



HP Latex 1500 Series Beacon

Introductory Information

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Edition 1

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HP Latex 1500 Series Beacon

Introductory Information

What is it? <p>The HP Latex 1500 Series Beacon indicates the status of the printer, providing efficient tracking of printer functionality and requirements.</p> <p>This document is a supplement to the main HP Latex 1500 Printer Series documentation. It includes legal notices, safety instructions, power specifications, warranty statement, installation guide, and declaration of conformity.</p>	Where is the user guide? <p>The user guides for your printer and this accessory can be downloaded from:</p> <ul style="list-style-type: none">■ http://www.hp.com/go/latex1500/manuals <p>Further information is available from:</p> <ul style="list-style-type: none">■ http://www.hp.com/go/latex1500/support <p>Videos about how to use the accessory can be found in:</p> <ul style="list-style-type: none">■ http://www.hp.com/support/videos■ http://www.youtube.com/HPsupportAdvanced
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Safety precautions

Before using your accessory, read, understand, and follow these safety precautions, and your local Environmental, Health, and Safety regulations. You are expected to have the appropriate technical training and experience necessary to be aware of hazards to which you may be exposed in performing a task, and take appropriate measures to minimize the risks to yourself and to other people.



IMPORTANT: Read and follow all safety precautions before installing and/or using any HP Latex printer accessory.

General safety guidelines



WARNING! The information provided by the printer status beacon is for informational purposes only, and is not related to any safety provision or safety states. Warning labels on the printer must be always considered when operating the printer, regardless of the status indicated by the printer status beacon.

Turn off the printer, using the branch circuit breakers located in the building's Power Distribution Unit (PDU), and call your service representative in any of the following cases:

- The power cord is damaged.
- The drying or curing enclosures are damaged.
- The printer has been damaged by an impact.

- Liquid has entered the printer.
- There is smoke or an unusual smell coming from the printer.
- The printer's built-in Residual Current Circuit Breaker (Ground Fault Circuit Interrupter) has been repeatedly tripped.
- Fuses have blown.
- The printer is not operating normally.
- There is any mechanical or enclosure damage.

Turn off the printer using the branch circuit breakers in either of the following cases:

- During a thunderstorm
- During a power failure

Take special care with zones marked with warning labels.

Electrical shock hazard

 **WARNING!** The internal circuits and the drying and curing modules operate at hazardous voltages capable of causing death or serious personal injury.

Turn off the printer using the branch circuit breakers located in the building's Power Distribution Unit (PDU) before servicing the printer. The printer must be connected to earth at mains outlets only.

To avoid the risk of electric shock:

- Do not attempt to dismantle the drying and curing modules, or the e-cabinet, except during hardware maintenance tasks. In that case, follow the instructions strictly.
- Do not remove or open any other closed system covers or plugs.
- Do not insert objects through slots in the printer.
- Test the functionality of the Residual Current Circuit Breaker (RCCB) every year (see the procedure below).

 **NOTE:** A blown fuse may indicate malfunctioning electrical circuits within the system. Call your service representative, and do not attempt to replace the fuse yourself.

Checking the functionality of the Residual Current Circuit Breakers

Following standard Residual Current Circuit Breaker (RCCB) recommendations, it is recommended that the RCCBs are tested on a yearly basis. The procedure is as follows:

1. Turn off the built-in computer using the Internal Print Server's **Shutdown** button (or, in Print Care, click **Printer tools > Power options > Shutdown**). Do not turn off the printer from the mains switch or the circuit breakers.

 **CAUTION:** The shutdown process takes some time to complete. Wait until the green power-enabled light is off before proceeding.

2. Once the computer is off, test that the RCCB works correctly by pressing the test button.
 - If the RCCB does not trip when the test button is pressed, this indicates that it has failed. The RCCB must be replaced for safety reasons; call your service representative to remove and replace the RCCB.
 - If the RCCB trips, this indicates that it is working correctly; reset the RCCB to its normal on state.

Fire hazard

The drying and curing subsystems of the printer operate at high temperatures. Call your service representative if the printer's built-in Residual Current Circuit Breaker (Ground Fault Circuit Interrupter) is repeatedly tripped. To avoid the risk of fire, take the following precautions:

- Use the power supply voltage specified on the nameplate.
- Connect the power cords to dedicated lines, each protected by a branch circuit breaker as explained in the site preparation guide.
- Do not insert objects through slots in the printer.
- Take care not to spill liquid on the printer. After cleaning, make sure all components are dry before using the printer again.
- Do not use aerosol products that contain flammable gases inside or around the printer. Do not operate the printer in an explosive atmosphere.
- Do not block or cover the openings of the printer.
- Do not attempt to modify the drying or curing module, or the e-cabinet.

- Ensure that the operating temperature of the substrate recommended by the manufacturer is not exceeded. If this information is not available, ask the manufacturer. Do not load substrates that cannot be used at an operating temperature above 125°C (257°F).
- Do not load substrates with auto-ignition temperatures below 250°C (482°F). See note below. No ignition sources are close to the substrate.



NOTE: Test method based on EN ISO 6942:2002: *Evaluation of materials and material assemblies when exposed to a source of radiant heat, method B*. The test conditions, to determine the temperature when the substrate starts ignition (either flame or glow) were: heat flux density 30 kW/m², copper calorimeter, K-type thermocouple.

- Proper maintenance and genuine HP consumables are required to ensure that the printer operates safely as designed. The use of non-HP consumables (foams, filters, printhead cleaner roll, and inks) may present a risk of fire.
- The LED array supports, beam, and enclosures can reach high temperatures. To avoid the risk of fire, take the following precautions:
 - Take special care with zones marked with warning labels.
 - Do not place objects covering the LED array supports, beam, or enclosures.
 - Take care not to spill liquid on the accessory. After cleaning, make sure all components are dry before using the printer.
 - Do not attempt to modify the LED array supports, beam, or enclosures.

Heat hazard

The drying and curing subsystems of the printer operate at high temperatures and can cause burns if touched. LED array (optional) supports, beam, and enclosures can reach high temperatures. To avoid the risk of burns, take the following precautions:

- Do not touch the internal enclosures of the printer's drying and curing modules.
- Take special care when accessing the substrate path.
- Take special care with zones marked with warning labels.
- Do not place objects covering the LED array supports, beam, or enclosures.
- Do not attempt to modify the LED array supports, beam, or enclosures.
- Remember to let the printer cool down before performing some maintenance operations.

Mechanical hazard

The printer has moving parts that could cause injury. To avoid personal injury, take the following precautions when working close to the printer and in-line slitters:

- Keep your clothing and all parts of your body away from the printer's moving parts.
- Avoid wearing necklaces, bracelets, and other hanging objects.
- If your hair is long, try to secure it so that it will not fall into the printer.
- Take care that sleeves or gloves do not get caught in the printer's moving parts.
- Avoid standing close to the fans, which could cause injury and could also affect print quality (by obstructing the air flow).
- Do not touch gears or moving rolls during printing.
- Do not operate the printer with covers bypassed.
- Do not touch in-line slitters during printing.
- Handle in-line slitters with care and store them safely in their box when not used with the printer.
- Risk of cutting your fingers! Uninstall the in-line slitters when manipulating the curing module or accessing the substrate path.
- Take care when using the air gun. When used for cleaning purposes, make sure to use it according to local regulations: additional safety provisions may apply.



WARNING! Be careful when opening the loading table, and *never* leave it unattended with both latches in open position: it may open inadvertently and cause serious injuries. Always check that the loading table has both latches properly closed.

Light radiation hazard

UV radiation can be emitted from the LED array in compliance with the requirements of the exempt group of IEC 62471:2006: *Photobiological safety of lamps and lamp systems*. However, you are recommended not to look directly for a long time at the output LEDs while they are on.

Sound pressure level

The sound pressure level could exceed 70 dBA in some print modes. Hearing protection may be required.

Heavy substrate hazard

Special care must be taken to avoid personal injury when handling heavy substrates:

- Handling heavy substrate rolls always requires two people. Care must be taken to avoid back strain and/or injury.
- Always use a forklift, pallet truck, or other handling equipment to lift substrates. The printer has been designed to be compatible with many of these devices.
- Always wear personal protective equipment, including boots and gloves.

Ink handling and condensates

HP recommends that you wear gloves when handling ink system components and condensates.

Ventilation and air conditioning

As with all equipment installations, to maintain ambient comfort levels, air conditioning and ventilation in the work area should take into account that the printer produces heat.

Air conditioning and ventilation should meet local environmental, health, and safety (EHS) guidelines and regulations.

For a more prescriptive approach to adequate ventilation, refer to the ANSI/ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 62.1-2013: *Ventilation for Acceptable Indoor Air Quality*. An example minimum exhaust rate of 2.5 L/s.m² (0.5 cfm/ft²) of fresh air for “copy, printing rooms” is specified.

 **NOTE:** The ventilation and air conditioning units should not blow air directly onto the printer.

 **NOTE:** Maintaining positive air pressure in the print production room will help to prevent dust from entering the room.

 **IMPORTANT:** Read and follow all safety precautions before installing and/or using any HP Latex printer accessory.

IMPORTANT: Check compatibility and incompatibility between different HP Latex printer accessories before any installation. This information can be found in the user guide at <http://www.hp.com/go/latex1500/manuals>.

Power specifications

Voltage	5 Vdc (USB)
Maximum current	0.5 A
	Operated from host printer

Warranty statement

HP warrants to you, the end-user customer, that HP large-format printing accessories are free from defects in materials and workmanship. If HP receives notice of such defects during the warranty period (up to 90 days from date of purchase*), HP will, at its option, either replace products that prove to be defective with the same or comparable product at HP's option, or HP may elect to refund your purchase price. This warranty will be voided by misuse, improper physical environment, accident, or improper maintenance. If you need warranty support during the warranty support period, you can locate your nearest HP support location here: <http://www.hp.com/support>.

To the extent allowed by local law, the above warranty is exclusive; no other warranty or condition, whether written or oral, is expressed or implied, and HP specifically disclaims any implied warranties or conditions of merchantability, satisfactory quality, and fitness for a particular purpose. To the extent allowed by local law, in no event will HP or its suppliers be liable for direct, special, incidental, consequential (including lost profit or data), or other damage, whether based on contract, tort, or otherwise. The warranty terms contained in this statement, except to the extent lawfully permitted, do not exclude, restrict, or modify and are in addition to the mandatory statutory rights applicable to the sale of this product to you.

* Proof of purchase required. Customers should retain a copy of the purchase order (PO). When submitting a claim, attach a copy of the PO including the name of the company from which the accessory was purchased, the purchase date, and the PO number.

 **IMPORTANT:** Check compatibility and incompatibility between different HP Latex printer accessories before any installation. This information can be found in the user guide at <http://www.hp.com>.

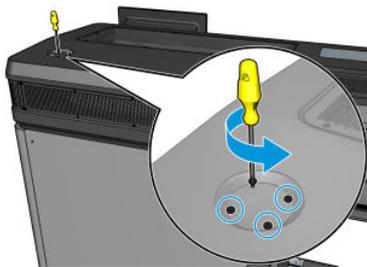
Beacon installation

 **WARNING!** Before starting the installation, ensure that the printer is completely turned off.



TIP: Also before starting, HP recommends finding and preparing all required tools and other items.

1. Use a Torx-20 screwdriver to unscrew and disassemble the beacon dummy cap.



2. Use a Torx-20 screwdriver to unscrew and disassemble the upper and lower back covers.



Risk of burns



Crush hazard



Risk of trapped fingers

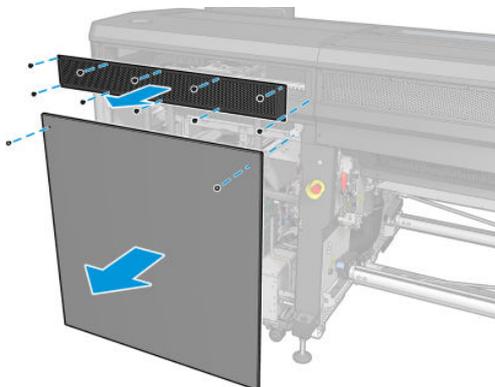


Hazardous moving part



Electric shock hazard

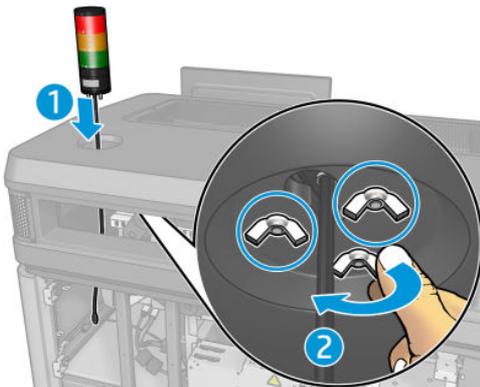
For more safety information, see [Safety precautions on page 1](#)



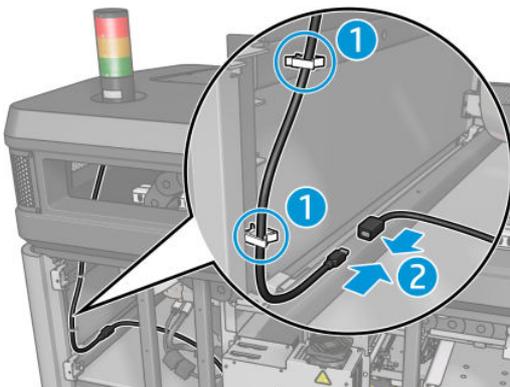
3. Connect the USB cable to the status beacon and use the provided cable tie to secure the cable connection.



4. Assemble the status beacon, and attach it to the printer using the three provided M4 wing nuts.



5. Route the status beacon USB cable and connect it to the printer's female USB connector.



6. Use a Torx-20 screwdriver to screw and reassemble the upper and lower back covers.



Risk of burns



Crush hazard



Risk of trapped fingers



Hazardous moving part



Electric shock hazard

For more safety information, see [Safety precautions on page 1](#)

Declaration of conformity

according to ISO/IEC 17050-1 and EN 17050-1

Declaration of conformity number:	BCLAA-1804-R1 Original/en
Manufacturer's name:	HP Inc.
Manufacturer's address:	HP Printing and Computing Solutions S.L.U. Cami de Can Graells, 1-21 08174 Sant Cugat del Vallès Barcelona, Spain

Declares, under its sole responsibility, that the product:

Product name and model ⁽²⁾ :	HP Latex 1500 Series Beacon
Regulatory Model Number ⁽¹⁾ :	BCLAA-1804
Product options:	All

Conforms to the following product specifications and regulations:

Safety

EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013 / + AC:2011
IEC 60950-1:2005 (2nd Edition) + A1:2009 + A2:2013
CAN/CSA-22.2 No. 60950-1-07 + A1:2011 + A2:2014
ANSI/UL 60950-1:2014
EN ISO 12100:2010, EN ISO 13849-1:2008 / AC:2009 and EN 1010-1:2004 + A1:2010
EN 60204-1:2006 + A1:2009 + AC:2010
EN 62479:2010

EMC

EN 55032:2012 Class A
CISPR 32:2012 Class A
EN 55024:2010
CISPR 24:2010
EN 61000-3-12:2011
IEC 61000-3-12:2011
EN 61000-3-11:2000
IEC 61000-3-11:2000
FCC CFR 47 Part 15 Class A
ICES-003, Issue 6 Class A

RoHS

EN 50581:2012

The product herewith complies with the requirements of the Machinery Directive 2006/42/EC, the EMC Directive 2014/30/EU, the RoHS Directive 2011/65/EU, and carries the  marking accordingly.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

Additional information

1. This product is assigned a Regulatory Model Number which stays with the regulatory aspects of the design. The Regulatory Model Number is the main product identifier in the regulatory documentation and test reports; this number should not be confused with the marketing name or the product numbers.
2. This product was tested in a typical HP environment.



Jordi Gorchs, Manager

Large Format Printing Division

Barcelona

July 30, 2018

Local contacts for regulatory topics only

- **EU:** HP Deutschland GmbH, HP HQ-TRE, 71025 Böblingen, Germany
- **US:** HP Inc., 1501 Page Mill Road, Palo Alto 94304, U.S.A. 650-857-1501

<http://www.hp.eu/certificates/>