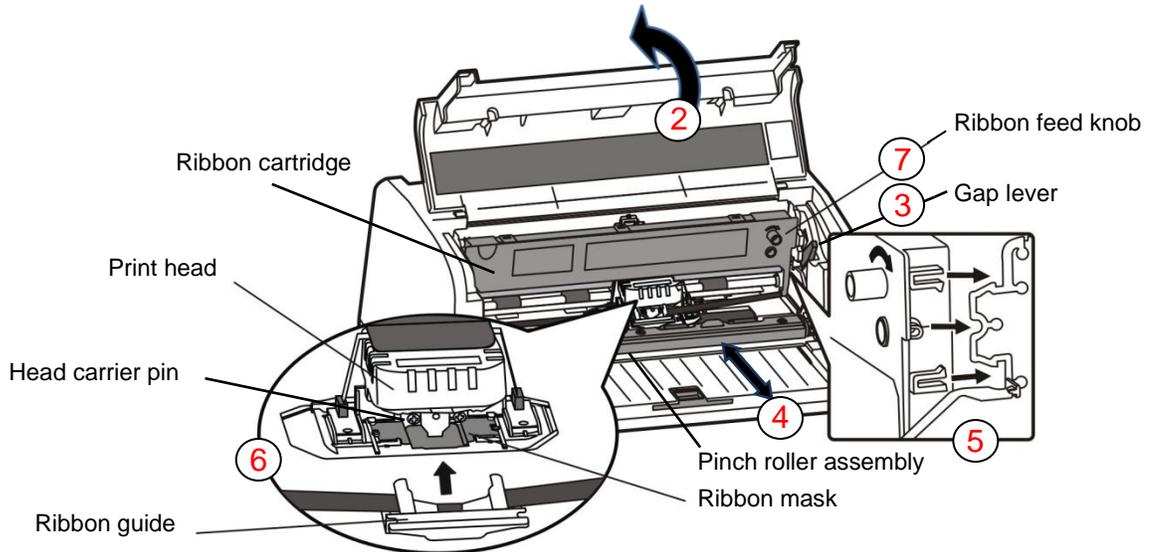


Note: When transporting the printer remove the paper support. Open the Top Cover, lift up on the left and right side of the paper support evenly until removed.



Installing the ribbon cartridge

1. Remove ribbon cartridge from the plastic bag. Remove and dispose of ribbon retainers (qty-2).



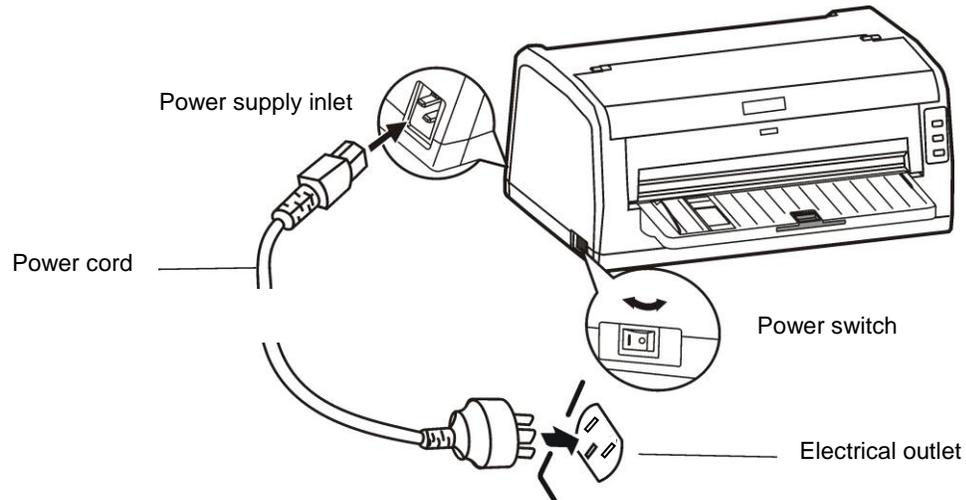
CAUTION

Do not touch the print head immediately after printing because it may be too hot.

2. Make sure the power switch is OFF. Open the front cover. Move the print head to the center of the printer.
3. Adjust the GAP LEVER to the highest position.
4. Pull the PINCH ROLLER ASSEMBLY forward and turn the back side upward to expose the RIBBON MASK.
5. Lock the ribbon cartridge into the printer chassis (right & left side).
6. Carefully slide the plastic RIBBON GUIDE holes onto the left and right carrier pins.
7. Rotate the RIBBON FEED KNOB in the direction of the arrow to remove slack.
8. Return the PINCH ROLLER ASSEMBLY and GAP LEVER to their normal operating position.

Connecting the printer to the power source

1. Make sure that the power switch located on the left side of the printer is set to OFF. Press the “O” side of the power switch.
2. Plug one end of the provided power cord into the printer’s power supply inlet.
3. Make sure the voltage required by the printer matches that of your electrical outlet. Refer to the voltage designated on the rating label located on the back of the printer.
4. Connect the other end of the power cord into a properly grounded electrical AC outlet.



CAUTION

If the rated voltage doesn't match the outlet voltage, contact your dealer for assistance.
Do not plug in the power cord.

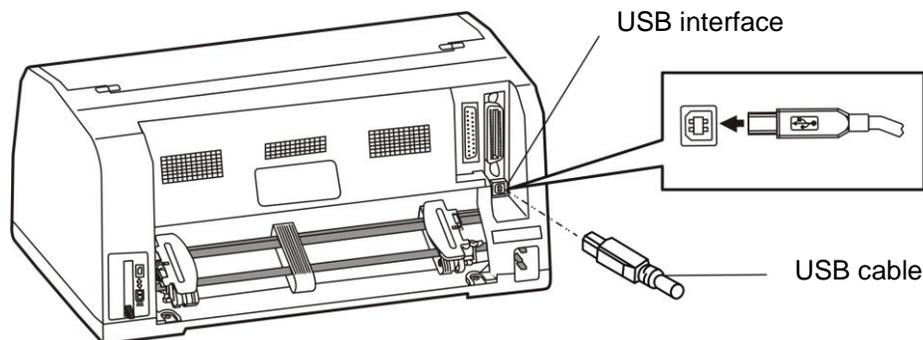
5. To turn the printer ON, press the “I” side of the power switch.

Connecting the printer to the PC

Note: The Documax 5380 printer can use a USB, Ethernet, or Serial cable to connect to the PC. Parallel interface is optional.

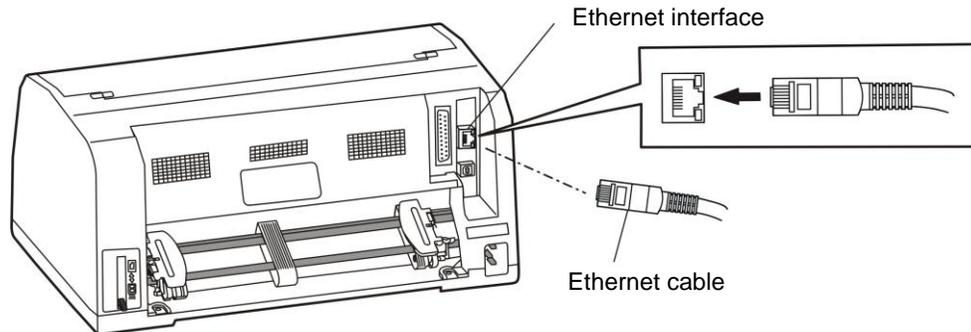
1. Install desired interface connection. Make sure that the power switch is turned to OFF and connect the appropriate cable(s) to the printer and the computer.

USB CABLE CONNECTION



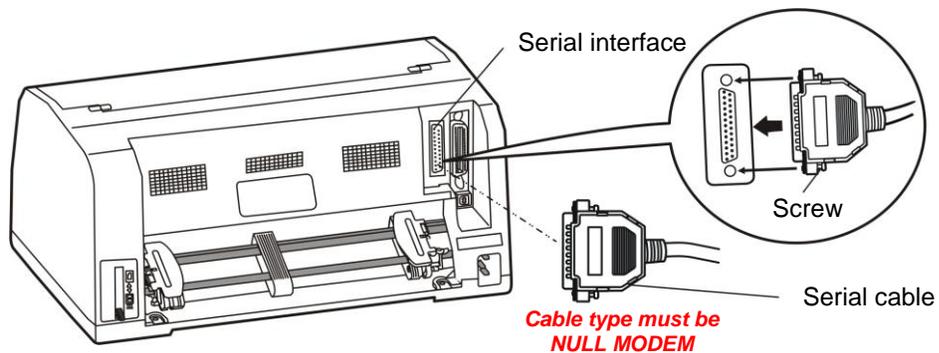
- ❖ Plug the USB cable A end (flat shape) into the computer's USB interface.
- ❖ Plug the USB cable B end (square shape) into the printer's USB interface.

ETHERNET CABLE CONNECTION



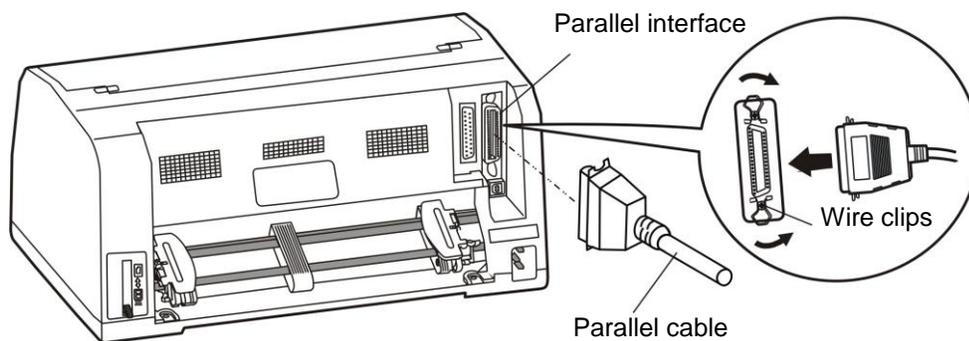
- ❖ Plug one end of the RJ-45 cable into the Ethernet port of the printer and the other into the LAN.
- ❖ Use NetFinder utility to identify IP address and help complete interface connection.

SERIAL CABLE CONNECTION



- ❖ Turn OFF both the computer and the printer. Plug the serial cable 25-pin male connector securely into the printer's serial interface and the other end into the computer.
- ❖ Secure cable with connector screws, both ends.

PARALLEL CABLE CONNECTION (Optional)



- ❖ Turn OFF both the computer and the printer. Plug the parallel cable securely into the printer's parallel interface. Squeeze the wire clips together until they lock in place on either side.



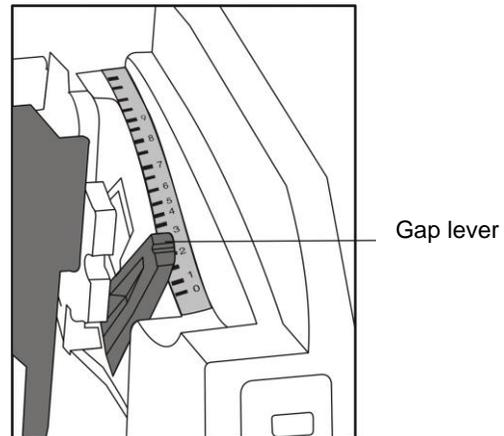
The interface has a built in feature that will automatically receive transmitted data on any of the ports.

Loading Paper

Paper thickness adjustment

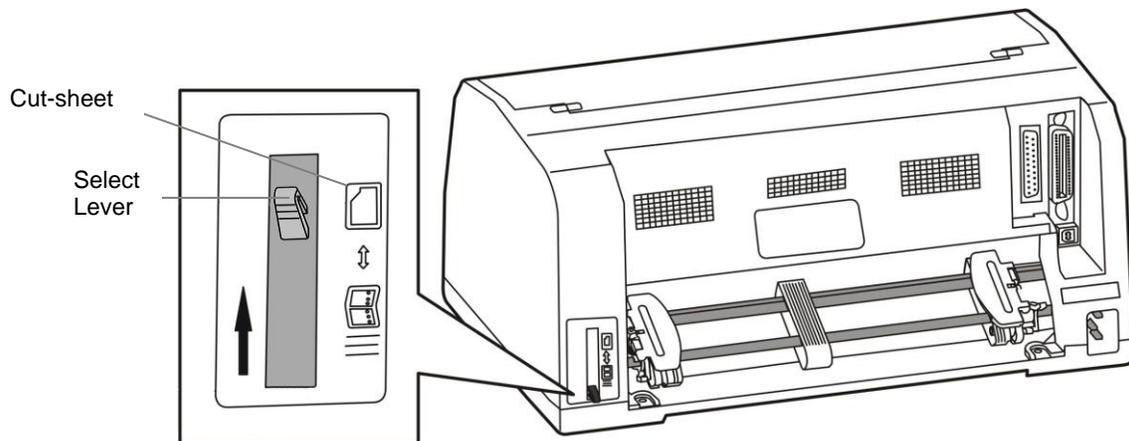
1. Adjust the gap lever inside the printer on the front right side to feed thicker paper and forms. The lever moves the print head relative to the platen so that there is more room for the paper. Refer to the label mounted on the inside of the Top Cover and adjust thickness accordingly.

<i>MEDIA</i>		<i>GAP</i>
OTHER		7 ~ 9
6 ~ 7	MULTI-PART	5 ~ 6
5		4
4		3
2 ~ 3		2
SINGLE		0 ~ 1

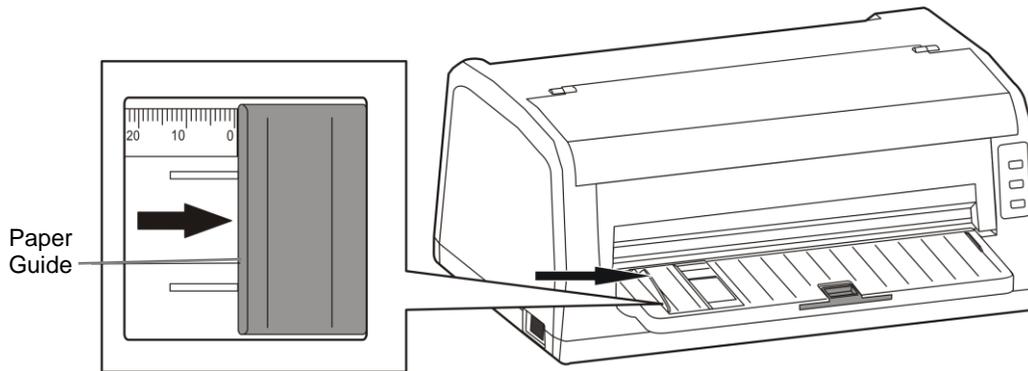


Loading cut-sheet paper/forms

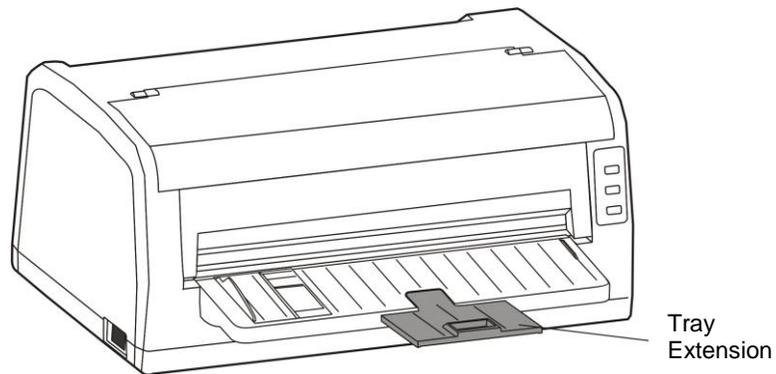
1. Set the paper select lever located on the back side of the printer to Cut-sheet (up position).



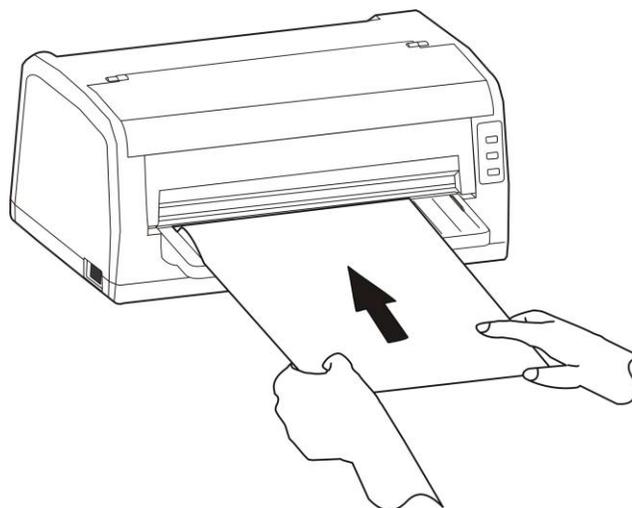
2. Position the paper guide to the furthest right position.



3. Pull tray extension out for long paper/forms requiring extra support.

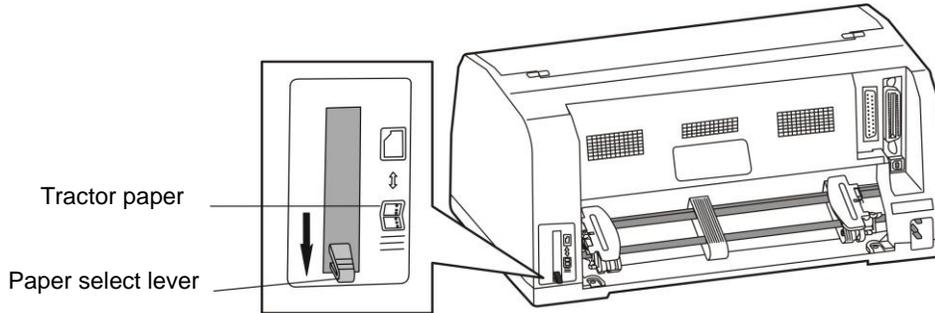


4. Insert the paper as shown below, the paper is fed into the printer automatically.

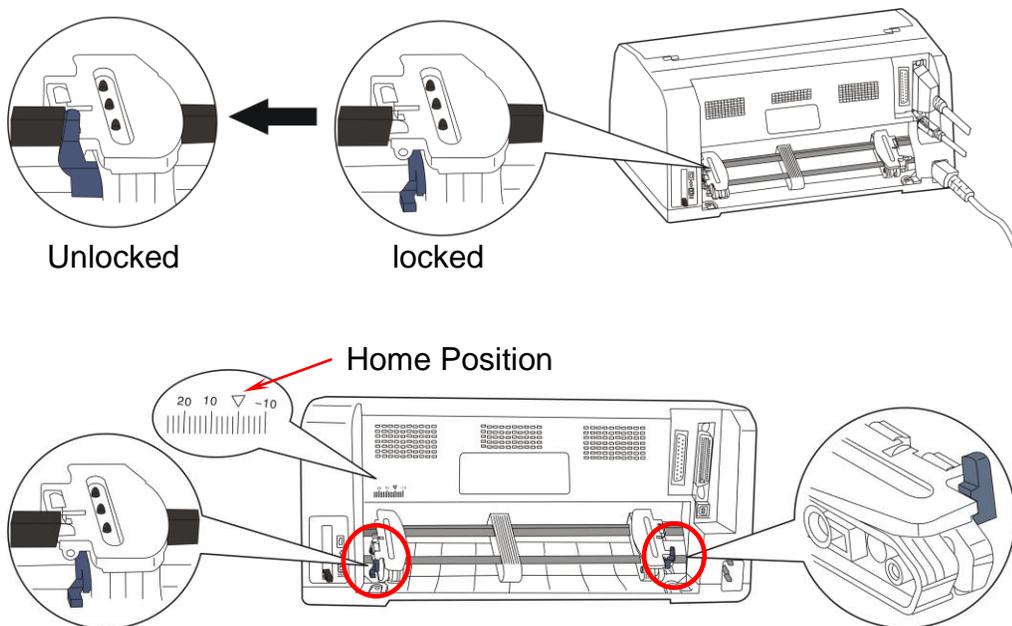


Loading tractor paper

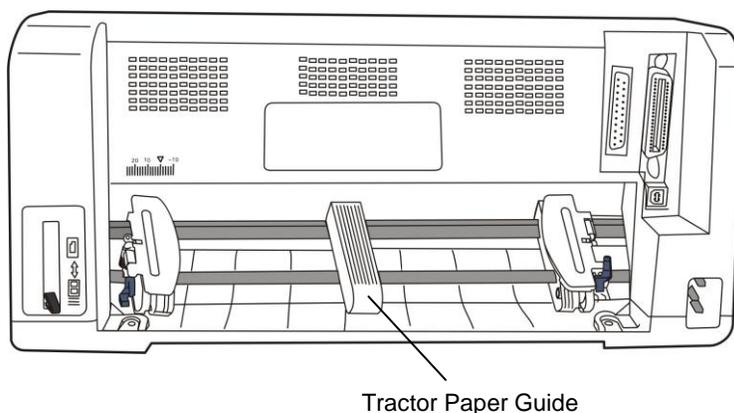
1. Set paper thickness lever, refer to “Loading Paper” section.
2. Set the paper select lever located on the back side of the printer to Tractor Paper (down position).



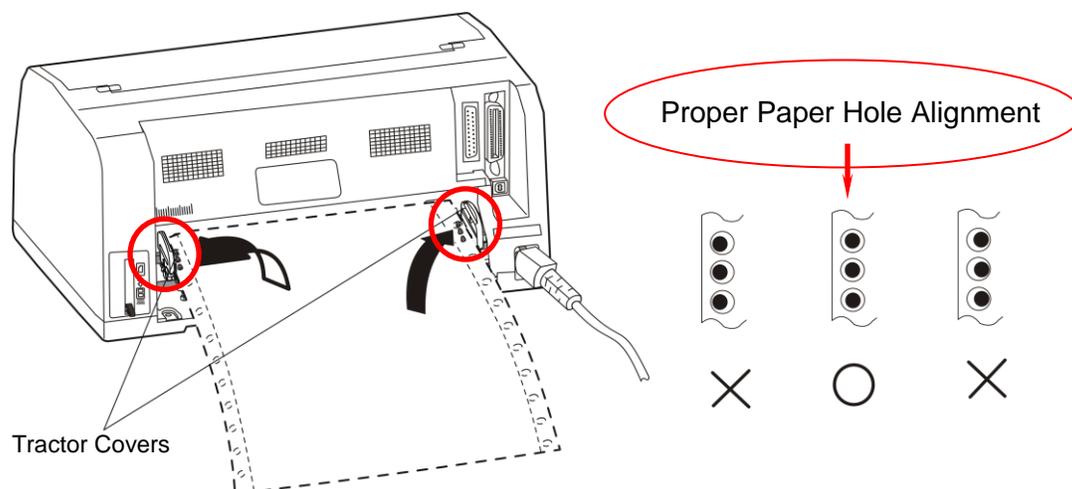
3. Loosen the left and right tractors by lifting up on lock levers. Adjust the left tractor to the home position (“∇” denotes home). Adjust right tractor to approximate paper width. Lock left tractor into place by pressing down on the lock lever.



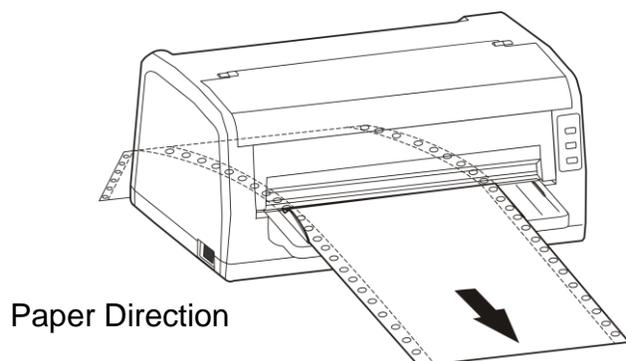
4. Move the tractor paper guide to the middle of the tractor assembly.



5. Open the tractor covers and place the paper onto the sprocket pins.



6. Close the tractor covers and adjust the right tractor to ensure the paper is flat. Then press down the lock lever.

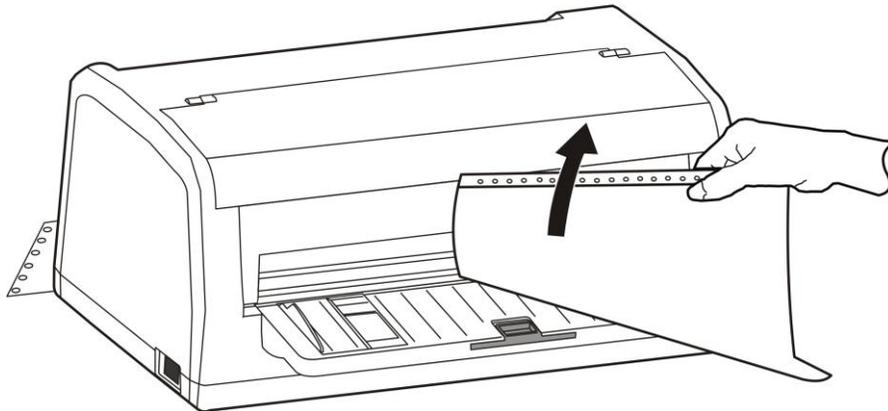


Tractor paper tear off

When the printer leaves the factory, the tractor paper tear off function is enabled. At the completion of a print job, the printer will feed the tractor paper to the tear off position automatically. Paper can be torn off along the window edge. The printer default setting can be disabled. In a disabled mode, press the **ONLINE** key to advance the paper to the tear off position.

ADJUSTMENT ~

1. After installing the tractor paper correctly and ensuring the paper select lever is in tractor paper position. Press the **LOAD/EJECT** key to feed the paper to printing position, then press the **ONLINE** key to enter into offline mode, press **LOAD/EJECT** key to feed the paper to tear off position. Press the **ONLINE** key, then press both the **LOAD/EJECT** and **LF/FF** keys for about 3 seconds to get the printer to enter the tear-off adjustment mode. When the printer enters this mode, the **ONLINE LED** and the **COPY LED** blink alternately.
2. Press the **LOAD/EJECT** key to adjust the distance in 1/60 inch increments, or the **LF/FF** key to adjust the distance in 1/60 inch decrements.
3. To exit and save your new setting, press the **ONLINE** key. The **COPY LED** and the **ONLINE LED** blink simultaneously twice with two beeps, then the **ONLINE LED** will stay on. Your new tear-off setting value is saved.



Top of form adjustment

The top of form setting determines the margin between the top of paper and the first printed line (the top margin). The top of the first printed line is the zero position. Advancing the paper is a positive value, reversing the paper is a negative value.

When the menu setup mode has specified the left black mark or right black mark, this is defined as the distance from the black mark to the left or right edge of paper.

TOF ADJUSTMENT ~

1. Install paper correctly, press **LOAD/EJECT** key to feed paper to printing position. In the **ONLINE** mode, press the **LOAD/EJECT** key and **LF/FF** key for about 3 seconds at the same time, **ONLINE LED** and **COPY LED** blinks alternately which denotes the printer has entered the adjustment mode.
2. Press the **LOAD/EJECT** key to increase the top of form by 1/60 inch. You can increase the margin to a maximum of +60 increments (+60/60 inch) from the factory setting. Press the **LF/FF** key to decrease the top of form by 1/60 inch. You can decrease the margin to a minimum value of 0 (-19/60 inch) from the default setting.
3. Press the **ONLINE** key to exit and save your new setting. The **COPY LED** and **ONLINE LED** blink simultaneously twice with two beeps, and then the **ONLINE LED** will stay on.

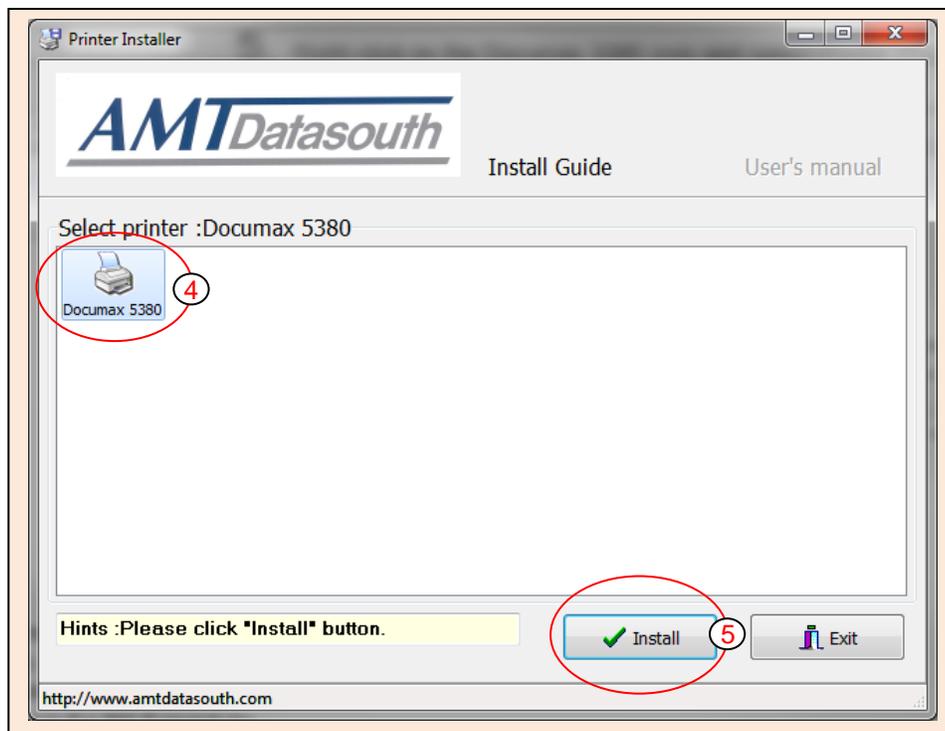
BLACK MARK ADJUSTMENT ~

1. Install paper correctly, press **LOAD/EJECT** key to feed paper to printing position. In the **ONLINE** mode, press the **LOAD/EJECT** key and **LF/FF** key for about 3 seconds at the same time, **ONLINE LED** and **COPY LED** blinks alternately which denotes the printer has entered adjustment mode.
2. Press the **LOAD/EJECT** key to adjust the sensor position 1/20 inch. You can increase the margin to a maximum of +80 increments (+80/20 inch) from the factory setting, or the **LF/FF** key to decrease the margin to a minimum of 0 (0/20 inch) from the default setting.
3. Press the **ONLINE** key after adjusting, the **COPY LED** and **ONLINE LED** blink simultaneously twice with two beeps, the new setting will be saved, then press the **ONLINE** key again to exit the adjustment mode entirely.

Print Driver Installation

Win2000 (XP~Vista~Win7)

1. Open the driver folder on the CD shipped with the printer. Then open the subfolder for your version of Windows.
2. Click on the "Setup.exe" file to begin the installation utility. Have your printer ready to connect when instructed.
3. If a pop-up window occurs, click "Install driver anyway".
4. Click on the "Documax 5380" icon to select the driver.
5. Click on the "Install" button to begin the driver installation. When prompted connect the interface cable and power ON the printer. Installing the printer without a proper interface will result in a "LPT1" port default.

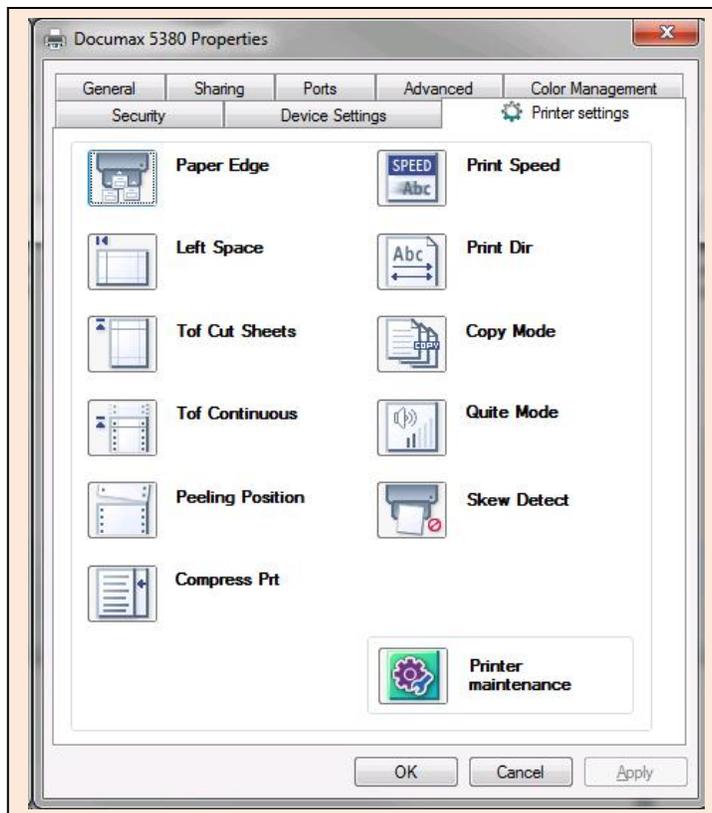


6. Once the Driver install is complete, close the printer installation utility.
7. Open the "Devices and Printers" window from the PC Start button. 

8. Right-click on the Documax 5380 icon  and select “Printer Properties”.
9. Choose the “Ports” tab and select the correct interface port for your printer. For Ethernet port IP recognition, run “NetFinder” utility on CD.
10. End of procedure.

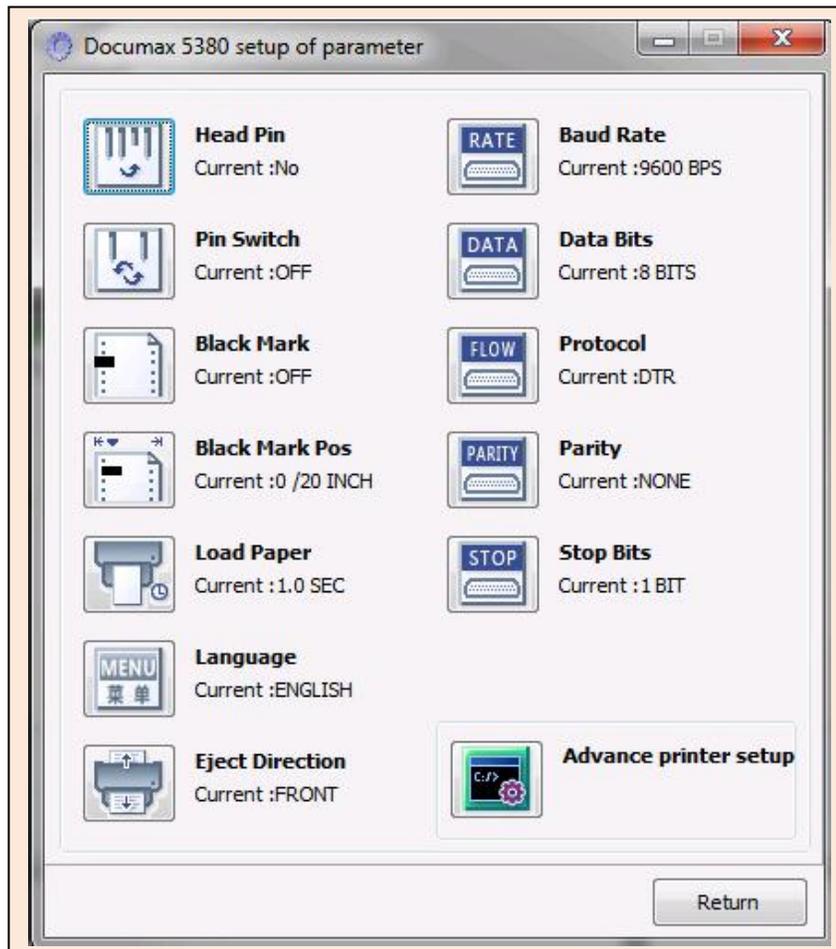
Printer settings via driver

1. Open the “Devices and Printers” window from the PC Start button. 
2. Right-click on the Documax 5380 icon  and select “Printer Properties”.
3. Choose the “Ports” tab and verify, or select the preferred interface port for your printer.
4. Click on “Printer settings”. 
5. Select and click on the printer setting icon you would like to adjust, a pop-up window will display feature choice and an explanation.
6. Click on drop down window “Set” tab to select new setting(s).



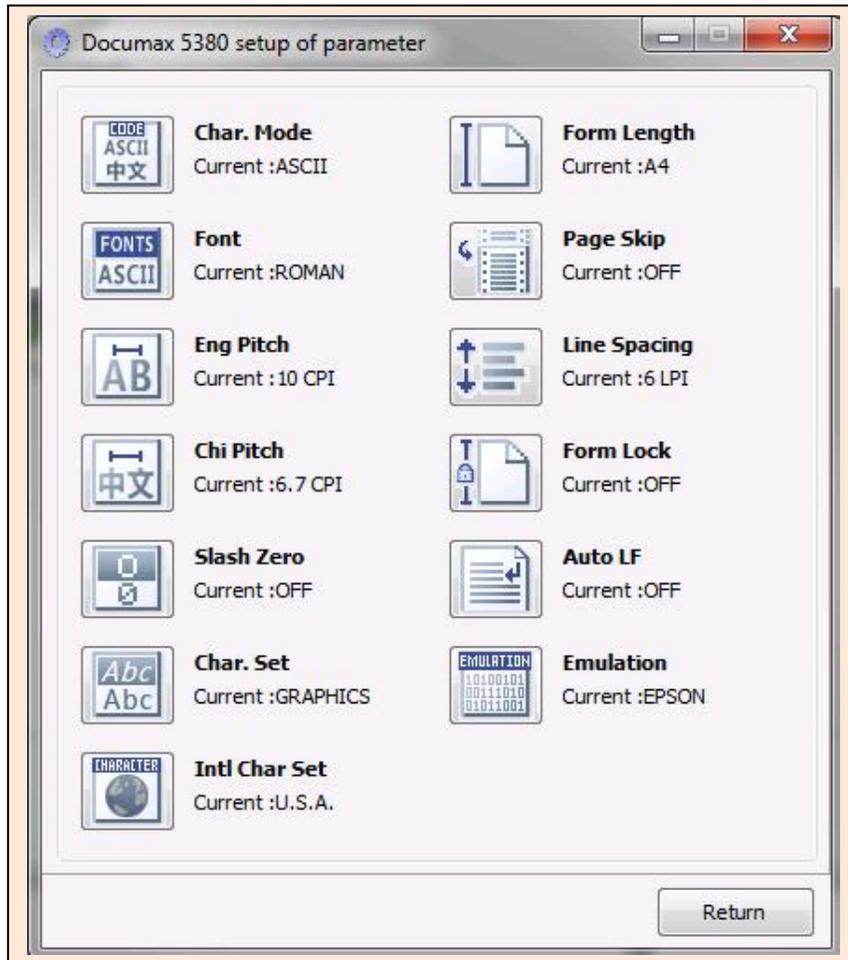
7. Click on “Printer maintenance”  **Printer maintenance** to access additional printer setup features.

Printer Maintenance Menu



8. Click on “Advance printer setup” additional printer setup features.  **Advance printer setup** to access

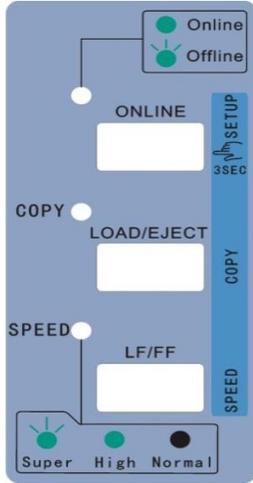
Advance Printer Setup Menu



9. Return to main menu and click on “OK” to exit and save settings.

Control Panel

Indicator LED's



Indicator LED	Off	On	Blink
ONLINE (green)	—	Lights when the printer is online.	The printer is offline or error state.
COPY {BOLD} (green)	The printer is in the normal mode.	The printer is in the copy 1 mode.	The printer is in the copy 2 mode.
SPEED (green)	The printer is in the Letter Quality mode.	The printer is in High Speed Draft mode.	The printer is in Super High Speed Draft mode.

Basic control panel operations

ONLINE	Press the ONLINE button, switch between ONLINE and OFFLINE modes.
LOAD/EJECT	When offline, press LOAD/EJECT key to control cut sheet or tractor paper feeding. In cut sheet mode, if you press LOAD/EJECT key when offline, the paper will be ejected. In tractor paper mode, with paper installed, press LOAD/EJECT key when offline. The paper will be fed to the print home position. The printer now being in the online mode. Press ONLINE again, then press the LOAD/EJECT key, the paper will be fed to the tear position. Press LOAD/EJECT key one more time, the paper will reverse feed back to the ready position. In online mode, press and hold the LOAD/EJECT key for about 3 seconds, the printer will reverse feed the paper in micro steps.
COPY {BOLD}	In the offline mode, press and hold ONLINE key for 3 seconds (until beep is heard), the printer will enter quick menu setup mode. Press LOAD/EJECT key will select the normal print mode, copy 1 print mode or copy 2 mode. Press ONLINE key to save setting.
LF/FF	In the offline mode, press the LF/FF key to feed the paper line by line. Alternatively, hold the LF/FF key down, the printer will eject the cut sheet, or feed the tractor paper one page. In the online mode, press and hold the LF/FF key for about 3 seconds will feed the paper in micro steps.
SPEED	In the offline mode, press and hold ONLINE key for 3 seconds (until beep is heard), the printer will enter quick menu setup mode. Pressing LF/FF key will switch the printer among the letter quality mode, high speed mode and super high speed mode. Press ONLINE key to save setting.
SETTINGS	To print current printer settings; Press LOAD/EJECT key and LF/FF key while turning ON printer power.
MENU SETUP	In the online mode, press and hold LOAD/EJECT key, and then press the ONLINE key. Hold keys for 3 seconds. LED's will blink. Load paper and follow printed instructions for feature settings.
SELF-TEST	Press ONLINE key while turning ON printer power.

Printer settings via printer control panel

1. With ribbon installed, print current settings by pressing the **LOAD/EJECT** and **LF/FF** keys while turning ON the printer power switch. Release keys and load cut sheet paper to print settings.
2. Review printout. The highlighted settings (gray background) depict current feature setting.
3. In the online mode, press and hold the **LOAD/EJECT** key, and then press the **ONLINE** key. Hold keys simultaneously for 3 seconds. The **ONLINE** LED and **COPY** LED will blink twice simultaneously to indicate **MENU** mode.
4. Load cut sheet paper, the title and first MENU will print. The underlined features are the default settings. The print head will stop at the default setting.
5. Key functions:
LOAD/EJECT key selects the menu option or menu setting value.
LF/FF key enters into the submenu or confirms menu setting value.
ONLINE key returns to upper menu (continue pressing the **ONLINE** key will return to main menu and save new settings).
6. Exit menu settings by cycling the printer power. Refer to next page for menu listing and default values.

AMT Documax 5380 Current Settings

Use the **LOAD/EJECT** key to point the print head to the desired setting.

Use the **LF/FF** key to confirm the current setting.

Use the **ONLINE** key to go back the previous menu.

Press and hold the **ONLINE** key to save settings and exit.

Current settings are UNDERLINED New settings will be **FILLED**.

MAC: XX-XX-XX-XX-XX-XX DHCP: YES IP: 10.0.0.1 Subnet: 255. 255. 255.0 gateway: 255.255.255.255

MAIN MENU SYSTEM SETUP CHARACTER PAGE LAYOUT PRINT SETUP SERIAL I/F
BREAK PIN



With Ethernet interface connected, the MAC Address, DHCP status, IP Address Subnet and Gateway will print on MENU listing.

Factory default settings

AMT Documax 5380 V2.0 U11 2013/01/15 SN: XXXXXXXXXXXXXXXXXXXXX
 MAC:XX-XX-XX-XX-XX-XX DHCP:YES IP:10.0.0.1 Subnet: 255.255.255.0 Gateway: 255.255.255.255

SYSTEM SETUP

LANGUAGE	ENGLISH	CHINESE
EMULATION	EPSON	OKI
CHAR. MODE	ASCII	CHINA

CHARACTER

FONT	ROMAN	SANS SER	COURIER	PRESTIGE SCRIPT	OCR-B	OCR-A	ORATOR
ENG PITCH	10 CPI	12 CPI	15 CPI	PROPORTIONAL			
CHI PITCH	6.7 CPI	7.5 CPI					
SLASH ZERO	OFF	ON					
INTL CHAR SE	U. S. A.	FRANCE	GERMANY	U.K.	DENMARK1	SWEDEN	ITALY SPAIN 1
	JAPAN	NORWAY	DENMARK2	SPAIN 2	LATIN AM	KOREA	LEGAL HOLLAND
	TURKEY						

GHAR. SET	ITALICS	GRAPHICS
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PAGE LAYOUT

LINE SPACING	6 LPI	8 LPI						
FORM LENGTH	3 INCH	11/3 INCH	3.5 INCH	4 INCH	5 INCH	5.5 INCH	6 INCH	7 INCH
	LETTER	A4	12 INCH	14 INCH				
FORM LOCK	OFF	ON						
PAGE SKIP	OFF	ON						
COMPRESS PRT	NORMAL	AUTO	75%	66%	50%			
LEFT MARGIN	0/10 INCH	1/10 INCH	2/10 INCH	3/10 INCH	4/10 INCH	5/10 INCH		
BLACK MARK	OFF	LEFT MARK	RIGHT MAR					

PRINT SETUP

PRINT DIR	BI-DIR	UNI-DIR	AUTO-DIR					
HIGH DENSITY	OFF	ON						
QUIET MODE	OFF	ON						
AUTO LF	OFF	ON						
LOADING	PUSH KEY	0.5 SEC.	1.0 SEC.	2.0 SEC.				
EJECT	FRONT	REAR						
PIN SWITCH	OFF	ON						
MARGIN DETEC	OFF	ON						
SKEW DETECT	OFF	001	002	003	004	005	006	007

SERIAL 1/F

BAUD RATE	19200 BPS	9600 BPS	4800 BPS	2400 BPS	1200 BPS
PARITY	NCNE	ODD	EVEN		
DATA BITS	8 BITS	7 BITS			
STOP BITS	1 BIT	2 BITS			
PROTOCOL	XON/XOFF	DTR			

HEAD PIN

PIN 1	_____	LIVE	BROKEN
	_____	LIVE	BROKEN
	_____	LIVE	BROKEN
PIN 24	_____	LIVE	BROKEN

Printer setting definitions

Options	Description
SYSTEM SETUP	
LANGUAGE	Specify the printer menu language as English or Chinese.
EMULATION	Specify printer's control commands.
CHAR. MODE	Select ASCII or Chinese character mode.
CHARACTER	
FONT	Specify a kind of ASCII character font. If the print data contains font instruction, the printer gives priority to print data instruction. (Only valid when CHARACTER MODE is set to ASCII)
ENG PITCH	Specify the ASCII character spacing in characters per inch (cpi).
CHI PITCH	Specify the Chinese character spacing in characters per inch (cpi).
SLASH ZERO	Select the printing character for the zero character with a slash (/) or without, to distinguish it from the letter O.
INTL CHAR SE	Specify the printer internal character set, utilizing international characters.
CHAR. SET	Specify character set as Italic Character or Graphic Character.
PAGE LAYOUT	
LINE SPACING	Specify the line spacing in lines per inch (lpi). If the print data includes vertical pitch instruction, the printer will give priority to the print data instruction.
FORM LENGTH	Specify the page length of the form, for both cut sheet and continuous paper. The printer feeds to next page according to the specified page length. If the print data includes page length instruction, the printer will give priority to the print data instruction.
FORM LOCK	After selecting this function, the printer will lock the page length setting. The printer feeds to next page according to the current setting parameter and will not be affected by the page length instruction of the print data.
PAGE SKIP	After selecting this function, the printer will leave one inch margin at the perforation of the tractor paper automatically. If the print data includes page margin instruction, the printer will give priority to print data instruction.
COMPRESS PRT	After selecting this function, the printer will print out transverse compressed content according to the specified percentage in normal speed. When auto-compress mode is selected, the printer will detect paper width automatically and choose the proper percentage to print.
LEFT MARGIN	Specify the distance between paper left edge and printing home position. (Only valid when ANY POSITION PAPER FEED function is on.)
BLACK MARK	After selecting this function, the printer will carry out black mark detect instruction to make precise vertical positioning (paper/forms should have black mark on the top surface).

PRINT SETUP	
PRINT DIR	Select the printing direction of the print head: unidirectional, bidirectional or Auto selected via software.
HIGH DENSITY	After selecting this function, printing definition will be enhanced while the print speed is reduce.
QUIET MODE	Disable or enable the low noise function. When this function is on, print speed will be reduced.
AUTO LF	If this function is on, the printer will advance the paper one line automatically after receiving every carriage return instruction.
LOADING	Specify the wait time between installing the cut sheet into the paper guide and when it is fed into the printer. Choose to wait specify time or press LF/FF key to feed paper.
EJECT	Specify paper eject direction when loading paper from front.
PIN SWITCH	After selecting this function, the printer will switch different pins to print table line automatically.
MARGIN DETECT	After selecting this function, the printer will detect the paper edge automatically after feeding paper, and start to print from the position according to the left margin setting.
SKEW DETECT	After selecting this function, the printer will auto detect paper skew when feeding cut sheet paper. If the slant degree is beyond the set parameter, the printer will eject paper automatically.
SERIAL I/F	
BAUD RATE	Specify the printer serial data transfer rate.
PARITY	Specify the parity bit for serial data transfer.
DATA BITS	Specify the serial data bits.
STOP BITS	Specify the serial data transfer stop bit.
PROTOCOL	Specify the protocol of printer serial data transfer as software control (XON/XOFF) or hardware control (DTR).
HEAD PIN	Select the broken pin. The printer will automatically replace it with other pin to print.

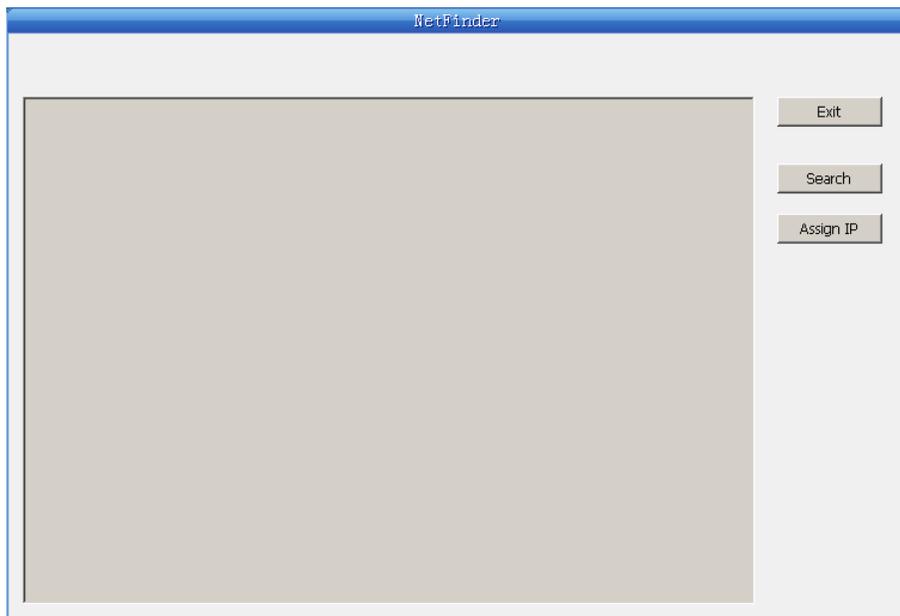
Ethernet Interface Settings

NetFinder search

1. Power on the printer, connect the LAN Ethernet cable to the printer port located on the back of the printer. Verify the Ethernet port LED indicates a normal connection.

Yellow LED	Green LED	Description
ON	Blink	Connecting to network
OFF	OFF	Not connecting to network

2. Run NetFinder software (provided on CD shipped with the printer).



Button description:

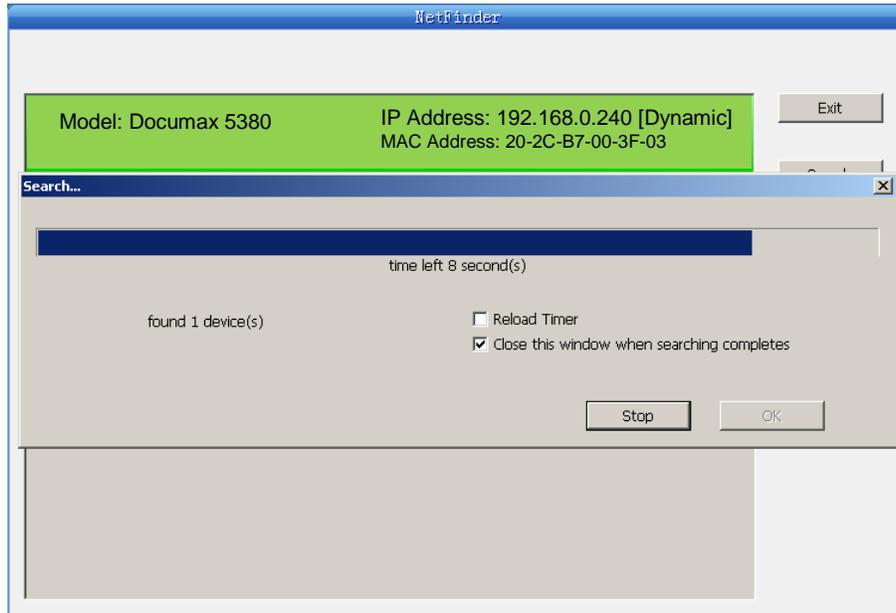
Exit — Exit from the software

Search — Search for printers in the same LAN

Assign IP — Modify the IP address and other settings for the specified printer.

3. Click the “Search” button, the dialog box appearing will begin searching automatically listing printers found in the network. The time is counting down in the progress bar (10 seconds) and the search will finish as soon as the time is over.

Search results:



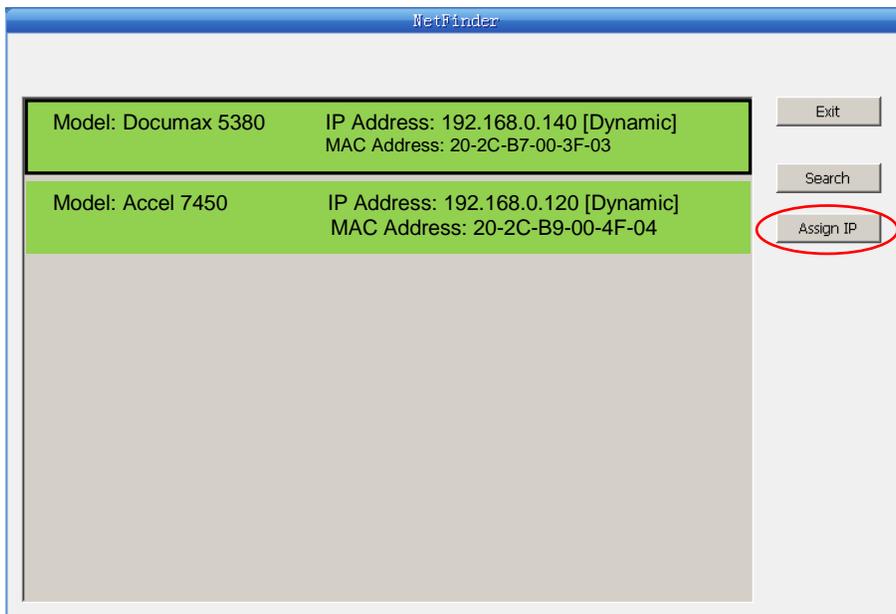
Should the printer not be found during the search, check to see if the network firewall is blocking the search results. Temporally disable the firewall and restart the NetFinder search.

In order to search and set the printer's IP address conveniently for the first time, the factory default setting is DHCP mode which assigns the IP address dynamically. If there is no DHCP server in the connected LAN and the printer is set to DHCP mode as well, then it will use the internal pre-set address (IP: 10.0.0.1, Subnet Mask: 255.255.255.0) automatically.

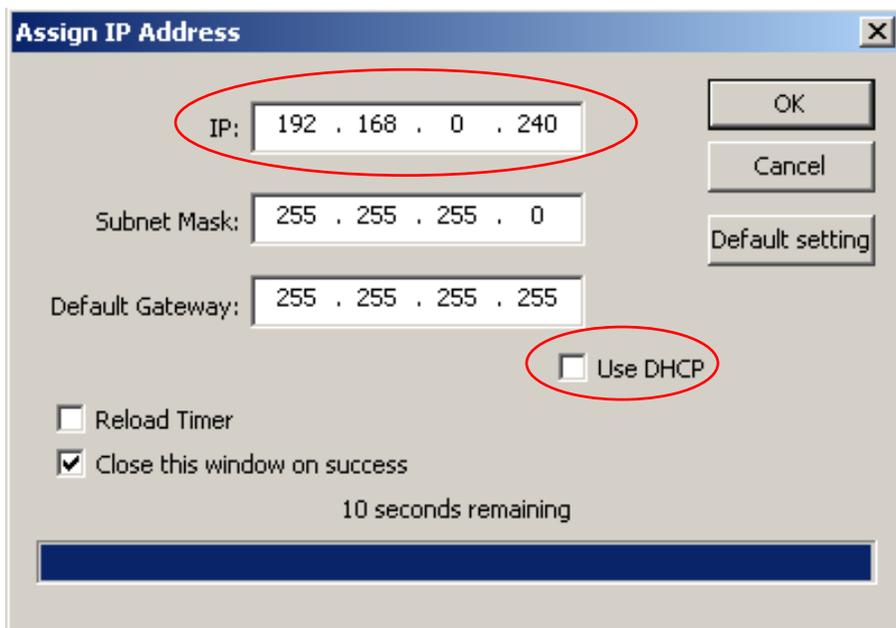
Setting printer static IP address

1. Run NetFinder search. Refer to "NetFinder Search" section for instructions.

2. Select the printer information to be modified by clicking on the displayed printer (black frame appears), click “Assign IP” button.

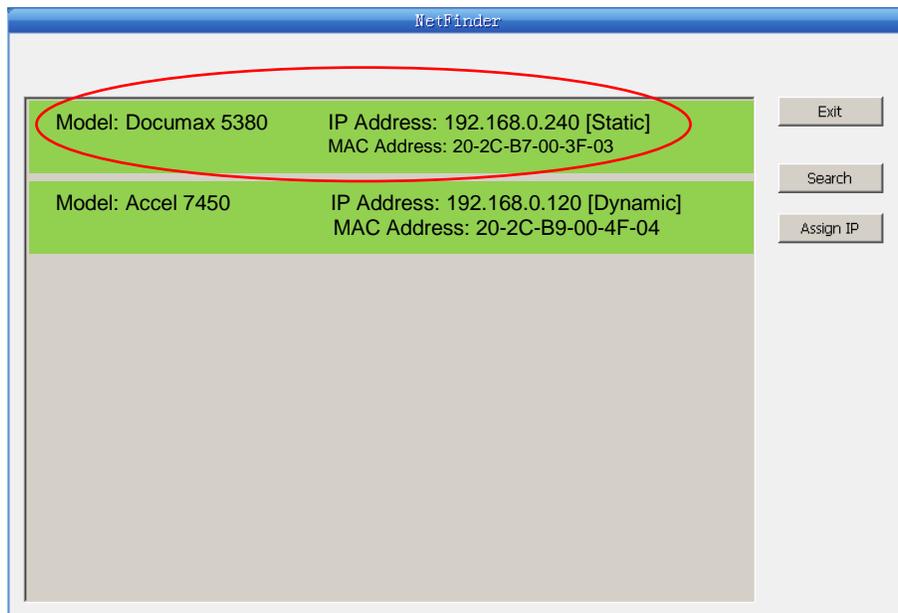


3. Uncheck “Use DHCP” and set the desired IP address, Subnet Mask and Gateway in the dialog box. If there is no gateway in the network, use 255.255.255.255.



4. Click “OK” button to assign Static IP address.

5. Run NetFinder again to verify the printer has been updated with Static IP.



6. Exit NetFinder software.

7. Open the “Devices and Printers” window from the PC Start button. 

8. Right-click on the Documax 5380 icon  and select “Printer Properties”.

9. Choose the “Ports” tab and select the correct IP interface port for your printer.

10. End of procedure.

Diagnostic Testing

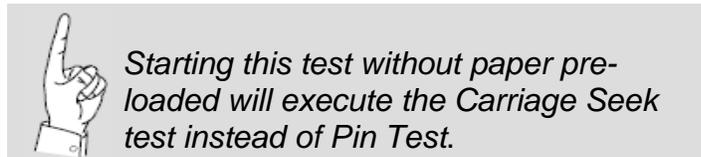
ASCII Self-test

1. Power on the printer while pressing the **ONLINE** key.
Pressing the ONLINE key a second time will stop printing. Reboot the printer to exit ASCII test mode.

```
ASCII TEST MODE
AMT Documax 5380  VX.X XXX XXXX/XX/XX  SN: XXXXXXXX
MAC: XX-XX-XX-XX-XX-XX  DHCP: YES  IP: 10.0.0.1  Subnet: 25
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMN OPQRSTUVWXYZ[\]^_`abc
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMN OPQRSTUVWXYZ[\]^_`abc
!"#$%&'()*+,-./0123456789:;<=>?@ABCDEFGHIJKLMN OPQRSTUVWXYZ[\]^_`abcde
```

Print head pin test

1. Power ON printer, load paper and then turn OFF the printer.
2. Press the **ONLINE** and **LOAD/EJECT** keys while turning on the printer.



Hex dump mode

1. Turn power on while pressing the **LOAD/EJECT** key to enter Hex Dump mode. In this mode, the data sent from computer will print in Hexadecimal code. Pressing the **ONLINE** key can stop printing, reboot the printer to exit Hex Dump mode.

```
***** HEXADECIMAL DUMP *****
(0000) 1B 34 41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E .4ABCDEFGHIJKLMN
(0010) 4F 50 51 52 53 54 55 56 57 58 59 5A 0D 0A 1B 35 OPQRSTUVWXYZ...5
(0020) 41 42 43 44 45 46 47 48 49 4A 4B 4C 4D 4E 4F 50 ABCDEFGHIJKLMN OP
(0030) 51 52 53 54 55 56 57 58 59 0D 0A          QRSTUVWXYZ..
```

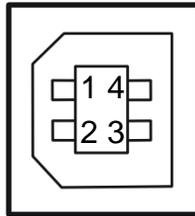
Interface Specification

This Documax 5380 printer can be configured with 2.0 Full-Speed USB interface, RS-232 serial interface, 10/100Base-T Ethernet interface or the optional Centronics (IEEE1284 NIBBLE) parallel interface

USB 2.0 full speed interface

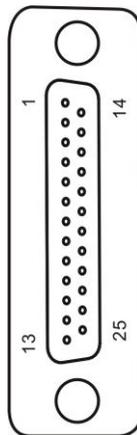
1. The following table provides the standardized contact terminating assignments for Series "A" and Series "B" connectors.

Pin number	Name	Color
1	VBUS	Red
2	D-	White
3	D+	Green
4	GND	Black



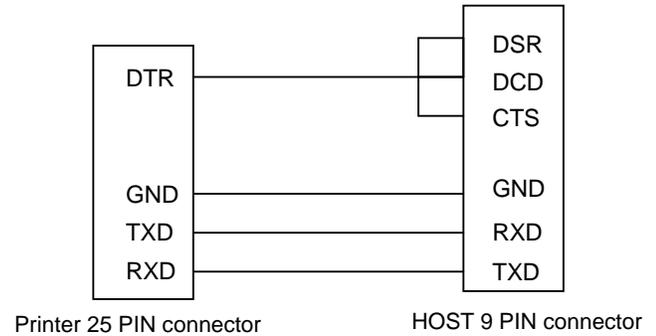
Serial DB-25 interface

1. RS-232 serial interface, printer DB-25 female type.



2. Pin description:

Pin	Signal Name	Direction
1	FG Frame Ground	
2	TXD Transmit Data	OUT
3	RXD Receive Data	IN
4	RTS Request to Send	OUT
5	CTS Clear to send	IN
6	DSR Data set ready	IN
7	GND Ground	
8	DCD Data carrier Detect	IN
...		
...		
20	DTR Data terminal ready	OUT
...		
...		



3. Signal description:

Typical pin out ~

- Input signal: RXD and DSR
- Output signal: TXD and DTR
- RXD: The printer receives data
- DTR: High level denotes that the printer is ready to receive the data from the HOST; contrarily, denotes the printer is BUSY and it is forbidden to receive the data from the HOST.
- TXD: The printer sends data

Data bit format ~

- Data bit is fixed 8 bits, Stop bit is fixed 1 bit

Baud Rate ~

- Serial communication baud rate can be set through menu setting:
1200 bps, 2400 bps, 4800bps, 9600bps, 19200 bps

Interface Protocol ~

The DTR from printer controls the data stream between printer and HOST. When DTR is high level, the printer is READY, it can receive the data from HOST. DTR is high level in the following conditions:

- The printer is online.
- The data buffer of the printer is larger than limited value.
- The printer has no error.

When the DTR is low level, the printer is BUSY, it cannot receive the data from HOST. DTR is low level in the following conditions:

- The printer is offline.
- The data buffer of the printer is smaller than limited value.
- The printer has an error.

X-ON/X-OFF Protocol ~

Send the X-ON (11H) code to the HOST from the printer through TXD, which indicates the printer is FREE and can receive data from HOST. In the situation where the printer buffer area is larger than limited value, the below two conditions can make the printer send X-ON code:

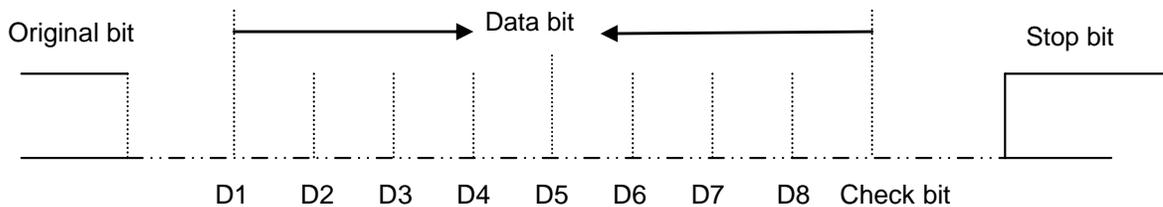
- The printer becomes FREE from BUSY state.
- The printer becomes ONLINE from OFFLINE state.

Send the X-OFF (13H) code to the HOST from the printer through TXD, which indicates the printer is BUSY and cannot receive data from HOST. In the following five conditions, the printer sends X-OFF code to printer:

- The printer becomes BUSY from FREE state.
- The printer becomes OFFLINE from ONLINE state.
- The printer buffer is smaller than limited value.
- The printer has an error.
- The printer is out of paper.

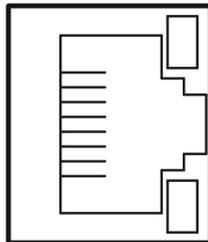
Serial Specification

Serial data consists of Original bit (1 bit) + data bit (8 bits) + check bit (1 bit) + stop bit (1 bit).



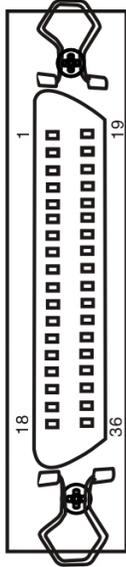
Ethernet interface

1. 10/100 Base-T:



Parallel interface

1. Standard Centronics (IEEE1284 NIBBLE) parallel interface connector, DB-36 pin type connector.

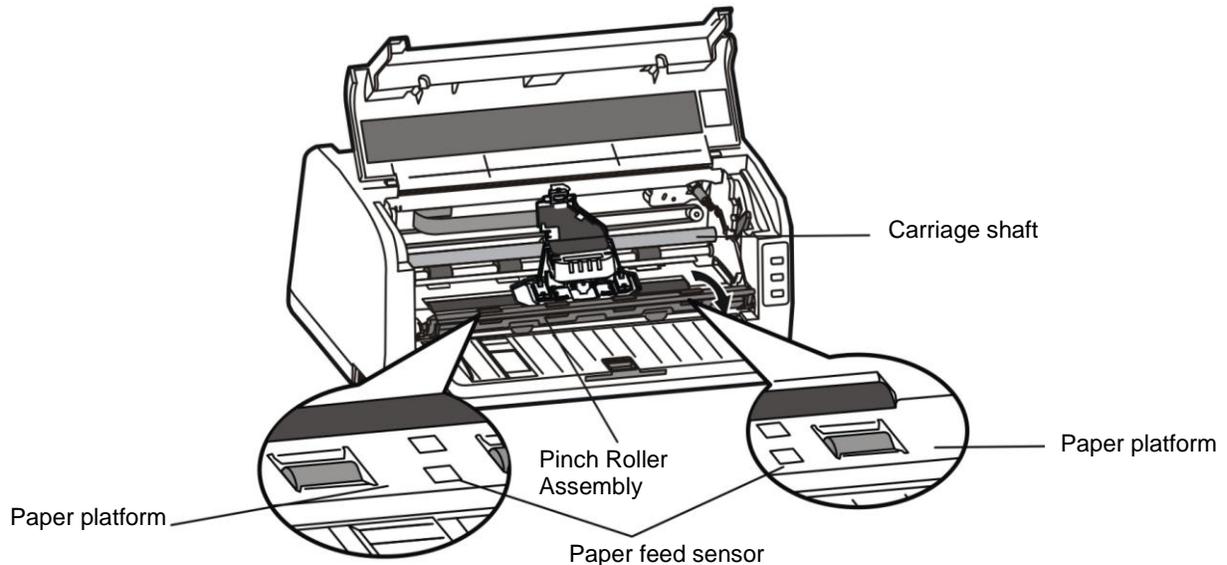


The parallel interface has the following characteristics:

Data format: 8-bit
Synchronization: STROBE pulse
Handshaking: BUSY and ACKNLG signals
Signal level: TTL compatible

Signal Pin No.	Return Line Pin No.	Signal Name	Signal Direction
1	19	/STROBE	Printer ← Host
2 ~ 9	20 ~ 27	DATA	Printer ← Host
10	28	/ACK	Printer → Host
11	29	BUSY	Printer → Host
12	30	PE	Printer → Host
13	—	SELECT	Printer → Host
14	—	/AUTO FEED	Printer ← Host
15	—	NC	NC
16	—	SIGNAL GND	Printer ↔ Host
17	—	CHASSIS GND	Printer ↔ Host
18	—	+5V	Printer → Host
31	—	/PRIME	Printer ← Host
32	—	/ERROR	Printer → Host
33	—	SIGNAL GND	Printer ↔ Host
34	—	NC	Printer → Host
35	—	PULLED UP 5V	Printer → Host
36	—	/SELECT IN	Printer ← Host

Printer Maintenance



CAUTION

- ❖ Disconnect AC Power Cord
- ❖ Do not touch the print head immediately after printing because it may be too hot.

- **Cleaning period**

Periodical cleaning: every six months or every 300 running hours.
Cleaning tool: dry cloth (use soft cloth to clean metal & plastic parts).

- **Clean the paper platform**

Pull out the Pinch Roller Assembly and turn it over. Wipe away paper and ink debris.
Clean white pinch rollers with alcohol.
Return Pinch Roller Assembly to the former position.

- **Clean the carriage shaft**

There is a layer of oil on the carriage shaft which guarantees a smooth and consistent motion. First clean (remove) the contaminated oil and dust with a soft cloth, and then add proper lube (3-1 light machine oil is recommended), move print head back and forth to distribute lube.

- **Clean the paper feed sensors**

With a soft cloth, clean the paper feed photo sensors protect shield every three months.

Printer Specification

When no other printer will do, rely on the Documax 5380 - the new flat-bed narrow carriage printer.

- Form sets original + 6 parts
- 24 pin, flat bed, narrow carriage
- Forms on demand
- Paper out sensing
- Forms Skew Detection
- No forms waste
- Print speeds up to 360 cps



PRINTER SPECIFICATIONS INCLUDE:

Models	5380 Standard	Cut sheet front load, front or rear eject. Tractor feed rear load, front eject.
Method	Serial Impact dot-matrix, bi-directional and logic seeking	
Speed	Super Speed Draft High Speed Draft Letter-Quality	360 cps (12 cpi) 330 cps (12 cpi) 170 cps (12 cpi)
Pitches (cpi)	10, 12, 15 and Proportional	
Line Feed Speed	4 inches per second	
Fonts	Draft, Roman, Sans Serif, Courier Prestige, Script, OCR-A, OCR-B, and Orator	
Graphics	360V x 360H	
Print Width	80 columns (10 cpi)	
Printhead	Number of pins	24
Operator Panel	3 keys and 3 indicator lights	
Bar Codes	Code 3 of 9, Interleaved 2 of 5, Code 128, EAN-13, EAN-8, Matrix 2 of 5, Industry 2 of 5, NW-7	
Buffer	132 K Bytes	
Ribbon Life	4 million characters	

Emulations	Epson® ESC/PK2, Okidata 5530SC
Interfaces	Standard: Ethernet, USB, RS-232C Serial (25 pin) Option1: USB, Serial RS-232C (25 pin) Parallel (IEEE 1284 NIBBLE)
Paper Handling	Fanfold paper – rear push tractor Paper width : 2.36 – 10" Paper weight : 14 – 34 lbs (single paper) 11 – 15 lbs (multi-part, each page) Paper thickness: Original + 6 copies Maximum 0.021 inches Cut sheet or card stock – front load Paper width: 2.75 – 10.12" Paper length: 3.15 – 21.10"
Physical	Height 6.61 in. (168 mm) Width 14.57 in. (370 mm) Depth 11.93 in. (303 mm) Weight 10.6 lbs. (4.8 kg)
Electrical	Power 120 vac 60 Hz Noise <52 dBA
Power Consumption	Operation: 70W, Max 150W, Standby: 3.9 W
Certifications	UL, FCC Class B
Warranty	One year, parts and labor, return to Depot



Part No. rev. A
Specifications are subject to change without notice.

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