

BOLT **PRO**

3DPRINTER

Safety information V01-03





Leapfrog™
3D Printers

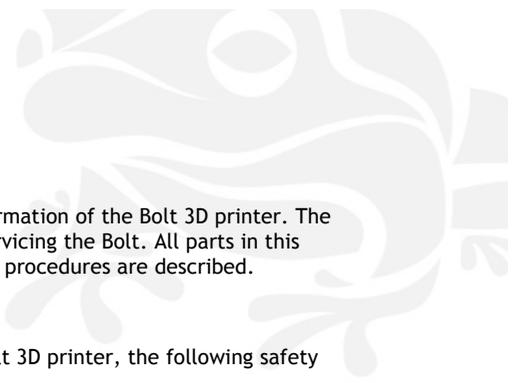


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1. Introduction

This document describes the safety information of the Bolt 3D printer. The intended audience is anyone using or servicing the Bolt. All parts in this document are informative and no actual procedures are described.

2. Safety information

When using or servicing the Leapfrog Bolt 3D printer, the following safety precautions must always be followed.

2.1 Safety during operation

The following symbols are used:



WARNING

Indicates a potential hazardous situation which, if instructions are not followed could result in serious injury or death.



CAUTION

Indicates a potential hazardous situation which, if instructions are not followed may result in minor or moderate injury or damage to property.

2.2 Safety precautions to be followed

This section explains safety precautions about environments the 3D printer can be used



WARNING

- Do not place vases, plant pots, cups, toiletries, medicines, small metal objects, or containers holding water or any other liquids, on or close to this 3D printer. Fire or electric shock could result from spillage or if such objects or substances fall inside this 3D printer.
- Do not print materials that are not manufactured for 3D printing. Doing so could result in fire or electric shock.



CAUTION

- Do not place heavy objects on the 3D printer. Doing so can cause the 3D printer to topple over, possibly resulting in injury.
- Keep the 3D printer away from humidity and dust. Otherwise a fire or an electric shock might occur.
- Do not place the 3D printer on an unstable or tilted surface. If it topples over, an injury might occur.
- Make sure the room where you are using the 3D printer is well ventilated and spacious. Good ventilation is especially important when certain materials are used for 3D printing.
(Check the materials datasheet)



- Do not obstruct the 3D printer's rear vents. Doing so risks fire caused by overheated internal components.
- Keep the 3D printer away from salt-bearing air and corrosive gases. Also, do not install the 3D printer in places where chemical reactions are likely (laboratories, etc.), as doing so can cause the 3D printer to malfunction or cause fire because of the hot parts.

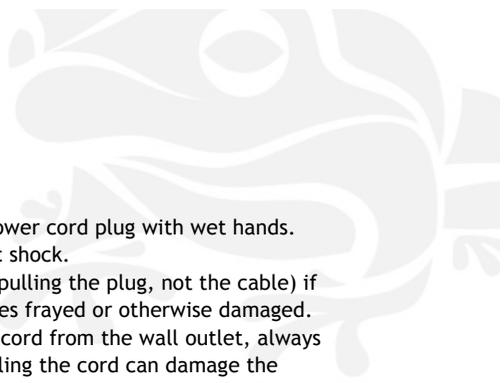
2.3 Handling power cords and power cord plugs

This section explains safety precautions about handling power cords and power cord plugs.



WARNING

- Do not use any power sources other than those that match the specifications shown. Doing so could result in fire or electric shock.
- Do not use multi-socket adaptors. Doing so could result in fire or electric shock.
- Do not use extension cords. Doing so could result in fire or electric shock.
- Do not use power cords that are damaged, broken, or modified. Also, do not use power cords that have been trapped under heavy objects, pulled hard, or bent severely. Doing so could result in fire or electric shock.
- If the power cord is damaged and its inner wires are exposed or broken, contact your service representative for a replacement. Use of damaged power cords could result in fire or electric shock.
- Be sure to disconnect the plug from the wall outlet at least once a year and check for the following:
 - There are burn marks on the plug.
 - The prongs on the plug are deformed.
- If any of the above conditions exist, do not use the plug and consult your dealer or service representative. Use of the plug could result in fire or electric shock.
- Be sure to disconnect the power cord from the wall outlet at least once a year and check for the following:
 - The power cord's inner wires are exposed, broken, etc.
 - The power cord's coating has a crack or dent.
 - When bending the power cord, the power turns off and on.
 - Part of the power cord becomes hot.
 - The power cord is damaged.
- If any of the above conditions exist, do not use the power cord and consult your dealer or service representative. Use of the power cord could result in fire or electric shock.



 **WARNING**

- It is dangerous to handle the power cord plug with wet hands. Doing so could result in electric shock.
- Disconnect the power plug (by pulling the plug, not the cable) if the power cable or plug becomes frayed or otherwise damaged.
- When disconnecting the power cord from the wall outlet, always pull the plug, not the cord. Pulling the cord can damage the power cord. Use of damaged power cords could result in fire or electric shock.
- When disconnecting the power cord from the rear of the 3D printer, always pull the plug, not the cord. Pulling the cord can damage the power cord or plug inside the 3D printer. Use of damaged power plug and/or power cords could result in fire or electric shock.

 **CAUTION**

- If the 3D printer is not going to be used for several days or longer at a time, disconnect its power cord from the wall outlet.
- Be sure to push the plug of the power cord fully into the wall outlet. Partially inserted plugs create an unstable connection that can result in an unsafe build-up of heat.
- Be sure to disconnect the plug from the wall outlet and clean the prongs and the area around the prongs at least once a year. Allowing dust to build up on the plug constitutes a fire hazard.
- When performing maintenance on the 3D printer, always disconnect the power cord from the wall outlet. If a specific maintenance procedure requires the 3D printer to be powered, follow the procedure carefully to prevent injury.

2.4 Handling the 3D printer

This section explains safety precautions about handling the 3D printer.

 **WARNING**

- If the 3D printer emits smoke or odours from the electrical compartment, inside the print head or wires, or if it behaves unusually, you must turn off its power immediately. After turning off the power, be sure to disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the 3D printer. Doing so could result in fire or electric shock.
- If metal objects, or water or other fluids fall inside the 3D printer, you must turn off its power immediately. After turning off the power, be sure to disconnect the power cord plug from



the wall outlet. Then contact your service representative and report the problem. Do not use the 3D printer. Doing so could result in fire or electric shock.

- If the 3D printer topples, or if a cover or other part gets broken, you must turn the power switch to off and disconnect the power cord plug from the wall outlet. Then contact your service representative and report the problem. Do not use the 3D printer. Doing so could result in fire or electric shock.
- Disposal can take place at our authorized dealer or at appropriate collection sites.
- Be sure to locate the 3D printer as close as possible to a wall outlet. This will allow easy disconnection of the power cord in the event of an emergency.
- The following explains the warning messages on the plastic bag used in this product's packaging.
 - Keep any polythene materials (bags, etc.) supplied with this 3D printer away from babies and small children at all times. Suffocation can result if polythene materials are covering the mouth and/or nose.



CAUTION

- Unplug the power cord from the wall outlet before you move the 3D printer. While moving the 3D printer, take care that the power cord is not damaged under the 3D printer. Failing to take these precautions could result in fire or electric shock.
- For environmental reasons, do not dispose of the 3D printer at household waste collection points. Disposal can take place at an authorized dealer.

2.5 While in operation

This section explains safety precautions while the 3D printer is in operation.



CAUTION

- While printing, do not touch any of the belts or moving parts inside the 3D printer frame. Otherwise, an injury might occur.
- The print bed moves up and down, do not put your fingers or hands on top or underneath the print bed while the 3D printer is in operation, otherwise an injury might occur.
- The print head moves left and right, forward and backwards. Do not put your hands or fingers near the print head while the 3D printer is in operation, otherwise an injury might occur.



- Be careful not to burn yourself on any hot surfaces (print bed, hot ends) when you reach inside the machine to remove filament, filament residue or print artefacts.
- Never place any components in the 3D printer that might obstruct horizontal or vertical movement of the printer. This could severely damage the machine.
- Do not use the rear switch to power down the machine while it is operational. The system should be shut down through the software using the front button or the display as instructed in the manual. Not doing so can damage the system's memory and cause problems during the next reboot.

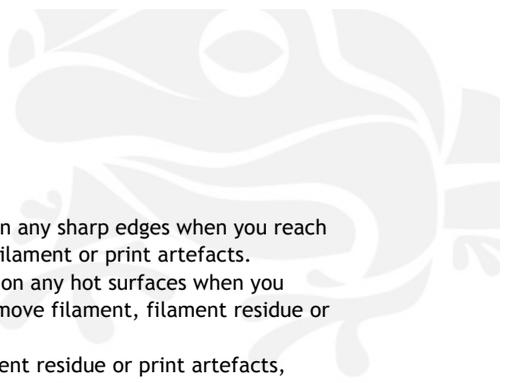
2.6 Handling the 3D printer's interior.

This section explains safety precautions about handling the machine's interior.



WARNING

- Do not remove any covers or screws other than those explicitly mentioned in the service manuals. Inside this 3D printer are high voltage components that are an electric shock hazard. Contact your sales or service representative if any of the 3D printer's internal components require maintenance, adjustment, or repair.
- Do not attempt to disassemble or modify this 3D printer unless specifically asked by the qualified Leapfrog personnel. Doing so risks burns and electric shock.



CAUTION

- Be careful not to cut yourself on any sharp edges when you reach inside the machine to remove filament or print artefacts.
- Be careful not to burn yourself on any hot surfaces when you reach inside the machine to remove filament, filament residue or print artefacts.
- When removing filament, filament residue or print artefacts, make sure not to trap or injure your fingers.

2.7 Handling the 3D printer supplies

This section explains safety precautions about handling the 3D printer's supplies.



WARNING

- The following explains the warning messages on the plastic bag used in this product's packaging.
 - Keep the polythene materials (bags, gloves, etc.) supplied with this 3D printer away from babies and small children at all times. Suffocation can result if polythene materials cover the mouth and/or nose.
- Some materials release toxic fumes when they are printed. Check the materials datasheet or contact your materials supplier to check if the material you are using will emit toxic fumes while being printed.



CAUTION

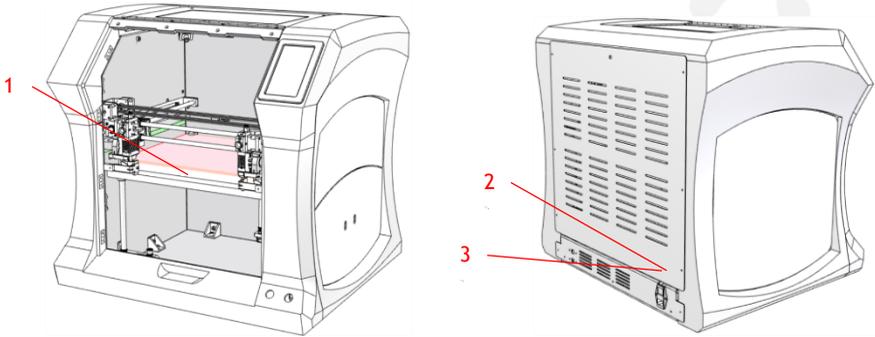
- Keep the 3D printer filaments out of reach of children.



3. Safety labels of this 3D printer

3.1 Positions of WARNING and CAUTION labels

This 3D printer has labels for WARNING and CAUTION at the positions shown below. For safety, please follow the instructions and handle the 3D printer as indicated.



1. On the bed: Door must remain close during operation. Hot surfaces and moving parts inside. Read manual before operation.
2. On the back plate: WARNING do not switch off power when front is still operational.
3. On the back plate:
 - This equipment is to be serviced under supervision of trained personnel only. Disconnect power cable before opening.
 - Plug into grounded 3 prong outlet.
 - Allow for a minimum clearance of 5 cm to allow for airflow.

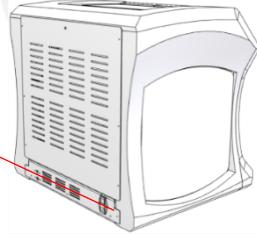


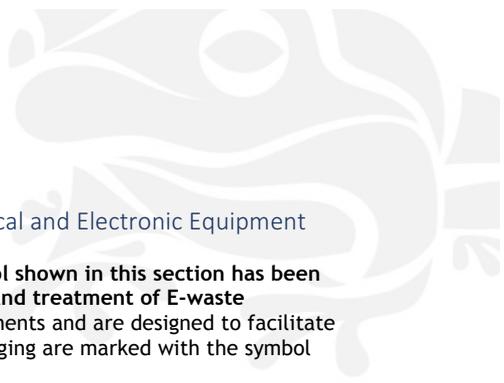
3.2 Power switch symbols

The meaning of the symbols for the power switch (4) on this 3D printer is as follows:

- I : POWER ON
- O : POWER OFF

4





4. Laws and regulations

4.1 User Information on Electrical and Electronic Equipment

Users in the countries where the symbol shown in this section has been specified in national law on collection and treatment of E-waste
Our products contain high quality components and are designed to facilitate recycling. Our products or product packaging are marked with the symbol below.



This symbol indicates the product must not be treated as municipal waste. It must be disposed of separately via the appropriate return and collection systems available. By following these instructions, you ensure that this product is treated correctly and help to reduce potential impacts on the environment and human health, which could otherwise result from inappropriate handling. Recycling of products helps to conserve natural resources and protect the environment. For more detailed information on collection and recycling systems for this product, please contact the shop where you purchased it, your local dealer or sales/service representatives.

All other users

If you wish to discard this product, please contact your local authorities, the shop where you bought this product, your local dealer or sales/service representatives.