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MODEL : LK-B40
4" DESKTOP LABEL PRINTER

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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.

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

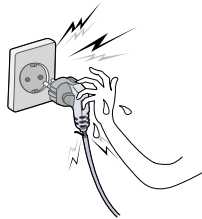


Do not handle the product with wet hands

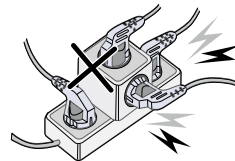


WARNING

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



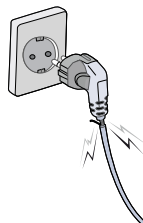
Do not pull or touch the power plug with wet hands.
(Potential risk of electric shock or fire)



Do not overload the power plug into one outlet.
(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)

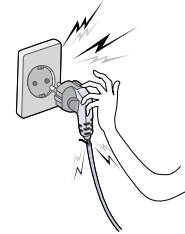


If a power plug is broken or a plug is cut or worn, do not use it.
(Potential risk of electric shock or fire)

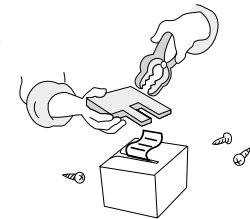


WARNING

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.)

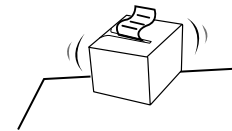


Do not disassemble, repair or modify the product.
(Potential risk unit malfunction, electric shock or fire. When the product needs to be repaired, please contact in place where you ordered.inspection.)



WARNING

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



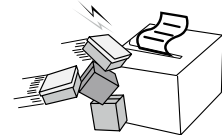
Do not install the product in uneven or inclined surface.
(You may get hurt and it can be broken when it falls)



Keep product away from the water and other material.
(Potential risk of discoloration or electric shock)



If the product that needs to be repaired, please contact in place where you ordered.
(Potential risk of fire or unit malfunction)

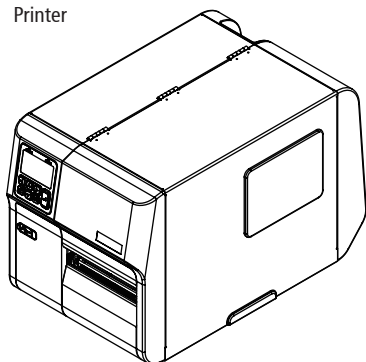


Please do not give excessive shock.
(Potential risk of fire or unit malfunction)

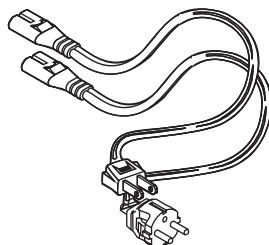
2. Unpacking

Standard

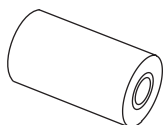
Printer



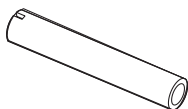
Power Cord(1EA)



Label



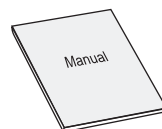
Ribbon Core



CD
(User's Manual)

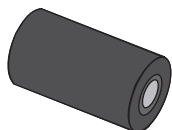


Quick Manual

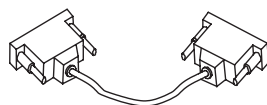


Optional

Ribbon

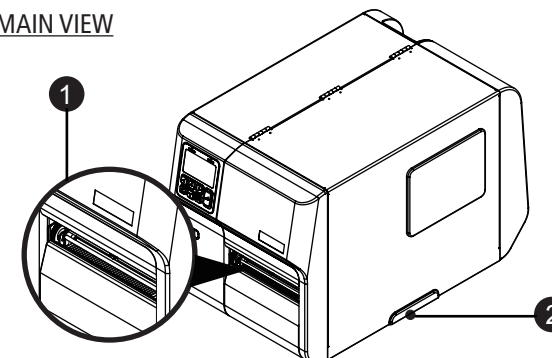


Interface cable

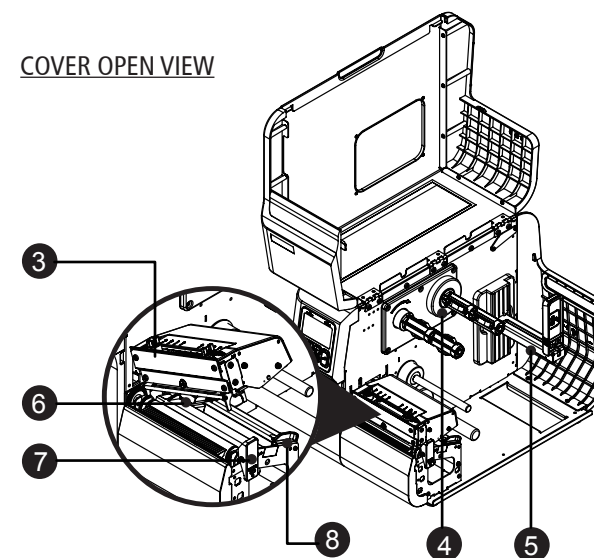


3. Inspecting the printer

MAIN VIEW



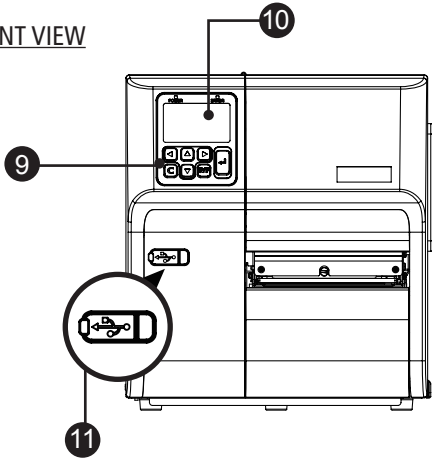
COVER OPEN VIEW



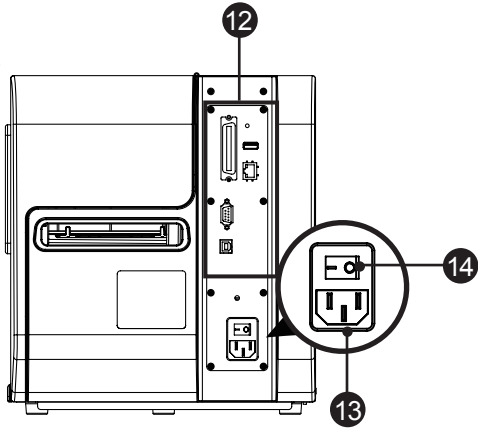
No.	Designation
1	Paper Exit
2	Door Handle
3	Head ASS'
4	Ribbon Spindle
5	Paper Holder
6	Paper Sensor
7	Print Head Release Lever
8	Paper width Guide

4. Hooking Up the printer and computer

FRONT VIEW

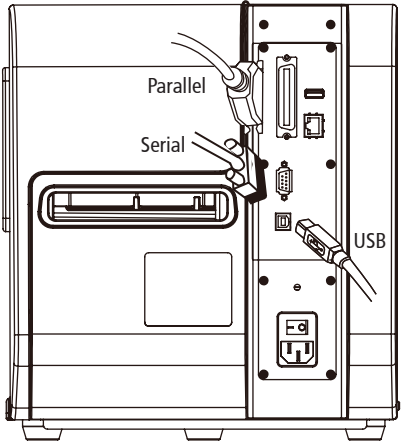


REAR VIEW



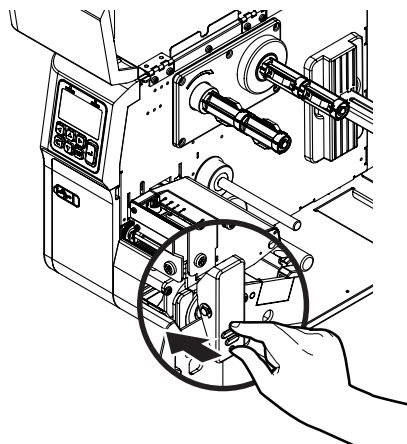
No.	Designation
9	Control Button
10	Display LCD
11	USB Host
12	Interface Connectors
13	Power Cord Connectors
14	Power Switch

-PRINTER REAR VIEW-

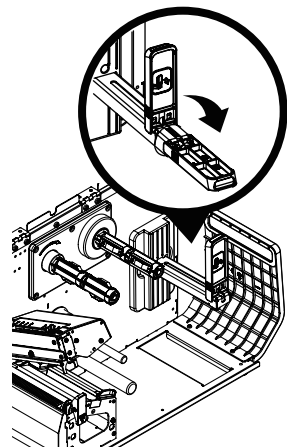


Make sure the printer is turned off then connect the printer to the PC

5. Load Label Paper

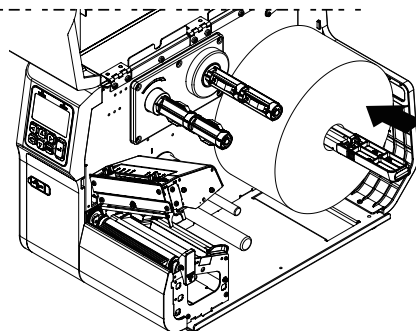


OPEN THE HEAD ASS'Y BY PUSHING THE LEVER.

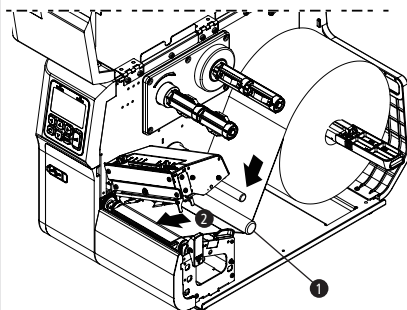


FLIP DOWN THE PAPER HOLDER GUIDE.

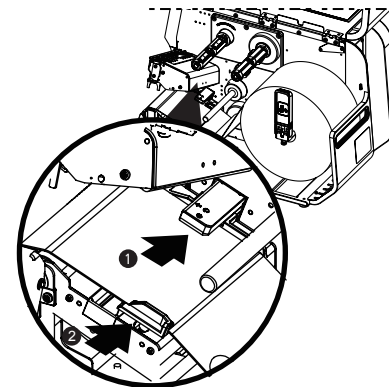
1 2
3 4



PLACE THE ROLL OF PAPER ON THE PAPER HOLDER.



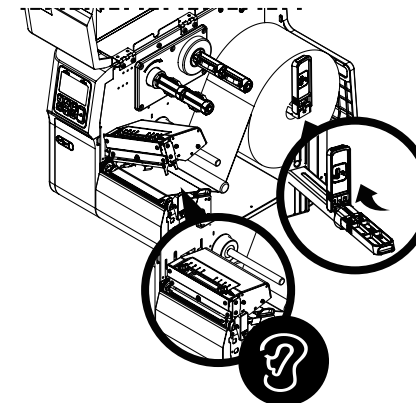
1. SLIDE THE PAPER UNDER THE PAPER SHAFT.



1. SLIDE THE PAPER INTO THE PAPER SENSOR.
2. ADJUST THE PAPER GUIDE PROPERLY TO FIT THE PAPER WIDTH.

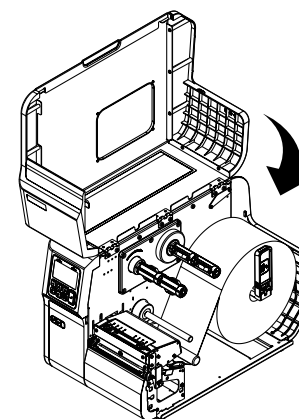
CAUTION: IF YOU ADJUST PAPER GUIDE NARROWER THAN THE PAPER WIDTH, IT MAY CAUSE PRINTING PROBLEMS

5 6
7 8

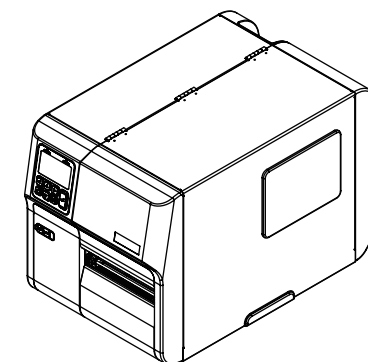


AFTER ADJUSTING THE PAPER GUIDE, FLIP UP PAPER HOLDER GUIDE.

PULL THE PAPER TO THE HEAD ASS'Y AND CLOSE THE HEAD ASS'Y.
(MAKE SURE TO CHECK THE CLOSING SOUND)

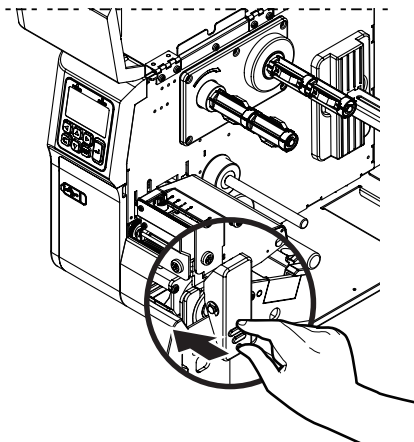


LOWER THE PRINTER COVER TO THE DIRECTION OF THE ARROW AS SHOWN IN THE PICTURE.

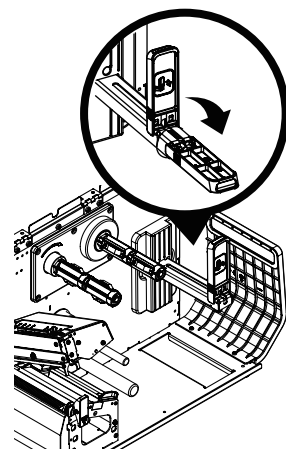


CLOSE THE PRINTER COVER TO THE END SLOWLY.

6. Pen folder Paper

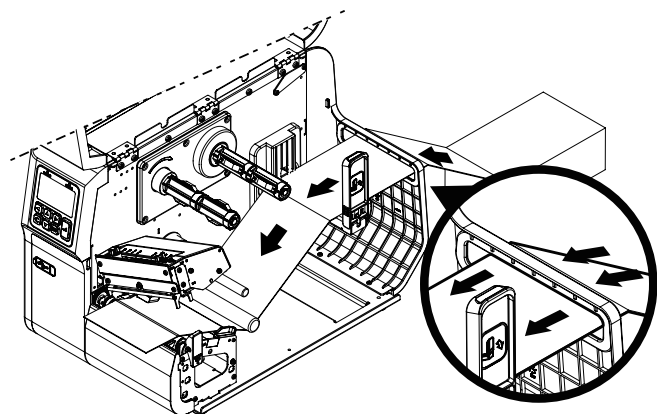


OPEN THE HEAD ASS'Y BY PUSHING THE LEVER.

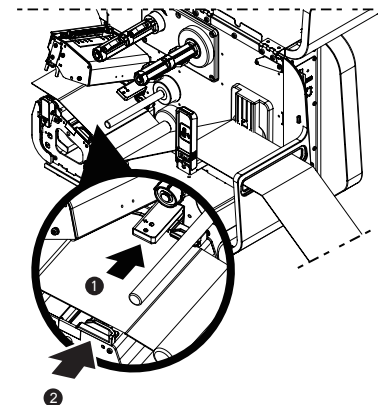


FLIP DOWN THE PAPER HOLDER GUIDE.

1 2
3



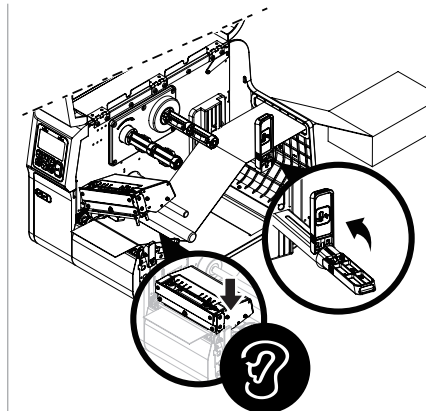
INSERT THE PAPER INTO THE PAPER ACCESS SLOT AT THE REAR OF THE PRINTER. SLIDE THE PAPER UNDER THE PAPER SHAFT.



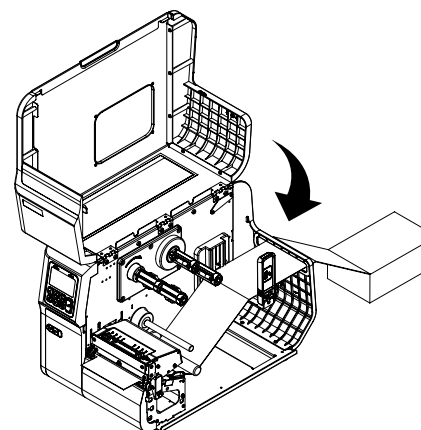
1. SLIDE THE PAPER THROUGH THE PAPER SENSOR.
2. ADJUST THE PAPER GUIDE PROPERLY TO FIT THE PAPER WIDTH.

CAUTION: IF YOU ADJUST PAPER GUIDE NARROWER THAN THE PAPER WIDTH, IT MAY CAUSE PRINTING PROBLEMS.

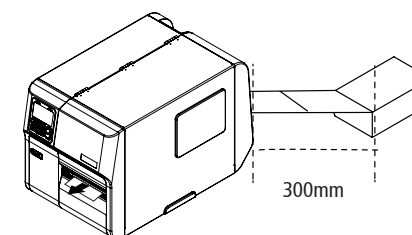
4 5
6 7



AFTER ADJUSTING THE PAPER GUIDE, PUT THE PAPER HOLDER GUIDE UP. PULL THE PAPER TO THE HEAD ASS'Y AND CLOSE THE HEAD ASS'Y. (MAKE SURE TO CHECK THE CLOSING SOUND)



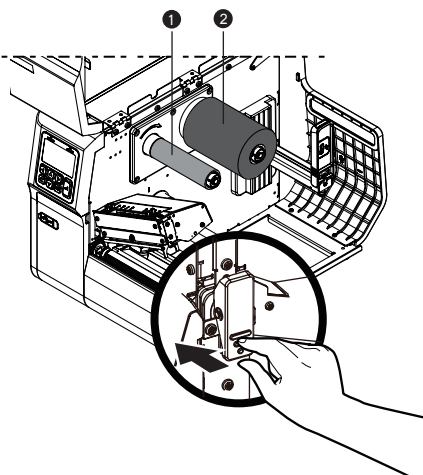
LOWER THE PRINTER COVER TO THE DIRECTION OF THE ARROW AS SHOWN IN THE PICTURE.



CLOSE THE PRINTER COVER TO THE END SLOWLY.

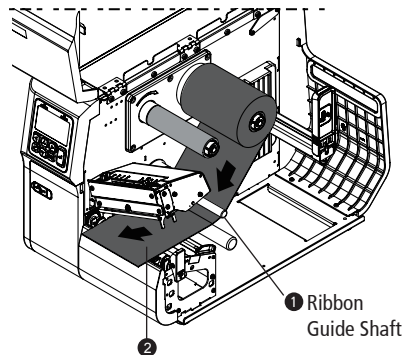
NOTE PLACE THE PAPER AT LEAST THE DOUBLE OF THE PAPER LENGTH(300MM) DISTANCE AWAY FROM THE PRINTER.

7. Load Ribbon

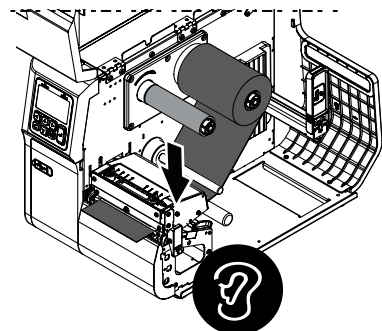


OPEN THE HEAD ASS'Y
BY PUSHING THE LEVER.

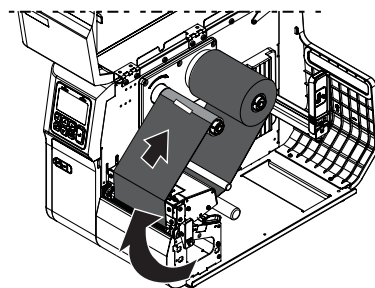
1. PLACE RIBBON CORE ON THE HOLDER(1)
2. PLACE THE RIBBON ON THE RIBBON SUPPLY SPINDLE(2)



1. SLIDE THE RIBBON UNDER THE RIBBON GUIDE SHAFT.
2. PULL THE RIBBON TO THE FRONT OF THE HEAD ASS'Y.



PRESS THE PUSH BUTTON ON TOP OF THE HEAD ASS'Y AND LOWER THE HEAD ASS'Y UNTIL IT LOCKS. MAKE SURE TO CHECK THE CLOSING SOUND.

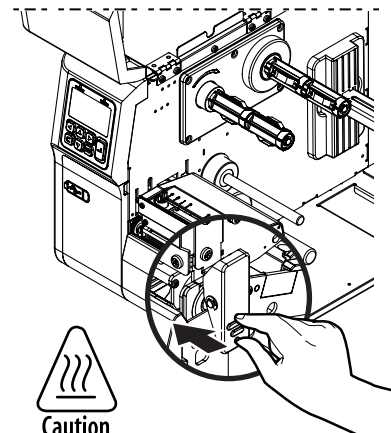


PLACE THE RIBBON AS SHOWN IN THE PICTURE AND FIX ON THE RIBBON CORE BY TAPING.

✓ CHECK

PRESS THE FEED BUTTON TO REMOVE RIBBON WRINKLE

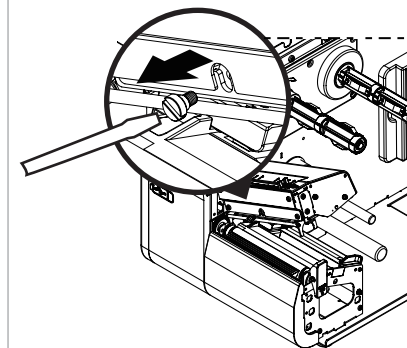
8. Replace HEAD



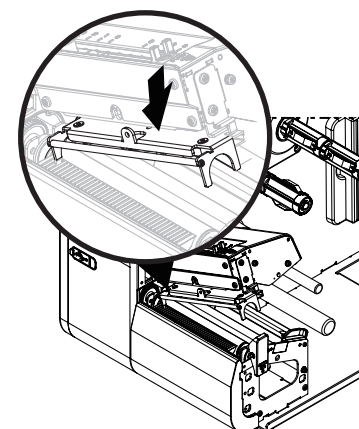
Caution

OPEN THE HEAD ASS'Y BY PUSHING THE BUTTON.

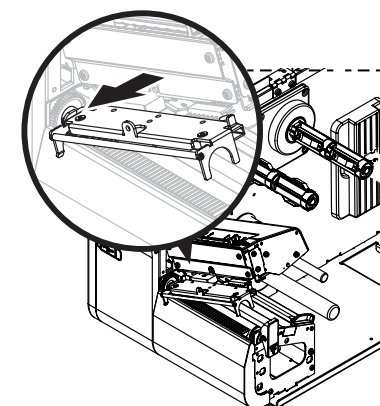
⚠ The printhead may be hot



REMOVE HEAD SET SCREW(1) WITH (-) SCREW DRIVER (YOU MAY USE A COIN).

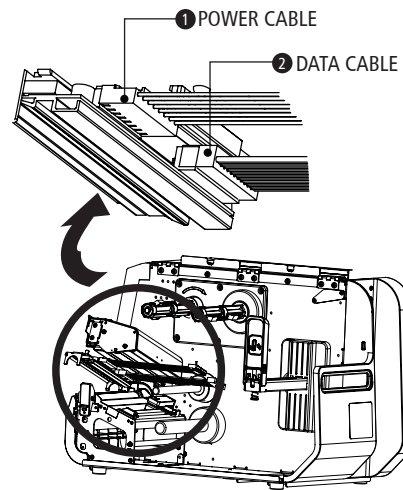


DETACH HEAD ASS'Y TO THE DOWNWARD.



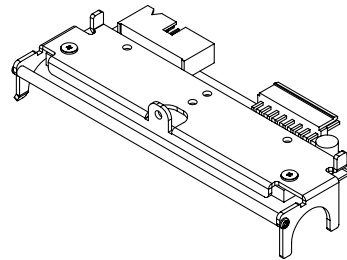
PULL THE DETACHED HEAD ASS'Y(1) TO THE HEAD ASS'Y.

9. Replace Platen Roller



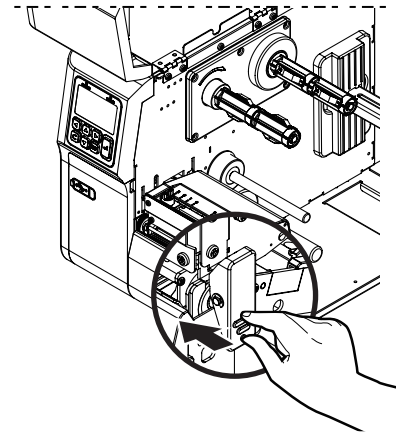
REMOVE POWER CABLE AND DATA CABLE.

⚠ Take care not to allow the print head to become scratched and /or damaged in any way.

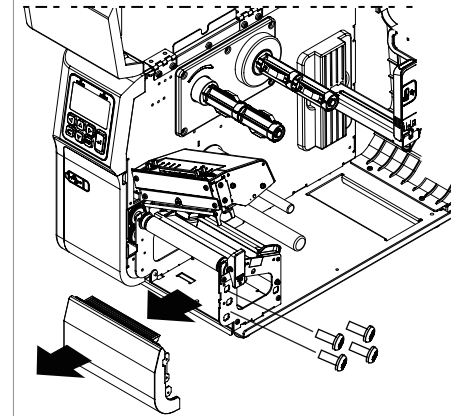


DETACHED HEAD ASS'Y.

5 6

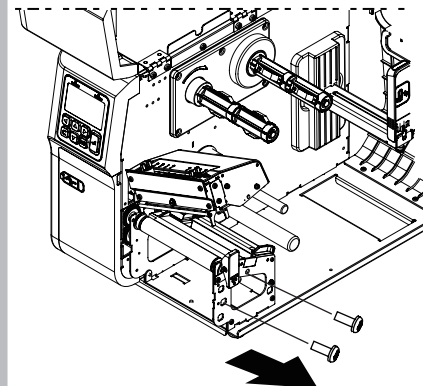


OPEN THE HEAD ASS'Y BY PUSHING THE LEVER.

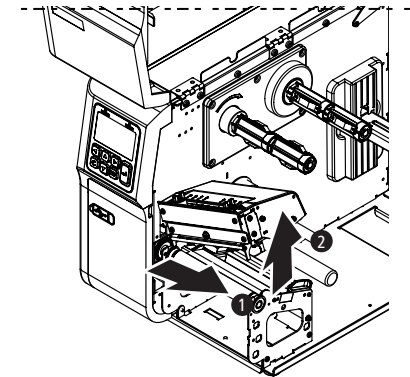


UNSCREW 4 SCREWS(2 INSIDE SCREWS, 2 OUTSIDE SCREWS) AND SEPARATE THE COVER FRONT OUTPUT TRAY.

1 2
3 4



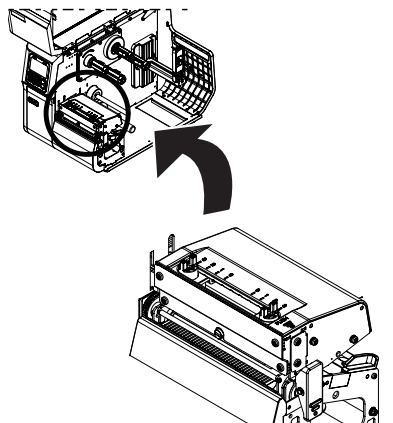
UNSCREW 2 SCREWS TO REMOVE THE HEAD OPEN LEVER.



1. DETACH THE BEARING AND BUSH.
2. REMOVE THE PLATEN ASS'Y.

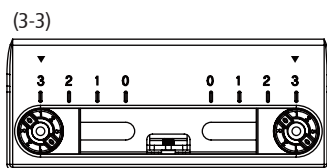
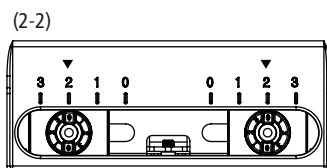
10. Control HEAD Pressure

LOCATION



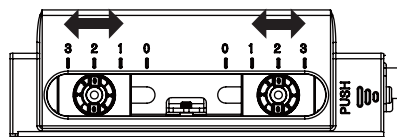
- THE LEVER IN CIRCLE IS THE HEAD PRESSURE ADJUSTER.
- YOU CAN ADJUST THE PRINTING BALANCE BY CONTROLLING THE HEAD PRESSURE AND CHANGING THE POSITION OF THE HEAD PRESSURE CONTROLLER.

FOR THE 4 INCH PAPER



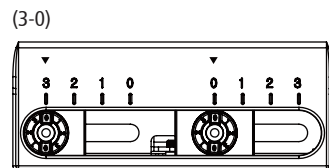
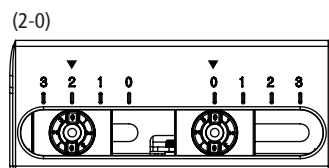
THE PRESSURE CONTROL CAN BE POSITIONED TO ACHIEVE THE BEST PRINT QUALITY.
(2-2, 3-3)

MOVE PRESSURE CONTROL



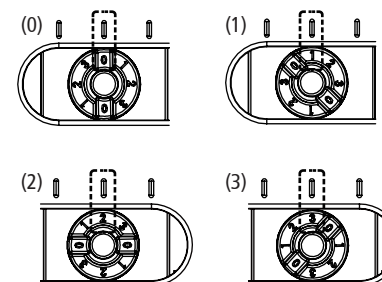
THE PRESSURE CONTROL CAN BE MOVED DEPENDS ON PAPERS AND /OR SIZE.

FOR LESS THAN 3 INCH PAPER



THE PRESSURE CONTROL CAN BE POSITIONED TO ACHIEVE THE BEST PRINT QUALITY.
(2-0, 3-0)

CONTROL PRESSURE

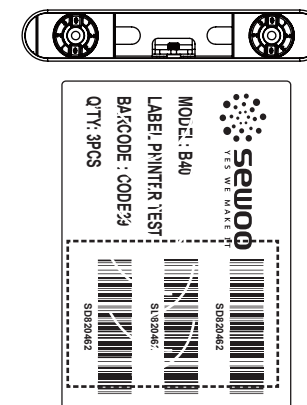


USE THE DIAL TO ADJUST A HEAD PRESSURE FOR PAPER (0: LOW ~ 3: HIGH)

NOTE

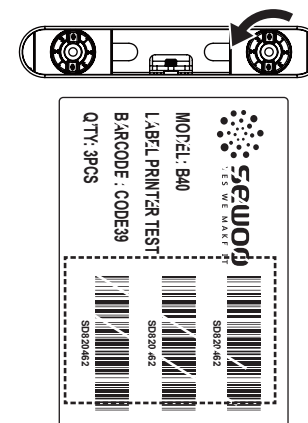
ROTATE THE DIAL CONTINUOUSLY TO GO BACK TO '0'

CONTROL WRINKLE (CRESCENT)



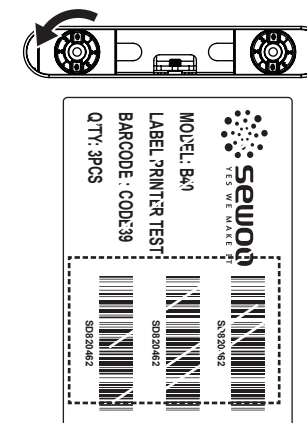
LOWER THE PRINTING DENSITY LEVEL TO GET RID OF A CRESCENT-SHAPED WRINKLE.

CONTROL WRINKLE (DIAGONAL LINE)



INCREASE THE RIGHT PRESSURE CONTROL DIAL TO GET RID OF A DIAGONAL WRINKLE.

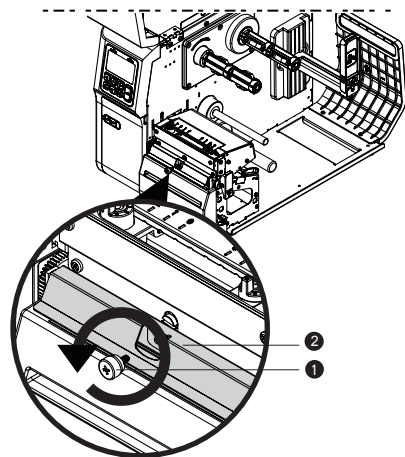
CONTROL WRINKLE (DIAGONAL LINE)



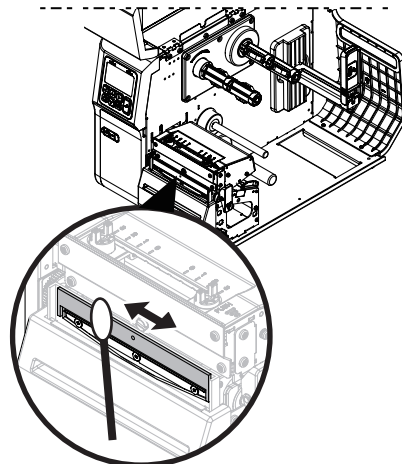
INCREASE THE LEFT PRESSURE CONTROL DIAL TO GET RID OF A DIAGONAL WRINKLE.

11. Maintenance Manual

11-1. CLEAN THE CUTTER



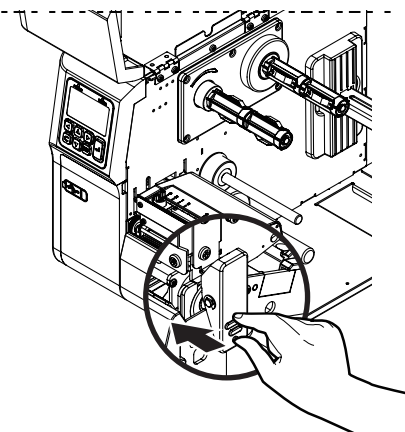
(2) REMOVE THE CUTTER COVER BY
(1) UNSCREWING SCREWS USING A SCREW
DRIVER.



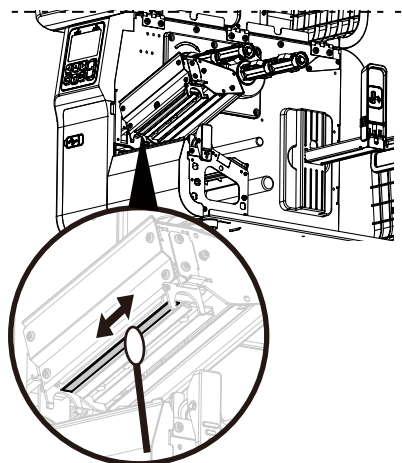
WIPE THE CUTTER BLADE FROM SIDE TO SIDE
BY USING A SWAB OR CLOTH WITH CLEANSING
FLUID OR ALCOHOL. AFTER THAT, ASSEMBLE
THEM IN REVERSE ORDER.

1 2
1 2

11-2. CLEAN THE HEAD

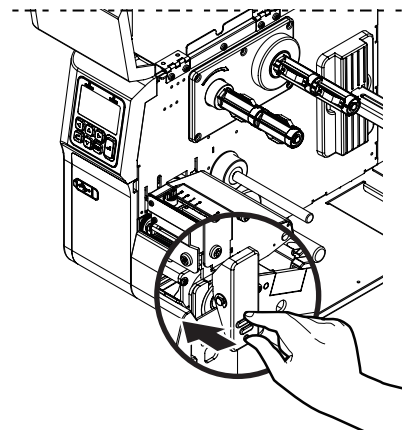


OPEN THE HEAD ASS'Y BY PRESSING THE
BOTTOM OF THE HEAD OPEN LEVER.

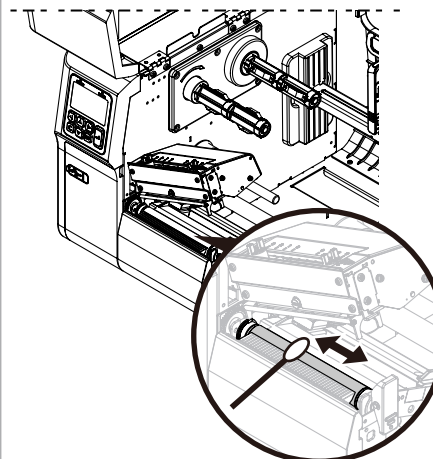


WIPE THE PRINTING SURFACE OF THE HEAD
BY USING THE SWAB OR CLOTH WITH
CLEANSING FLUID OR ALCOHOL. AFTER THAT,
ASSEMBLE THEM IN REVERSE ORDER.

11-3. CLEAN THE PLATEN ROLLER



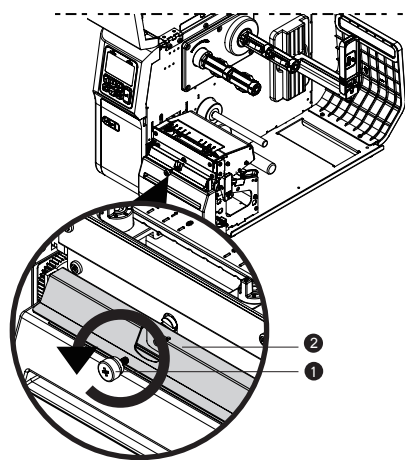
OPEN THE HEAD ASS'Y BY PRESSING THE
BOTTOM OF THE HEAD OPEN LEVER.



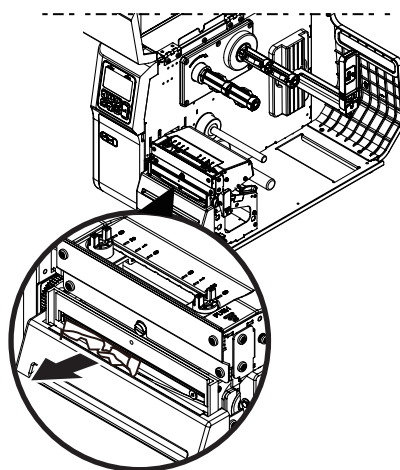
WIPE THE PLATEN ROLLER THOROUGHLY
BY USING THE SWAB OR CLOTH WITH
CLEANSING FLUID OR ALCOHOL. AFTER THAT,
ASSEMBLE THEM IN REVERSE ORDER.

1 2

11-4. CONTROL TO CUTTER JAM(OPTION)

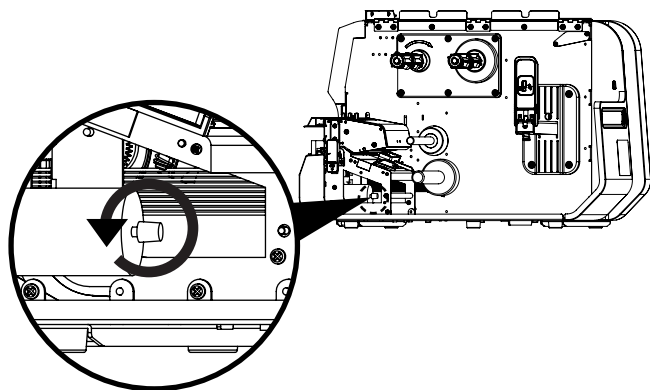


(2) REMOVE THE CUTTER COVER BY
(1) UNSCREWING SCREWS USING A SCREW
DRIVER.



REMOVE THE JAMMED PAPER IN THE
CUTTER.

1 2
3

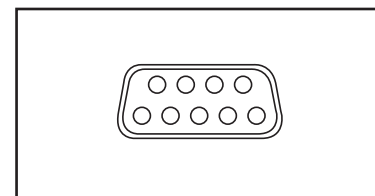


YOU CAN OPERATE THE CUTTER MANUALLY BY ROTATING
THE HANDLE AT THE END OF THE MOTOR.

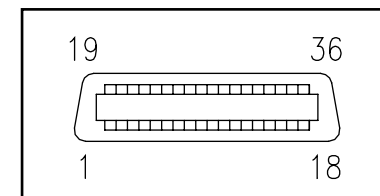
12. Interface

Interface Connectors

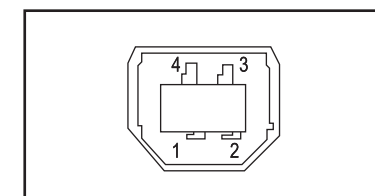
Standard



<9 Pin Serial>

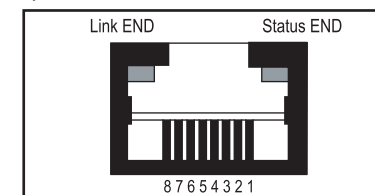


<Centronics Parallel>



<USB "B" Type>

Option



<Ethernet>

9Pin Serial Interface

Pin	Signal	I/O	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	I/O	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	SELECT IN-	Input	Printer select signal

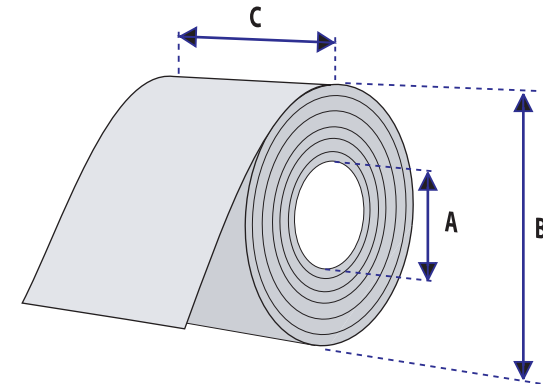
USB Interface

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

Ethernet Interface

Pin	Signal	I/O
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	

13. Media Roll Size



Core		
Diameter(A)	38.1 mm	(1.5 inches)
Max. width	118 mm	(4.65inches)
Roll		
Max.diameter(B)	220 mm	(8.7 inches)
Max.media width(C)	118 mm	(4.65 inches)
Min.media width(C)	18 mm	(0.7 inches)
Max.media thickness	0.3 mm	(0.01 inches)
Min.mdeia thickness	0.58 mm	(0.002 inches)

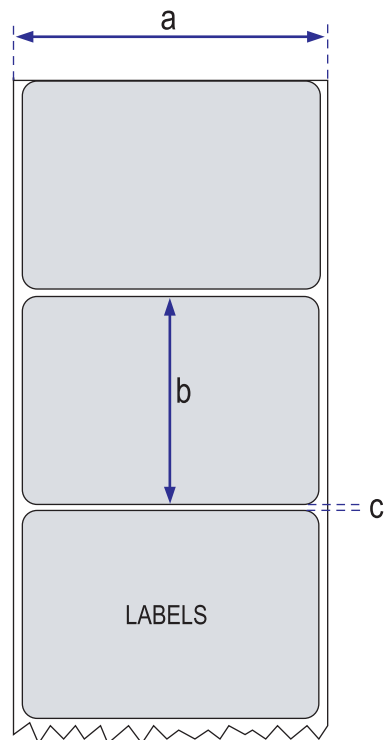
All types of media should normally be wound with the printable side facing outwards and unroll from the top of the roll. However tags and continuous strip can optionally be wound with the printable side facing inwards and unroll from the bottom of the roll as long as they are not used for cut-off operation.



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.

14. Labels

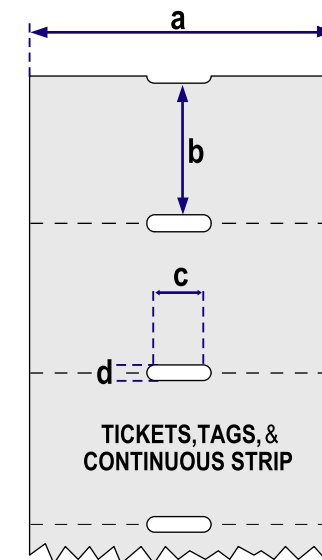
<-- a --> Media width (inch, liner)		
Maximum	118.0 mm	(4.65 inches)
Minimum	18 mm	(0.7 inches)
<-- b --> Label length		
Minimum	10 mm	(0.39 inches)
<-- c --> Label gap height		
Maximum	10 mm	(0.39 inches)
Minimum	2 mm	(0.08 inches)
Liner		
Opacity	75%	



15. 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)
Minimum	2 mm	(0.08 inches)

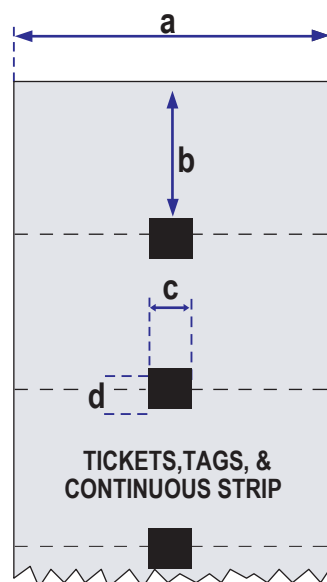
The label gap sensor is offset 4.5 mm(0.177 inches) to the right of the center for the media path.



16. 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.



17. Plain Continuous Stock

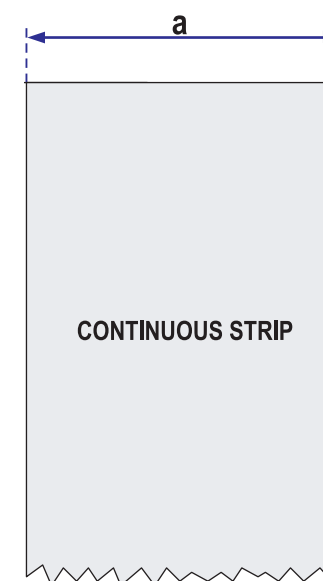
The printer can use continuous stock without any detection slots or black marks.

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

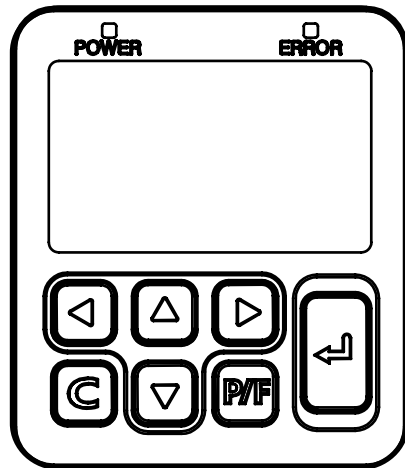
The length of each copy is decided by the size of the print image and any additional media feed is decided by the Q command.

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

<-- a --> Tag or strip width		
Maximum	118.0 mm	(4.64 inches)
Minimum	18 mm	(0.7 inches)



18. Using the Display and Buttons



18-1. Button

NOTE

button operates as feed button in ready condition only.

Screen displays	Meaning
◀	Left Move
▲	Up Move / Increase Value
▶	Right Move
▼	Down Move / Decrease Value
⏏	ESC or Cencel
P/F	Pause / Feed Paper
↶	Entry-Menu / Save

19-2. Display

	Subjects
16-2-1	PRINT SETUP
16-2-2	TPH SETUP
16-2-3	LIST
16-2-4	SENSOR SETUP
16-2-5	COMMUNICATION
16-2-6	PAPER SETUP
16-2-7	LANGUAGE
16-2-8	NETWORK
16-2-9	ETC

18-2-1 PRINT SETUP

PRINT SETUP
DARKNESS
PRINT SPEED
MEDIA TYPE
PRINT METHOD
PRINT WIDTH
MAXIMUM LENGTH
REPRINT MODE

DARKNESS

DARKNESS
UP
0
DOWN

DARKNESS

DEFAULT VALUE : 0

RANGE : 0 ~ 50

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PRINT SETUP-> DARKNESS
3. Press UP ARROW KEY to increase value
4. Press DOWN ARROW KEY to decrease value
5. Press CANCEL KEY to return to the menu

PRINT SPEED

PRINT SPEED
UP
254.5 mm/s
DOWN

PRINT SPEED

RANGE : 50.8 ~ 254.5 mm/s

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PRINT SETUP -> PRINT SPEED
3. Press UP ARROW KEY to increase value
4. Press DOWN ARROW KEY to decrease value
5. Press CANCEL KEY to return to the menu

MEDIA TYPE

MEDIA TYPE	
GAP/NOTCH	O.K.
BLACK MARK	
CONTINUOUS	

MEDIA TYPE

GAP/NOTCH

BLACK MARK

CONTINUOUS

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PRINT SETUP -> MEDIA TYPE
3. Select the type of paper that you are using
4. Press CANCEL KEY to return to the menu

PRINT METHOD

PRINT METHOD
DIRECT-THERMAL
THERMAL-TRANSFER

PRINT METHOD

DIRECT-THERMAL
THERMAL-TRANSFER Selection

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PRINT SETUP -> PRINT METHOD
3. Specify if the printer is to use Direct Thermal mode(no ribbon) or Thermal Transfer mode(using thermal transfer paper and ribbon)
4. Press CANCEL KEY to return to the menu

PRINT WIDTH

PRINT WIDTH
MAX PAPER WIDTH
104 mm

PRINT WIDTH

RANGE : 0 - 104 mm

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PRINT SETUP -> PRINT WIDTH
3. Specify the maximum width of the labels being used
4. Press CANCEL KEY to return to the menu

MAXIMUM LENGTH

MAXIMUM LENGTH
MAX PAPER LENGTH
500 mm

MAXIMUM LENGTH

RANGE : 18 - 500 mm

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PRINT SETUP -> MAXIMUM LENGTH
3. Set the maximum label length
4. Press CANCEL KEY to return to the menu

REPRINT MODE

REPRINT MODE
ENTER – REPRINT
CANCEL – QUIT

REPRINT MODE

Reprint last page.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PRINT SETUP -> REPRINT MODE
3. You can reprint the last label printed by pressing the ENTER KEY
4. Press CANCEL KEY to return to the menu

18-2-2 TPH SETUP

TPH SETUP
HEAD LIFE
NEW PRINT HEAD
PRINT METERS

TPH LIFE

TPH LIFE
THE USE OF TPH
0 %

TPH LIFE

TPH Usage/50Km
RANGE :0~ 100%

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> TPH SETUP -> TPH LIFE
3. View the usage of TPH LIFE(%)
4. Press CANCEL KEY to return to the menu

NEW PRINT HEAD

NEW PRINT HEAD
CHANGE NEW TPH?
YES NO

NEW PRINT HEAD

Reset Print record.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> TPH SETUP -> NEW PRINT HEAD
3. Use this menu item to restore the TPH life and usage back to the factory defaults
4. Select NO to return to the menu

PRINT METERS

PRINT METERS
0 m
TPH DISTANCE RESET?
YES NO

PRINT METERS

View TPH Print Distance.
RANGE : 0 ~ 50,000 m

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> TPH SETUP -> PRINT METERS
3. Use this menu item to restore the TPH Distance back to the factory defaults
4. Select NO to return to the menu

18-2-3 LIST

LIST
LIST FONT LIST BARCODE LIST IMAGE

LIST FONT

LIST FONT
EPL – 8 FONT,HAN – 1 FONT ZPL – 8 FONT(7 BITMAP) ZPL – 1 SCALABLE FONT Press CANCEL Key

LIST FONT

View available fonts.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> LIST -> LIST FONT
3. Press CANCEL KEY to return to the menu

LIST BARCODE

LIST BARCODE
1D BARCODE Code128,code39,l2of5... 2D BARCODE PDF417,QRCode,Maxicode.. Press CANCEL Key

LIST BARCODE

View available barcodes.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> LIST -> PRINT SPEED
3. Press CANCEL KEY to return to the menu

LIST IMAGE

LIST IMAGE
BMP,JPG ... Press CANCEL Key

LIST IMAGE

View available image format.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> LIST -> LIST IMAGE
3. Press CANCEL KEY to return to the menu

18-2-4. SENSOR SETUP

SENSOR SETUP
CALIBRATION
GAP ADJ.
BLACK ADJ.
Cover Open/Close

CALIBRATION

CALIBRATION
Calibration....

CALIBRATION

Automatically check the information of paper
(GAP/NOTCH, BLACK MARK, CONTINUOUS).

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> SENSOR SETUP -> CALIBRATION -> REBOOT AFTER CALIBRATION

GAP ADJ

GAP ADJ
Gap Sensor Value 166

GAP ADJ.

Manually set GAP/NOTCH value of paper.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> SENSOR SETUP -> GAP ADJ.
3. Press UP ARROW KEY to increase value
4. Press DOWN ARROW KEY to decrease value
5. Press CANCEL KEY to return to the menu

BLACK ADJ.

BLACK ADJ.
Blackmark Value 480

BLACK ADJ.

Manually set Blackmark value of paper.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> SENSOR SETUP -> BLACK ADJ.
3. Press UP ARROW KEY to increase value
4. Press DOWN ARROW KEY to decrease value
5. Press CANCEL KEY to return to the menu

Cover Open/Close

Cover Open/Close
COVER OPEN/CLOSE
Press CANCEL Key

Cover Open/Close

Set COVER OPEN/CLOSE.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> SENSOR SETUP -> COVER OPEN/CLOSE
3. Press CANCEL KEY to return to the menu

18-2-5. COMMUNICATION

COMMUNICATION
USB COM
SERIAL COM
PARALLEL COM

USB COM

USB COM
USB 2.0 Full Speed
Press CANCEL Key

USB COM

USB 2.0 Full Speed

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> COMMUNICATION -> USB COM
3. Press CANCEL KEY to return to the menu

SERIAL COM

SERIAL COM
BAUDRATE : 115200 DATA BIT : 8 BIT PARITY : NONE STOP BIT : 1

SERIAL COM

BAUDRATE : 9600 ~ 115200 BPS
BATA BIT : 7 ~ 8 BIT
PARITY BIT : NONE/ODD/EVEN
STOP BIT : 1 ~ 2 BIT

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> COMMUNICATION -> SERIAL COM
3. Choose BAUDRATE and press LEFT/RIGHT KEY to adjust
4. Choose DATA BIT and press LEFT/RIGHT KEY to adjust
5. Choose PARITY and press LEFT/RIGHT KEY to adjust
6. Choose STOP BIT and press LEFT/RIGHT KEY to adjust
7. HOST HANDSHAKE fixed by hardware
8. Press CANCEL KEY to save and return to the menu

PARALLEL COM

PARALLEL COM
Parallel O.K. Press CANCEL Key

PARALLEL COM

Parallel Com

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> COMMUNICATION -> PARALLEL COM
3. Press CANCEL KEY to return to the menu

18-2-6. PAPER SETUP

PAPER SETUP

LABEL TOP
LEFT POSITION
RIGHT POSITION
PAPER UP&DOWN SIDE

LABEL TOP

LABEL TOP

UP
0
DOWN

LABEL TOP

MARGIN : 0 ~ 50

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PAPER SETUP -> LABEL TOP
3. Press UP ARROW KEY to increase margin
4. Press DOWN ARROW KEY to decrease margin
5. Press CANCEL KEY to return to the menu

LEFT POSITION

LEFT POSITION

UP
0
DOWN

LEFT POSITION

MARGIN : 0 ~ 50

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PAPER SETUP -> LEFT POSITION
3. Press UP ARROW KEY to increase margin
4. Press DOWN ARROW KEY to decrease margin
5. Press CANCEL KEY to return to the menu

RIGHT POSITION

RIGHT POSITION

UP
0
DOWN

RIGHT POSITION

MARGIN : 0 ~ 50

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PAPER SETUP -> RIGHT POSITION
3. Press UP ARROW KEY to increase margin
4. Press DOWN ARROW KEY to decrease margin
5. Press CANCEL KEY to return to the menu

PAPER UP&DOWN SIDE

PAPER UP&DOWN SIDE	
PAGE UP&DOWN SIDE	
UP	DOWN

PAPER UP&DOWN SIDE

UP : From the top

DOWN : From the bottom

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PAPER SETUP -> PAPER UP&DOWN SIDE
3. Press ARROW KEY to choose
4. Press CANCEL KEY to return to the menu

18-2-7. LANGUAGE

LANGUAGE
KOREA
ENGLISH

LANGUAGE

LANGUAGE
KOREA
ENGLISH

LANGUAGE

KOREA

ENGLISH

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> LANGUAGE -> KOREA / ENGLISH
3. Return to the menu after choose language

18-2-8. NETWORK

NETWORK
IP ADDRESS
SUBNET MASK
GATEWAY SET
PORT NUMBER

IP ADDRESS

IP ADDRESS
192.168.001.192

IP ADDRESS

View IP Address.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> NETWORK -> IP ADDRESS
3. Press CANCEL KEY to return to the menu

SUBNET MASK

SUBNET MASK
255.255.255.000

SUBNET MASK

View Subnet Mask.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> NETWORK -> SUBNET MASK
3. Press CANCEL KEY to return to the menu

GATEWAY SET

GATEWAY SET
192.168.001.001

GATEWAY SET

View Gateway.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> NETWORK -> GATEWAY SET
3. Press CANCEL KEY to return to the menu

PORT NUMBER

PORT NUMBER
192.168.001.001

PORT NUMBER

View Port number.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> NETWORK -> PORT NUMBER
3. Press CANCEL KEY to return to the menu

18-2-9. ETC

ETC
SLEEP SET
Printer Language
BACKFEED
USB HOST UPDATE
RTC SET
First Paper Sense
PROGRAM VER

SLEEP SET

SLEEP SET
0 Min
Press CANCEL Key

SLEEP SET

Sleep mode setting

RANGE : 0 ~ 60 Min

After a set period of inactivity, the printer will automatically go into SLEEP MODE to conserve power.

The printer WAKES UP when it gets data to print or pressing any key.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> ETC -> SLEEP SET
3. Press UP ARROW KEY to increase value
4. Press DOWN ARROW KEY to decrease value
5. Press CANCEL KEY to return to the menu

Printer Language

Printer Language
ZPL II & EPL II COMPATIBLE
Press CANCEL Key

Printer Language

Supports ZPL II, EPL II.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> ETC -> Printer Language
3. Press CANCEL KEY to return to the menu

BACKFEED

BACKFEED
UP +0.0 DOWN

BACKFEED

Set Backfeed position to print.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> ETC -> BACKFEED
3. Press UP ARROW KEY to increase BACKFEED by 0.5 mm
4. Press DOWN ARROW KEY to decrease BACKFEED by 0.5 mm
5. Press CANCEL KEY to return to the menu

USB HOST UPDATE

USB HOST UPDATE
INSERT USB MEMORY WAIT.....

USB HOST UPDATE

Host update by USB Memory stick.

Method of operation

1. Copy Firmware file(LK-B40.BIN) to ROOT Directory in USB MEMORY STICK
2. Put the USB MEMORY STICK to USB Port in the front
3. Press ENTER KEY for 3 seconds to setup menu
4. SETUP -> ETC -> USB HOST UPDATE
5. Reboot automatically after update

RTC SET

RTC SET
yy / mm / dd 14 / 07 / 08 H / M / S 12 / 22 / 22

RTC SET

Set Time.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> ETC -> RTC SET
3. Press ARROW KET to set time
4. Press CANCEL KEY to save and return to the menu

First Paper Sense

First Paper Sense	
INITIAL PAPER SENSE?	
YES	NO

First Paper Sense

Automatically check the information of paper when power ON/OFF, Replace Paper roll.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> PAPER SETUP -> First paper Sense
3. Press ARROW KEY to choose and save
4. Press CANCEL KEY to return to the menu without save

PROGRAM VER

PROGRAM VER
LK-B40 VER 1.00 STD
Press CANCEL Key

PROGRAM VER

View Program Version.

Method of operation

1. Press ENTER KEY for 3 seconds to setup menu
2. SETUP -> ETC -> PROGRAM VER.
3. View the version of the program
4. Press CANCEL KEY to return to the menu

19. Specifications

Print method	Thermal Transfer and Direct Thermal	
Print speed(max)	250mm/sec	
Print width(max)	104mm (4.09")	
Print length(max)	1250mm (49.2")	
Resolution	203DPI, 8 dots/mm (Optional: 300DPI, 11.8 dots/mm)	
Paper Width(min~max)	18mm ~118 mm (0.7" ~ 4.64")	
Paper roll size(max)	220mm (8.7")	
Paper thickness	0.058~0.3mm	
Paper Type	Label , Tag, Continuous, Fanfold	
Paper sensor	Label gap, Black Mark	
Ribbon width(outside diameter)	18mm to 110mm (0.7~4.3")	
Ribbon length	500M, Ø 82 mm (3.2")	
Interface	Standard	Serial(RS-232C), Parallel(IEEE-1284), USB
	Option	Ethernet
Memory	Standard	32MB SDRAM, 16MB Flash
	Option	64MB SDRAM, 32MB Flash
Auto Cutter (Option)	Life	0.06~0.15mm: 500,000 cuts 0.15~0.18mm: 300,000 cuts
	Type	Guillotine
Serial baud rate	115200bps(max)	
Peeler	Optional	
Programming Language	EPL II Compatible, ZPL II Compatible	
Barcode	1D	Code39, Code128 with subsets A/B/C, Code93, Codabar, Interleaved 2 of 5, UPC-A and UPC-E with @ or 5 digit extensions, EAN-8 and EAN-13 with 2 or 5 digit extensions, Postnet, Plessey, German Post Code, MSI-3, UCC/EAN-128, Logmars, Code49
	2D	MaxiCode, PDF 417, DataMatrix, QR code, MicroPDF417, AZTEC
Font Specification	EPL II	5 bitmapped - 8x12, 10x16, 12x20, 14x24, 32x48 (5 bitmapped), 24x24(KSC5601)
	ZPL II	7 bitmapped - 5x9, 7x11, 10x18, 15x28, 13x26, 40x60, 13x21 / 1 smooth scalable
Weight	14kg	
Size (W x D x H)	294 x 489 x 325 (mm)	

Certification

(1) KC

This equipment is indoor use and all the communication wiring are limited to inside of the building"

20. Command List

No.	Command	Description
1	A	ASC II Text
2	AUTOFR	Automatic Form Printing
3	B	Bar Code
4	B	RSS-14 Bar Code
5	b	Data Matrix MaxiCode PDF417
6	C	Counter
7	C	Cut Immediate
8	D	Density
9	EI	Print Soft Font Info.
10	EK	Delete Soft Font
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.
21	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	o	Cancel Customized Settings
35	oB	Cancel Customize Bar Code
36	oE	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

No.	Command	Description
41	O	Options Select
42	OEPL1	Set Line Mode
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
74	^ ee	Status Report – Immediate