

BC-LP4600

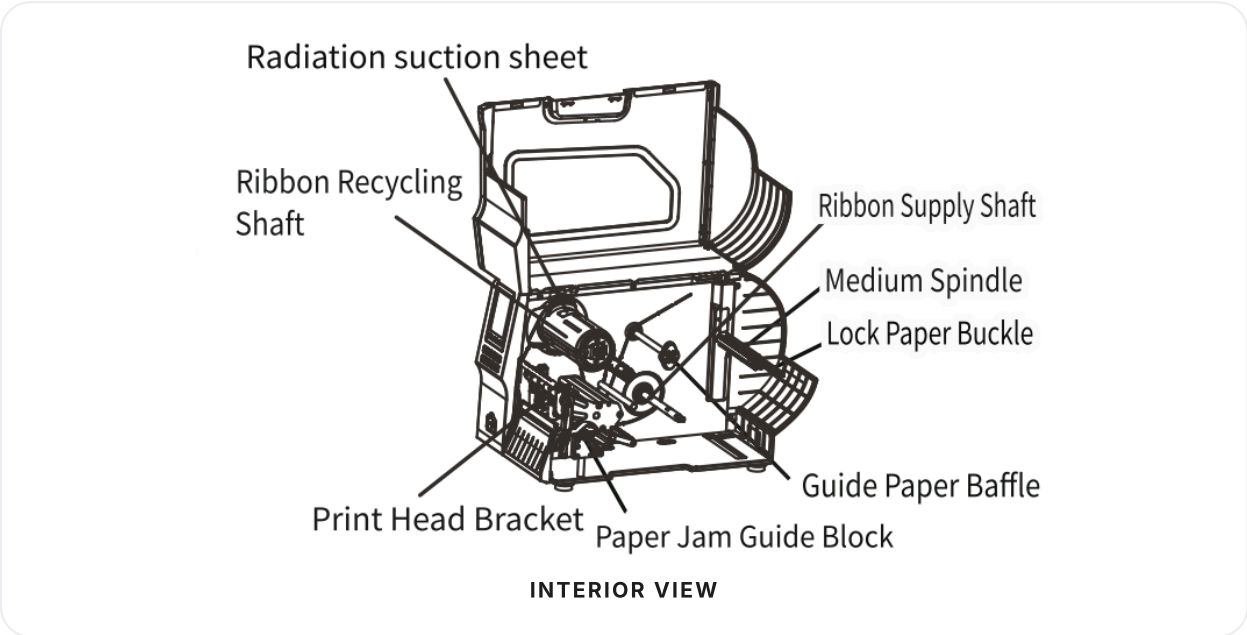
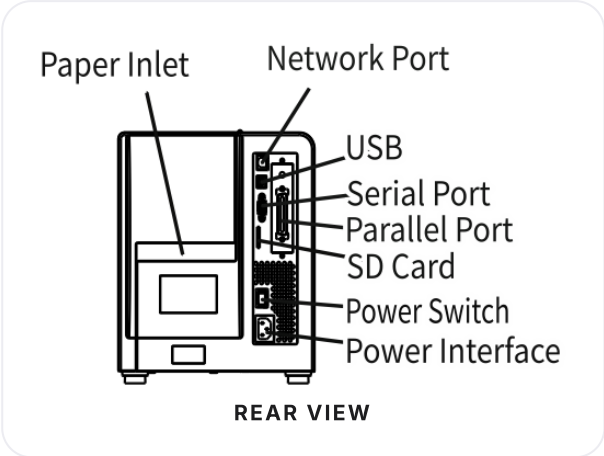
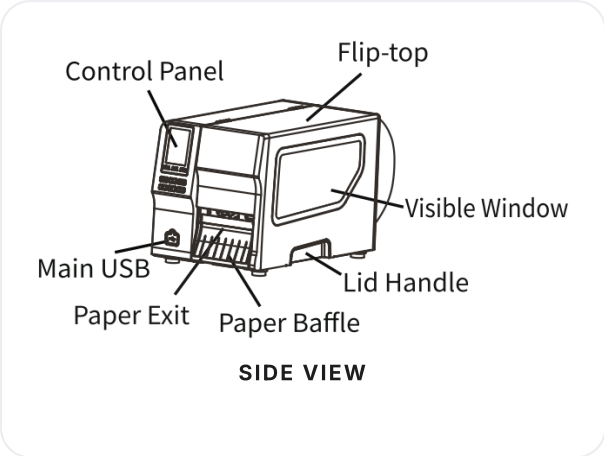
300 DPI • USB • Serial • LAN



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Getting to know your printer



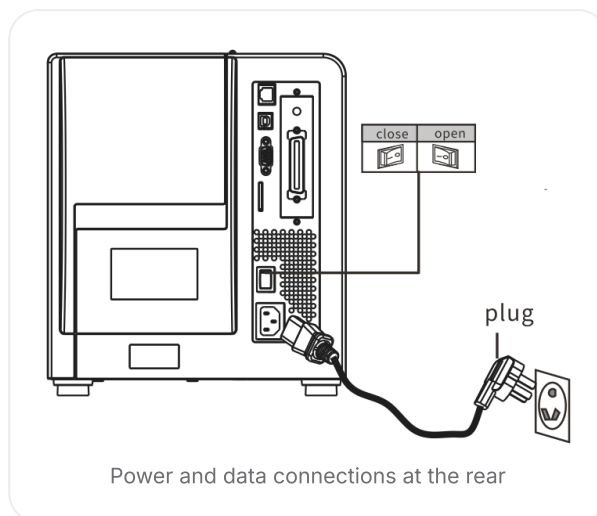
WHAT'S IN THE BOX

NO.	ITEM	QTY
1	Printer	1
2	Power cord	1
3	Mixed wax-based ribbon	1
4	Self-adhesive label roll	1
5	User manual	1
6	USB cable	1

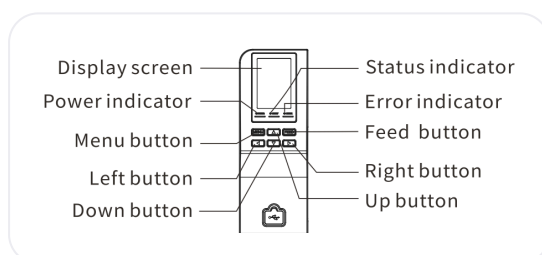
Keep the packaging in case the printer needs to be transported or serviced.

Setting up the printer

- 1 Place the printer on a stable, level surface and make sure the power switch is off.
- 2 Connect the printer to your computer with the USB cable (Serial and LAN ports are also available).
- 3 Plug the power cord into the power socket at the back of the printer, then into an AC outlet, and switch the printer on.



CONTROL PANEL



Feed button

- In standby, press once to feed one label.
- While printing, press to pause; press again to continue.
- In the settings menu it confirms your selection.

Menu button

- In standby, press to open the settings menu.
- In the settings menu it goes back one level.

Direction buttons

- Up, down, left and right move through the menu.

Install the driver and label software

1. Install the printer driver from the CD supplied with the printer and select the model BC-LP4600.
2. Choose the port the printer is connected to: USB, Serial (RS-232) or LAN (Ethernet).
3. Install BarTender UltraLite from the same CD to design and print labels.

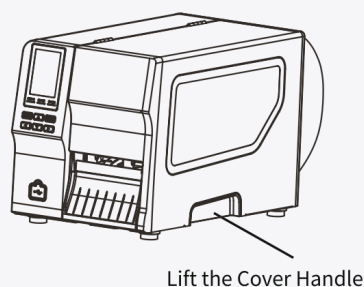
Drivers are available for Windows, Linux, Mac, Android and Chrome OS.

Print your first label

1. Load labels (page 04) and, for thermal transfer printing, a ribbon (page 05).
2. Turn on the printer and wait until it is ready.
3. Press the Feed button once: the printer feeds one label, which confirms the labels are loaded correctly.

Loading labels

Use labels 20–120 mm wide on a 1" core, up to 203 mm (8") roll diameter.

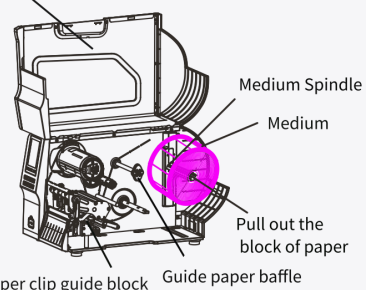


1

1 Open the cover

Lift the cover handle and open the printer cover.

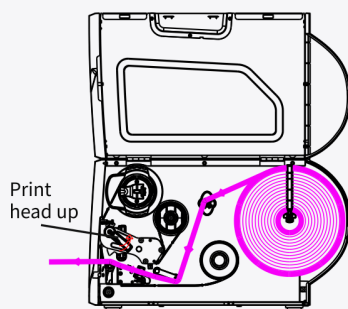
Open the Cover



2

2 Load the label roll

Pull out the media block, place the label roll on the media spindle and slide the block back against the roll.

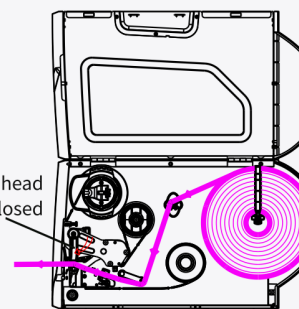


3

3 Thread the labels

Lift the print head and feed the labels under it, following the arrow.

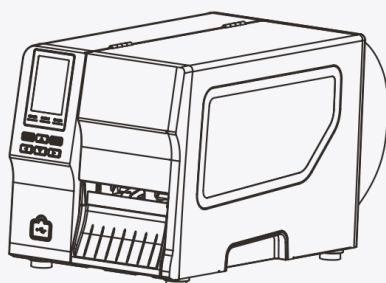
The print head is closed



4

4 Close the print head

Press the print head down until it locks in place.



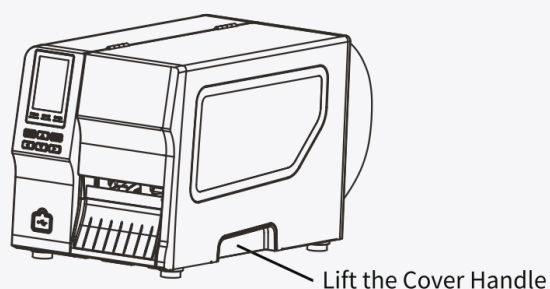
5

5 Close the cover

Close the printer cover. The printer is ready to print.

Loading the ribbon

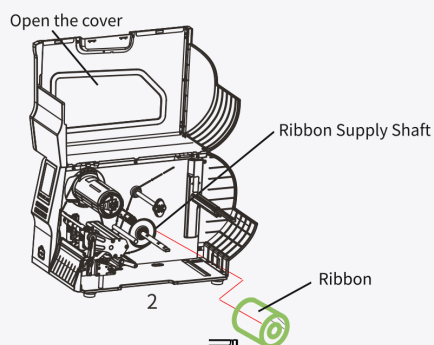
Use ribbons 20–110 mm wide, up to 600 m long, on a 1" core.



1

1 Open the cover

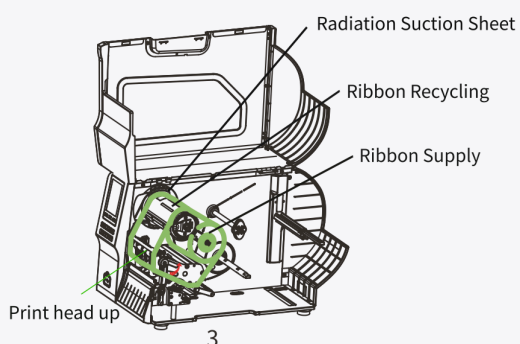
Lift the cover handle and open the printer cover.



2

2 Fit the ribbon

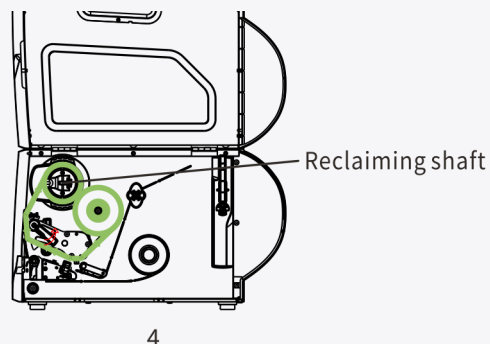
Slide the ribbon roll onto the ribbon supply shaft.



3

3 Attach to the rewind shaft

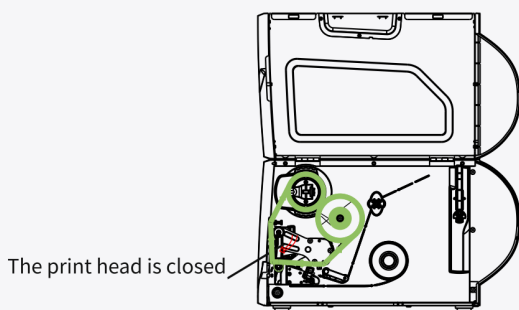
Lift the print head and attach the ribbon leader to the ribbon rewind shaft as shown.



4

4 Tighten the ribbon

Turn the rewind shaft a few times so the ribbon is tight and does not wrinkle.



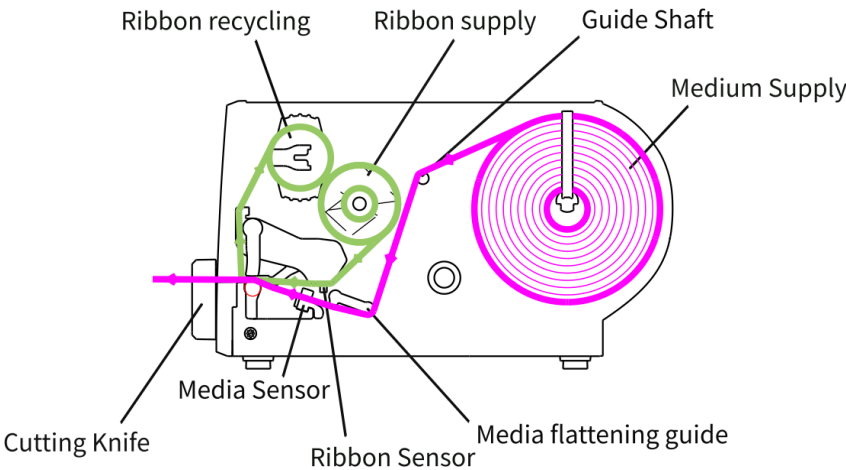
5

5 Close up

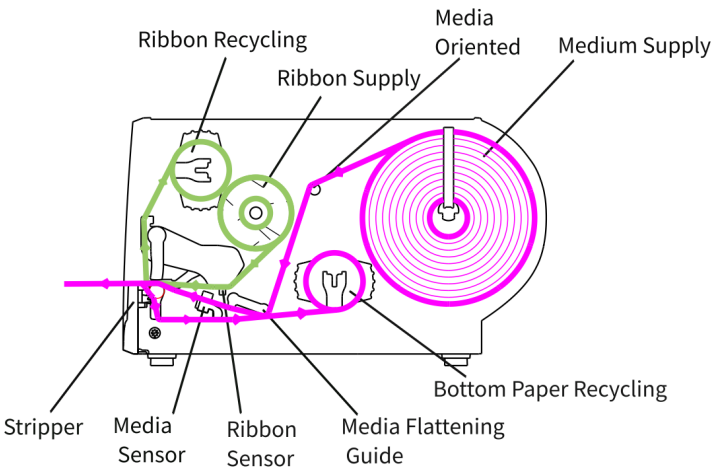
Close the print head, then close the cover.

Media path and indicators

The ribbon is only needed for thermal transfer printing. For direct thermal labels, print without a ribbon.



Ribbon and media path – cutter option
Labels pass the media and ribbon sensors to the cutting knife.



Ribbon and media path – peel-off option
The liner is guided around the stripper to the bottom liner rewind.

LED INDICATORS

INDICATOR LIGHTS	MEANING
POWER green on · ERROR red flashing	Out of labels, or the print head is overheated – load labels or let the printer cool down
POWER green on · READY green flashing	Printing paused
POWER green on · READY red flashing	Power-on, normal state
POWER green on · ERROR red on	Cover or print head is open

Troubleshooting

Common problems and how to solve them. If the printer still does not work properly, contact the dealer you purchased it from.

PROBLEM	POSSIBLE CAUSE	SOLUTION
Power indicator is off	● AC plug not connected properly ● Power switch is off	● Check the power cord at the outlet and at the printer ● Turn on the power switch
Status indicator flashes red	● Print head is not closed ● Labels have run out or are loaded incorrectly ● Gap sensor does not detect the labels ● A label is jammed inside the printer	● Close the print head ● Load new labels (see Loading labels) ● Check the label settings and print again ● Remove the label and clean the inside of the printer
Labels fold or crease	● Uneven print head pressure ● Labels loaded incorrectly ● Print darkness set incorrectly	● Set a suitable print darkness for the label ● Adjust the label width guide to fit the label
Poor print quality	● Labels loaded incorrectly ● Dust or adhesive on the print head ● Print darkness set incorrectly ● Damaged print head	● Reload the labels and ribbon ● Clean the print head and platen roller ● Adjust print darkness and speed ● Print a self-test; if the head is damaged, contact your supplier ● Use labels suitable for the printer ● Labels thicker than 0.22 mm may print poorly – make sure the print head is fully closed
Labels skip while printing	● Label size setting is wrong ● Label sensor is covered by dust	● Set the correct label size and reduce the gap value ● Remove dust or objects from the sensors
Left or right side of the print is missing	● Label size setting is wrong ● Media is wider than the maximum print width	● Set the correct label size ● Use media within the maximum print width

Care, maintenance and safety

PROBLEM	POSSIBLE CAUSE	SOLUTION
Grey line on printed labels	• Dirt on the print head • Platen roller is dirty	• Clean the print head • Clean the platen roller
Nothing prints or content is wrong	• Printer is in Hex Dump mode • Serial (RS-232) settings do not match	• Restart the printer to leave Hex Dump mode • Reset the printer and match the baud rate on printer and computer

CARE AND MAINTENANCE

Clean the print head and platen roller when

- Printing is not clear
- Label feeding is noisy
- Dirt is stuck on the print head

Clean 3–5 minutes after printing

1. Turn off the printer and open the cover.
2. Wipe the print head and platen roller with a cotton swab moistened with alcohol.
3. Wait 5–10 minutes until the alcohol has evaporated, then start printing.

Caution

- Do not touch the print head with your hands.
- Use medical (isopropyl) alcohol to clean the print head – industrial alcohol can damage it.
- Clean the print head, platen roller and sensors regularly. If error messages keep appearing, clean the printer and try again.

SAFETY AND HANDLING

- Use the supplied power cord and a properly earthed AC outlet (100–240 V).
- Turn off and unplug the printer before cleaning it.
- The print head gets hot while printing – let it cool down before touching the print path.
- Keep fingers away from the cutter (cutter option) and do not insert objects into the printer.
- Use the printer indoors at 5–40 °C and 25–85% humidity, away from water, direct sunlight, heat and dust.
- Unplug the printer if it will not be used for a long time.

Need help?

If a problem is not solved by this manual, contact the dealer you purchased the printer from, or BlackCopper at sales@blackcopper.net. Please have the model (BC-LP4600) ready.

Specifications

GENERAL

Brand	BlackCopper
Model	BC-LP4600
Resolution	300 DPI (12 dots/mm)
Interfaces	USB, Serial, LAN (Ethernet)
Display	3.5" LCD, 320 × 480 pixels

PRINTING

Printing method	Thermal transfer / direct thermal
Max. print speed	Up to 8 ips (203 mm/s)
Max. print width	104 mm (4.09")
Printer languages	TSPL, ZPL, EPL, DPL

MEDIA

Media types	Continuous, gap, black mark, fan-fold, perforated
Media width	20–120 mm (0.78"–4.7")
Media length	10–889 mm (0.39"–35")
Media thickness	0.06–0.254 mm (0.0023"–0.01")
Media roll	203 mm (8") outer diameter 25.4 mm (1") core

RIBBON

Max. ribbon length	600 m (1,968 ft)
Ribbon width	20–110 mm (0.78"–4.3")
Ribbon outer diameter	91 mm (3.58")
Ribbon core	25.4 mm (1")

HARDWARE

Memory	128 MB RAM 128 MB flash
Media sensors	Movable black mark sensor Movable gap sensor
Memory card	Standard SD card slot
Real-time clock	Optional

FONTS, BARCODES & GRAPHICS

Fonts & graphics	Font 0 – Font 8
1D barcodes	Code 39, Code 93, Code 128UCC, Code 128 subsets A, B, C, Codabar, Interleaved 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2(5) digits add-on, MSI, Plessey, POSTNET, China POST, GS1 DataBar, Code 11
2D barcodes	PDF-417, MaxiCode, DataMatrix, QR Code, Aztec

SOFTWARE

Drivers	Windows, Linux, Mac, Android, Chrome OS
Label software	BarTender UltraLite

DURABILITY

Printhead life	30 km
Platen roller life	30 km

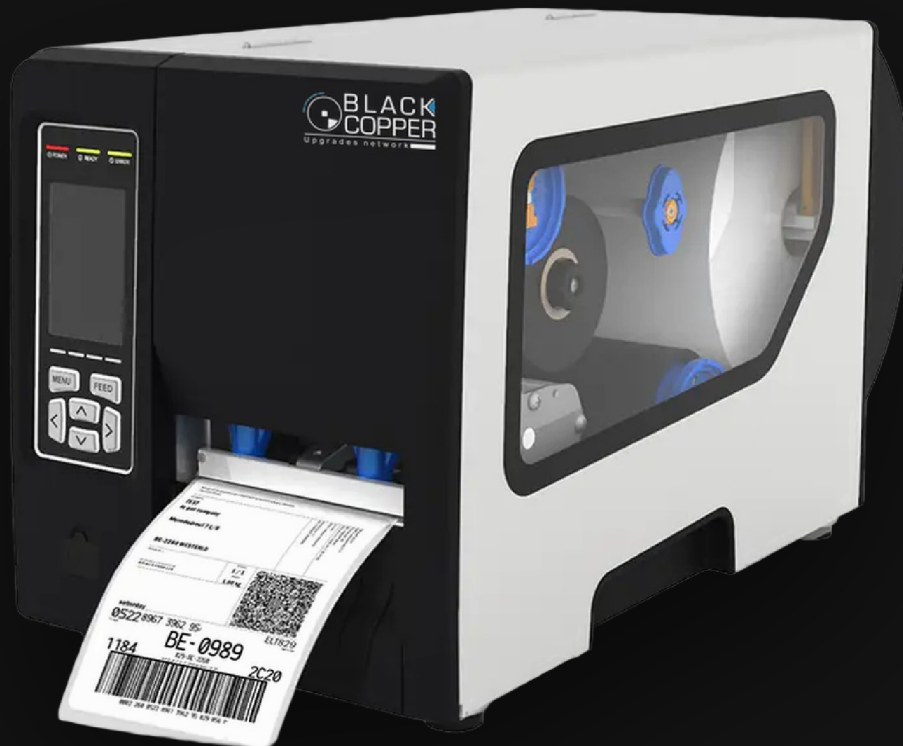
PHYSICAL & ENVIRONMENT

Dimensions	504 × 257 × 297 mm (D × W × H)
Weight	11 kg
Operating	5–40 °C (41–104 °F) 25–85% humidity, non-condensing
Storage	–40–60 °C (–40–140 °F) 10–90% humidity, non-condensing



INDUSTRIAL THERMAL TRANSFER BARCODE LABEL PRINTER

BC-LP4600



SUPPORT AND DISTRIBUTOR PRICING

sales@blackcopper.net

blackcopper.net