



RP-3180 MINI Thermal Printer USER'S MANUAL

TVS Electronics Limited

NOTICE



You must use the supplied adapter only. It is dangerous to use other adapters.





Make sure the printer power is off before plug or unplug the cable.





Please don't place the printer in ... d humidity or dusty space, excessived d. humidity and dust may damage it.

 \bigcirc

Do not putfoods or drinks on the printer, in case that splash into the printer.



\bigcirc

The print head has a high temperature after work. Please don't touch the print head or touch the motor shell in case scalded.



INTRODUCTION

The RP-3180 Thermal Printer is 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: 180mm per second max.
- 2. Low noise thermal printing.
- 3. RS-232, Parallel, USB interface Selectable.
- 4. The databuffer allows the unit to receive print data even during printing.
- 5. Peripheral units drive circuitenables control of external devices such as cash drawer.
- 6. Bar code printing is possible by using a bar code command.
- 7. Support auto Store Logo or Hello Logo printing.
- 8. Enable to change some functions by DIP Switch.

Please be sure to read the instruction in this manual carefully before using your new RP-3180.

WARNING

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".

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

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All specifications are subjected to change without notice.

Chapter 1. Setting up the Printer

1-1. Unpacking

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









Cable





AC Adapter

Power cord

1-2. Installing the printer

- Avoid locations in direct sunlightor subject to excessive heat.
- Avoid using or storing the printer in places subject to excessive moisture.
- Do not use or store the printer in a dusty or dirty area. Avoid places subject to intense vibration or shock.
- Choose a stable and flat place for proper use of the printer.
- Make sure that there is enough space around the printer so that it can be used easily.

1-3. Using the Printer

BUTTON

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

Panel lights

• POWER

The POWER light(green) is on whenever the printer is on.

• ON LINE

This light(green) is on when the printer is on line.



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Chapter 2. Connecting the cables

2-1. Connecting the AC Cable



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 pullit straight out.

2-2. Connecting the AC adapter to the printer

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:



Power Connector Cable

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

2-3. Connecting Interface Cable and Drawer Cable to the printer





Drawer kick-out Cable

Interface Connector Cable

Connect the Host Computer (POS/ECR) to the printer using an interface cable that matches the specifications of the printer and the Host computer (POS/ECR). Be sure to use a drawer that matches the printer's specification.

- 1). Turn off both the printer and the Host computer (POS/ECR).
- 2). Plug the interface cable connector into the printer's interface connector, then tighten the screws on both sides of the connector. In case of the parallel interface, squeeze the wire dips on the printer together until they lock in place on both sides of the connector.
- 3). Plug the drawer cable into the drawer kick-out connector on the back of the printer next to the interface connector. Do not connect a telephone line to the drawer kick-out connector; otherwise the printer and the telephone line may be damaged.
- 4). Turn on the Printer and Host computer (POS/ECR).

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.

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Chapter 3. Installing the roll paper

3-1. Installing or Replacing the Paper Roll

- 1. Make sure that the printer is not receiving data; otherwise, data may be lost.
- 2. Open the paper roll cover by pressing the cover-open button.
- 3. Remove the used paper roll core if there is one.
- 4. Insert the paper roll as shown.
- 5. Be sure to note the correct direction that the paper comes off the roll.
- 6. Pull out a small amount of paper, as shown. Then close the cover.









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.

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

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

3-2. Removing Jammed Paper

- 1. Turn the printer off and press the cover open button.
- 2. Remove jammed paper, reinstall the roll, and close the cover.
- 3. If paper is caught in the cutter and you cannot open the printer cover, open the cutter cover as shown in A.
- 4. Open the cutter cover.
- 5. Turn the knob (as shown in B). Until the cutter blade to the normal position.



- 6. Close the cutter cover.
- 7. Open the printer cover and remove the jammed paper.

NOTE:Do not touch the print head because it can be very hot after printing.

3-3. Cleaning the Print Head

Turn off the printer, open the paperroll cover, and clean the thermal elements of the print head with a cotton swab moistened with an alcohol solvent (ethanol, methanol, or IPA).

Recommends cleaning the thermal head periodically (generally every 3 months) to maintain receipt print quality.

NOTE:After printing, the print head can be very hot. Be careful not to touch it and to let it cool before you clean it. Do not damage the print head by touching it with your fingers or any hard object.

Chapter 4. The self test

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

- 1. Make sure paper roll has been installed properly.
- 2. Turn on the power while holding down the FEED button. The self-test begins.
- 3. The printer is ready to receive data when it completes the self-test.

Chapter 5. 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:

- 1. Make sure that there is a roll paper in the printer.
- 2. After you make sure that the printer is off.
- 3. Turn on the power while holding down the online button, the printer enters the hexadecimal dump mode.
- 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 correspond to the codes.

Chapter 6. DIP Switch Functions

There is a DIP Switch on the bottom of printer. It is easy to change some functions of the printer through setting DIP pins to [On] or [Off].

The default setting for all DIP pins are [ON] Position.

Note: Changes in DIP switch settings are recognized only when the printer power is turned on or when the printer is reset by using the interface. If the DIP switch setting is changed after the printer power is turned on, the change does not effect until the printer is turned on again or is reset.



DIP No	ON/OFF	Function
	On & On	96000bps
DIP1 & DIP2	On & Off	19200bps
Baud Rate select	Off & On	38400bps
	Off & Off	115200bps
DIP3	On	Beeper enable
Beeper enable / disable	Off	Beeper disable
DIP4	On	Print Density Light
Print Density	Off	Print Density Dark
DIP5	On	Auto-cutter enable
Auto-cutter enable / disable	Off	Auto-cutter disable
DIP6	On	Font: 12x24
Default font size select	Off	Font: 9x17
DIP7		Reserved
DIP8		Reserved

Chapter 7.Interface

RS-232C Cable Connection



Interface Connector Serial Interface (RS-232)

Pin No.	Signal name	Direction	Function
1	FG	-	Frame Ground
2	TxD	Output	TransmitData
3	RxD	Input	Receive Data
4	RTS	Output	Ready To Send
5	CTS	Input	Clear To Send
6	DSR	Input	Date Set Ready
7	SG	-	Signal Ground
20	DTR	Output	Data Terminal Ready

Drawer 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	Output	
6	Signal ground	-	

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Parallel Interface (IEEE-1284)

Pin No.	Source	Compatibility Mode	Nibble Mode	Byte Mode
1	Host	nStrobe	HostClk	HostClk
2	Host/Printer	Data0(LSB)	-	Data0(LSB)
3	Host/Printer	Data1	-	Data1
4	Host/Printer	Data2	-	Data2
5	Host/Printer	Data3	-	Data3
6	Host/Printer	Data4	-	Data4
7	Host/Printer	Data5	-	Data5
8	Host/Printer	Data6	-	Data6
9	Host/Printer	Data7(MSB)	-	Data7(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	nlnit
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

Chapter 7. Specification

Printing method	Thermal line printing
Dot density	203 dpi×203 dpi (8×8 dots/mm)
Printing width	72 mm {2.83"}, 576 dot positions
Characters per line	48 (default) or 72
Character size	1.25 × 3.00 mm
Number of characters	Alphanumeric characters: 95
Print speed	Approx. 150 mm/s {5.9"/s} max.; 47.21ps, max. (3.18 mm {1/8"} feed); 35.51ps, max. (4.23 mm {1/6"} feed, at 24 V, 28°C {82°F}, density level 1). Speed is adjusted automatically depending on the voltage applied andhead temperature.
Paper feed speed	Approx. 180 mm/s
	continuous paper feed
Line spacing (default)	4.23 mm {1/6"}
Character structure	12 x 24 or 9 x 17
Paper roll (single-ply)	Size: Width: 79.5 mm \pm 0.5 mm $\{3.13" \pm 0.02"\}$ Maximum outside diameter: 83 mm $\{3.26"\}$ Paper roll spool diameter: Inside: 12 mm $\{0.47"\}$; Outside: 18 mm $\{0.71"\}$
Interface (compatible)	RS-232C/Bi-directional parallel / USB (OPTION)
Receive buffer	28KB
Power supply	+ 24 VDC ± 10%
Life	Mechanism: 15,000,000 lines Thermal head: 100 million pulses, 100 km Autocutter: 1,500,000 cuts
MTBF	360,000 hours
MCBF	52,000,000 lines
Temperature	Operating: 5°C ~ 45°C {41°F ~ 113°F } Storage: -10 °C ~ 50°C {14°F ~ 122°F }, except for paper
Humidity	Operating: 10 to 90% RH Storage: 10 to 90% RH, except for paper
Overall dimensions	145(W)×192(D)×142(H)mm
Weight (mass)	Approximately:2kg

Chapter 8.PRINT CONTROL COMMAND

8-1 Command List

No.	Command	Description	Hexadecimal Code	Page
1	LF	Printing and paperfeed	<0A>	13
2	CR	Back to printing	<0D>	13
3	ESC !	Select print mode	<1B><21> <n></n>	13
4	ESC *	Specifying the bit image mode	<1B><2A> <m><n1><n2>d1dk</n2></n1></m>	14
5	ESC 2	Specifying 1/6-inch linefeed rate	<1B><32>	15
6	ESC 3	Setting line feed rate of minimum pitch	<1B><33> <n></n>	15
7	ESC 9	Generating the specified pulses	<1B><39> <m><n1><n2></n2></n1></m>	16
8	ESC @	Initializing the printer	<1B><40>	16
9	ESC A	Set line spacing	<1B><41> <n></n>	16
10	ESC D	Select character Double-height mode	<1B><44>	16
11	ESC H	Select character Double-height mode	<1B><48> <n></n>	17
12	ESC I	Select character Double-height mode	<1B><49>	17
13	ESC J	Printing and feedingpaper in minimum pitch	<1B><4A> <n></n>	17
14	ESC L	Selecting page mode	<1B><4C>	17
15	ESC V	Printing bit image	<1B><56> <n1><n2>d1dk</n2></n1>	18
16	FRC W		<1B><57> <xl><xh><yl><yh></yh></yl></xh></xl>	10
ID ESC W	Denning the printarea in pagemode	< dxL > < dxH > < dyL > < dyH >	10	
17	ESC X	Select character Double-widthmode	<1B><58> <n></n>	19
18	ESC d	Printing and feedingthe paper by "n" lines	<1B><64> <n></n>	20
19	ESC I	Full cut	<1B><69>	20
20	ESC j	Printing and feedingpaper in minimum pitch	<1B><6A> <n></n>	20
21	ESC m	Partial cut	<1B><6D>	21
22	ESC p	Generating the specified pulses	<1B><70> <m><n1><n2></n2></n1></m>	21
23	ESC M	Select character fonts	<1B><4D> <n></n>	21
24	GS !	Select character size	<1D><21> <n></n>	22
25	GS *	Defining the download bit image	<1D><2A> <n1><n2>d1dk</n2></n1>	23
26	GS /	Printing the downloaded bit image	<1D><2F> <m></m>	23
27	GS V	Cutting the paper	(1)<1D><56> <m> (2)<1D><56><m><n></n></m></m>	24
28	GS v 0	Printing of raster bit image	<pre><1D><76><30><m><xl><xh> <yl><yh>d1dk</yh></yl></xh></xl></m></pre>	25
29	GS h	Specifying the height of the bar code	<1D><68> <n></n>	26
30	GS k	Printing the barcode	(1)<1D><6B> <m>d1dk<nul> (2)<1D><6B><m><n>d1dk</n></m></nul></m>	26
31	FSp	Print NV bitimage	<1C><70> <n></n>	27
32	FS q	Define NV bit image	<1C><71> <n></n>	28
	No. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32	No. Command 1 LF 2 CR 3 ESC! 4 ESC 4 5 ESC 2 6 ESC 3 7 ESC 9 8 ESC 4 9 ESC 4 10 ESC 9 8 ESC 0 11 ESC 1 12 ESC 1 13 ESC 1 15 ESC 4 17 ESC 1 18 ESC 1 19 ESC 1 20 ESC 1 21 ESC M 22 ESC p 23 ESC M 24 GS ! 25 GS * 26 GS / 27 GS V 28 GS v 0 29 GS h 30 GS k 31 FS p 32 FS q	No.CommandDescription1LFPrinting and paperfeed2CRBack to printing3ESC !Select print mode4ESC *Specifying the bit image mode5ESC 2Specifying 1/6-inch line feed rate6ESC 3Setting line feed rate of minimum pitch7ESC 9Generating the specified pulses8ESC @Initializing the printer9ESC ASet line spacing10ESC DSelect character Double-height mode11ESC ISelect character Double-height mode12ESC ISelect character Double-height mode13ESC JPrinting and feeding paper in minimum pitch14ESC LSelect character Double-height mode15ESC VPrinting and feeding the paper by "n" lines16ESC WDefining the print area in page mode17ESC ASelect character Double-width mode18ESC GPrinting and feeding paper in minimum pitch20ESC IFull cut21ESC MPerinting and feeding paper in minimum pitch21ESC MSelect character fouts22ESC MSelect character fouts23ESC MSelect character fouts24GS ISelect character size25GS *Defining the downloaded bit image26GS /Printing and feeding paper27GS VCutting the paper28GS v 0Printin	No.CommandDescriptionHexadecimal Code1LFPrinting and paperfeed<0A>2CRBack to printing<0D>3ESC 1Select print mode<1B><21> <n>4ESC *Specifying the bit image mode<1B><22><m><n><n><n><n><n><1B><23>5ESC 2Specifying the bit image mode<1B><32>6ESC 3Setting line feedrate of minimum pitch<1B><33><n>7ESC 9Generating the specified pulses<1B><39><m><n><n1><n><n< td="">8ESC @Initializing the printer<1B><44><n>9ESC ASet line spacing<1B><44><n>10ESC DSelect character Double-heightmode<1B><44><n>11ESC HSelect character Double-heightmode<1B><44><n>12ESC JSelect character Double-heightmode<1B><44><n>13ESC JSelect character Double-heightmode<1B><44><n>14ESC LSelect character Double-heightmode<1B><44><n>15ESC VPrinting and feeding paper in minimum pitch<1B><65><n1><n2><dldk< td="">16ESC MDefining the print area in page mode<1B><66><n>17ESC ASelet character Double-widthmode<1B><66><n>18ESC IFull cut<1B><66><n>19ESC IFull cut<1B><60>20ESC jPrinting and feeding paper in minimum pitch<1B><60>21ESC MSelect character fonts<1B><40><n>23ESC M<!--</td--></n></n></n></n></dldk<></n2></n1></n></n></n></n></n></n></n></n<></n></n1></n></m></n></n></n></n></n></n></m></n>

8-2 Descriptions of Each Item

[Name]	The name of the command.
[Format]	The code sequence.
[Range]	Gives the allowable ranges for the arguments.
[Description]	Describes the command's function.
[Details]	Describes the usage of the command in detail.
[Default]	Gives the default values, if any, for the command parameters
[Example]	Gives examples of how to use the command.

Hex indicates the hexadecimal equivalents. Decimal indicates the decimal equivalents.

8-3 Control Commands

LF

[Name]	Print and line feed	
[Format]	ASCII LF	
	Hex 0A	
	Decimal 10	
[Description]	Prints the data in the print buffer and feeds one line based on the current line spacing.	
[Details] [See Also]	This command sets the print position to the beginning of the line. ESC 2, ESC3	

CR

[Name]	Print and carriage return		
[Format]	ASCII CR		
	Hex OD		
	Decimal 13		
[Description]	When automatic linefeed is enabled, this command functions the same as LF:		
	When automatic linefeed is disabled, this command is ignored.		
[Details]	 Sets the print starting position to the beginning of the line. The automatic line feed is ignored with a serial interface model. 		
[See Also]	LF		

ESC ! N

[Name]	Select pri	Select print mode(s)		
[Format]	ASCII	ESC	1	n
	Hex	1B	21	n
	Decimal	27	33	n
[Range]	$0 \leqslant n \leqslant 255$			

[Description]

Selects print mode(s) using n as follows:

Bit	Off/On	Hex	Decimal	Function
0				Default font
1	-	-	-	Undefined
2	-	-	-	Undefined
3	-	-	-	Undefined
	Off	00	0	Double-height mode not selected
4	On	10	16	Double-height mode selected
-	Off	00	0	Double-width mode not selected
5	On	20	32	Double-width mode selected
6	-	-	-	Undefined
7	-	-	-	Undefined

[Details]

[Default]

[See Also]

 When both double-heightand 	double-width modes are selected,
quadruple size characters are	printed.

- The printer can underline all characters.
- When some characters in a line are double or more height, all the characters on the line are aligned at the baseline.
- GS ! can also select character size. However, the setting of the last received command is effective.
- Emphasized mode is effective for alphanumeric and Kanji. All print modes except emphasized mode is effective only for alphanumeric. N = 0GS !

(1)ESC * m n1 n2 d1...dk

[Name]	Select bit-ir	nage m	ode					
[Format]	ASCII	ESC	*	m	n1	n2	d1dk	
	Hex	1B	2A	m	n1	n2	d1dk	
	Decimal	27	42	m	n1	n2	d1dk	
[Range]	m = 0, 1, 32	, 33 , 0	≤ n1	≤ 25	5,0≤	≦ n2 ≤	$3, 0 \leqslant d \leqslant 2$	255
[Description]	Selects a bi	t-image	emod	de usi	ing mf	or the	number of de	ots specified
	by (n1 + n2 print a dot. m are as fol	x 256). d indica lows:	Set a ates t	a bitto hebit	o 1 top image	orint a e data	dot, or set al .The modes	oit to 0to not selectableby

		Vertica	al Direction	Horizontal Direction		
m	Mode	Number	Dot Density	Dot Density	Number of Data	
		of Dots	(dpi)	(dpi)	(K)	
0	8-dot single-density	8	60	90	n1 + n2 x 256	
1	8-dot double-density	8	60	180	n1 + n2 x 2 56	
32	24-dot single-density	24	180	90	(n1 + n2x 256) x3	
33	24-dot double-density	24	180	180	(n1 + n2x 256) x3	

[dpi: dots per 25.4 mm {1"}]

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[Details]

- If the values of m is out of the specified range, n1 and data following are processed as normal data.
- The n1 and n2 indicate the number of dots of the bit image in the horizontal direction.
- The number of dots is calculated by $n1 + n2 \times 256$.
- If the bit-image data input exceeds the number of dots to be printed on a line, the excess data is ignored.
- d indicates the bit-image data. Set a corresponding bit to 1 to print a dot or to 0 to not print a dot.
- After printing abit image, the printer returns to normal data processing mode.
- This command is not affected by print modes (emphasized, double-strike, underline, character size or white/black reverse printing), except upside-down printing mode.

ESC 2

[Name]	Select defau	ılt line sp	pacing			
[Format]	ASCII	ESC	2			
	Hex	1B	32			
	Decimal	27	50			
[Description]	Selects app	roximate	ely 4.23 n	nm {1/6"}	spacing.	
[Details]	The line spa	cingcar	n be set ir	ndepende	ently in stan	ndard mode and in
	page mode.					
[See Also]	ESC 3					

ESC 3 n

[Name]	Set line spa	cing					
[Format]	ASCII	ESC	3	n			
	Hex	1B	33	n			
	Decimal	27	51	n			
[Range]	$0 \le n \le 255$						
[Description] [Details]	Sets the line The line spa page mode. In standard The maximu	spacing cing car mode, th m pape	g to [n n be se ne verf r feed	x vertica et indepe tical mot amount i	Il orhorizo Indently in Ionunit (y) Is 1016 mr	ntal motic standard) isused. m {40"}.Ev	n unit]. mode and in ven if apaper
reed amount of more than 1016mm {40"}is set, the printer feeds the paper 1016mm {40"}.					aper only		
[Default]	Approx 4.23	mm {1/	6"}.				
[See Also]	ESC 2						

ESC 9 m n1 n2

[Name]	Generating	the spe	ecified	pulse	es	
[Format]	ASCII	ESC	9	m	n1	n2
	Hex	1B	39	m	n1	n2
	Decimal	27	57	m	n1	n2
[Range]	m = 0, 0 ≤	$n1 \leq 2$	55,0 \$	≤ n2 ≤	≤ 255	
[Description]	The signals	s specif ed by m	iedby	n1 a	nd n2	are outputto the connector

ESC @

[Name]	Initialize pr	inter	
[Format]	ASCII	ESC	@
	Hex	1B	40
	Decimal	27	64
[Description]	Clears the mode that	datain th wasin ef	ne printbuffer and resets the printer mode to the fect when the power was turned on.
[Details]	 The data ir The macro 	the rece definitio	vive bufferis not cleared. nis not cleared.
	• The NV bit	image da	ata is not cleared.
	 The data o 	fthe NV i	usermemorv is not cleared.

ESC A n

[Name]	Set line sn	acing			
[Format]	ASCII	ESC	А	n	
[]	Hex	1B	41	n	
	Decimal	27	65	n	
[Range]	$0 \le n \le 25$	55			
[Description]	Sets the lir	nespacir	ng to [nx v	ertical orhorizontal motion unit].
[Details]	• The line sp	acingca	in be s	setin	dependently in standard mode and in
	page mode	Ð.			
	• In standard	d mode,	the ve	rtica	l motionunit (y) isused.
	 The maxim 	ium pap	erfeed	d am	ount is1016 mm {40"}.Even if a
	paper feec	l amount	t of mo	ore th	nan1016 mm {40"}isset, the printer
	feeds the p	paperon	ly 101	6 mr	n {40"}.
[Default]	Approx 4.2	23mm {1	/6"}.		
[See Also]	ESC 2				

ESC D

[Name]	Select cha	racter Do	ouble-he	ightmode		
[Format]	ASCII	ESC	D			
	Hex	1B	44			
	Decimal	27	68			
[Description]	Select cha	racter Do	ouble-he	ightmode.		

ESC H n

[Name]	Select character Double-heightmode					
[Format]	ASCII	ESC	Н	n		
	Hex	1B	48	n		
	Decimal	27	72	n		
[Range]	$1 \leq n \leq 8$					
[Description]	Select character Double-heightmode.					

ESC I

[Name]	Select chara	cter Do	uble-heigl	htmode	
[Format]	ASCII	ESC	1		
	Hex	1B	49		
	Decimal	27	73		
[Description]	Select chara	cter Do	uble-heigl	htmode.	

ESC J n

[Name] [Format]	Print and feed paper ASCII ESC Jn Hex 1B 4An Decimal 27 74 n
[Range]	0 = n = 255
[Description]	Prints the data in the print buffer and feed the paper [nx vertical or horizontal motionunit].
[Details]	 After printing is completed, this command sets the print starting position to the beginning of the line. The paper feed amount set by this command does not affect the values set by ESC 2 or ESC 3. In standard mode, the printer uses the vertical motion unit (y). The maximum line spacing is 1016mm {40"}. When the setting

value exceeds the maximum, it is converted to the maximum automatically.

ESC L

[Name] [Format]	Select pag ASCII Hex Decimal	e mode ESC 1B 27	L 4C 76					
[Description] [Details]	 Switches from standard mode to page mode. This command is enabled only when processed at the beginning of a line in standard mode. This command has no effect in page mode. The following command is not available in page mode, Print raster bit image: GS v 0 The printer returns to standard mode when power is turned on, the 							

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ESC V n1 n2 d1...dk

[Name] [Format]	Printing bit image ASCII ESC V n1 n2 d1dk Hex 1B 56 n1 n2 d1dk Decimal 27 86 n1 n2 d1dk									
[Range] [Description]	$0 \le n1, n2 \le 65535$ n1, n2: number of dot lines in the vertical direction. n1 represents the least significant byte and n2 represents the most significant byte.									
[Details]	 Enter the image data following n1 and n2. The amount of image data is as follows: Amount of image data = (n2 x 256+n1) x 72 bytes The data following n1 and n2 is printed outentirely as image data. Enter the data from the leftmost of the top dot line to the bottom dot line. If you specify bit image without entering CR or LF after inputting characters for a rangenot exceeding one line, the characters of that line and the bit image are overlapped when printed out. At this time, all modifications to characters are valid. Note that the characters are not normally printed out when overlapped unless a value more than the character height is specified by n2 x n1. You can not overlap bit images with stamps or ruler lines. If you specify bit image is complete, the print-out of stamps or ruler line restarts. 									
ESC W xLxH yL	yHdxL dxH dyLdyH									
[Name] [Format]	Defining the print area in page mode ASC II ESC W xL xH yL yH dxL dxH dyL dyH									

[Name]	Defining the printarea in pagemode							
[Format]	ASCII ESC W xL xH yL yH dxL dxH dyL dyH							
	Hex 1B 57 xL xH yL yH dxL dxH dyL dyH							
	Decimal 27 87 xL xH yL yH dxL dxH dyL dyH							
[Range]	0 = xL, xH, yL, yH, dxL, dxH, dyL, dyH = 255							
	except for $dxL = dxH = 0$ or $dyL = dyH = 0$							
[Description]	Defines the location and size of the print area.							
	• Horizontal start point = $[(xL + xH \times 256)x$ basic calculation pitch]							
	inches							
	 Vertical start point = [(yL + yH x256) x basic calculation pitch] 							
	inches							
	 Horizontal length = [(dxL + dxHx 256) x basic calculation pitch] 							
	inches							
	 Vertical length = [(dyL + dyH x 56) x basic calculation pitch] 							
	inches							
[Details]	• When standard mode is selected, this command only executes the							
	internal flagging of the printer without affecting the printing in							
	standard mode.							
	 If the horizontal start point or vertical start point is out of the 							
	printable area, this command is canceled and the next data is							
	handled as normaldata.							

- If the horizontal length or vertical length is 0, this command is canceled and the next data is handled as normal data.
- If the "horizontal start point + horizontal length" is greater than the horizontal printable area, the "horizontal printable areahorizontal start point" is taken as the horizontal length.
- If the "vertical start point + vertical length" is greater than the vertical printable area, the "ertical printable area vertical start point" is taken as the vertical length.
- Fractions resulting from calculations are corrected with the minimum pitch of the mechanism, and the remainder are omitted.
- The horizontal start point and horizontal length are calculated with the basic calculation pitch (x). The vertical start point and vertical length are calculated with the basic calculation pitch (y).
- When the horizontal starting position , vertical starting position, printing area width, and printing area height are defined as X, Y, Dx, and Dy respectively, the printing area is set as shown in the figure below.



• This printable areafor this printer is approximately 72.2 mm $\{512/180^{"}\}$ in the horizontal direction and approximately 117.3 mm $\{1662/360^{"}\}$ in the vertical direction. XL = xH = yL = yH = 0 dxL = 0, dxH = 2, dyL = 126, dyH = 6

[Default]

ESC X n

[Name]	Select character Double-width mode						
[Format]	ASCII	ESC	Х	n			
	Hex	1B	58	n			
	Decimal	27	88	n			
[Range]	$1 \leq n \leq 8$						
[Description]	Select character Double-width mode.						

ESC d n

[Name]	Print and feed n lines							
[Format]	ASCII	ESC	d	n				
	Hex	1B	64	n				
	Decimal	27	100	n				
[Range]	$0 \le n \le 25$	5						
[Description]	Prints the d	ata in th	ne print	buffer	and feedsn lines.			
[Details]	 This command sets the print starting position to the beginning o the line. 							
	 This command does not affect the line spacing set by ESC 2 or ESC 3. The maximum paperfeed amount is 1016 mm {40"}. If the paper feed amount (nx line spacing) of more than 1016 mm {40"} is specified, the printerfeeds the paper only 1016 mm {40"}. 							
[See Also]	ESC 2, ESC	23						

ESC I

[Name]	Full cut					
[Format]	ASCII	ESC	i			
	Hex	1B	69			
	Decimal	27	105			
[Description]	Cut the pap	berfully				
[Details]	During cutt This comm	ing, pr and isv	nting and valid only v	paper feec when an au	dingis stopp Ito-cutter is	oed. connected.

ESC j n

[Name] [Format]	Print and feed paper ASCII ESC j n Hex 1B 6A n Decimal 27 106 n
[Range]	$0 \le n \le 255$
[Description]	Prints the data in the print buffer and feed the paper [nx vertical or horizontal motionunit].
[Details]	 After printing is completed, this command sets the print starting position to the beginning of the line. The paper feed amount set by this command does not affect the values set by ESC 2 or ESC 3. In standard mode, the printer uses the vertical motion unit (y). The maximum line spacing is 1016mm {40"}. When the setting value exceeds the maximum, it is converted to the maximum automatically.

ESC m

[Name]	Partial cut					
[Format]	ASCII	ESC	m			
	Hex 1B 6D					
	Decimal	27	109			
[Description]	Cut the pa	aperpar	tially.			
[Details]	 During cu 	tting, pr	intinga	nd paper feedingis stopped.		

This command isvalid only when an auto-cutter is connected.

ESC p m n1 n2

[Name]	Generating	the spe	ecified	pulse	es	
[Format]	ASCII	ESC	р	m	n1	n2
	Hex	1B	70	m	n1	n2
	Decimal	27	112	m	n1	n2
[Range]	$m=0,0\leqslant$	$n1 \leq 23$	55,0 \$	≤ n2 ≤	≤ 255	
[Description]	The signals to the conn	s specif ectorpi	iedby n spe	"n1" cified	and" by"m	n2" are output ".

ESC M n

[Name] [Format] [Range] [Description]	Select ch ASCII Hex Decimal n = 0,1,4 Selects c	aracter f ESC 1B 27 8,49 haracter	fonts M 4D 77 fonts.	n n n		
	N F	unction				

	Gilotion
0,48	Character font A (12 x 24) selected.
1,49	Character font B (9 x 17) selected.

[Details]

The *ESC* ! command can also select the character fonts. However, the setting of the last received command is effective.

GS ! N

[Name]	Select character size						
[Format]	ASCII GS ! n						
	Hex 1D 21 n						
	Decimal 29 33 n						
[Range]	$0 \le n \le 255$						
	(1 \leq vertical number of times \leq 8, 1 \leq horizontal number of						
	times ≤ 8)						
[Description]	Selects the character height using bits0 to 2 and selects the						
	character width using bits 4 to 7, as follows:						



Table 1 Character Width Selection

Table 2 Character Height Selection

Hex	Decimal	Width
00	0	1 x (Standard)
10	16	2 x (Double width)
20	32	3 x
30	48	4 x
40	64	5 x
50	80	6 x
60	96	7 x
70	112	8 x

n = 0

ESC !

Hex Decimal Width 00 1 x (Standard) 0 01 2 x (Double height) 1 02 2 Зx 03 4 x 3 04 4 5 x 05 5 6 x 06 6 7 x 07 7 8 x

[Details]

• If n isoutside of the defined range, this command is ignored.

- In standard mode, the vertical direction is the paperfeed direction, and the horizontal direction is perpendicular to the paperfeed direction. However, when character orientation changes in 90. clockwise-rotation mode, the relationship between vertical and horizontal directions are reversed.
- In page mode, vertical and horizontal directions are based on the character orientation.
- When characters are enlarged with different sizes on one line, all the characters on the line is aligned at the baseline.
- The ESC ! command can also turn double-width and double-height modes on or off. However, the setting of the last received command is effective.

```
[Default]
[See Also]
```

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GS * n1 n2 d1...d(n1x n2 x 8)

[Name]	Define dow	nloaded l	bitimag	е				
[Format]	ASCII	GS *	n1	n2	d1d(n1x n2 x8)			
	Hex	1D 2A	n1	n2	d1d(n1 x n2 x 8)			
	Decimal	29 42	n1	n2	d1d(n1x n2 x8)			
[Range]	$1 \leq n1 \leq 2$	55, 1 ≤ n	2≤ 48,	n1 x n2	$2 \leqslant 1536$, $0 \leqslant {\sf d} \leqslant 255$			
[Description]	Defines a d	lownloade	dbit im	lage us	sing the number of dots			
	specified b	y n1 and r	12					
	 n1 specifies 	s the num	ber of d	lots in t	he horizontal direction.			
	 n2 specifies 	s the num	ber of d	lots in t	he vertical direction.			
[Details]	• The numbe	r of dots i	n the ho	rizonta	l direction is n1 x 8, in the			
	vertical direction it is n2 x8.							
	• If n1 xn2 is out of the specified range, this command is disabled.							
	• The d indicates bit-image data. Data (d) specifies a bit printed to 1							
	and not printed to 0.							
	 The downloaded bitimage definition is cleared when: 							
	1. ESC @is executed.							
	2. Printer is reset or the power is turned off.							
	 The following 	ng figures	hows th	he rela	tionshipbetween the			
	downloaded bit image and the printed data.							



[See Also]

GS /

GS / m

[Name] [Format]	Print dow	Print downloaded bit image						
[Hex	1D	2F	m				
	Decimal	29	47	m				
[Range]	$0 \le m \le 3$	3, 48 ≤	≦m≤	≦ 51				
[Description]	0 ≤ m ≤ 3, 48 ≤ m ≤ 51 Prints a downloadedbit image using the mode specified by m. Modes that can be selected by "m" are shown below.							

m	Mode Name	Dot Density in	Dot Density in	
	mode Name	Vertical Direction	Horizontal Direction	
0,48	NORMAL MODE	203 DPI	203 DPI	
1,49	DOUBLE WIDTH MODE	203 DPI	101 DPI	
2,50	DOUBLE HEIGHT MODE	101 DPI	203 DPI	
3,51	QUADRUPLE SIZE MODE	101 DPI	101 DPI	

[Details]

• When data exist in the print buffer, this command is ignored.

- When a downloaded bit image has not been defined, this command is ignored.
- A portion of a downloaded bit image exceeding one line length is not printed.
- A downloaded character and a downloaded bit image cannot be defined simultaneously. **GS ***

[See Also]

(1) GSV m (2) GSV m n

[Name] [Format] [Range] [Description]	Select cut mode and cut paper (1) ASCII GS V m Hex 1D 56 m Decimal 29 86 m (2) ASCII GS V m n Hex 1D 56 m n Decimal 29 86 m n (1) m = 1, 49 (2) m = 66, $0 \le n \le 255$ Performs the specified paper cutting.					
	m Print mode					
	1, 49 Partial cut (onepoint left uncut)					
	Feeds paper (cuttingposition + [nx (vertical motion unit)]),					
	and cuts the paper partially (one point left uncut).					
[Details]	 For (1) and (1): This command is effective only processed at the beginning of a line. For (1): Only the partial cut is available; there is no full cut. For (2): When n = 0, the printerfeeds the paper to the cutting position and cuts it. When n ≠ 0, the printerfeeds the paper to (cutting position + [n x vertical motion unit]) and cuts it. The paper feed amount is calculated using the vertical motion unit (y). However, the value cannot be less than the minimum horizontal movement amount. 					

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GS v 0 m xL xHyL yH d1...dk

[Name]	Printing of	raster	bit im	nage						
[Format]	ASC II	GS	V	0	m	хL	хH	уL	yН	d1dk
	Hex	1D	76	30	m	хL	хΗ	уL	уH	d1dk
	Decimal	29	118	48	m	хL	хH	уL	уH	d1dk
[Range]	$0 \le m \le 3$, 48 ≤	$m\leqslant$	51,0	$\leqslant x$	L≤	255,	0 ≤	хH	≤ 255,
	$0 \leq yL \leq 2$	55, 0 =	≤ yH	≤8,	0≤	$d \leq$	255	,		
	k = (xL + xH)	x 256)	x (yl	_+yH	x25	6), ł	nowe	ever,	k≠	0
[Description]	Prints raster bitimages in mode "m".									

		Dot Density in	Dot Density in	
m	Mode Name	Vertical Direction	Horizontal Direction	
0,48	NORMAL MODE	203 DPI	203 DPI	
1,49	DOUBLE WIDTH MODE	203 DPI	101 DPI	
2,50	DOUBLE HEIGHT MODE	101 DPI	203 DPI	
3,51	QUADRUPLE SIZE MODE	101 DPI	101 DPI	

- xL, xH specify the number of data in horizontal direction of the bit image to (xL+xHx 256) bytes.
- yL, yH specify the number of data in vertical direction of the bit image to (yL+yHx 256) bytes.
- In STANDARD MODE, this command is valid onlywhen there is no print data in the print buffer.
- Any of the print modes (Character size, emphasis, double strike, inverting, underlining, back-to-white reversing, etc.) does not affect the raster bit image.
- If the print area specified by GS L and GS W is narrower than a minimum width, the print area for that line only is extended to the minimum width. The minimum width is one dot in NORMAL MODE (m=0, 48) and DOUBLE HEIGHTMODE (m=2,50), and 2 dots in DOUBLE WIDTH MODE (m=1,49) and QUADRUPLE SIZE MODE (m=3, 51).
- Any part of data that is out of the print area is only read and discarded in units of dot.
- The setting of ESC a (Aligning characters) are also valid for the raster bit image.
- If this command is executed during macro definition, the macro definition is suspended, and the processing of the command starts. The macro is left undefined.
- "d" denotes defined data. Dots to be printed are specified as "1" and those notto be printed as "0" . When $xL+xH \times 256=64$:

[Example]

[Details]



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GShn

[Name]	Define dov	wnload	ded bit	image	
[Format]	ASCII	GS	h	n	
	Hex	1D	68	n	
	Decimal	29	104	n	
[Range]	$1 \leq n \leq 2$	55			
[Description]	Selects th	e heig	ht of the	e barcode.	
	n specifies	sthen	umber	of dots in the vertical direction.	
[Details]	N = 162				
[See Also]	GS k				

(1) GS k m d1...dk NUL (2) GS k m n d1...dn

[Name]	Print the bar	code				
[Format]	(1) ASCII	GS	V	m	d1dk	Nul
	Hex	1D	6B	m	d1dk	00
	Decimal	29	107	m	d1dk	0
	(2) ASCII	GS	k	m	n	d1dn
	Hex	1D	6B	m	n	d1dn
	Decimal	29	107	m	n	d1dn
[Range]	(1) 0 ≤ m ≤	6 (k and	dd dep	ends	onthe bar	codesystem used)
	(2) $65 \le m \le 73$ (n and d depends on the bar code system used)					
[Description]	Selects a bar code system and prints the bar code. m selects a bar code system as follows:					

For (1):

m	Bar Code System	Number of Characters	Remarks
2	JAN13 (EAN13)	$12 \leq k \leq 13$	$48 \le d \le 57$
3	JAN 8 (EAN8)	$7 \leq k \leq 8$	$48 \leqslant d \leqslant 57$
4	000520	1 < 1	$48 \leqslant d \leqslant 57, 65 \leqslant d \leqslant 90,$
4	CODE39	l i≪k	32, 36, 37, 43, 45, 46, 47

For (2) :

For (1):

m	Bar Code System	Number of Characters	Remarks
67	JAN13 (EAN13)	$12 \leq k \leq 13$	$48 \le d \le 57$
68	JAN 8 (EAN8)	$7 \leq k \leq 8$	$48 \leqslant d \leqslant 57$
60	CODE20	1 < 1 < 055	$48 \leqslant d \leqslant 57$, $65 \leqslant d \leqslant 90$,
09	CODE39	I ≪ K≪200	32, 36, 37, 43, 45, 46, 47
73	CODE128	$2 \le k \le 255$	$0 \le d \le 127$

[Details]

• This command ends with a NULcode.

- When the barcode system used is JAN13 (EAN13), the printer prints the barcode after receiving 13 bytes barcode data and processes the following data as normal data.
- When the bar code system used is JAN8 (EAN8), the printer prints the bar code after receiving 8 bytes bar code data and processes the following data as normal data.

For (2):

- n indicates the number of bar code data, and the printer processes n bytes from the next character data as bar code data.
- If n is outside of the specified range, the printer stops command processing and processes the following data as normal data.
 In standard mode:
- If d is outside of the specified range, the printer only feeds paper and processes the following data as normal data.
- If the horizontal size exceeds printing area, the printer only feeds the paper.
- This command feeds as much paper as is required to print the bar code, regardless of the line spacing specified by ESC 2 or ESC 3.
- This command is enabled only when no data exists in the print buffer. When data exists in the print buffer, the printer processes the data following m as normal data.
- After printing barcode, this command sets the printposition to the beginning of the line.

In page mode:

- This command develops bar code data in the print buffer, but does not print it. After processing bar code data, this command moves the print position to the right side dot of the bar code.
- If d is out of the specified range, the printer stops command processing and processes the following data as normal data. In this case the data buffer position does not change.
- If bar code width exceeds the printing area, the printer does not print the bar code but moves the data buffer position to the left side out of the printing area.

FSpnm

[Name]	Print NV bi	timag	e		
[Format]	ASC II	FS	р	n	m
	Hex	1C	70	n	m
	Decimal	28	112	2 n	m
[Range]	$1 \leqslant n \leqslant 4$				
	$0 \le m \le 3$,	48 ≤	m≤	\$51,	

[Description]	Prints a NV bit image	nusing the	mode specified by m.
---------------	-----------------------	------------	----------------------

~	Mada	Vertical	Horizontal
iii wode	wode	Dot Density	Dot Density
0,48	Normal	203 DPI	203 DPI
1,49	Double-width	203 DPI	101 DPI
2,50	Double-heigh	101 DPI	203 DPI
3,51	Quadruple	101 DPI	101 DPI

N is the number of the NV bit image. M specifies the bit image mode.

FS q n [xL xH yLyH d1...dk]1...[xL xH yL yH d1...dk]n

	, _ ,
[Name] [Format] [Range]	Define NV bitimage ASC II FS q n [xLxH yL yD d1dk]1 Hex 1C 71 n [xL xH yL yD d1dk]1 Decimal 28 113 n [xL xH yL yD d1dk]1 $1 \le n \le 4$ $0 \le xL \le 72$ xH=0 $0 \le vl \le 255$
	$0 \le yL \le 1$ (when $1 \le (yL + yH \times 256) \le 288$) $0 \le d \le 255$ $k = (xL + xH \times 256) \times (yL + yH \times 256) \times 8$ Total defined data area = 2Mbits (256K bytes)
[Description]	 Define the NV bit image specified by n N specifies the number of the defined NV bit image . XL, xH specifies (xL+xH x 256) x8 dots in the horizontal direction for the NV bit image you are defining. YL, yH specifices (yL+yH x 256) x 8 dots in the vertical direction for the NV bit image you are defining.
[Example]	When $xL = 64$, $xH = 0$, $yL = 96$, $yH = 0$ ($xL + xH \times 256$) × 8 dots = 512 dots d1 d1 d2 d2 d3 MSB d3 ($xL + xH \times 256$) × 8 dots = 512 dots d49057 ($xL + xH \times 256$) × 8 dots = 512 dots d49057 ($xL + xH \times 256$) × 8 dots = 512 dots



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Chapter 10. Printer Driver

10-1. How to use Logo Download Tool

RP-3180 receipt printer supports Store Logo printing. You can download max four images into printer and select which one to print on receipt.

- 1) Install the driver for Logo Download Tool on Computer.
- 2) Run [Logo Download Tool].
- 3) Select the correct connected port of printer. The default port is LTP1.
- 4) Click [Openfile] to select a image.
- NOTE: * The image must be Monochrome BMP file.
 - * The Size of Monochrome BMP filemust be less than 576x2304 dots.
 - * The height should be in multiple of 8 dots in Monochrome BMP file.

* Herewith, strongly recommend to use *Microsoft Paint Tool* to edit image file. Otherwise, the printer will be failed to download or print.

😭 Logo DownLoad Tool		
Port Select	C Preview	
Bps: 9600	WAL*MART	
OpenFile Download Bmp		
Printer Mode Normal C Double-width Double- height C Quadruple	bmp file information width 300 <= 576 bit height 200 <= 2304 bit bits in bmp file	file size 576 x height ble of 8
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- 5) Click [download bmp], and wait the printer to save the data.
- 6) After the printer download the image successfully, you can preview the image on the frame and the bmp file information as well.
- Click [PrintBmp] button to check the printing effect.
 There are four Printing Mode options: Normal, Double-width, Doubleheight and Quadruple. The default mode is Normal printing.
- Select [1] to download the first image.
 Select [2] to download the second image.
 Select [3] to download the third image.
 Select [4] to download the fourth image.

Drinter Mede	_ hmn file information		
Normal C Double-width	width	< = 576 bit	Monochrome Bmp file
Double-	widin	10000	1
height C Quadruple	height	< = 2304 bit 1	should be in multiple o
		2	2 Joits in omp file
		3	4

Note: The images will be saved into the flash memory of printer. Any new download operation will overwrite the former image. Please use RP-3180 printer driver to set the image printing mode.

10-2.Setting Printer Properties

The printer driver software can be found from CD disk packaged with printer.

1) Install the printer driver software.

The printer driver should be installed according to following steps:

- Go to [Printers and Faxes] folder, click [Add aprinter];
- Click [next] according to the direction of installation;
- Click [have disk...], to find & open *.inffile of printer driver. See Pic 10.2-1
- And then start to install the printer software. See Pic 10.2-2





2) After install the software successfully, open [Printing Preferences...].

TVS Printer RP-318	30
Location:	
Comment	
Model: TVS Printer RP-318	0
Features	
Color: No	Paper available:
Double-sided: No	80mm x 297mm
Staple: No	
Speed: 2 ppm	
Maximum resolution: 203 dpi	
Printin	g Preferences Print Test Pag

Pic 10.2-3

 Open [Printing Preferences...]and [Advance] to go to Advanced Options. Now, you can reset the Document Options by select the right items. See Pic 10.2-4.

/S Pr	inter RP-3180 Advanced Options
<u>Э</u> Т	/S Printer RP-3180 Advanced Document Settings
i C	3 Paper/Output
	Paper Size: 80mm × 297mm
	Copy Count: <u>1 Copy</u>
⊟ ((Document Options
	Advanced Printing Features: Enabled
	Halftoning: Auto Select
	Print Full Pages?: <u>NO</u>
	When to Cut Paper?: <u>Never</u>
	When to Pop Cashbox?: <u>Never</u>
	Which logo to print on top of a doc?: <u>1st</u>
	Which logo to print on bottom of a doc?: 2nd
	The size of the logo on bottom of a doc?: Normal
	OK Cancel

Pic 10.2-4

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