

All specifications are subject to change without notice



RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTURECITONS



Disposal of Old Electrical&Electronic Equipment(Applicable in the European Union and other European countries with separate collection systems)

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronics equipment. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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## 1. Safety Caution

For higher reliability and safety, consider the following precautionary measures. Read and follow the instructions carefully before running of the product.

## Indication



Prohibition



Must follow



Do not disassemble



Unplug the power from the outlet



Grounding to prevent electric shock



Do not handle the product with wet hands



#### WARNING

Failure to follow these instructions could result in fire, electric shock, or other injuries, or property damage

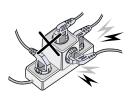




Do not pull or touch the power plug with wet hands.

(Potential risk of electric shock or fire)





Do not bend the wire and do not allow the wire to be pressed by heavy object. (Potential risk of electric shock or fire)





Do not overload the power plug into one outlet.

(Potential risk of electric shock or fire)





If a power plug is broken or a plug is cut or worn, do not use it.

(Potential risk of electric shock or fire)

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## **WARNING**

Failure to follow these instructions could result in fire, electric shock, or other injuries, or property damage





Do not pull out the power plug to turn off the product.

(Turn off the power at installation, transportation, wiring and inspection.)



Do not disassemble, repair or modify the product.

(Potential risk unit malfunction, electric shock or fire. When the product needs to be repaired, please contact in place where you ordered.inspection.)



## **WARNING**

Failure to follow these instructions could result in fire, electric shock, or other injuries, or property damage



Do not install the product in uneven or inclined surface.

(You may get hurt and it can be broken when it falls)



If the product that needs to be repaired, please contact in place where you ordered

(Potential risk of fire or unit malfunction)



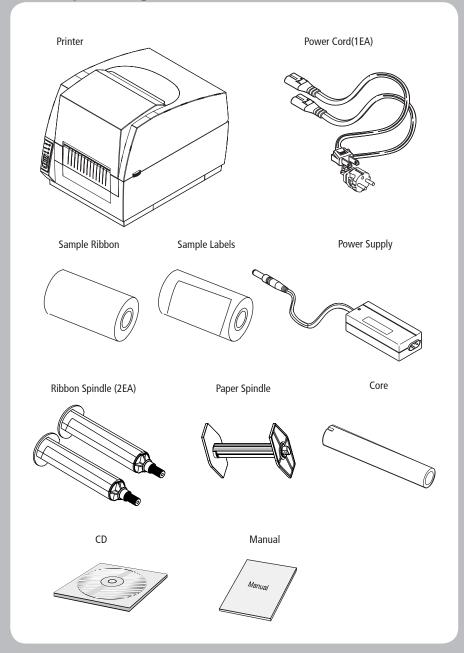
Keep product away from the water and other material.

(Potential risk of discoloration or electric shock)

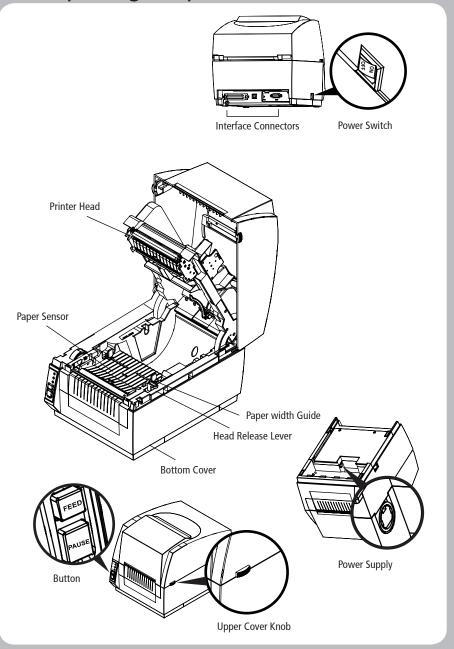


Please do not give excessive shock. (Potential risk of fire or unit malfunction)

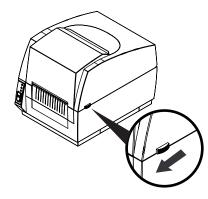
# 2. Unpacking



# 3. Inspecting the printer



## Opening the printer

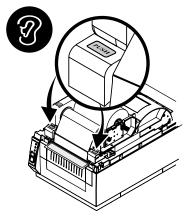


Open the upper cover by pushing the knob in the direction of the arrow

# Caution

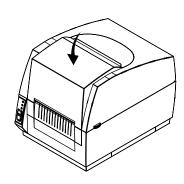
Make sure to be careful of the HOT head

## Closing the paper upper guide



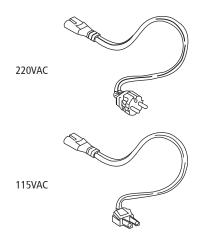
Make sure you hear the closing sound of the paper upper guide.

## Closing the upper cover

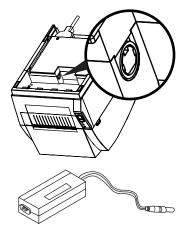


Close the upper cover and make sure you hear the closing sound of the upper cover.

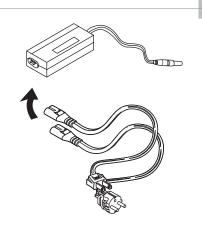
# 4. Attaching Power Supply



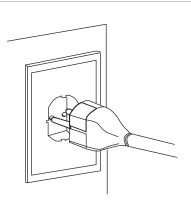
Check the specification of the AC power cord if it is correct with your power system



Turn off the power of the printer and connect the power supply to the printer



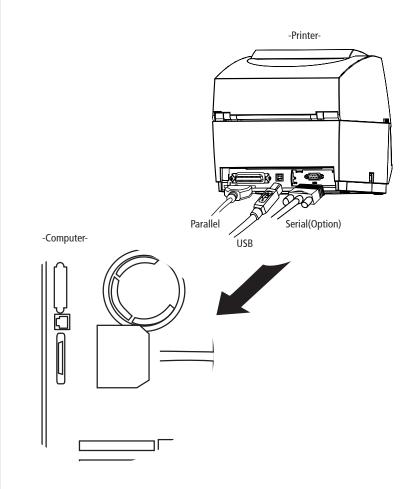
Connect the AC power cord to the power supply



Insert a plug into the outlet

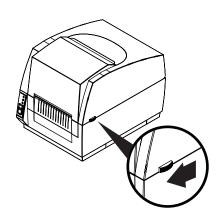
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# 5. Hooking Up the printer and computer

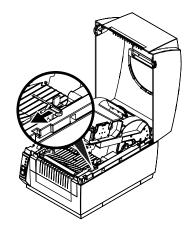


Make sure the printer is turned off then connect the printer to the PC

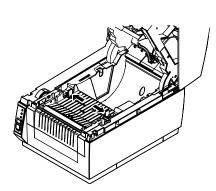
# 6. Loading the Paper



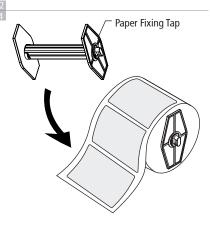
Turn off the printer and open the upper cover by pushing the in the direction of the arrow.



Rise up the paper upper guide by pulling the head release lever

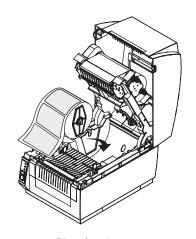


Open the paper width guide by pushing it to the right & left sides.

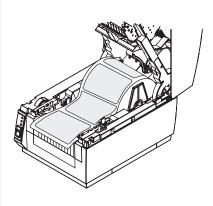


Pull out one of the adjustable width tabs.
Insert a paper roll replace the tab and center.

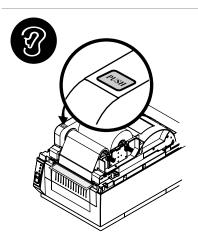
# 7. Loading Ribbon



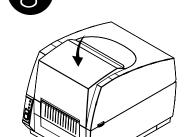
Insert paper roll into the printer



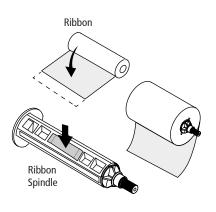
Adjust the paper width guide to meet the paper width



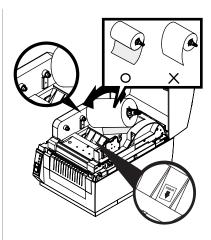
Make sure you hear the closing sound of the paper upper guide.



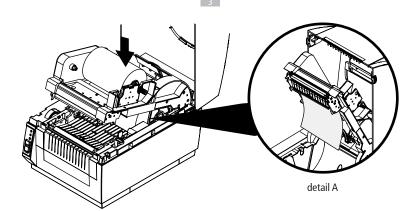
Close the upper cover and make sure you hear the closing sound of the upper cover.



Remove the vinyl covering on the ribbon. Depress the indicated button on the ribbon spindle while inserting the ribbon roll.



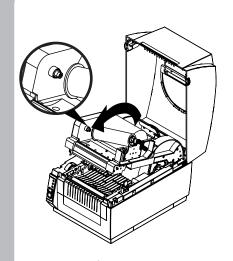
Insert one side of the ribbon spindle



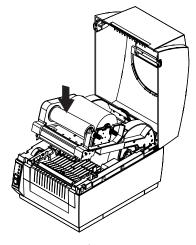
Push the other side of the ribbon spindle down to secure it.

Pull out the ribbon edge through ribbon mechanism as shown in the picture

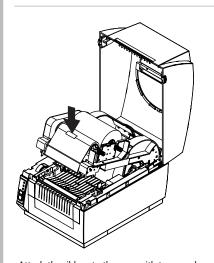
## 8. Self Test



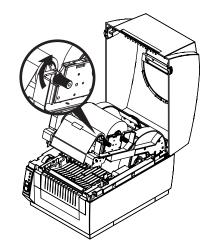
Insert one side of the ribbon spindle



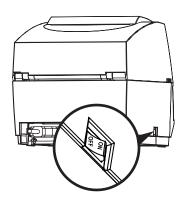
Push the other side of the ribbon spindle down to secure it.



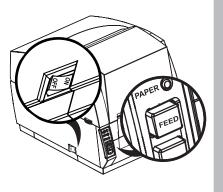
Attach the ribbon to the core with tape as shown.



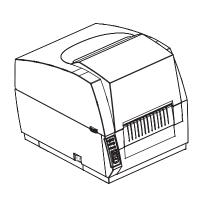
Turn the adjustment knob in the arrow direction to tighten the ribbon.



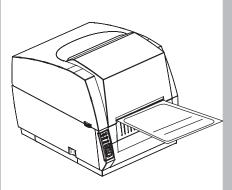
Turn off the printer



While holding down the feed button, turn on the printer

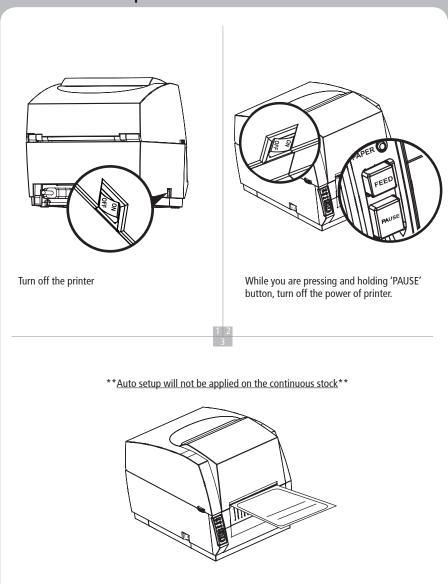


Set free the feed button



The printer starts printing some basic information

# 9. Auto setup for label size

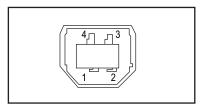


Printer sensor detects the size of the label, issuing the blank label

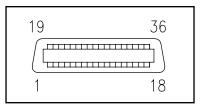
## 10. Interface

Interface Connectors

#### Standard

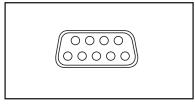


<USB "B"Type>

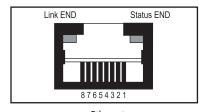


<Centronics Parallel>

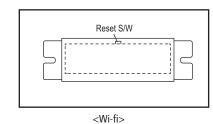
## Option



<9 Pin Serial>



<Ethernet>



#### 9Pin Serial Interface

Pin	Signal	1/0	Description
3	RXD	Input	Printer receive data line RS-232C level
2	TXD	Output	Printer transmit data line RS-232C level
6,8	DTR	Output	Printer handshake to host line RS-232C level
5	GND	-	System Ground
4	DSR	Input	Data Send Ready
1,7,9	NC	-	

#### Centronics Parallel Interface

Pin	Signal	1/0	Description
1	STROBE-	Input	Synchronize signal Data received
2~9	DATA0~7	Input/Output	Data bit Transmitted 0~7
10	ACK-	Output	Data receiving completed.
11	BUSY	Output	Impossible to print of data receiving.
12	PE	Output	Paper empty
13	SELECT	Output	Printer status for ON/OFF line
14	AUTO FEED-	Input	Paper auto feed signal
15	GROUND	-	System ground
16	GROUND	-	System ground
17	NC	-	
18	LOGIC-H	-	+5V
19~30	GROUND	-	System ground
31	INIT-	Input	Initialize
32	ERROR-	Output	Printer error
33	GROUND	-	System ground
34	NC	-	
35	+5V	-	+5V
36	SELLECT IN-	Input	Printer select signal

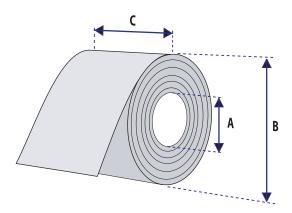
#### USB Interface

Pin	Signal	1/0	Description
1	+5V	-	+5V
2	DATA-	-	Printer transmit data line
3	DATA+	-	Printer transmit data line
4	GND	-	System Ground

#### **Ethernet Interface**

Pin	Signal	1/0
1	Data Out +	Output Data +
2	Data Out -	Output Data -
3	GND	Ground
4	Data IN +	Input Data +
5	Data IN -	Input Data -
6	N.C	
7	N.C	
8	N.C	

## 11. Media Roll Size



Core				
Diameter(A)	ameter(A) 25.4 or 38.1 mm (1.0 or 1.5 inches)			
Max. width	118 mm	(4.65inches)		
Roll				
Max.diameter(B)	125 mm	(5 inches)		
Max.media width(C)	118 mm	(4.65 inches)		
Min.media width(C)	18 mm	(0.7 inches)		
Max.media thickness	0.15 mm	(0.006 inches)		
Min.mdeia thickness 0.06 mm (0.003 inches)		(0.003 inches)		

All types of media should normally be wound with the printable side facing outwards and unroll from the top of the roll.

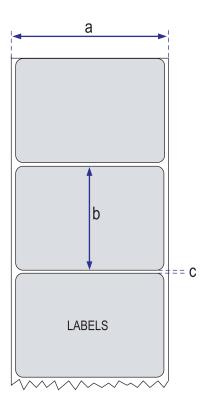
However tags and continuous strip can optionally be wound with the printable sidefacing inwards and unroll from the bottom of the roll as long as they are not used for cut-off operation.



Protect the media against sand, grit, and other hard particles during printing and storage. Keep the cover closed. Even very small foreign particles may cause severe harm to the delicate printhead.

# 12. Labels

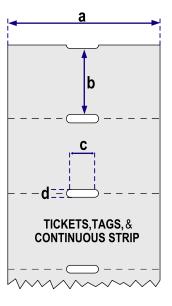
< a> Media width (inch, liner)				
Maximum	118.0 mm	(4.65 inches)		
Minimum	18 mm	(0.7 inches)		
< b> Label length	< b> Label length			
Minimum	Minimum 10 mm (0.39 inches)			
< c> Label gap height	< c> Label gap height			
Maximum	10 mm (0.39 inches)			
Minimum	2 mm	(0.08 inches)		
Liner				
Opacity	75%			



# 13. Tags and Strip with Slots

< a> Tag or strip width			
Maximum	118.0 mm	(4.65 inches)	
Minimum	18 mm	(0.7 inches)	
< b> Tag length			
Minimum	10 mm	(0.39 inches)	
< c> Detection slot width			
Minimum	14 mm	(0.55 inches)	
< d> Detection slot height			
Maximum 10 mm (0.39 inches)		(0.39 inches)	
Minimum	2 mm	(0.08 inches)	

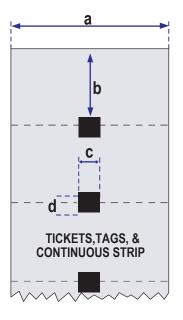
The label gap sensor is offset 4.5 mm(0.177 inches) to the right of the center fo the media path.



## 14. Tags and Strip with Black Marks

< a> Tag or strip width			
Maximum	118.0 mm	(4.65 inches)	
Minimum	18 mm	(0.7 inches)	
< b> Tag length			
Minimum	10 mm	(0.39 inches)	
< c> Black mark width			
Minimum	14 mm	(0.55 inches)	
< d> Black mark height			
Maximum	10 mm	(0.39 inches)	
Minimum	3 mm	(0.12 inches)	

The black mark sensor is offset 10 mm (0.394 inches) to the right of the center of the media path. Max. reflectance 5% at 940 nanometer. Carbon black.



## 15. Plain Continuous Stock

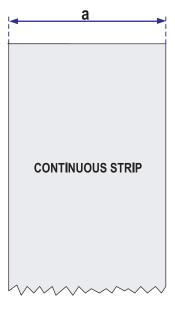
The printer can use continuous stock without any detection slots or black marks.

The printer must be set for continuous stock by the Q command.

The length of each copy is decided by the size of the print image and any additional media feed is decided by the Q command.

Continuous stock cannot be used in the Test (Dump) Mode.

< a> Tag or strip width			
Maximum	118.0 mm	(4.65 inches)	
Minimum	18 mm	(0.7 inches)	



# 16. Specifications

Ρı	rod	uct	ςn	ecif	icati	ions
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Product Specification	15			
Print method		Thermal Transfer and Direct Thermal		
Print speed(max)		152mm/sec		
Print width(max)		104mm (4.1")		
Print length(max)		630mm (24.8")		
Resolution		203dpi, 8 dots/mm		
Paper Width(min~max	ζ)	18mm ~118 mm (0.7" ~ 4.64")		
Paper roll size(max)		127mm (5.0")		
Paper thickness		0.06~0.18mm		
Paper Type		Label , Tag, Continuous, Fanfold		
Paper sensor		Label gap, Notch, Black Mark		
Ribbon width(outside	diameter)	33mm to 110mm (1.3~4.3")		
Ribbon length		300M, Ø 64 mm (2.5")		
Interface	Standard	Serial(RS-232C), Parallel(IEEE-1284)		
	Option	USB, Ethernet, Wireless Lan 802.11b		
Memory	Standard	8MB SDRAM, 1.5MB Flash		
	Option	8MB Flash		
Serial baud rate		115200bps		
Auto Cutter (Option)	Life	0.06~0.15mm: 500,000 cuts / 0.15~0.18:300,000 cu		
	Туре	Guillotine		
Peeler		Option		
Programming Langua	ge	EPL    (Eltron Programming language)		
Barcode	1D	Code39, Code128 with subsets A/B/C, Code		
		Interleaved 2 of 5, UPC-A and UPC-E with 2		
		EAN-8 and EAN-13 with 2 or 5 Digit Extens		
		Postnet, Plessey, German Post Code, MS		
	2D	MaxiCode, PDF417, DATAMATRIX, QR CO		
Font Specification		6bitmapped 8x12, 10x16, 12x20, 14x24,32x48, 24x24(KSC5601)		
Weight		7.9lbs (3.6kg)		
Size (W x D x H)		215x287x231		

## Certification

- (1) FCC PART15 CLASS A
- (2) CE EMCD (CE-EMCD Class B should use Parallel shield Cable complied with IEEE-1284 standards)
- (3) UL/cUL (UL 60950-1)
- (4) MIC CLASS A
- (5) RoHS (TUV)
- (6) CCC

#### **Electrical Characteristics**

(1) Input Voltage DC 24V ± 10%

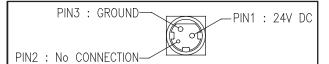
(2) Current Consumption

Operating: Approx. 1.5 A (at ASC || printing)

Peak : Approx. 10 A

(at print duty 100%, For 10 seconds or less) Stand-by: Approx. 0.15 A

(3) Power Connector



# 17. Command List

No.	Command	Description
1	Α	ASC    Text
2	AUTOFR	Automatic Form Printing
3	В	Bar Code
4	В	RSS-14 Bar Code
5	b	Data Matrix
		MaxiCode
6	С	PDF417
7	С	Counter Cut Immediate
8	D	
9	El	Density Print Soft Font Info.
	EK	Delete Soft Font
<u>10</u> 11	eR	User Definable Error Response
12	ES	Store Soft Font
13	f	Cut/Peel Position
14	FE	End Form Store
15	FI	Print Form Info.
16	FK	Delete Form
17	FR	Retrieve Form
18	FS	Store Form
19	GG	Retrieve Graphics
20	GI	Print Graphics Info.
20	GK	Delete Graphic
22	GM	Store Graphic
23	GW	Direct Graphic Write
24	I	Character Set Selection
25	JB	Disable Top Of Form Backup
26	JC	Disable Top Of Form Backup —All Cases
27	JF	Enable Top Of Form Backup
28	LE	Line Draw Exclusive OR
29	LO	Line Draw Black
30	LS	Line Draw Diagonal
31	LW	Line Draw White
32	M	Memory Allocation
33	N	Clear Image Buffer
34	0	Cancel Customized Settings
35	оВ	Cancel Customize Bar Code
36	оЕ	Line Mode Font Substitution
37	oH	Macro PDF Offset
38	oM	Disable Initial Esc Sequence Feed
39	oR	Character Substitution(Euro)
40	oW	Customize Bar Code Parameters
40	UVV	Custoffize bar code rafaffieters

Accordance   Description   Description	No	Command	Description
42 OEPL1 Set Line Mode  43 P Print  44 PA Print Automatic  5 Set Form Length  Transmissive(Gap)Sensor  Black Line Sensor  Continuous Stock  46 q Set Form Width  47 r Set Double Buffer Mode  48 R Set Reference Point  49 S Speed Select  50 TD Define Date Layout(& Print Date)  51 TS Set Real Time Clock  52 TT Define Time Layout(& Print Time)  53 U Print Configuration  54 UA Enable Clear Label Counter Mode  55 UB Reset Label Counter Mode  56 UE External Font Information Inquiry  57 UF Form Information Inquiry  59 UI Host Prompts/Codepage Inquiry  60 UM Codepage& Memory Inquiry  61 UN Disable Error Reporting  62 UP Codepage& Memory Inquiry/Print  63 UQ Configuration Inquiry  64 US Enable Error Reporting  65 V Define Variable  66 W Windows Mode  67 xa Sense Media  68 X Box Draw  69 Y Serial Port Setup  70 Z Print Direction  71 ? Download Variables  72 ^@ Reset Printer  73 ^default Set Printer to Factory Defaults	No.		Description Options Colors
43 P Print 44 PA Print Automatic 45 Q Set Form Length Transmissive(Gap)Sensor Black Line Sensor Continuous Stock 46 q Set Form Width 47 r Set Double Buffer Mode 48 R Set Reference Point 49 S Speed Select 50 TD Define Date Layout(& Print Date) 51 TS Set Real Time Clock 52 TT Define Time Layout(& Print Time) 53 U Print Configuration 54 UA Enable Clear Label Counter Mode 55 UB Reset Label Counter Mode 56 UE External Font Information Inquiry 57 UF Form Information Inquiry 58 UG Graphic Information Inquiry 59 UI Host Prompts/Codepage Inquiry 60 UM Codepage& Memory Inquiry 61 UN Disable Error Reporting 62 UP Codepage& Memory Inquiry/Print 63 UQ Configuration Inquiry 64 US Enable Error Reporting 65 V Define Variable 66 W Windows Mode 67 xa Sense Media 68 X Box Draw 69 Y Serial Port Setup 70 Z Print Direction 71 ? Download Variables 72 ^@ Reset Printer 73 ^default Set Printer to Factory Defaults		-	
44 PA Print Automatic 45 Q Set Form Length Transmissive(Gap)Sensor Black Line Sensor Continuous Stock 46 q Set Form Width 47 r Set Double Buffer Mode 48 R Set Reference Point 49 S Speed Select 50 TD Define Date Layout(& Print Date) 51 TS Set Real Time Clock 52 TT Define Time Layout(& Print Time) 53 U Print Configuration 54 UA Enable Clear Label Counter Mode 55 UB Reset Label Counter Mode 56 UE External Fort Information Inquiry 57 UF Form Information Inquiry 58 UG Graphic Information Inquiry 59 UI Host Prompts/Codepage Inquiry 60 UM Codepage& Memory Inquiry 61 UN Disable Error Reporting 62 UP Codepage& Memory Inquiry/Print 63 UQ Configuration Inquiry 64 US Enable Error Reporting 65 V Define Variable 66 W Windows Mode 67 xa Sense Media 68 X Box Draw 69 Y Serial Port Setup 70 Z Print Direction 71 ? Download Variables 72 ∧ ② Reset Printer 73 ∧ default Set Printer to Factory Defaults			
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