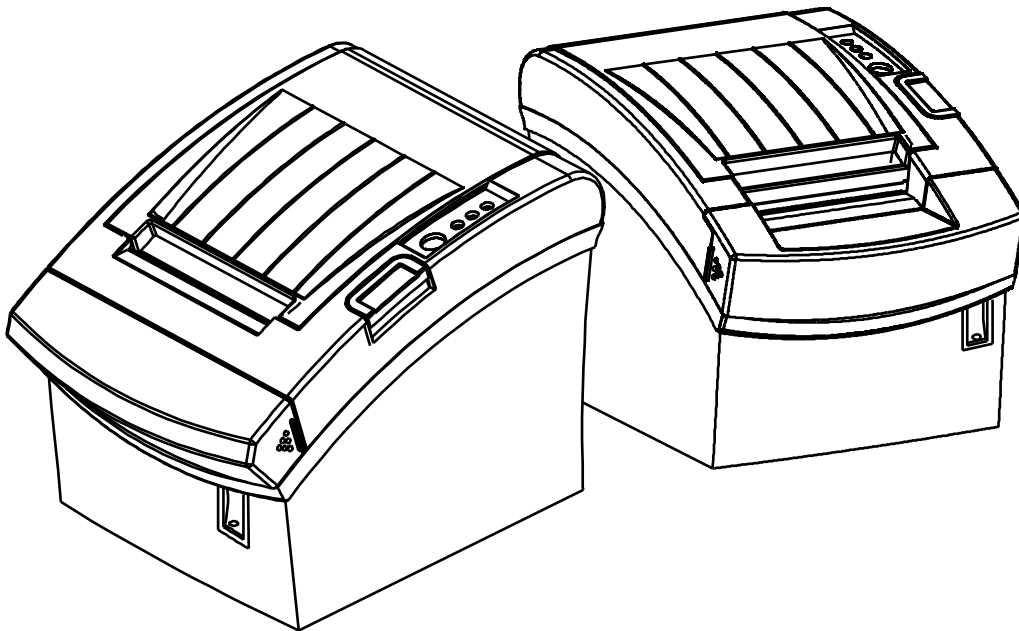


BIXOLON®

User's Manual
SRP-350/352plusIIA&C

Thermal Printer
Rev. 1.04



<http://www.bixolon.com>

■ Safety Precautions

In using the present appliance, please keep the following safety regulations in order to prevent any hazard or material damage.



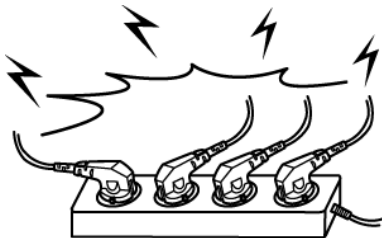
WARNING

Violating following instructions can cause serious injury or death.

Do not plug several products in one multi-outlet.

- This can provoke over-heating and a fire.
- If the plug is wet or dirty, dry or wipe it before usage.
- If the plug does not fit perfectly with the outlet, do not plug in.
- Be sure to use only standardized multi-outlets.

PROHIBITED



You must use only the supplied adapter.

- It is dangerous to use other adapters.

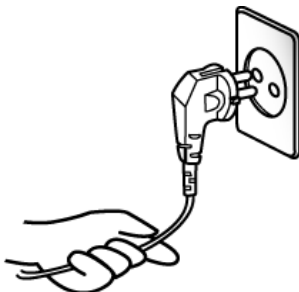
PROHIBITED



Do not pull the cable to unplug.

- This can damage the cable, which is the origin of a fire or a breakdown of the printer.

PROHIBITED



Keep the plastic bag out of children's reach.

- If not, a child may put the bag on his head.

PROHIBITED



Do not plug in or unplug with your hands wet.

- You can be electrocuted.

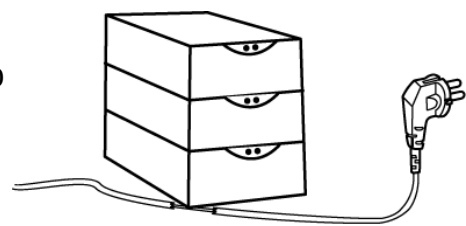
PROHIBITED



Do not bend the cable by force or leave it under any heavy object.

- A damaged cable can cause a fire.

PROHIBITED





CAUTION

Violating following instructions can cause slight wound or damage the appliance.

If you observe a strange smoke, odor or noise from the printer, unplug it before taking following measures.

- Switch off the printer and unplug the set from the mains.
- After the disappearance of the smoke, call your dealer to repair it.

TO UNPLUG



Keep the desiccant out of children's reach.

- If not, they may eat it.

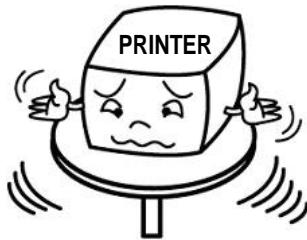
PROHIBITED



Install the printer on the stable surface.

- If the printer falls down, it can be broken and you can hurt yourself.

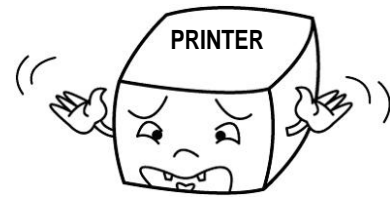
PROHIBITED



Use only approved accessories and do not try to disassemble, repair or remodel it for yourself.

- Call your dealer when you need these services.
- Do not touch the blade of auto cutter.

DISASSEMBLING PROHIBITED



Do not let water or other foreign objects in the printer.

- If this happened, switch off and unplug the printer before calling your dealer.

PROHIBITED



Do not use the printer when it is out of order. This can cause a fire or an electrocution.

- Switch off and unplug the printer before calling your dealer.

TO UNPLUG



■ Warning - U.S.A

This equipment has been tested and found to comply with the limits for a Class A digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

■ Notice - Canada

This Apparatus complies with class "A" limits for radio interference as specified in the Canadian department of communications radio interference regulations.

Get appareil est conforme aux normes class "A" d'interference radio tel que specifier par ministre canadien des communications dans les reglements d'interference radio.

■ Caution

Some semiconductor devices are easily damaged by static electricity. You should turn the printer "OFF", before you connect or remove the cables on the rear side, in order to guard the printer against the static electricity. If the printer is damaged by the static electricity, you should turn the printer "OFF".

■ Waste Electrical and Electric Equipment (WEEE)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

■ Label Material

- * Control Label: PC
- * Other Labels: PET

■ Introduction

The SRP-350/352plusII Roll Printer are designed for use with electronic instruments such as system ECR, POS, banking equipment, computer peripheral equipment, etc. The main features of the printer are as follows:

1. High speed printing : 59 (1/6" Feed) lines per second.
2. Low noise thermal printing.
3. The data buffer allows the unit to receive print data even during printing.
4. Peripheral units drive circuit enables control of external devices such as cash drawer.
5. Characters can be scaled up to 64 times compared to it's original size.
6. Bar code printing is possible by using a bar code command.
7. Different print densities can be selected by DIP switches.

Please be sure to read the instruction in this manual carefully before using your new SRP-350/352plusII.

※ NOTE

The socket-outlet shall be near the equipment and it shall be easy accessible.

※ **All specifications are subjected to change without notice.**

We at BIXOLON maintain ongoing efforts to enhance and upgrade the functions and quality of all our products. In following, product specifications and/or user manual content may be changed without prior notice.

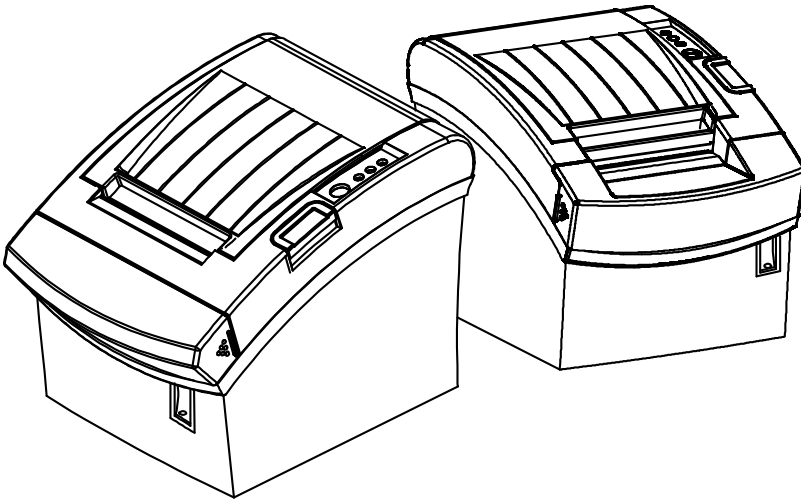
■ Table of Contents

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1. Setting Up the Printer

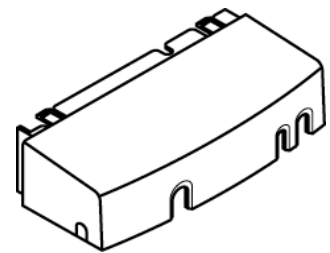
1-1 Unpacking

Your printer box should include these items. If any items are damaged or missing, please contact your dealer for assistance.

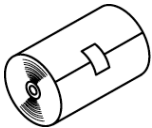


SRP-350/352plusIIC

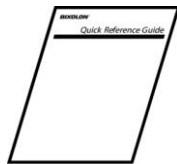
SRP-350/352plusIIA



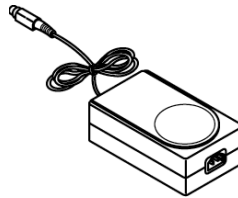
Cover Cable



Roll Paper



Manual



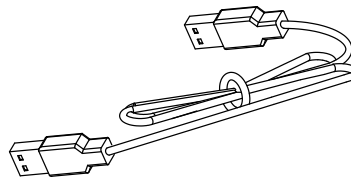
AC Adapter



Power Cord



CD



USB A-A CABLE

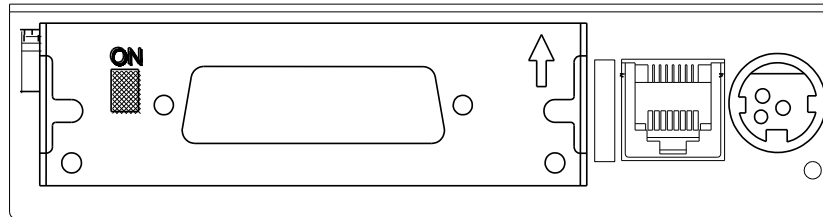
1-2 Connecting the Cables

You can connect up the three cables to the printer. They all connect to the connector panel on the back of the printer, which is shown below:

※ NOTE

Before connecting any of the cables, make sure that both the printer and the host are turned off.

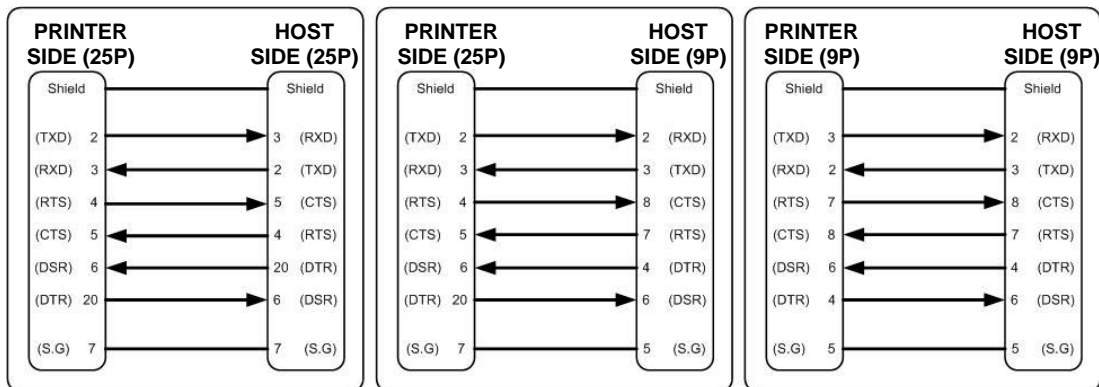
1-2-1 Serial Interface (RS-232C)



Interface connector

Drawer kick-out connector Power supply connector

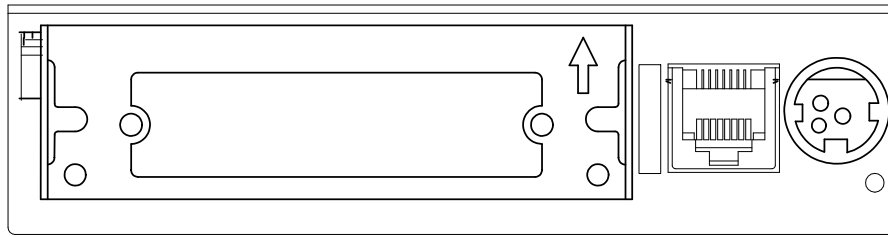
※ When the Dip Switch is “ON” on the Serial Interface Board, DTR and RTS are connected each other.



Pin No.	Signal Name	Signal Direction	Function
BODY	Frame GND	-	Frame Ground
2	TXD	Output	Transmit Data
3	RXD	Input	Receive Data
6	DSR	Input	This signal indicates whether the host computer can receive data. (H/W flow control) 1) MARK(Logic1) : The host can receive a data. 2) SPACE(Logic0) : The host can not receive a data. 3) The printer transmits a data to the host, after confirming this signal. 4) When XON/XOFF flow control is selected, the printer does not check this signal.
7	Signal GND	-	Signal Ground
20	DTR	Output	This signal indicates whether the printer is busy. (H/W flow control) 1) MARK(Logic1) : The printer is busy. 2) SPACE(Logic0) : The printer is not busy. 3) The host transmits a data to the printer, after confirming this signal. 4) When XON/XOFF flow control is selected, the host does not check this signal.
Shield	Frame GND	-	Frame Ground

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1-2-2 Parallel Interface (IEEE1284)



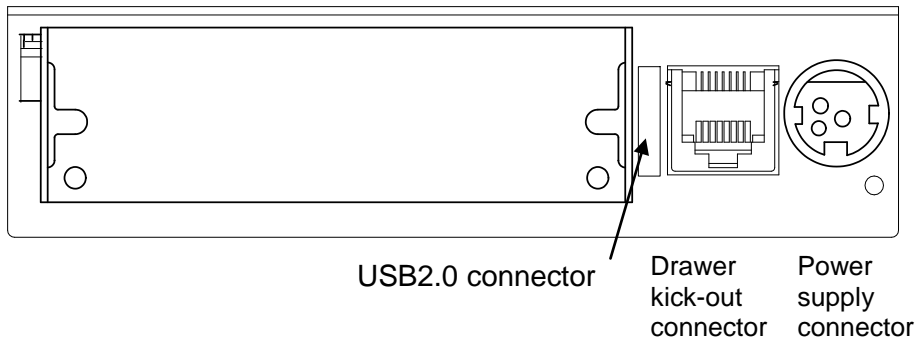
Interface connector

Drawer
kick-out
connector

Power
supply
connector

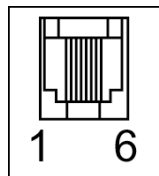
Pin No.	Source	Compatibility Mode	Nibble Mode	Byte Mode
1	Host	nStrobe	HostClk	HostClk
2	Host / Printer	Data 0 (LSB)	-	Data 0 (LSB)
3	Host / Printer	Data 1	-	Data 1
4	Host / Printer	Data 2	-	Data 2
5	Host / Printer	Data 3	-	Data 3
6	Host / Printer	Data 4	-	Data 4
7	Host / Printer	Data 5	-	Data 5
8	Host / Printer	Data 6	-	Data 6
9	Host / Printer	Data 7 (MSB)	-	Data 7 (MSB)
10	Printer	nAck	PtrClk	PtrClk
11	Printer	Busy	PtrBusy /Data3,7	PtrBusy
12	Printer	Perror	AckDataReq/Data2,6	AckDataReq
13	Printer	Select	Xflag /Data1,5	Xflag
14	Host	nAutoFd	HostBusy	HostBusy
15		NC	NC	NC
16		GND	GND	GND
17		FG	FG	FG
18	Printer	Logic-H	Logic-H	Logic-H
19~30		GND	GND	GND
31	Host	nInit	nInit	nInit
32	Printer	nFault	nDataAvail /Data0,4	nDataAvail
33		GND	ND	ND
34	Printer	DK_Status	ND	ND
35	Printer	+5V	ND	ND
36	Host	nSelectIn	1284-Active	1284-Active

1-2-3 USB2.0 Interface



Pin No.	Signal Name	Assignment (Color)	Function
Shell	Shield	Drain Wire	Frame Ground
1	VBUS	Red	Host Power : DC5[V] / 500[mA]
2	D-	White	Differential Data Line
3	D+	Green	Differential Data Line
4	GND	Black	Signal Ground

1-3 Connecting the Drawer



※ WARNING

Use a drawer that matches the printer specification. Using an improper drawer may damage the drawer as well as the printer.

※ CAUTIONS

Do not connect a telephone line to the drawer kick-out connector; otherwise the printer and the telephone line may be damaged.

Plug the drawer cable into the drawer kick-out connector on the back of the printer next to the power supply connector.

Pin No.	Signal name	Direction
1	Frame ground	-
2	Drawer kick- out drive signal 1	Output
3	Drawer open/close signal	Input
4	+24V	-
5	Drawer kick- out drive signal 2	Output
6	Signal ground	-

※ Drawer Port is 24Vdc/2.5A Output rating, Class 1.

1-4 Setting the Dip Switches**1-4-1 Serial Interface (RS-232C)**

• DIP Switch 1

SW	Function	ON	OFF	Default
1-1	Auto Line Feed	Enable	Disable	OFF
1-2	Flow Control	XON/XOFF	DTR/DSR	OFF
1-3	Data Length	7 bits	8 bits	OFF
1-4	Parity Check	Yes	No	OFF
1-5	Parity Selection	EVEN	ODD	OFF
1-6	Baud rate Selection (bps)	Refer to the following Table 1		OFF
1-7				ON
1-8				OFF

• DIP Switch 2

SW	Function	ON	OFF	Default
2-1	Auto cutter control	Full cut	Partial cut	OFF
2-2	Internal bell control	Internal bell disable	Internal bell enable	OFF
2-3	Auto Cutter	Auto cutter disable	Auto cutter enable	OFF
2-4	Reserved	-	-	OFF
2-5	Print Density	Refer to the following table 2		OFF
2-6				OFF
2-7	Near-End Sensor Status	Disable	Enable	OFF
2-8	External buzzer control	External buzzer enable	External buzzer disable	OFF

1-4-2 Parallel & USB2.0 Interface

• DIP Switch 1

SW	Function	ON	OFF	Default
1-1	Auto Line Feed	Enable	Disable	OFF
1-2	Reserved	-	-	OFF
1-3	Reserved	-	-	OFF
1-4	Reserved	-	-	OFF
1-5	Reserved	-	-	OFF
1-6	Reserved	-	-	OFF
1-7	Reserved	-	-	ON
1-8	Reserved	-	-	OFF

• DIP Switch 2

SW	Function	ON	OFF	Default
2-1	Auto cutter control	Full cut	Partial cut	OFF
2-2	Internal bell control	Internal bell disable	Internal bell enable	OFF
2-3	Auto Cutter	Auto cutter disable	Auto cutter enable	OFF
2-4	Reserved	-	-	OFF
2-5	Print Density	Refer to the following table 2		OFF
2-6				OFF
2-7	Near-End Sensor Status	Disable	Enable	OFF
2-8	External buzzer control	External buzzer enable	External buzzer disable	OFF

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• Table 1 – Baud rate (bps) Selection

Transmission Speed	1-6	1-7	1-8	Default
2400	ON	OFF	OFF	9600
4800	ON	OFF	ON	
9600	OFF	ON	OFF	
19200	OFF	OFF	OFF	
38400	OFF	ON	ON	
57600	OFF	OFF	ON	
115200	ON	ON	ON	

• Table 2 – Print Density Selection

Print Density	2-5	2-6	Default
1 (Light)	ON	ON	2
2	OFF	OFF	
3	ON	OFF	
4 (Dark)	OFF	ON	

1-4-3 Auto Cutter Enable / Disable selection

Dip Switch Set 2		
SW 2-3	ON	Auto Cutter Disabled
	OFF	Auto Cutter Enabled
Application	Ignores Auto Cutter error for continuous printing.	

1-5 Setting the Memory Switches

This printer has “Memory Switch” set which is software switches. Memory Switch set has “MSW1”, “MSW2”, “MSW8”, “MSW9” “Customize value”, “Serial communication condition”. “Memory Switch setting utility” can change the Memory Switch set to ON or OFF as shown in the table below. (default : all OFF)

※ NOTE

The Memory Switch is available to be changed by three methods.

- Memory Switch setting utility.
- Control from BXL/POS command.

Settings of the Memory Switch are stored in the NV memory : therefore, even if the printer is turned off, the settings are maintained.

MSW1

Switch	Function	ON	OFF
1	Select Print Speed	Refer to following Table	
2			
3~8	Reserved	--	Fixed to OFF

180dpi

MSW 1-2	MSW 1-1	Print Density	Remark
OFF	OFF	Print Density 3	250mm/s
OFF	ON	Print Density 2	230mm/s
ON	OFF	Print Density 1	200mm/s

203dpi

MSW 1-2	MSW 1-1	Print Density	Remark
OFF	OFF	Print Density 3	230mm/s
OFF	ON	Print Density 2	200mm/s
ON	OFF	Print Density 1	180mm/s

MSW2

Switch	Function	ON	OFF
1	Specification for Destination	Double byte Country	Single byte Country
2	Reserved	--	Fixed to OFF
3	Code Page Selection	Refer to following Table	
4			
5			
6			
7			
8			

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MSW2-8	MSW2-7	MSW2-6	MSW2-5	MSW2-4	MSW2-3	Character Table
OFF	OFF	OFF	OFF	OFF	OFF	Page 0 437 (USA, Standard Europe)
OFF	OFF	OFF	OFF	ON	OFF	Page 1 Katakana
OFF	OFF	OFF	ON	OFF	OFF	Page 2 850 (Multilingual)
OFF	OFF	OFF	ON	ON	OFF	Page 3 860 (Portuguese)
OFF	OFF	ON	OFF	OFF	OFF	Page 4 863 (Canadian-French)
OFF	OFF	ON	OFF	ON	OFF	Page 5 865 (Nordic)
OFF	OFF	ON	ON	OFF	OFF	Page 16 1252 (Latin I)
OFF	OFF	ON	ON	ON	OFF	Page 17 866 (Cyrillic #2)
OFF	ON	OFF	OFF	OFF	OFF	Page 18 852 (Latin 2)
OFF	ON	OFF	OFF	ON	OFF	Page 19 858 (Euro)
OFF	ON	OFF	ON	OFF	OFF	Page 21 862 (Hebrew DOS code)
OFF	ON	OFF	ON	ON	OFF	Page 22 864 (Arabic)
OFF	ON	ON	OFF	OFF	OFF	Page 23 Thai42
OFF	ON	ON	OFF	ON	OFF	Page 24 1253 (Greek)
OFF	ON	ON	ON	OFF	OFF	Page 25 1254 (Turkish)
OFF	ON	ON	ON	ON	OFF	Page 26 1257 (Baltic)
ON	OFF	OFF	OFF	OFF	OFF	Page 27 Farsi
ON	OFF	OFF	OFF	ON	OFF	Page 28 1251 (Cyrillic)
ON	OFF	OFF	ON	OFF	OFF	Page 29 737 (Greek)
ON	OFF	OFF	ON	ON	OFF	Page 30 775 (Baltic)
ON	OFF	ON	OFF	OFF	OFF	Page 31 Thai14
ON	OFF	ON	OFF	ON	OFF	Page 32 Hebrew Old code
ON	OFF	ON	ON	OFF	OFF	Page 33 1255 (Hebrew New code)
ON	OFF	ON	ON	ON	OFF	Page 34 Thai11
ON	ON	OFF	OFF	OFF	OFF	Page 35 Thai18
ON	ON	OFF	OFF	ON	OFF	Page 36 855 (Cyrillic)
ON	ON	OFF	ON	OFF	OFF	Page 37 857 (Turkish)
ON	ON	OFF	ON	ON	OFF	Page 38 928 (Greek)
ON	ON	ON	OFF	OFF	OFF	Page 39 Thai16
ON	ON	ON	OFF	ON	OFF	Page 40 1256 (Arabic)
ON	ON	ON	ON	OFF	OFF	Page 41 1258 (Vietnam)
ON	ON	ON	ON	ON	OFF	Page 42 Khmer (Cambodia)
OFF	OFF	ON	OFF	OFF	ON	Page 47 1250 (Czech)

MSW3

Switch	Function	ON	OFF
1	Select Emulation	Refer to following Table	
2			
3			
4~8	Reserved	--	Fixed to OFF

MSW 3-3	MSW 3-2	MSW 3-1	Emulation	Remark
OFF	OFF	OFF	Emulation 1	ESC / POS
OFF	OFF	ON	Emulation 2	
OFF	ON	OFF	Emulation 3	
OFF	ON	ON	Emulation 4	
ON	OFF	OFF	Emulation 5	

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MSW4

Switch	Function	ON	OFF
1	Reserved	--	Fixed to OFF
2	Reserved	--	Fixed to OFF
3	Single byte Font Selection	Refer to following Table	
4			
5~8	Reserved	--	Fixed to OFF

MSW 4-4	MSW 4-3	Single byte Font Selection	Remark
OFF	OFF	Font A	12 x 24
OFF	ON	Font B	9 x 17
ON	OFF	Font C	9 x 24
ON	ON	--	Fixed to OFF

MSW5

Switch	Function	ON	OFF
1~2	Reserved	--	Fixed to OFF
3	2Color support	Enable	Disable
4~6	Reserved	--	Fixed to OFF
7	2inch Left mode	Enable	Disable
8	2inch Center mode	Enable	Disable

MSW6

Switch	Function	ON	OFF
1	Auto internal buzzer after cutting	Enable	Disable
2	Auto internal buzzer option	1 time	3 time
3	Auto internal buzzer with cash drawer	Enable	Disable
4	Auto external buzzer after cutting	Enable	Disable
5~8	Reserved	--	Fixed to OFF

MSW11

Switch	Function	ON	OFF
1~8	Reserved	--	Fixed to OFF

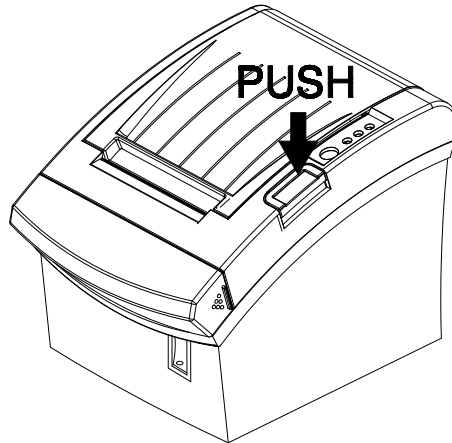
1-6 Installing or Replacing the Paper Roll

※ NOTE

Be sure to use paper rolls that meet the specifications. Do not use paper rolls that have the paper glued to the core because the printer cannot detect the paper end correctly.

1-6-1 Make sure that the printer is not receiving data; otherwise, data may be lost.

1-6-2 Open the paper roll cover by pressing the cover-open button.

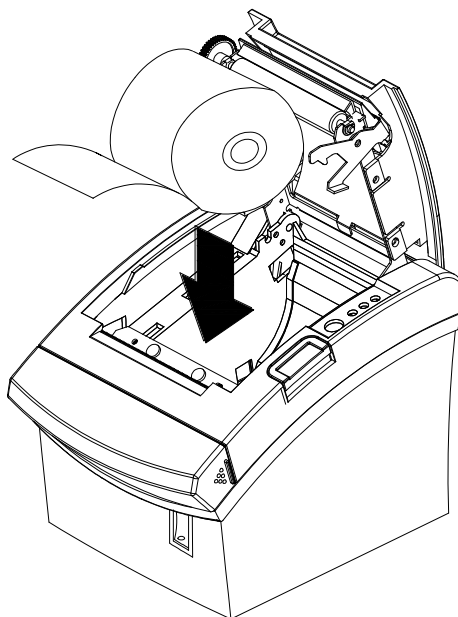


※ NOTE

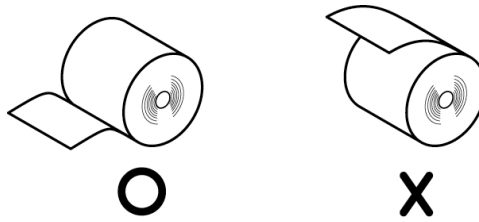
Do not open the print cover while the printer is operating. This may damage the printer.

1-6-3 Remove the used paper roll core if there is one.

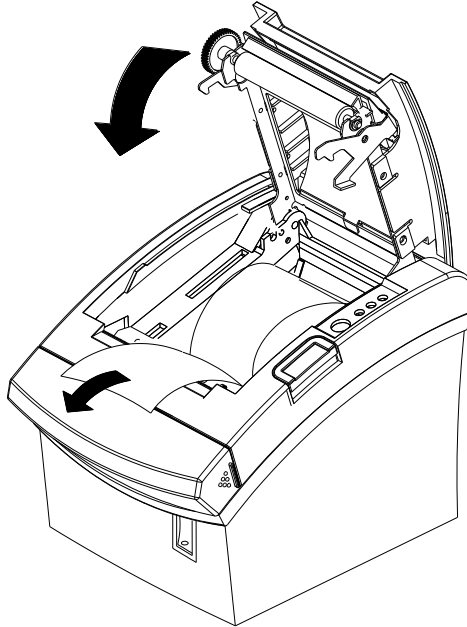
1-6-4 Insert the paper roll as shown.



1-6-5 Be sure to note the correct direction that the paper comes off the roll.



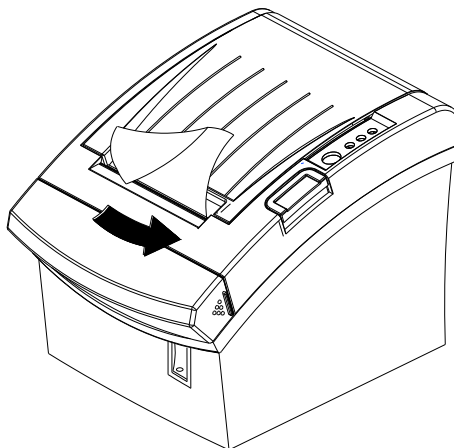
1-6-6 Pull out a small amount of paper, as shown. Then close the cover.



※ NOTE

When closing the cover, press the center of printer cover firmly to prevent paper miss-loading.

1-6-7 Tear off the paper as shown.



1-7 Recommended Papers

- TF50KS-E (Paper Thickness: 65 μ m): Nippon Paper Industries Co., Ltd.
- PD 160R (Paper Thickness: 75 μ m): New Oji Paper Mfg. Co., Ltd.
- P350 (Paper Thickness: 62 μ m): Kansaki Specialty Paper, Inc. (USA)

※ CAUTIONS

Use of papers other than those recommended above may damage TPH or degrade the printing quality and our company is not responsible for the damage caused by non-recommended papers. If you have to use other products, we recommend that you use papers with a similar level of quality to the recommended ones.

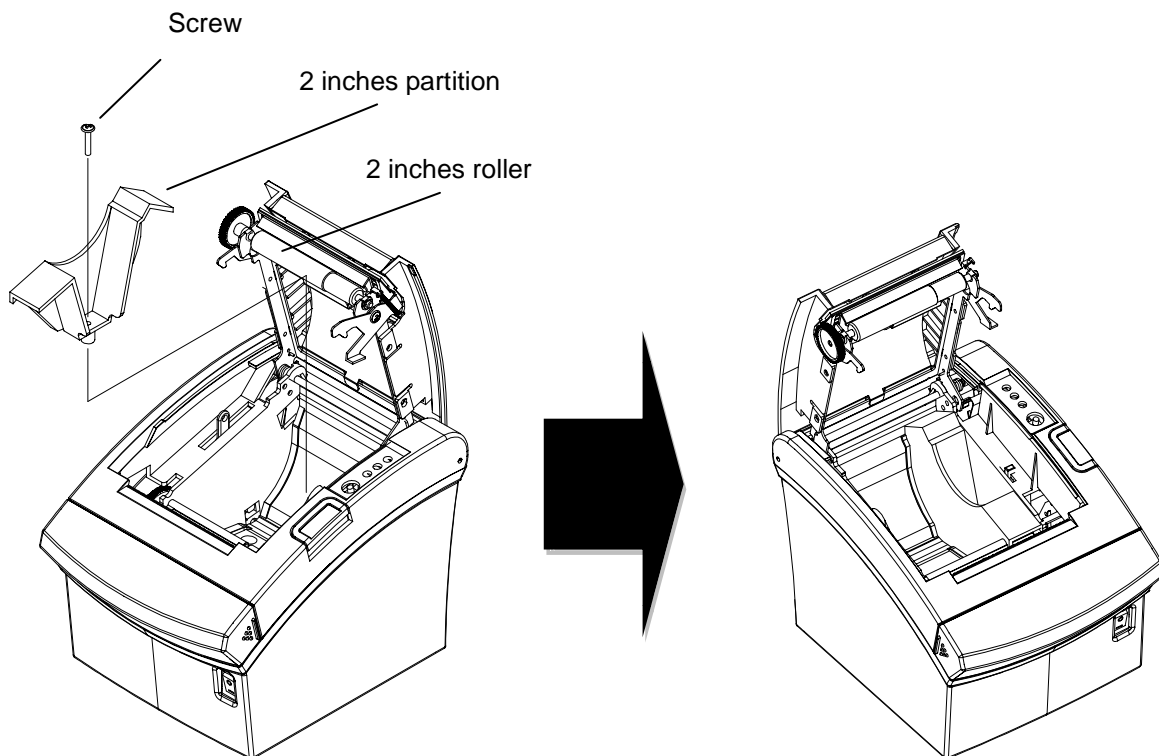
1-8 Structure of 2 inches specification

※ NOTE

This setting can be changed from VMSM Utility.

※ CAUTIONS

The changes for 2 inches specification should be applied to the following components as well.

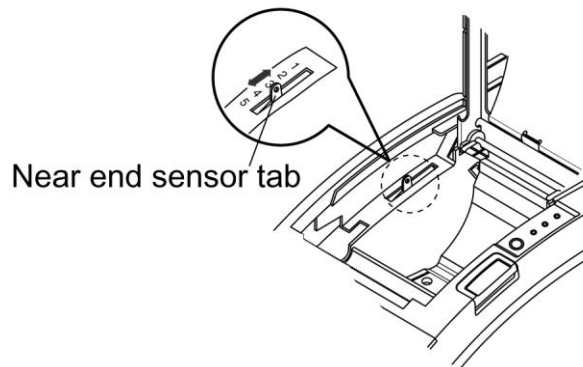


1-9 Adjustments and Settings

The SRP-350/352plusII is set up at the factory to be appropriate for almost all users. It does, however, offer some settings for users with special requirements.

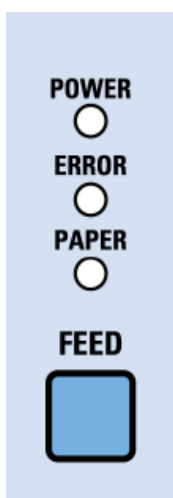
It has DIP switches that allow you to change communication settings, such as handshaking and parity check, as well as print density.

The SRP-350/352plusII also has a near-end sensor for the paper. This can give you a warning when the paper is almost out. If you find that there is not enough paper remaining on the roll when the near-end sensor is triggered, you can change the near-end sensor setting. Rotate the near end sensor tab at front or rear position. (See the below figure)



1-10 Using the Printer

Control Panel



POWER

The POWER light is on whenever the printer is on.

ERROR

This indicates an error.

PAPER

This light indicates the near end of the paper roll. Install a new paper roll and the printer Will continue printing. When the light blinks, it indicates the self-test printing standby state or macro execution Standby state when the macro execution command is used.

FEED

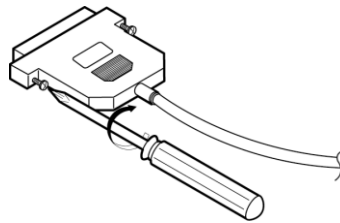
Press the FEED button once to advance paper one line. You can also hold down the FEED button to feed paper continuously.

1-11 Connecting the computer

You need an appropriate interface cable.

1-11-1 Plug the cable connector securely into the printer's interface connector.

1-11-2 Tighten the screws on both sides of the cable connector.



1-11-3 Attach the other end of the cable to the computer.

1-12 Connecting the Power Supply

※ CAUTIONS

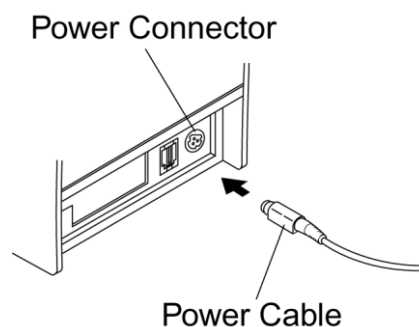
When connecting or disconnecting the power supply from the printer, make sure that the power supply is not plugged into an electrical outlet. Otherwise you may damage the power supply or the printer.

If the power supply's rated voltage and your outlet's voltage do not match, contact your dealer for assistance. Do not plug in the power cord. Otherwise, you may damage the power supply or the printer.

1-12-1 Make sure that the printer's power switch is turned off, and the power supply's power cord is unplugged from the electrical outlet.

1-12-2 Check the label on the power supply to make sure that the voltage required by the power supply matches that of your electrical outlet.

1-12-3 Plug in the power supply's cable as shown below. Notice that the flat side of the plug faces down.



※ NOTE

To remove the DC cable connector, make sure that the power supply's power cord is unplugged; then grasp the connector at the arrow and pull it straight out.

2. Self test

The self-test checks whether the printer has any problems. If the printer does not function properly, contact your dealer. The self-test checks the following;

2-1 Make sure paper roll has been installed properly.

2-2 Turn on the power while holding down the FEED button. The self-test begins.

2-3 The self-test prints the current printer status, which provides the control ROM version and the DIP switch setting.

2-4 After printing the current printer status, self-test printing will print the following, and pause (The PAPER LED light blinks).

**SELF-TEST PRINTING.
PLEASE PRESS THE FEED BUTTON.**

2-5 Press the FEED button to continue printing.

The printer prints a pattern using the built-in character set.

2-6 The self-test automatically ends and cuts the paper after printing the following.

***** COMPLETED *****

2-7 The printer is ready to receive data as soon as it completes the self-test.

3. Hexadecimal Dumping

This feature allows experienced users to see exactly what data is coming to the printer. This can be useful in finding software problems. When you turn on the hexadecimal dump function, the printer prints all commands and data in hexadecimal format along with a guide section to help you find specific commands.

To use the hexadecimal dump function, follow these steps.

3-1 After you make sure that the printer is off, open the cover.

3-2 Turn on the printer, while holding down the FEED button.

3-3 Close the cover, then the printer enters the hexadecimal dump mode.

3-4 Run any software program that sends data to the printer. The printer will print all the codes it receives in a two-column format. The first column contains the hexadecimal codes and the second column gives the ASCII characters that corresponds to the codes.

```
1B 21 00 1B 26 02 40 40 40 40    . ! . . & . @ @ @ @  
02 0D 1B 44 0A 14 1E 28 28 28    . . . D . . . . ( ( (  
00 01 0A 41 0D 42 0A 43 43 43    . . . A . B . C C C
```

A period (.) is printed for each code that has no ASCII equivalent. During the hex dump, all commands except DLE EOT and DLE ENQ are disabled.

3-5 When the printing finishes, turn off the printer.

3-6 Turn on the printer and then the hexadecimal mode is off.

4. Specification

Item		Details		
Printer	Printing Method	Thermal Line Printing		
	Dot Density	SRP-350plusII: 180 dpi (7dots/mm) SRP-352plusII: 203 dpi (8dots/mm)		
	Printing Width	3inches	72mm	
		2inches	48mm	
	Characters per line (Default)	SRP-350plusII : 42 (Font A) / 56 (Font B) / 56 (Font C) SRP-352plusII : 48 (Font A) / 64 (Font B) / 64 (Font C)		
	Printing Speed *1)	SRP-350plusII : 59.1 lines/sec, 250 mm/sec SRP-352plusII : 61.33 lines/sec, 230 mm/sec		
	Receive Buffer Size	4K Bytes		
	SMPS Input Voltage	100~240 VAC		
	Frequency	50/60 Hz		
	SMPS Output Voltage	24 VDC		
	Temperature	0 ~ 45 °C (Operating) -20 ~ 60 °C (Storage)		
	Humidity	10 ~ 80 % RH (Operating) 10 ~ 90 % RH (Storage) ; Except for paper		
	Auto Cutter	1,800,000 Cuts		
	Mechanism MCBF *2)	70,000,000 Lines		
Paper	Paper Type	Paper Roll		
	Roll Width	3inches	79.5±0.5mm	
		2inches	57.5±0.5mm	
	Roll Diameter	Max 83mm		
	Paper Thickness	0.062~0.075mm		
Paper Tube	Inner: Ø12mm (0.47") Outer: Ø18mm (0.71")			

※ NOTE

- *1) Printing speed may be slower depending on the data transmission speed and the combination of control commands.
- *2) The above values are calculated under printing level 2 with recommended paper at normal temperature. The values may vary with environment temperature, printing level, etc.
- *3) The switch is the disconnecting device. Turn off switch from any hazard.

5. Appendix

5-1 Cleaning Printer

Paper dust inside the printer may lower the print quality. In this case clean the printer as follows.

5-1-1 Open the printer cover and remove the paper if exists.

5-1-2 Clean the print head with a cotton swab moistened with alcohol solvent.

5-1-3 Clean the paper sensor and paper roller with a cotton swab and a dry cloth.

5-1-4 Insert a paper roll and close the printer cover.

The remained amount of paper detected by paper near end sensor varies with the diameter of the paper core.

To adjust the remained amount, contact your dealer.

5-2 Using Wall Mount

Please disable the near end paper function by making dip switch 2-7 on when you use the printer in wall mount position where the near end paper function will not work well.