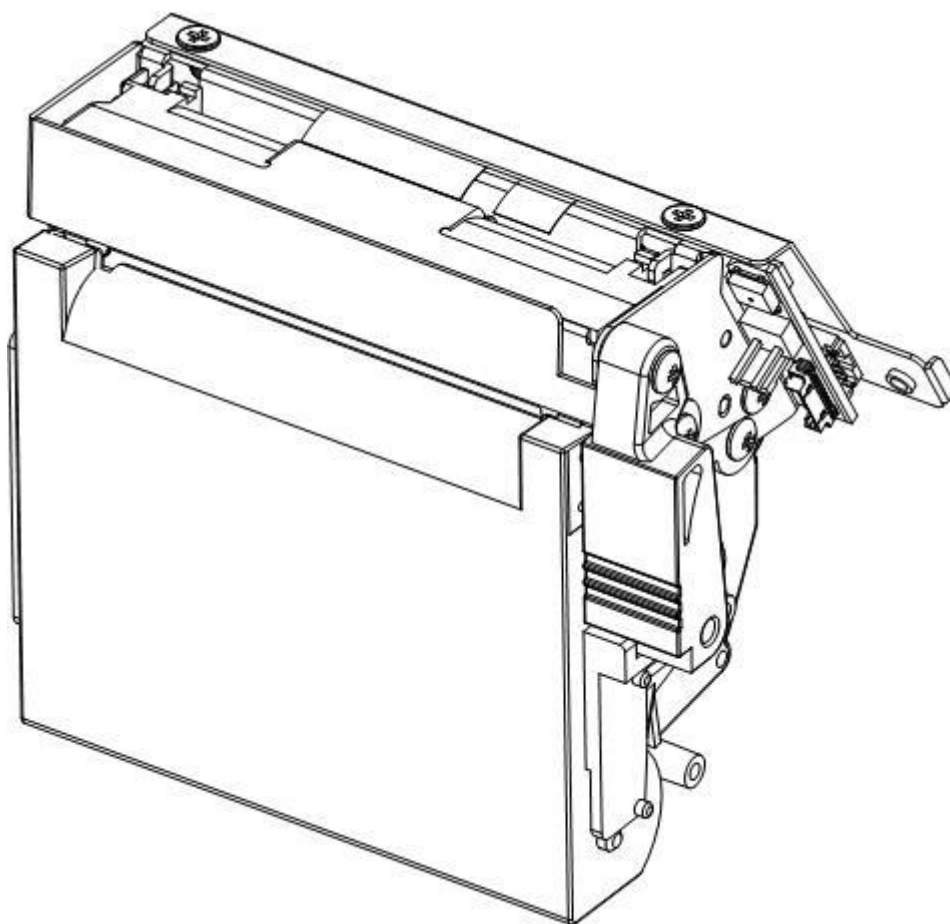




USER MANUAL

Panel Thermal Printer

Model: **WP-K832**



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1. General Description

1.1 Overview

The WP-K832 panel thermal printer is perfect solution for kiosk application, POS terminal, pad-POS, vending machines, medical equipment, weighing systems and so on. It is very compact and light that can be easily installed on any type of machinery.

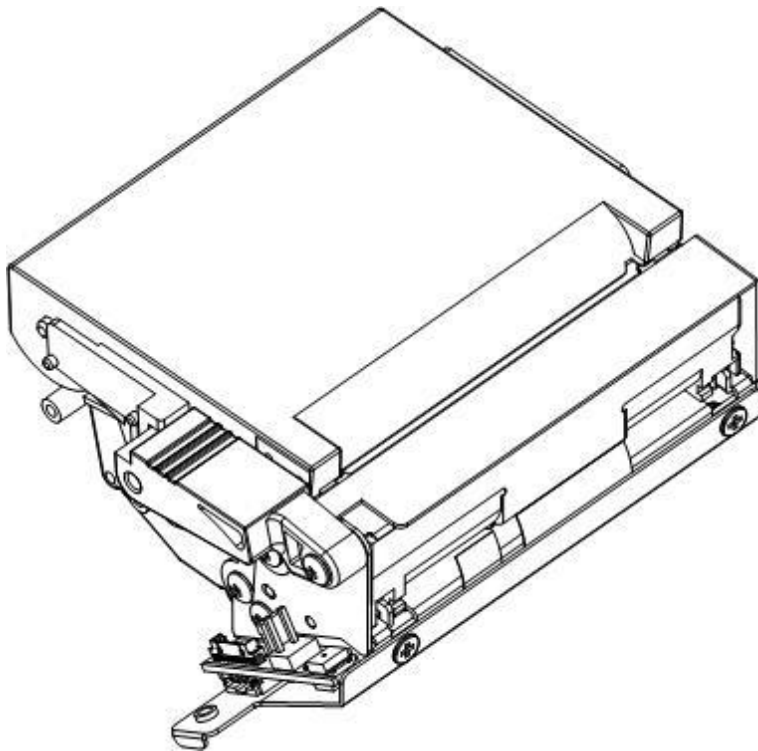
1.2 Features

1. Compact panel thermal printer.
2. Easy-loading designed for installation of paper rolls.
3. Sound and light alarm.
4. Can be installed horizontally or vertically.
5. Built-in USB and RS-232C.
6. Command protocol is compatible with ESC/POS.
7. Drawer kick-out connector.
8. Up to 200mm per second printing speed with reliable printing quality.
9. The resident data buffer has storage capacity of 4K-bytes, enable data to be received while printing.
10. Support download bit image, directly bit image, bar-code and QR code printing.
11. The sensors indicate paper end, paper near end, cover open, cutter jam and printer-head overheat.

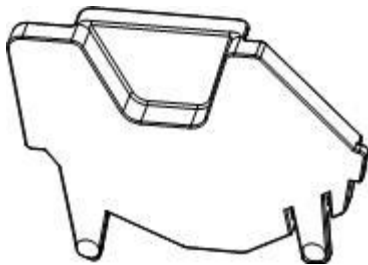
WP-K832 Panel Thermal Printer

1.3 Unpacking check

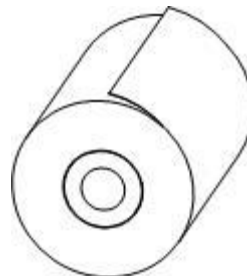
WP-K832 Panel Thermal Printer



58mm partition



Thermal paper roll



2. Specifications

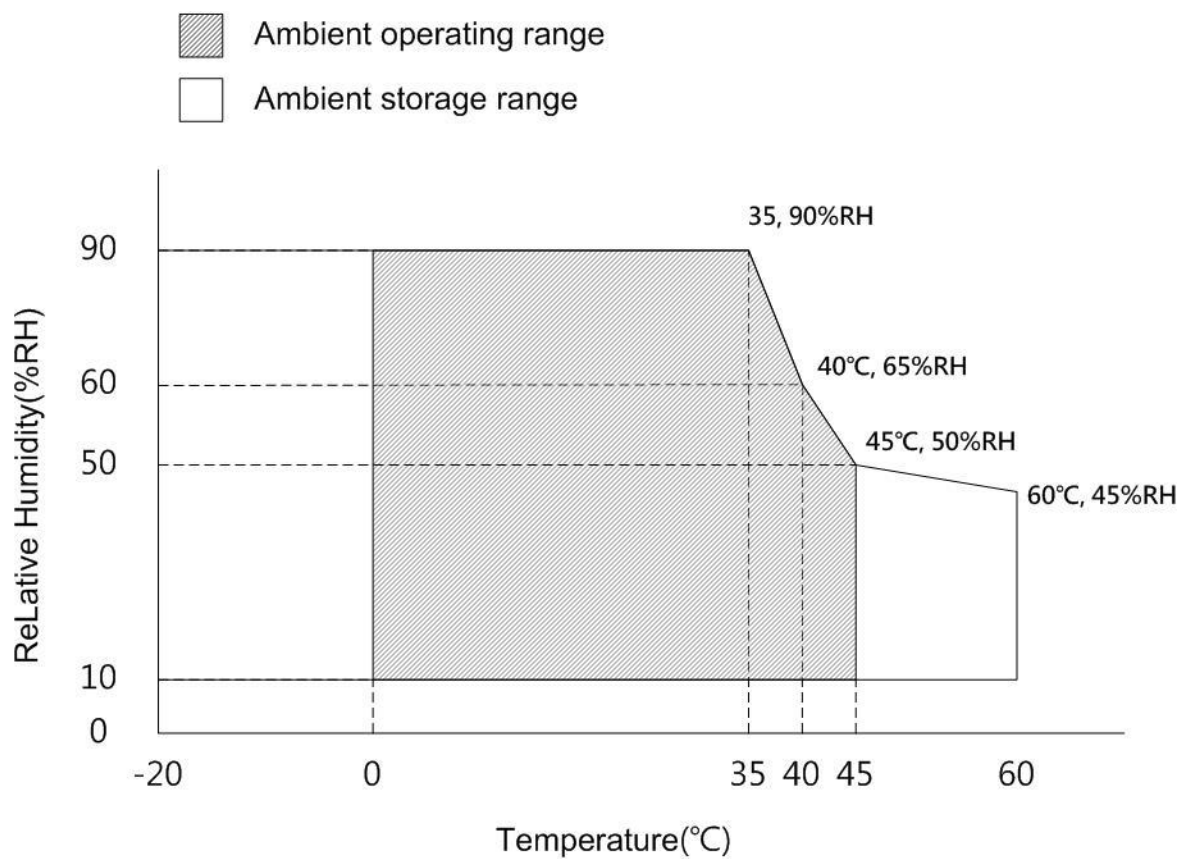
2.1 Main Specifications

Item			Description		
1	Printing method		Thermal line		
2	Printing speed		200 mm/s		
3	Command		ESC/POS		
4	Driver		Linux, Windows, OPOS, JavaPOS and Android SDK		
5	Character structure		Alphanumeric (Font A)	Alphanumeric (Font B)	Kanji
			12 x 24 dots	9 x 17 dots	24 x 24 dots
6	Character size		1.50 x 3.00 mm	1.13 x 2.13 mm	3.00 x 3.00 mm
7	58/80mm columns		34/48 columns	45/64 columns	17/24 columns
8	Density		203dpi		
9	Fonts		Multilingual code page x 46 Chinese, Japanese, Thai, Korean, Others are optional		
10	Bar code		UPC-A, UPC-E, EAN13, EAN8, Code39, Code93, CODABAR, Code128, ITF, QR Code		
11	Detectors		Paper end, Paper near end, Cover, Cutter jam and Printer head overheat		
12	Paper		Single-ply thermal paper roll		
13	Paper thickness		0.05 ~ 0.06 mm		
14	Paper roll size	58mm	57.5±0.5 (W) x 50 (Dia.) mm		
		80mm	79.5±0.5 (W) x 50 (Dia.) mm		
15	Reliability	Head	100 km or more		
		Cutter	700,000 times		
16	Memory	Buffer	4K bytes		
		SRAM	128K bytes		
		Flash	1M bytes (NV image)		
17	Power supply		+24.0 VDC / 2.5 A		
18	Drawer output		1 drawer kick-out		
19	Interface		Built-in USB and RS-232C		
20	Net weight		424g		
21	External dimension		144.0 (W) x 107.3 (D) x 68.7 (H) mm		
22	Temperature		Operating: 0 ~ 45°C		Storage: -20 ~ 60°C
23	Humidity		Operating: 10 ~ 90 %RH		Storage: 10 ~ 90 %RH

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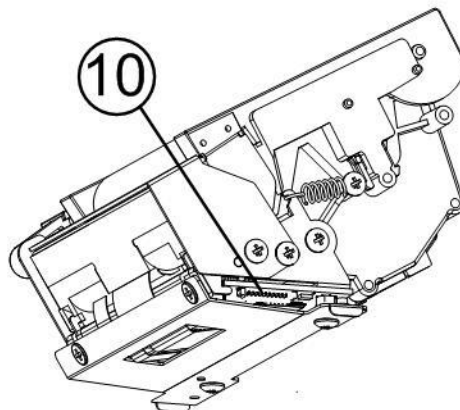
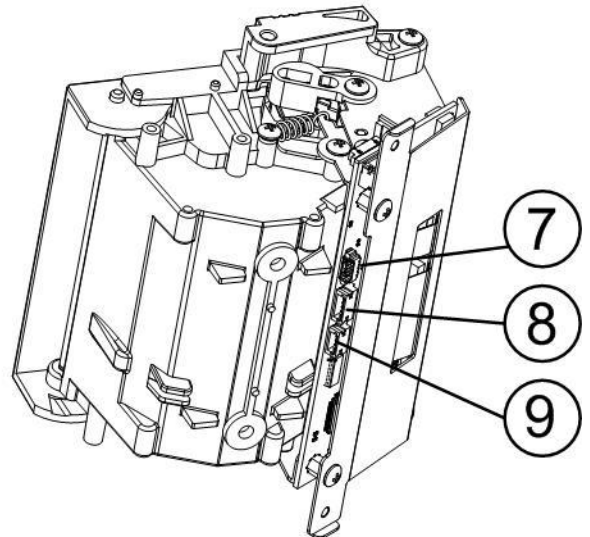
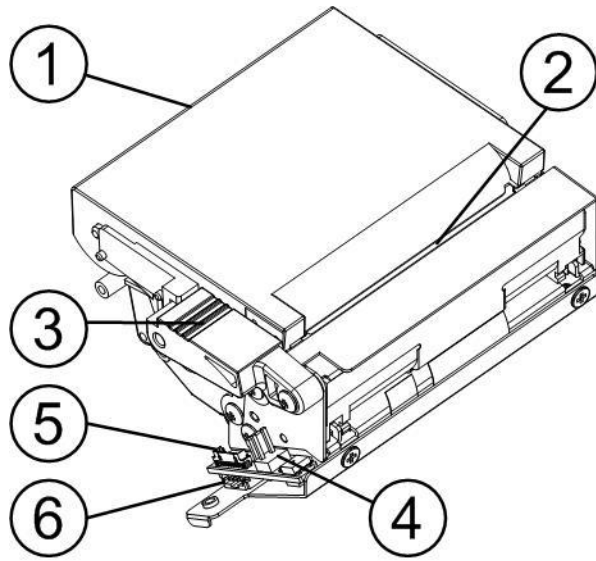
2.2 Operating Specifications

Item		Description
Temperature /Humidity	Operating	0 to 45°C (32 to 113°F), 10 to 90% RH no condensation allowed. (Refer to ambient operating ranges in the figure below.)
	Storage (shipped packed state)	-20 to +60°C (-4 to 140°F), 10 to 90% RH (excluding paper)



3. External Appearance and Descriptions

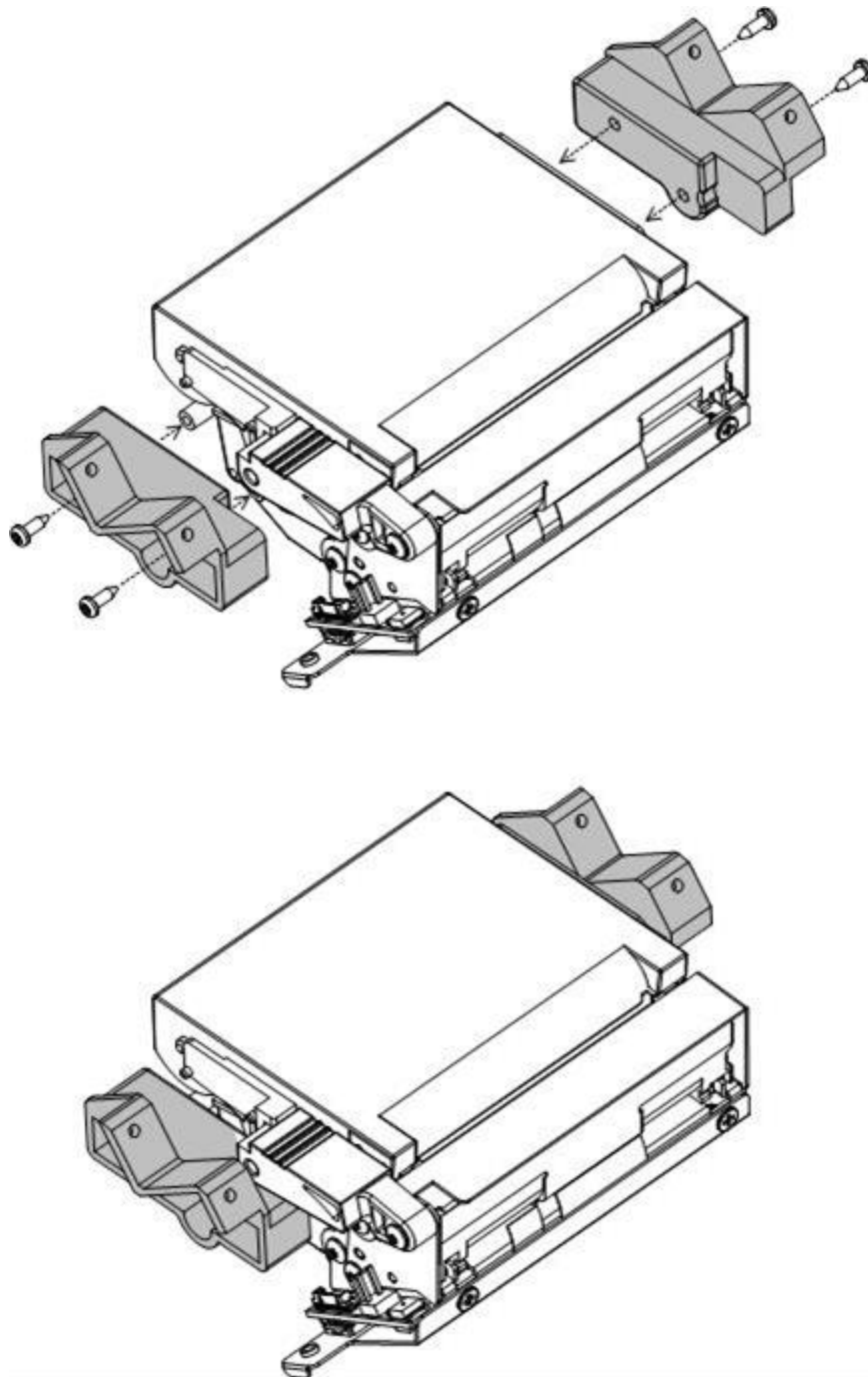
1. Printer Cover
2. Paper Out Exit
3. Cover Release Button
4. Power Connector
5. Keypad Connector
6. Cash Drawer Connector
7. Manufacture Test Connector
8. RS-232 Interface
9. USB Connector
10. Ext. Connector



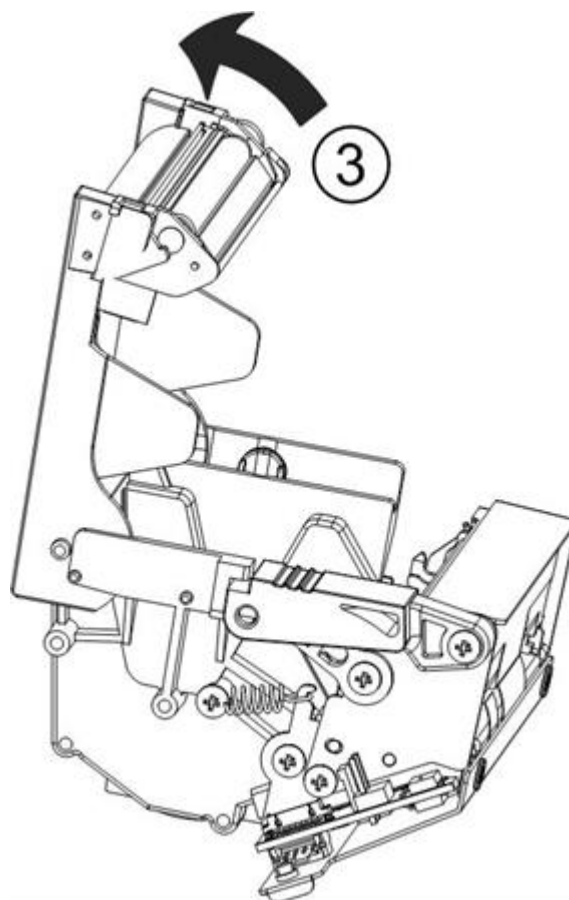
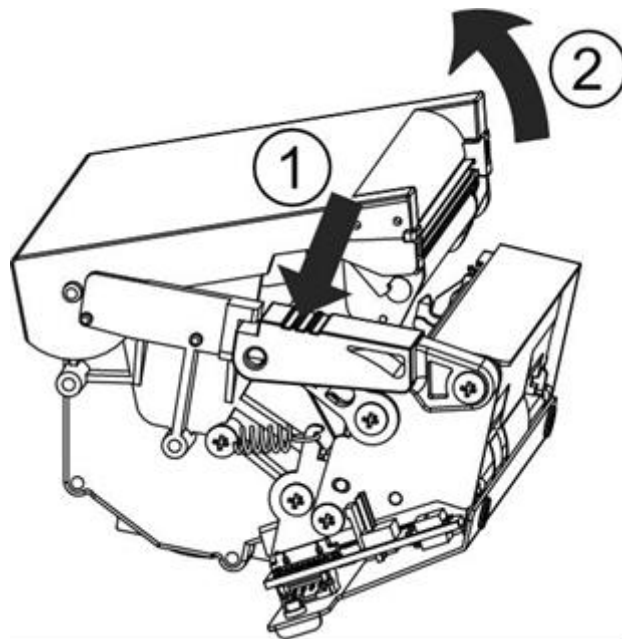
4. Installation

4.1 Printer Fixing Methods

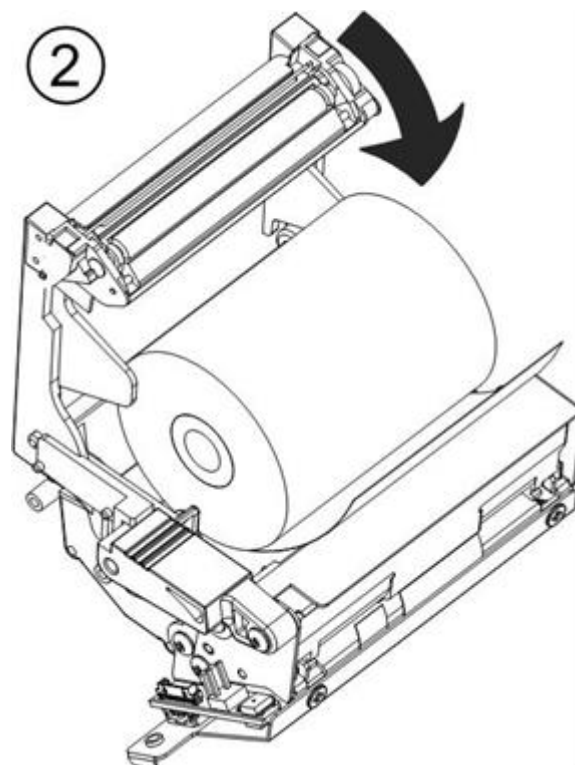
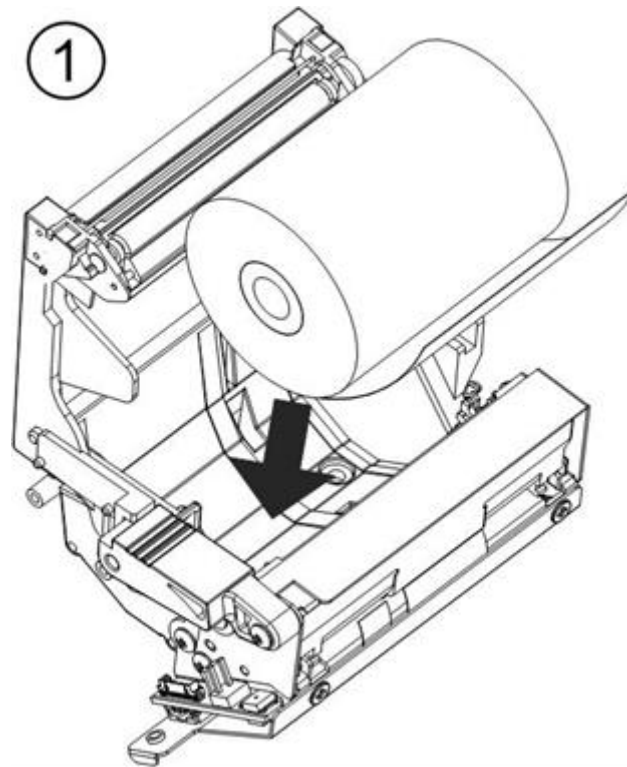
The fixed plates (darker parts) are not parts or accessories of the printer, not provided by the manufacturer. It should be parts of a machine. The images below show a way of how to fix the printer in a machine.



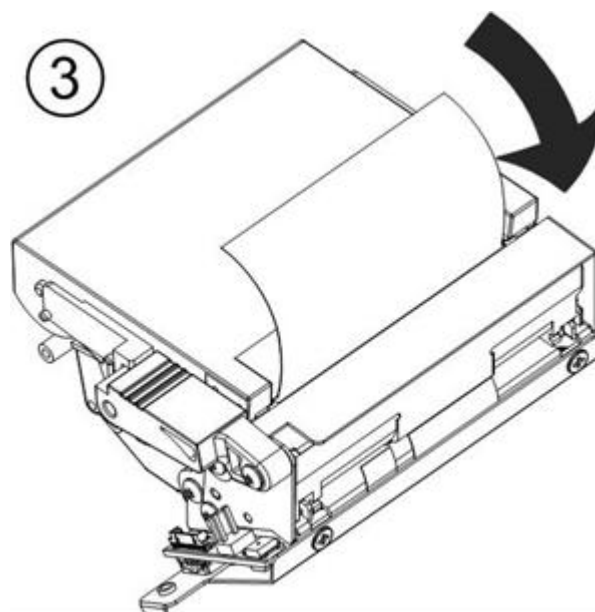
4.2 Press Release Button to Open Printer Cover



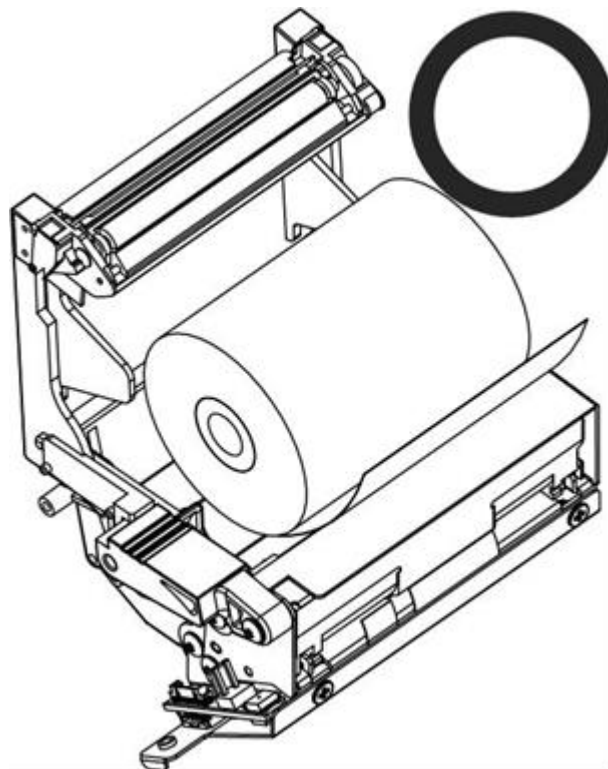
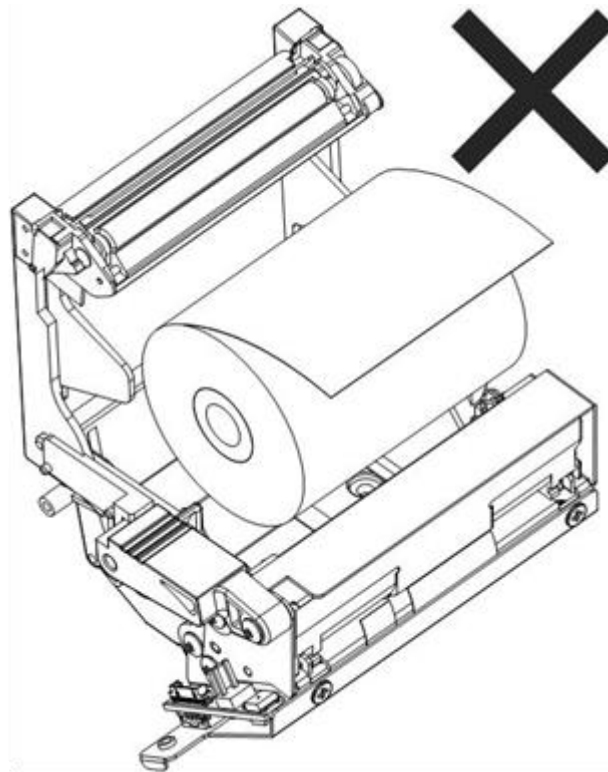
4.3 Paper Loading



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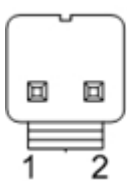
4.4 Paper direction



5. Connector Specifications

5.1 Power (Main board CN1)

1. Pin assignment

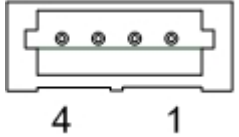
No.	Signal Name	Function description
1	+VI	Power input (24 VDC / 2.5A)
2	GND	Signal ground
VH 3.96mm 1*2P  		

5.2 USB Interface (Main board CN2)

1. Specifications

USB specification 2.0 complaint, full speed mode (12 Mbps)

2. Pin assignment

No.	Signal Name	Function description
1	5VDC	Power input
2	USBD-	USB data signal -
3	USBD+	USB data signal +
4	GND	Signal ground
WAFER ZH 1.5mm 1*4P 		

5.3 Serial Interface (Main board CN4)

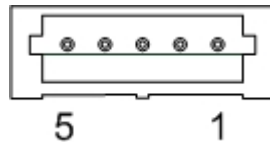
1. Specifications (Conform to RS-232C)

Data transmission:	Serial
Synchronizing system	Asynchronous system
Handshaking	DTR/DSR control
Baud rate	9600,19200,38400,115200
Data length	7 or 8 bit length
Parity	None, even or odd

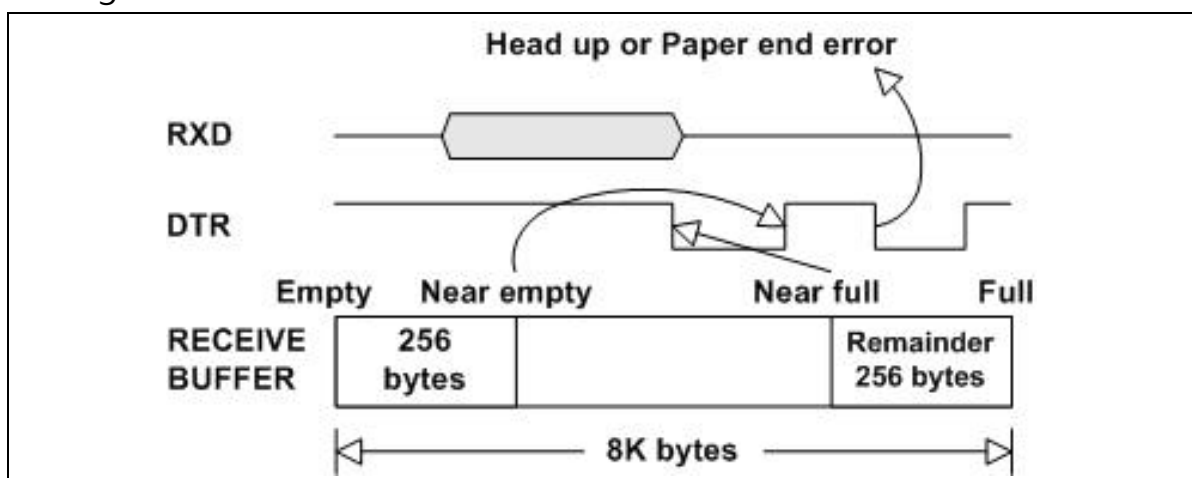
2. Pin assignment

No.	Signal Name	I/O	Function description
1	GND	-	Signal ground
2	DSR	Input	Data set ready
3	DTR	Output	Data terminal ready
4	RXD	Input	Receive data
5	TXD	Output	Transmit data

WAFER ZH 1.5mm 1*5P



3. Timing Chart



5.4 Drawer Kick (Main board CN9)

1. Specifications (Conform to RS-232C)

(1) Data Transfer System

The pulse specified by "ESC p" is output to this connector. The host can confirm the status of the input signal by using the "ESC u" command.

(2) Electrical Characteristics

Drive voltage : DC 24V

Drive current : 0.8A at maximum (Should be within 510 ms)

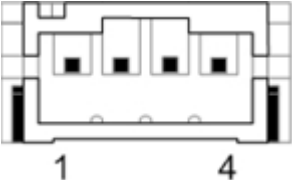
Switch signal : Signal level "L" = 0 to 0.5V

"H" = 3 to 3.3V

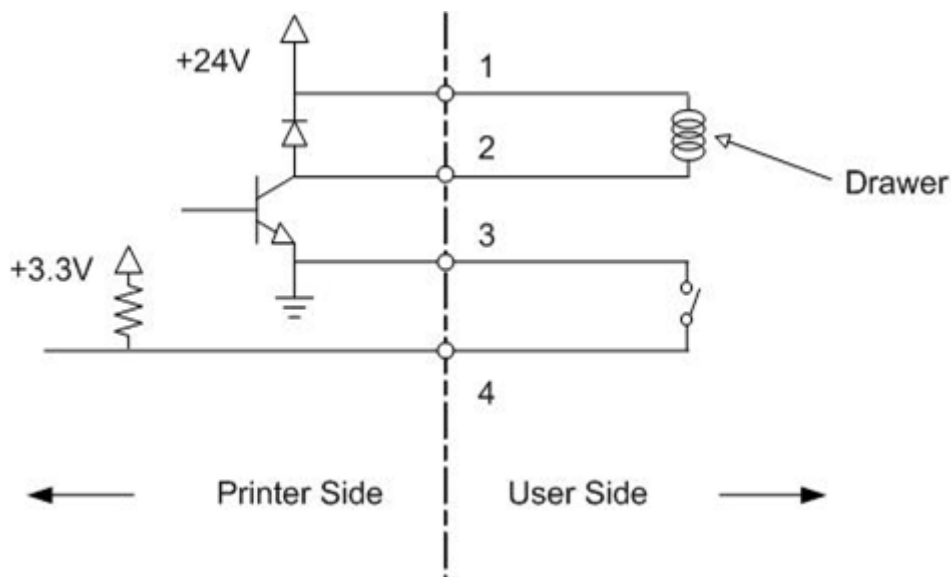
2. Pin assignment

No.	Signal Name	Function description
1	V+	+24V
2	DRAW1	Drawer kick-out
3	GND	Signal ground
4	DRAW-S	Drawer open/close signal

WAFER PH 2.0mm 1*4P



3. Drive Circuit

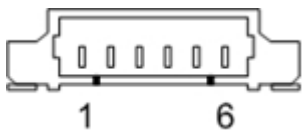


5.5 Keypad (Near end board CN2)

1. Pin assignment

No.	Signal Name	Function description
1	VCC	Power supply pin
2	LF-KEY	Feed button
3	PWR-LED	Power LED indicator
4	ERR-LED	Error LED indicator
5	PAPER-LED	Paper LED indicator
6	GND	Signal ground

WAFER PH 1.25mm 1*6P



2. Feed button.

When this push-button switch is pressed once briefly (for 0.5 seconds or less), the paper is fed forward by one line. When it is held down continuously, the paper is fed forward continuously until the switch is released.

3. Power LED indicator

The power LED remains lighting indicates the power supply well connected.

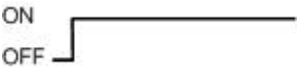
4. Error LED indicator (Red LED)

When printer cover is not properly closed or paper jam happen on cutter part or paper is not put properly, the error indicator lamp (red LED) will light.

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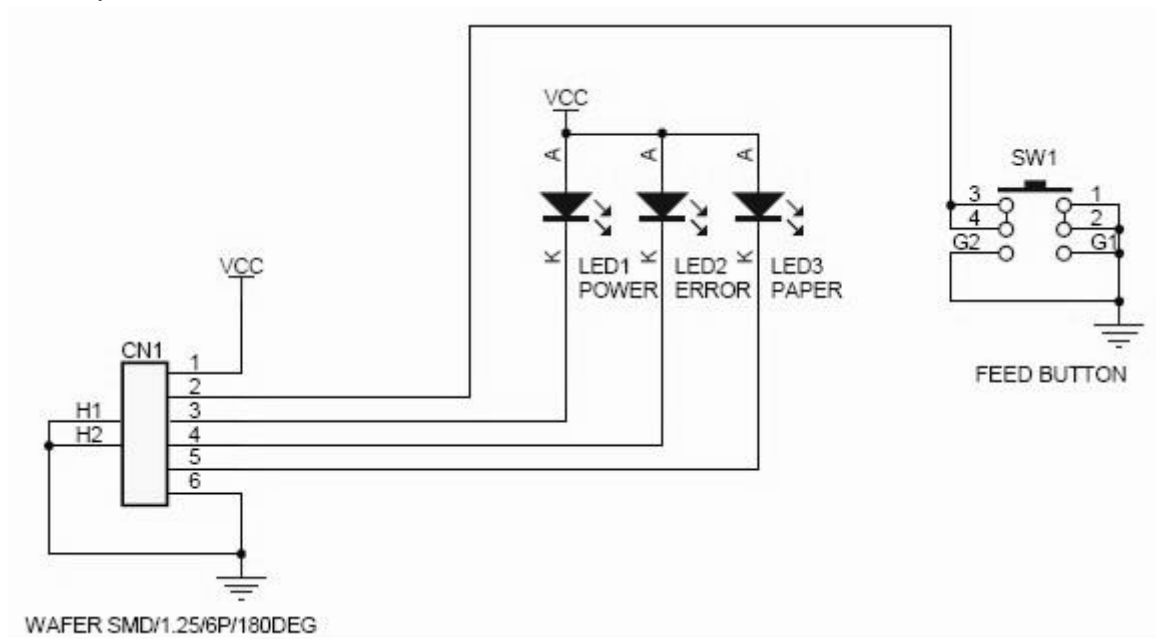
5. Paper LED indicator (Yellow LED)

- The indicator remains lighting when paper near end or paper end.
- The indicator keeps sparkling when printer process in self-test or hexadecimal dump mode.
- The flash timing chart shows as below.

Printer status	Blinking Pattern
Self-Testing	
Paper end	

6. Keyboard circuit diagram

Examples:



6. Test Mode

6.1 Self-printing mode

Press the feed button for 3 seconds to activate self-test mode.

When self-test mode is activated, two beeps will sound and a self-test receipt will be printed.

(Ref. the right receipt)

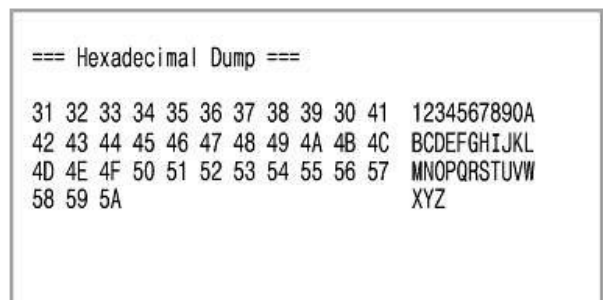
Then leave the feed button to standby mode.



6.2 Hexadecimal dump mode

Open printer cover. Turn on power while holding the feed button depressed.

Then close printer cover. The printer will be set to hexadecimal mode.



Each of the signals sent from the computer to the printer will be printed out in hexadecimal code. This function allows user to check control code.

To turn off the mode, it is necessary to turn off the printer completely.

7. Commands

7.1 Commands Description

Command	HT
Code (Hex)	09
Name	Horizontal tab

Command	LF
Code (Hex)	0A
Name	Print and line feed

Command	FF
Code (Hex)	0C
Name	Print and return to standard mode in page mode

Command	CR
Code (Hex)	0D
Name	Print and carriage return

Command	CAN
Code (Hex)	18
Name	Cancel print data on page mode

Command	DLE EOT n
Code (Hex)	10 04 n
Name	Real-time status transmission

Command	DLE ENQ n
Code (Hex)	10 05 n
Name	Real-time request to printer

Command	DLE DC4 n m t
Code (Hex)	10 14 n m t
Name	Generate pulse at real-time

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Command	ESC FF
Code (Hex)	1B 0C
Name	Print data in page mode

Command	ESC SP n
Code (Hex)	1B 20 n
Name	Set right-side character spacing

Command	ESC ! n
Code (Hex)	1B 21 n
Name	Select print mode(s)

Command	ESC \$ nL nH
Code (Hex)	1B 24 nL nH
Name	Set absolute print position

Command	ESC % n
Code (Hex)	1B 25 n
Name	Select/cancel user-defined character set

Command	ESC * m nL nH d1... dk
Code (Hex)	1B 2A m nL nH d1... dk
Name	Select bit-image mode

Command	ESC - n
Code (Hex)	1B 2D n
Name	Turn underline mode on/off

Command	ESC 2
Code (Hex)	1B 32
Name	Select default line spacing

Command	ESC 3 n
Code (Hex)	1B 33 n
Name	Set line spacing

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Command	ESC ? n
Code (Hex)	1B 3F n
Name	Cancel user-defined characters

Command	ESC @
Code (Hex)	1B 40
Name	Initialize printer

Command	ESC D n1... nk NUL
Code (Hex)	1B 44 n1... nk 00
Name	Set Horizontal tab positions

Command	ESC E n
Code (Hex)	1B 45 n
Name	Turn emphasized mode on/off

Command	ESC G n
Code (Hex)	1B 47 n
Name	Turn on/off double-strike mode

Command	ESC J n
Code (Hex)	1B 4A n
Name	Print and feed paper

Command	ESC L
Code (Hex)	1B 4C
Name	Select page mode

Command	ESC M n
Code (Hex)	1B 4D n
Name	Select character font

Command	ESC R n
Code (Hex)	1B 52 n
Name	Select an international character set

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Command	ESC	W	xL	xH	yL	yH	dxL	dxH	dyL	dyH
Code (Hex)	1B	57	xL	xH	yL	yH	dxL	dxH	dyL	dyH
Name	Set printing area in page mode									

Command	ESC	\	nL	nH
Code (Hex)	1B	5C	nL	nH
Name	Set relative print position			

Command	ESC	a	n
Code (Hex)	1B	61	n
Name	Select justification		

Command	ESC	d	n
Code (Hex)	1B	64	n
Name	Print and feed n lines		

Command	ESC	p	m	t1	t2
Code (Hex)	1B	70	m	t1	t2
Name	Generate pulse				

Command	ESC	t	n
Code (Hex)	1B	74	n
Name	Select character code table		

Command	ESC	{	n
Code (Hex)	1B	7B	n
Name	Turns on/off upside-down printing mode		

Command	FS	p	n	m
Code (Hex)	1C	70	n	m
Name	Print NV bit image			

Command	GS	!	n
Code (Hex)	1D	21	n
Name	Select character size		

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Command	GS \$ nL nH
Code (Hex)	1D 24 nL nH
Name	Set absolute vertical print position in page mode

Command	GS * x y d1.. d(x*y*8)
Code (Hex)	1D 2A x y d1.. d(x*y*8)
Name	Define downloaded bit image

Command	GS (A pL pH n m
Code (Hex)	1D 28 41 pL pH n m
Name	Execute test print

Command	GS / m
Code (Hex)	1D 2F m
Name	Print downloaded bit image

Command	GS B n
Code (Hex)	1D 42 n
Name	選用/取消黑底白字模式

Command	GS H n
Code (Hex)	1D 48 n
Name	Select printing position for HRI characters

Command	GS I n
Code (Hex)	1D 49 n
Name	Transmit printer ID

Command	GS L nL nH
Code (Hex)	1D 4C nL nH
Name	Set left margin

Command	GS P x y
Code (Hex)	1D 50 x y
Name	Set horizontal and vertical motion units

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Command	GS	W	nL	nH
Code (Hex)	1D	57	nL	nH
Name	Set printing area width			

Command	GS	\	nL	nH
Code (Hex)	1D	5C	nL	nH
Name	Set relative vertical print position in page mode			

Command	GS	a	n
Code (Hex)	1D	61	n
Name	Enable/disable automatic status back(ASB)		

Command	GS	f	n
Code (Hex)	1D	66	n
Name	Select font for Human Readable		

Command	GS	h	n
Code (Hex)	1D	68	n
Name	Select bar code height		

Command	GS	k	m	d1...dk	NUL
Code (Hex)	1D	6B	m	d1...dk	00
Name	Print bar code				

Command	GS	k	m	n	d1...dn
Code (Hex)	1D	6B	m	n	d1...dn
Name	Print bar code				

Command	GS	r	n
Code (Hex)	1D	72	n
Name	Transmit status		

Command	GS	v	0	m	xL	xH	yL	yH	d1...dk
Code (Hex)	1D	76	30	m	xL	xH	yL	yH	d1...dk
Name	Print raster bit image								

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Command	GS w n
Code (Hex)	1D 77 n
Name	Set bar code width

Command	FS ! n
Code (Hex)	1C 21 n
Name	Set print mode(s) for Kanji characters

Command	FS &
Code (Hex)	1C 26
Name	Select Kanji character mode

Command	FS - n
Code (Hex)	1C 2D n
Name	Turn underline mode on/off for Kanji characters

Command	FS .
Code (Hex)	1C 2E
Name	Cancel Kanji character mode

Command	FS C n
Code (Hex)	1C 43 n
Name	Select Kanji character code system

Command	FS S n1 n2
Code (Hex)	1C 53 n1 n2
Name	Set left- and right-side Kanji character spacing

Command	FS W n
Code (Hex)	1C 57 n
Name	Turn quadruple-size mode on/off for Kanji characters

Command	FS q n [xL xH yL yH d1...dk]1...[xL xH yL yH
Code (Hex)	1C 71 n [xL xH yL yH d1...dk]1...[xL xH yL yH
Name	Define NV bit image

7.2 Real-Time Status Transmission

1. Command Format

ASCII	DLE	EOT	n
Hex	10	04	n
Decimal	16	4	n

2. Command Description

Real time status transmission command "n" is described as follow.

n	Function
1	Transmit printer status
2	Transmit offline status
3	Transmit error status
4	Transmit roll paper sensor status
5	Transmit paper taken out sensor status

3. Transmit printer status

Transmit printer status (n = 1) is described as follow

Bit	Bin.	Hex.	Dec.	Status
0	0	00	0	Not used. Fixed to Off.
1	1	02	2	Not used. Fixed to On.
2	0	00	0	Drawer kick-out connector pin 3 is LOW.
	1	04	4	Drawer kick-out connector pin 3 is HIGH.
3	0	00	0	Online.
	1	08	8	Offline.
4	1	10	16	Not used. Fixed to On.
5	0	00	0	Not waiting for online recovery.
	1	20	32	Waiting for online recovery.
6	0	00	0	Paper is not being fed by the paper feed button.
	1	40	64	Paper is being fed by the paper feed button.
7	0	00	0	Not used. Fixed to Off.

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4. Transmit offline status

Transmit offline status (n = 2) is described as follow

Bit	Bin.	Hex.	Dec.	Status
0	0	00	0	Not used. Fixed to Off.
1	1	02	2	Not used. Fixed to On.
2	0	00	0	Cover is closed.
	1	04	4	Cover is open.
3	0	00	0	Paper is not being fed by the paper feed button.
	1	08	8	Paper is being fed by the paper feed button.
4	1	10	16	Not used. Fixed to On.
5	0	00	0	No paper-end stop.
	1	20	32	Printing stops due to a paper-end.
6	0	00	0	No error.
	1	40	64	Error occurred.
7	0	00	0	Not used. Fixed to Off.

5. Transmit error status

Transmit error status (n = 3) is described as follow

Bit	Bin.	Hex.	Dec.	Status
0	0	00	0	Not used. Fixed to Off.
1	1	02	2	Not used. Fixed to On.
2	0	00	0	No recoverable error.
	1	04	4	Recoverable error occurred.
3	0	00	0	No auto-cutter error.
	1	08	8	Auto-cutter error occurred.
4	1	10	16	Not used. Fixed to On.
5	0	00	0	No unrecoverable error.
	1	20	32	Unrecoverable error occurred.
6	0	00	0	No auto-recoverable error.
	1	40	64	Auto-recoverable error occurred.
7	0	00	0	Not used. Fixed to Off.

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6. Transmit roll paper sensor status

Transmit roll paper sensor status (n = 4) is described as follow

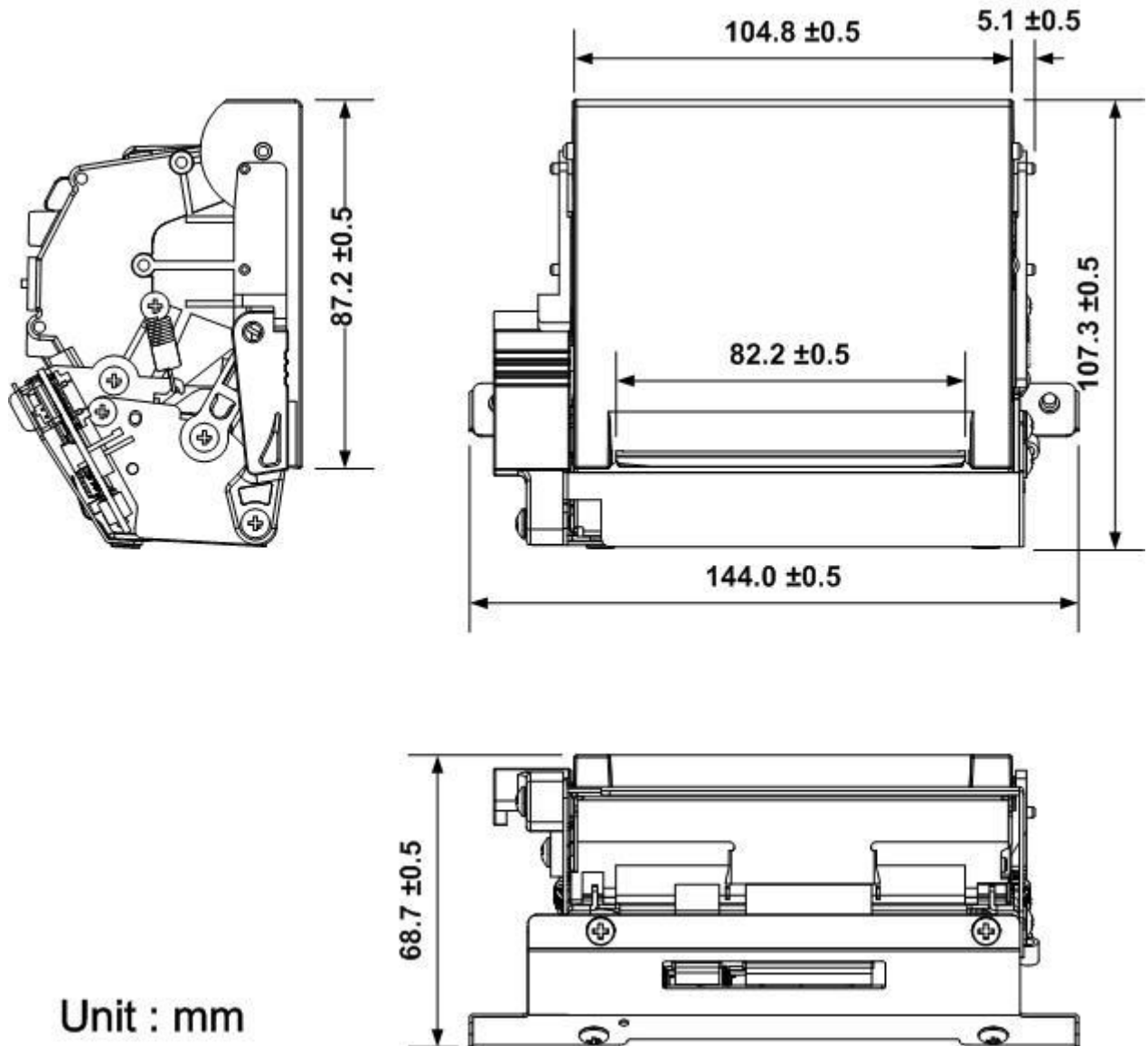
Bit	Bin.	Hex.	Dec.	Status
0	0	00	0	Not used. Fixed to Off.
1	1	02	2	Not used. Fixed to On.
2,3	00	00	0	Roll paper near-end sensor: paper adequate.
	11	0C	12	Roll paper near-end sensor: paper near end.
4	1	10	16	Not used. Fixed to On.
5,6	00	00	0	Roll paper end sensor: paper present.
	11	60	96	Roll paper end sensor: paper not present.
7	0	00	0	Not used. Fixed to Off.

7. Transmit paper taken out sensor status

Transmit paper taken out sensor status (n = 5) is described as follow

Bit	Bin.	Hex.	Dec.	Status
0	0	00	0	Not used. Fixed to Off.
1	1	02	2	Not used. Fixed to On.
2	0	00	0	Not used. Fixed to Off.
3	0	00	0	Paper taken out sensor: paper taken out.
	1	08	8	Paper taken out sensor: paper exist.
4	1	10	16	Not used. Fixed to On.
5	0	00	0	Not used. Fixed to Off.
6	0	00	0	Not used. Fixed to Off.
7	0	00	0	Not used. Fixed to Off.

8. External Dimensions



Appendix A : Character Code Tables

A.1 International Character sets

The parameter of international Character set control by command "ESC R n"

n	Country	ASCII code (Hex)											
		23	24	40	5B	5C	5D	5E	60	7B	7C	7D	7E
0	U.S.A	#	\$	@	[	\	]	^	`	{		}	~
1	France	#	\$	à	°	ç	§	^	`	é	ù	è	¨
2	Germany	#	\$	§	Ä	Ö	Ü	^	`	ä	ö	ü	ß
3	U.K	£	\$	@	[	\	]	^	`	{		}	~
4	Denmark I	#	\$	@	Æ	Ø	Å	^	`	æ	ø	å	~
5	Sweden	#	¤	É	Ä	Ö	Å	Ü	é	ä	ö	å	ü
6	Italy	#	\$	@	°	\	é	^	ù	à	ò	è	ì
7	Spain I	Pt	\$	@	ı	Ñ	¿	^	`	¨	ñ	}	~
8	Japan	#	\$	@	[	¥	]	^	`	{		}	~
9	Norway	#	¤	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
10	Denmark II	#	\$	É	Æ	Ø	Å	Ü	é	æ	ø	å	ü
11	Spain II	#	\$	á	ı	Ñ	¿	é	`	í	ñ	ó	ú
12	Latin America	#	\$	á	ı	Ñ	¿	é	ü	í	ñ	ó	ú
13	Korea	#	\$	@	[	₩	]	^	`	{		}	~

A.2 Characters: 00H to 7FH

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
0_	NUL				EOT	ENQ	ACK			HT	LF		FF	CR		
1_	DLE	XON		XOFF	DC4	NAK			CAN			ESC	FS	GS	RS	US
2_	SP	!	“	#	\$	%	&	‘	(	)	*	+	,	-	.	/
3_	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
4_	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
5_	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_
6_	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
7_	p	q	r	s	t	u	v	w	x	y	z	{		}	~	SP

A.3 Character Code Table sets

The parameter of the code table control by command “ESC t n”

Parameter “n”		Code Page
Decimal	Hex	
0	00h	Code Page 0: CP437 (USA, European Standard)
1	01h	Code Page 1: Katakana (Japanese)
2	02h	Code Page 2: CP850 (Multilingual)
3	03h	Code Page 3: CP860 (Portuguese)
4	04h	Code Page 4: CP863 (Canadian-French)
5	05h	Code Page 5: CP865 (Nordic)
11	0Bh	Code Page 11: CP851 (Greek)
12	0Ch	Code Page 12: CP853 (Turkish)
13	0Dh	Code Page 13: CP857 (Turkish)
14	0Eh	Code Page 14: CP737 (Greek)
15	0Fh	Code Page 15: ISO8859-7 (Greek)
16	10h	Code Page 16: WCP1252 (Windows Latin 1)
17	11h	Code Page 17: CP866 (Russian)
18	12h	Code Page 18: CP852 (Slavonic)
19	13h	Code Page 19: CP858 (Multilingual with Euro Symbol)
20	14h	Code Page 20: KU42 (Thai)
21	15h	Code Page 21: TIS11 (Thai)
22	16h	Code Page 22: TIS13 (Thai)
23	17h	Code Page 23: TIS14 (Thai)
24	18h	Code Page 24: TIS16 (Thai)
25	19h	Code Page 25: TIS17 (Thai)
26	1Ah	Code Page 26: TIS18 (Thai)
30	1Eh	Code Page 30: TCVN-3A (Vietnamese)
31	1Fh	Code Page 31: TCVN-3B (Vietnamese)
32	20h	Code Page 32: CP720 (Arabic)
33	21h	Code Page 33: CP775 (Baltic)
34	22h	Code Page 34: CP855 (Cyrillic)
35	23h	Code Page 35: CP861 (Iceland)

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Parameter "n"		Code Page
Decimal	Hex	
36	24h	Code Page 36: CP862 (Hebrew)
37	25h	Code Page 37: CP864 (Arabic)
38	26h	Code Page 38: CP869 (Greek)
39	27h	Code Page 39: ISO8859-2 (Central European)
40	28h	Code Page 40: ISO8859-15 (Latin 9)
41	29h	Code Page 41: CP1098 (Farsi)
42	2Ah	Code Page 42: CP1118 (Lithuanian)
43	2Bh	Code Page 43: CP1119 (Lithuanian)
44	2Ch	Code Page 44: CP1125 (Ukrainian)
45	2Dh	Code Page 45: WCP1250 (Central European)
46	2Eh	Code Page 46: WCP1251 (Cyrillic)
47	2Fh	Code Page 47: WCP1253 (Greek)
48	30h	Code Page 48: WCP1254 (Turkish)
49	31h	Code Page 49: WCP1255 (Hebrew)
50	32h	Code Page 50: WCP1256 (Arabic)
51	33h	Code Page 51: WCP1257 (Baltic)
52	34h	Code Page 52: WCP1258 (Vietnamese)
53	35h	Code Page 53: KZ1048 (Kazakhstan)

A.4 Character Code Table List

Code Page 0: CP437 (USA, European Standard)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
9_	É	æ	Æ	ô	ö	ò	û	ù	ÿ	Ö	Ü	¢	£	¥	Pt	f
A_	á	í	ó	ú	ñ	Ñ	à	ó	¿	¬	½	¼	¡	«	»	
B_					┌	┐	└	┘	┌	┐	└	┘	┌	┐	└	┘
C_	L	┐	└	┌	─	┼	┼	┼	┼	┼	┼	┼	┼	┼	┼	┼
D_	┼	┼	┼	┼	┼	┼	┼	┼	┼	┼	┼	■	■	■	■	■
E_	α	β	Γ	π	Σ	σ	μ	τ	φ	θ	Ω	δ	∞	Φ	ε	∩
F_	≡	±	≥	≤	∫	∫	÷	≈	°	•	·	√	n	²	■	NBSP

Code Page 1: Katakana (Japanese)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	─	─	─	─	─	─	─	─								┼
9_	┐	└	┌	┌	─	─			┌	┐	┌	┐	┌	┐	┌	┐
A_		。	「	」	、	・	ヲ	ア	イ	ウ	エ	オ	ヤ	ユ	ヨ	ツ
B_	‐	ア	イ	ウ	エ	オ	カ	キ	ク	ケ	コ	サ	シ	ス	セ	ソ
C_	タ	チ	ツ	テ	ト	ナ	ニ	ヌ	ネ	ノ	ハ	ヒ	フ	ヘ	ホ	マ
D_	ミ	ム	メ	モ	ヤ	ユ	ヨ	ラ	リ	ル	レ	ロ	ワ	ン	ゝ	°
E_	=	┼	┼	┼	▲	▼	▼	▼	♠	♥	♦	♣	●	○	/	\
F_	×	円	年	月	日	時	分	秒	〒	市	区	町	村	人		NBSP

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Code Page 2: CP850 (Multilingual)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
9_	É	æ	Æ	ô	ö	ò	û	ù	ÿ	ö	Ü	ø	£	Ø	×	f
A_	á	í	ó	ú	ñ	Ñ	ä	ö	¿	®	¬	½	¼	ì	«	»
B_	☐	☐	☐		└	Á	Â	À	©	¶		¶	¶	¢	¥	⌋
C_	L	⊥	⊥	└	—	†	ã	Ã	ℓ	ℓ	⊥	⊥	⊥	=	⊥	α
D_	ď	Đ	Ê	Ë	È	ı	Í	Î	İ	⌋	⌋	■	■	ı	İ	■
E_	ó	β	ô	ò	õ	Õ	μ	þ	þ	Ú	Û	Ù	ý	Ý	—	‘
F_	-	±	=	¾	¶	§	÷	,	°	¨	·	¹	³	²	■	<u>NBSP</u>

Code Page 3: CP860 (Portuguese)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ç	ü	é	â	ã	à	Á	ç	ê	Ê	è	Í	Ô	ì	Ã	Â
9_	É	À	È	ô	õ	ò	Ú	ù	Ì	Õ	Ü	¢	£	Ù	Pt	Ó
A_	á	í	ó	ú	ñ	Ñ	ä	ö	¿	Ò	¬	½	¼	ì	«	»
B_	☐	☐	☐		└	≡		π	≡	¶		¶	¶	¶	¶	⌋
C_	L	⊥	⊥	└	—	†	‡		ℓ	ℓ	⊥	⊥	⊥	=	⊥	⊥
D_	⊥	⊥	π	ℓ	ℓ	ℓ	π		≡	⌋	⌋	■	■	■	■	■
E_	α	β	Γ	π	Σ	σ	μ	τ	φ	θ	Ω	δ	∞	Φ	ε	∩
F_	≡	±	≥	≤	∫	∫	÷	≈	°	•	·	√	n	²	■	<u>NBSP</u>

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Code Page 4: CP863 (Canadian-French)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ç	ü	é	â	Â	à	¶	ç	ê	ë	è	ï	î	=	Ä	§
9_	É	È	Ê	ô	Ë	Ï	û	ù	œ	Ô	Ü	¢	£	Ù	Û	f
A_	¡	´	ó	ú	¨	,	³	—	Î	ƒ	¬	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{3}{4}$	«	»
B_					┌	┐	└	┘	┌	┐	└	┘	┌	┐	└	┘
C_	Ⓕ	Ⓖ	Ⓗ	Ⓙ	—	+	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓕ	Ⓖ
D_	Ⓖ	Ⓗ	Ⓙ	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓕ
E_	α	β	Γ	π	Σ	σ	μ	τ	φ	θ	Ω	δ	∞	Φ	ε	∩
F_	≡	±	≥	≤	∫	∫	÷	≈	°	•	·	√	n	²	■	NBSP

Code Page 5: CP865 (Nordic)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
9_	É	æ	Æ	ô	ö	ò	û	ù	ÿ	Ö	Ü	ø	£	Ø	Pt	f
A_	á	í	ó	ú	ñ	Ñ	ä	ö	¿	ƒ	¬	$\frac{1}{2}$	$\frac{1}{4}$	¡	«	œ
B_					┌	┐	└	┘	┌	┐	└	┘	┌	┐	└	┘
C_	Ⓕ	Ⓖ	Ⓗ	Ⓙ	—	+	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓕ	Ⓖ
D_	Ⓖ	Ⓗ	Ⓙ	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓕ	Ⓖ	Ⓗ	Ⓙ	Ⓕ
E_	α	β	Γ	π	Σ	σ	μ	τ	φ	θ	Ω	δ	∞	Φ	ε	∩
F_	≡	±	≥	≤	∫	∫	÷	≈	°	•	·	√	n	²	■	NBSP

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Code Page 11: CP851 (Greek)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ç	ü	é	â	ä	à	À	ç	ê	ë	è	ï	î	Ê	Ä	Ë
9_	Ï		Ô	ô	ö	Υ	û	ù	Ω	Ö	Ü	ά	£	é	ή	ί
A_	ï	ĩ	ó	ú	Α	Β	Γ	Δ	Ε	Ζ	Η	$\frac{1}{2}$	Θ	Ι	«	»
B_					†	Κ	Λ	Μ	Ν	‡		¶	‡	≡	Ο	γ
C_	ℒ	⊥	⊥	†	—	†	Π	Ρ	ℒ	ℒ	⊥	⊥	‡	=	‡	Σ
D_	Τ	Υ	Φ	Χ	Ψ	Ω	α	β	γ	⌋	⌈			δ	ε	
E_	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	ς	τ	´
F_	-	±	υ	φ	χ	§	ψ	,	°	¨	ω	ü	ÿ	ώ		NBSP

Code Page 12: CP853 (Turkish)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ç	ü	é	â	ä	à	â	ç	ê	ë	è	ï	î	ì	Ä	Ê
9_	É	ç	Ê	ô	ö	ò	û	ù	î	Ö	Ü	ô	£	Ê	×	ÿ
A_	á	í	ó	ú	ñ	Ñ	Ğ	ğ	Ê	ê		$\frac{1}{2}$	Ê	ş	«	»
B_					†	Á	Â	À	Ş	‡		¶	‡	Ž	ž	γ
C_	ℒ	⊥	⊥	†	—	†	Ŝ	ŝ	ℒ	ℒ	⊥	⊥	‡	=	‡	α
D_			Ê	Ë	È	ı	Í	Î	Ï	⌋	⌈				İ	
E_	Ó	β	Ô	Ò	Ğ	ğ	μ	℥	℥	Ú	Û	Ü	Û	ü	·	´
F_	-		ℓ	ñ	˘	§	÷	,	°	¨	·		3	2		NBSP

Code Page 13: CP857 (Turkish)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ı	Ä	Å
9_	É	æ	Æ	ô	ö	ò	û	ù	İ	Ö	Ü	ø	£	Ø	Ş	ş
A_	á	í	ó	ú	ñ	Ñ	Ğ	ğ	ı	®	¬	$\frac{1}{2}$	$\frac{1}{4}$	ı	«	»
B_					†	Á	Â	À	©	¶		¶	¶	¢	¥	¬
C_	Ł	⊥	⊥	†	—	†	ã	Ã	Ł	¶	⊥	¶	¶	=	¶	α
D_	o	a	Ê	Ë	È		Í	Î	Ï	Ɔ	Ɔ	■	■	ı	İ	■
E_	Ó	β	Ô	Ò	õ	Õ	μ		×	Ú	Û	Ù	ì	ÿ	—	‘
F_	-	±		$\frac{3}{4}$	¶	§	÷	,	°	¨	.	1	3	2	■	NBSP

Code Page 14: CP737 (Greek)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	A	B	Γ	Δ	E	Z	H	Θ	I	K	Λ	M	N	Ξ	O	Π
9_	P	Σ	T	Υ	Φ	X	Ψ	Ω	α	β	γ	δ	ε	ζ	η	θ
A_	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	ς	τ	υ	φ	χ	ψ
B_					†	‡	¶	¶	¶	¶	¶	¶	¶	¶	¶	¶
C_	Ł	⊥	⊥	†	—	†	‡	¶	Ł	¶	⊥	¶	¶	=	¶	⊥
D_	⊥	¶	¶	Ł	‡	¶	¶	¶	‡	¶	¶	■	■	■	■	■
E_	ω	ά	έ	ή	ϊ	ί	ό	ύ	ϋ	ώ	Α	Ε	Η	Ι	Ο	Υ
F_	Ω	±	≥	≤	İ	ÿ	÷	≈	°	•	·	√	n	2	■	NBSP

Code Page 15: ISO8859-7 (Greek)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_																
9_																
A_	<u>NBSP</u>	‘	’	£	€	Dp	¡	§	¨	©		«	¬	-		—
B_	°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	Ω
C_	ı	Α	Β	Γ	Δ	Ε	Ζ	Η	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο
D_	Π	Ρ		Σ	Τ	Υ	Φ	Χ	Ψ	Ω	Ϊ	Ϋ	ά	έ	ή	ί
E_	ϋ	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο
F_	π	ρ	ς	σ	τ	υ	φ	χ	ψ	ω	ϊ	ϋ	ό	ύ	ώ	

Code Page 16: WCP1252 (Windows Latin 1)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	€		,	f	„	...	†	‡	^	‰	Š	‹	Œ		Ž	ə
9_		‘	’	“	”	•	—	—	~	™	š	›	œ		ž	ÿ
A_	<u>NBSP</u>	ı	¢	£	¤	¥	¦	§	¨	©	ª	«	¬	-	®	¯
B_	°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿
C_	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
D_	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
E_	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F_	ð	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

Code Page 17: CP866 (Russian)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	A	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М	Н	О	П
9_	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я
A_	а	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
B_					┌	┐	└	┘	┌	┐	└	┘	┌	┐	└	┘
C_	L	└	┐	┌	─	├	┤	┥	┦	┧	┨	┩	┪	┫	┬	┴
D_	┼	┴	┼	┼	┼	┼	┼	┼	┼	┼	┼	■	■	■	■	■
E_	р	с	т	у	ф	х	ц	ч	ш	щ	ъ	ы	ь	э	ю	я
F_	Ё	ё	ё	ё	Ї	ї	Ў	ў	°	•	·	√	№	¤	■	NBSP

Code Page 18: CP852 (Slavonic)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ç	ű	é	â	ä	ű	ć	ç	ł	ë	Ő	ő	î	Ž	Ä	Ć
9_	É	Í	í	ô	ö	Ĺ	ĭ	Ś	ś	Ö	Ü	Ť	ť	Ł	χ	Č
A_	á	í	ó	ú	Ą	ą	Ž	ž	Ę	ę		ż	Č	ś	«	»
B_					┌	Á	Â	Ě	Š	└	┘	└	┘	ž	ž	└
C_	L	└	┐	┌	─	├	Ǻ	ǻ	Ł	┐	┘	└	┘	═	└	¤
D_	đ	Đ	Ǻ	Ǻ	ď	Ň	í	î	ě	└	┘	■	■	└	Ů	■
E_	Ó	ß	Ô	Ň	ň	ň	Š	š	Ř	Ú	ř	Ů	ý	Ý	ţ	´
F_	—	“	„	˘	˘	§	÷	„	°	“	·	ű	Ř	ř	■	NBSP

WP-K832 Panel Thermal Printer

Code Page 19: CP858 (Multilingual with Euro Symbol)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	ï	î	ì	Ä	Å
9_	É	æ	Æ	ô	ö	ò	û	ù	ÿ	Ö	Ü	ø	£	Ø	×	f
A_	á	í	ó	ú	ñ	Ñ	ä	ö	¿	®	¬	½	¼	¡	«	»
B_	⌘	⌘	⌘		⌞	Á	Â	À	©	⌚	⌚	⌚	⌚	¢	¥	⌞
C_	L	⊥	⊥	⊥	—	⊥	ã	Ã	ℓ	ℓ	ℓ	ℓ	ℓ	=	ℓ	α
D_	ǒ	Đ	Ê	Ë	È	€	Í	Î	Ï	⌞	⌞	■	■	!	!	■
E_	ó	β	ô	ò	õ	Õ	μ	þ	þ	Ú	Û	Ù	ý	Ý	—	'
F_	—	±	=	¾	¶	§	÷	,	°	¨	·	¹	³	²	■	NBSP

Code Page 20: KU42 (Thai)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	⌞	⌞	L	⌞		—	⊥	⊥	⊥	⊥	⊥	■	←	↑	→	↓
9_	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕
A_	NBSP	ก	ข	ค	ฅ	ง	จ	ฉ	ช	ซ	ฌ	ญ	ฎ	ฏ	ฐ	ฑ
B_	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ	ภ	ม
C_	ย	ร	ฤ	ล	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ะ	ภ	า	ำ
D_	เ	แ	โ	ใ	ไ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ	ๆ
E_	็	้	๊	๋	์	์	์	์	์	์	์	์	์	์	์	์
F_	์	์	์	์	์	์	์	์	์	์	์	์	์	์	์	NBSP

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Code Page 21: TIS11 (Thai)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕
9_	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑
A_	เ	ก	ข	ฃ	ค	ฅ	ง	ง	จ	ฉ	ช	ฌ	ฎ	ญ	ณ	น
B_	ฐ	ฑ	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C_	ภ	ม	ย	ร	ฤ	ล	ฬ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D_	ะ	ั	า	ำ	ิ	ี	ึ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ
E_	เ	แ	โ	ใ	ไ	า	า	า	า	า	า	า	า	า	า	า
F_	อ	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕

Code Page 22: TIS13 (Thai)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_		๐	๑	๒	๓		๖	๗	๘	๙		๐	๑	๒	๓	๔
9_	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑
A_	NBSP	ก	ข	ฃ	ค	ฅ	ง	ง	จ	ฉ	ช	ฌ	ฎ	ญ	ณ	น
B_	ฐ	ฑ	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C_	ภ	ม	ย	ร	ฤ	ล	ฬ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D_	ะ	ั	า	ำ	ิ	ี	ึ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ	ุ
E_	เ	แ	โ	ใ	ไ	า	า	า	า	า	า	า	า	า	า	า
F_	อ	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕

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Code Page 23: TIS14 (Thai)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	┐	┌	└	┘	┌	┐	┌	┐	┌	┐	┌	■	◌̇	◌̈́	◌̈́	◌̈́
9_	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́
A_	<u>NBSP</u>	ก	ข	ฃ	ค	ค	ฅ	ง	จ	ฉ	ช	ซ	ฌ	ญ	ฎ	ฏ
B_	ฐ	ฑ	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C_	ภ	ม	ย	ร	ฤ	ล	ฬ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D_	ะ	ั	า	ำ	ิ	ี	ึ	ุ				◌̈́	◌̈́	◌̈́	◌̈́	฿
E_	เ	แ	โ	ใ	ไ	า	ๆ	ฌ	◌̈́	◌̈́	◌̈́	+	◌̈́	◌̈́	◌̈́	๐
F_	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐๗	◌̈́	◌̈́	◌̈́	◌̈́	๙

Code Page 24: TIS16 (Thai)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	┐	┌	└	┘	┌	┐	┌	┐	┌	┐	┌	■	←	↑	→	↓
9_	โ	ใ	ะ	ั	ึ	ุ	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	◌̈́	เ
A_	<u>NBSP</u>	ก	ข	ฃ	ค	ค	ฅ	ง	จ	ฉ	ช	ซ	ฌ	ญ	ฎ	ฏ
B_	ฐ	ฑ	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C_	ภ	ม	ย	ร	ฤ	ล	ฬ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D_	ะ	ั	า	ำ	ิ	ี	ึ	ุ				◌̈́	◌̈́	◌̈́	◌̈́	฿
E_	เ	แ	◌̈́	◌̈́	◌̈́	า	ๆ	ฌ	◌̈́	◌̈́	◌̈́	+	◌̈́	◌̈́	ไ	๐
F_	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐๗	◌̈́	◌̈́	◌̈́	◌̈́	<u>NBSP</u>

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Code Page 25: TIS17 (Thai)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕
9_	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑
A_	<u>NBSP</u>	ก	ข	ฅ	ค	ฅ	ฅ	ง	จ	ฉ	ช	ฅ	ฅ	ฅ	ฅ	ฅ
B_	ฐ	ฑ	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C_	ภ	ม	ย	ร	ฤ	ล	ภ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D_	ะ	ั	า	ำ	ิ	ี	ึ	ุ				เ	อ	ั	เ	฿
E_	เ	แ	โ	ใ	ไ	า	ฯ									๐
F_	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕

Code Page 26: TIS18 (Thai)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕
9_	๖	๗	๘	๙	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑
A_	<u>NBSP</u>	ก	ข	ฅ	ค	ฅ	ฅ	ง	จ	ฉ	ช	ฅ	ฅ	ฅ	ฅ	ฅ
B_	ฐ	ฑ	ฒ	ณ	ด	ต	ถ	ท	ธ	น	บ	ป	ผ	ฝ	พ	ฟ
C_	ภ	ม	ย	ร	ฤ	ล	ภ	ว	ศ	ษ	ส	ห	ฬ	อ	ฮ	ฯ
D_	ะ	ั	า	ำ	ิ	ี	ึ	ุ				เ	อ	ั	เ	฿
E_	เ	แ	โ	ใ	ไ	า	ฯ									๐
F_	๐	๑	๒	๓	๔	๕	๖	๗	๘	๙	๐	๑	๒	๓	๔	<u>NBSP</u>

Code Page 30: TCVN-3A (Vietnamese)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_																
9_																
A_									ă	â	ê	ô	ơ	ư	đ	
B_						à	ả	ã	á	ạ		ằ	ẳ	ẵ	ắ	
C_							ặ	ầ	ẩ	ẫ	ấ	ậ	ề		ẻ	ẽ
D_	é	ẹ	ê	ể	ễ	ế	ệ	ì	ỉ				ĩ	í	ị	ò
E_		ỏ	õ	ó	ọ	ồ	ổ	ỗ	ố	ộ	ờ	ở	ỡ	ớ	ợ	ù
F_		ủ	ũ	ú	ụ	ừ	ử	ữ	ứ	ự	ỳ	ỷ	ỹ	ý	y	NBSP

Code Page 31: TCVN-3B (Vietnamese)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_																
9_																
A_		Ă	Â					Đ			Ê	Ô	Ơ	Ư		
B_						À	Ả	Ã	Á	Ạ		Ằ	Ẳ	Ẵ	Ắ	
C_							Ặ	Ầ	Ẩ	Ẫ	Ấ	Ậ	Ề		Ẻ	Ễ
D_	É	Ẹ	Ê	Ể	Ễ	Ế	Ệ	Ì	Ỉ				Ĩ	Í	Ị	Ò
E_		Ỏ	Õ	Ó	Ọ	Ồ	Ổ	Ỗ	Ố	Ộ	Ờ	Ở	Ỡ	Ớ	Ợ	Ù
F_		Ủ	Ũ	Ú	Ụ	Ừ	Ử	Ữ	Ứ	Ự	Ỡ	Ỡ	Ỡ	Ỡ	Ỡ	NBSP

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Code Page 32: CP720 (Arabic)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_			é	â		à		ç	ê	ë	è	ï	î			
9_		ّ	ّ	ô	ﺍ	-	û	ù	ء	آ	أ	ؤ	£	إ	ئ	ا
A_	ب	ة	ت	ث	ج	ح	خ	د	ذ	ر	ز	س	ش	ص	«	»
B_	ٲ	ٲ	ٲ													
C_	L	⊥	⊥	⊥	—	+	+	+	+	+	+	+	+	=	+	+
D_	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥	⊥
E_	ض	ط	ظ	ع	غ	ف	μ	ق	ك	ل	م	ن	ه	و	ى	ي
F_	≡	ّ	ّ	ّ	ّ	ّ	ّ	≈	°	.	.	√	n	2	■	NBSP

Code Page 33: CP775 (Baltic)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ć	ü	é	ā	ä	ġ	å	ć	ł	ē	Ŗ	ŗ	ī	Ž	Ä	Å
9_	É	æ	Æ	ō	ö	Ģ	ķ	Ś	ś	Ö	Ü	ø	£	Ø	×	Ⳑ
A_	Ā	Ī	ó	Ž	ž	ž	”		©	®	¬	$\frac{1}{2}$	$\frac{1}{4}$	Ł	«	»
B_	ٲ	ٲ	ٲ			A	Č	Ę	Ė						Š	
C_	L	⊥	⊥	⊥	—	+	U	U	⊥	⊥	⊥	⊥	⊥	=	⊥	Ž
D_	ą	č	ę	ė	į	š	ų	ū	ž	⊥	⊥	⊥	⊥	⊥	⊥	⊥
E_	Ó	β	Ō	Ń	õ	Õ	μ	ń	Ų	ķ	Ł	ı	ŋ	Ē	Ņ	'
F_	-	±	“	$\frac{3}{4}$	¶	§	÷	„	°	.	.	1	3	2	■	NBSP

Code Page 34: CP855 (Cyrillic)

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8_	ђ	Ђ	ѓ	Ѓ	ё	Ё	є	Є	ѕ	Ѕ	і	І	ї	Ї	ј	Ј
9_	љ	Љ	њ	Њ	ћ	Ћ	ќ	Ќ	ђ	Ђ	џ	Џ	ю	Ю	ъ	Ъ
A_	а	А	б	Б	ц	Ц	д	Д	е	Е	ф	Ф	г	Г	«	»
B_					┌	х	Х	и	И			┐	┐	й	Й	└
C_	┐	┐	┐	┐	—	┐	к	К	┐	┐	┐	┐	┐	┐	┐	а
D_	л	Л	м	М	н	Н	о	О	п	┐	┐			п	я	
E_	Я	р	Р	с	С	т	Т	у	У	ж	Ж	в	В	ь	Ь	№
F_	-	ы	Ы	з	З	ш	Ш	э	Э	щ	Щ	ч	Ч	§		NBSP

Code Page 35: CP861 (Iceland)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	Ç	ü	é	â	ä	à	å	ç	ê	ë	è	Ð	ð	Þ	Ä	Å
9_	É	æ	Æ	ô	ö	þ	û	Ý	ý	Ö	Ü	ø	£	Ø	Pt	f
A_	á	í	ó	ú	Á	Í	Ó	Ú	ı	┐	┐	$\frac{1}{2}$	$\frac{1}{4}$	ı	«	»
B_					┌	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐
C_	┐	┐	┐	┐	—	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐
D_	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐	┐					
E_	α	β	Γ	π	Σ	σ	μ	τ	φ	θ	Ω	δ	∞	Φ	ε	∩
F_	≡	±	≥	≤	┐	┐	÷	≈	°	●	•	√	n	²		NBSP

WP-K832 Panel Thermal Printer

Code Page 36: CP862 (Hebrew)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	א	ב	ג	ד	ה	ו	ז	ח	ט	י	ך	כ	ל	ם	נ	ן
9_	ס	ע	ף	פ	ץ	צ	ק	ר	ש	ת	ף	£	¥	₪	₪	₪
A_	á	í	ó	ú	ñ	Ñ	ä	ö	ı	ı	ı	½	¼	€	«	»
B_	⋯	⋯	⋯		├	┤	┥	┦	┧	┨	┩	┪	┫	┬	┭	┮
C_	⋮	⋮	⋮	└	┘	┙	┚	┛	├	┤	┥	┦	┧	┨	┩	┪
D_	⋮	⋮	⋮	└	┘	┙	┚	┛	├	┤	┥	┦	┧	┨	┩	┪
E_	α	β	Γ	π	Σ	σ	μ	τ	φ	Θ	Ω	δ	∞	Φ	ε	∩
F_	≡	±	≥	≤	∫	∫	÷	≈	°	•	•	√	n	²	■	NBSP

Code Page 37: CP864 (Arabic)

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8_	°	•	•	√	⋯	—		├	├	└	└	└	└	└	└	└
9_	β	∞	Φ	±	½	¼	≈	«	»	لا	لا			لا	لا	لا
A_		-	أ	£	¤	أ		€	أ	ب	ت	ث	،	ج	ح	خ
B_	•	١	٢	٣	٤	٥	٦	٧	٨	٩	ف	؛	س	ش	ص	؟
C_	¢	ء	آ	أ	ؤ	ع	ئ	ا	ب	ة	ت	ث	ج	ح	خ	د
D_	ذ	ر	ز	س	ش	ط	ظ	ط	ظ	ع	غ	أ	أ	÷	×	ع
E_	-	ف	ق	ك	ل	م	ن	ه	و	ى	ي	ض	ع	غ	غ	م
F_	ـ	ّ	ن	ه	ه	ى	ي	غ	ق	لا	لا	ل	ك	ي	■	NBSP

Code Page 38: CP869 (Greek)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_							À	€	·	¬	¡	‘	’	Έ	—	Ή
9_	ı	İ	Ο			Υ	Ÿ	©	Ω	²	³	ά	£	έ	ή	ί
A_	ï	ĩ	ó	ú	Α	Β	Γ	Δ	Ε	Ζ	Η	½	Θ	Ι	«	»
B_	▒	▒	▒		†	Κ	Λ	Μ	Ν	¶		¶	¶	≡	Ο	γ
C_	Ł	Ł	Τ	†	—	†	Π	Ρ	Ł	¶	Ł	¶	¶	=	¶	Σ
D_	Τ	Υ	Φ	Χ	Ψ	Ω	α	β	γ	Ј	Г	■	■	δ	ε	■
E_	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο	π	ρ	σ	ς	τ	’
F_	-	±	υ	φ	χ	§	ψ	ˆ	°	ˆ	ω	ü	ü	ώ	■	NBSP

Code Page 39: ISO8859-2 (Central European)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_	▒	▒	▒		†	Ј	Г	■	©	¶		¶	¶	¢	¥	γ
9_	Ł	Ł	Τ	†	—	†	■	■	Ł	¶	Ł	¶	¶	=	¶	®
A_	NBSP	À	˘	Ł	ˆ	Ĺ	Ś	§	ˆ	Š	Ş	Ť	Ž	-	Ž	Ž
B_	°	ą	ˆ	ł	ˆ	Ĳ	ś	˘	ˆ	š	ş	ť	ž	ˆ	ž	ž
C_	Ř	Á	Â	Ǻ	Ä	Í	Ć	Ç	Č	É	Ę	Ë	Ě	Í	Î	Ď
D_	Đ	Ń	Ň	Ó	Ô	Õ	Ö	×	Ř	Ů	Ú	Ů	Ü	Ý	Ť	ß
E_	ř	á	â	ǻ	ä	í	ć	ç	č	é	ę	ë	ě	í	î	ď
F_	đ	ń	ň	ó	ô	õ	ö	÷	ř	ů	ú	ů	ü	ý	ț	ˆ

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Code Page 40: ISO8859-15 (Latin 9)

	_0	_1	_2	_3	_4	_5	_6	_7	_8	_9	_A	_B	_C	_D	_E	_F
8_																
9_																
A_	<u>NBSP</u>	ı	¢	£	€	¥	Š	§	š	©		«	¬	-	®	—
B_	°	±	²	³	Ž	μ	¶	·	ž	¹	º	»	Œ	œ	ÿ	ı
C_	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	ì	í	î	ï
D_	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
E_	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
F_	ø	ñ	ò	ó	ô	õ	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

Code Page 41: CP1098 (Farsi)

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9_	و	ئ	ب	ب	پ	پ	ت	ت	ث	ث	ج	ج	چ	چ	×	ح
A_	ح	خ	خ	د	ذ	ر	ز	ژ	س	س	ش	ش	ص	ص	«	»
B_	۰	۱	۲	۳	۴	۵	۶	۷	۸	۹	۱۰	۱۱	۱۲	۱۳	۱۴	۱۵
C_	۱۶	۱۷	۱۸	۱۹	۲۰	۲۱	۲۲	۲۳	۲۴	۲۵	۲۶	۲۷	۲۸	۲۹	۳۰	۳۱
D_	۳۲	۳۳	۳۴	۳۵	۳۶	۳۷	۳۸	۳۹	۴۰	۴۱	۴۲	۴۳	۴۴	۴۵	۴۶	۴۷
E_	۴۸	۴۹	۵۰	۵۱	۵۲	۵۳	۵۴	۵۵	۵۶	۵۷	۵۸	۵۹	۶۰	۶۱	۶۲	۶۳
F_	۶۴	۶۵	۶۶	۶۷	۶۸	۶۹	۷۰	۷۱	۷۲	۷۳	۷۴	۷۵	۷۶	۷۷	۷۸	۷۹

Code Page 42: CP1118 (Lithuanian)

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9_	É	æ	Æ	ô	ö	ò	û	ù	ÿ	Ö	Ü	¢	£	¥	Pt	f
A_	á	í	ó	ú	ñ	Ñ	ª	º	¿	¬	¬	$\frac{1}{2}$	$\frac{1}{4}$	¡	«	»
B_					†	À	Č	£	È	¶		¶	¶	‡	Š	‡
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D_	ą	č	ę	è	ì	š	ų	ū	ž	Ł	Ł	■	■	■	■	■
E_	α	β	Γ	π	Σ	σ	μ	τ	Φ	Θ	Ω	δ	∞	φ	ε	∩
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Code Page 43: CP1119 (Lithuanian)

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9_	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я
A_	a	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
B_					†	À	Č	£	È	¶		¶	¶	‡	Š	‡
C_	L	⊥	⊥	†	—	†	Ų	Ū	Ł	Ł	Ł	Ł	Ł	Ł	Ł	Ž
D_	ą	č	ę	è	ì	š	ų	ū	ž	Ł	Ł	■	■	■	■	■
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WP-K832 Panel Thermal Printer

Code Page 44: CP1125 (Ukrainian)

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9_	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я
A_	а	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
B_					┌	┐	└	┘	┌	┐	└	┘	┌	┐	└	┘
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D_	⌒	⌑	⌒	┌	┐	└	┘	┌	┐	└	┘	┌	┐	└	┘	┌
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Code Page 45: WCP1250 (Central European)

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Code Page 46: WCP1251 (Cyrillic)

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E_	а	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
F_	р	с	т	у	ф	х	ц	ч	ш	щ	ъ	ы	ь	э	ю	я

Code Page 47: WCP1253 (Greek)

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C_	ϊ	Α	Β	Γ	Δ	Ε	Ζ	Η	Θ	Ι	Κ	Λ	Μ	Ν	Ξ	Ο
D_	Π	Ρ		Σ	Τ	Υ	Φ	Χ	Ψ	Ω	Ϊ	Ϋ	ά	έ	ή	ί
E_	ϋ	α	β	γ	δ	ε	ζ	η	θ	ι	κ	λ	μ	ν	ξ	ο
F_	π	ρ	ς	σ	τ	υ	φ	χ	ψ	ω	ϊ	ϋ	ό	ύ	ώ	

Code Page 48: WCP1254 (Turkish)

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Code Page 49: WCP1255 (Hebrew)

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Code Page 50: WCP1256 (Arabic)

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Code Page 51: WCP1257 (Baltic)

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Code Page 52: WCP1258 (Vietnamese)

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Code Page 53: KZ1048 (Kazakhstan)

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B_	°	±	І	і	ө	µ	¶	·	ё	№	ғ	»	ө	Ғ	ң	ү
C_	А	Б	В	Г	Д	Е	Ж	З	И	Й	К	Л	М	Н	О	П
D_	Р	С	Т	У	Ф	Х	Ц	Ч	Ш	Щ	Ъ	Ы	Ь	Э	Ю	Я
E_	а	б	в	г	д	е	ж	з	и	й	к	л	м	н	о	п
F_	р	с	т	у	ф	х	ц	ч	ш	щ	ъ	ы	ь	э	ю	я