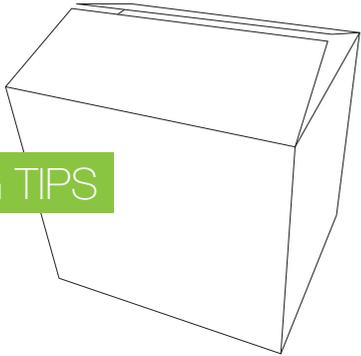# DITTO™ PRO
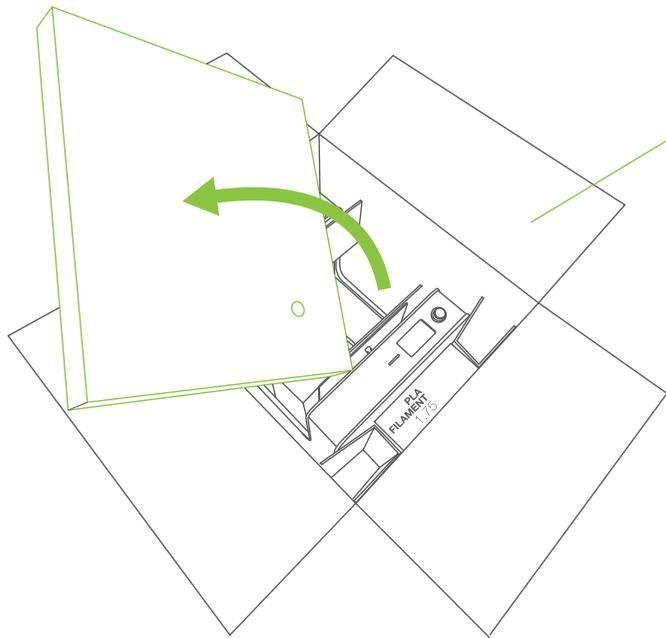# 3D PRINTER
Quick Start Guide

UNBOXING TIPS

Use a pair of box cutters to trim along the taped edges and peel back the outer box flaps.

The Ditto™Pro 3D Printer can be too heavy to lift out of the box by yourself. Ask for help to prevent injury or damages to the printer.

Make sure you have a pair of scissors handy to remove zip ties that fasten down printer components during shipping.
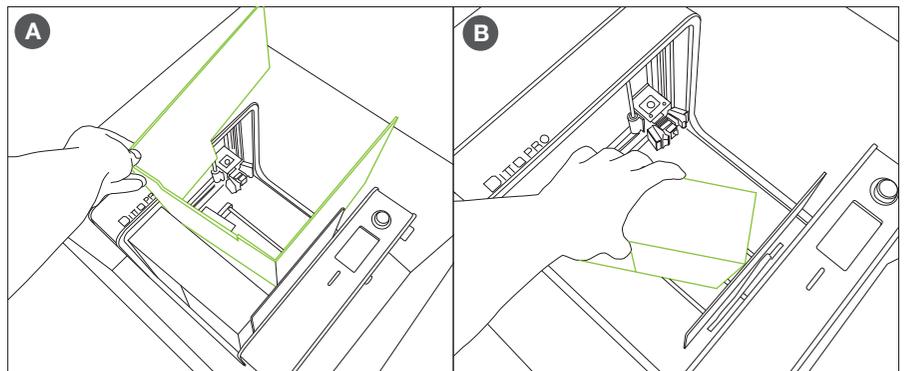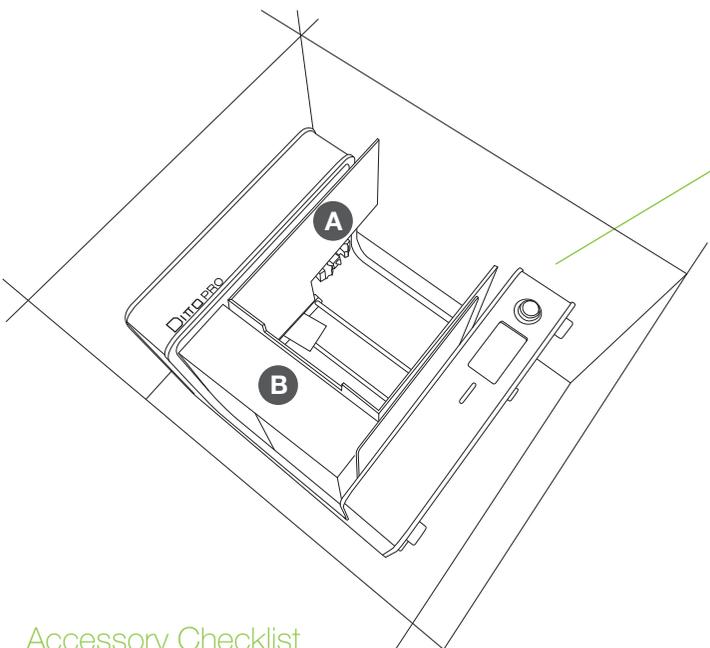
1 Open shipping box and remove top shipping foam bracket.
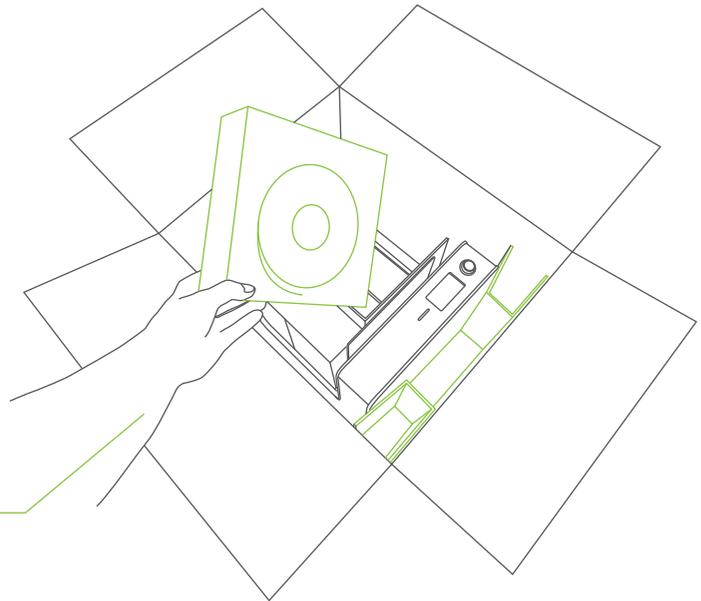
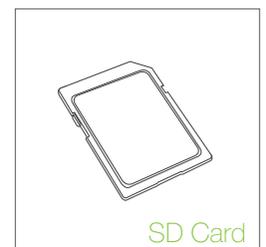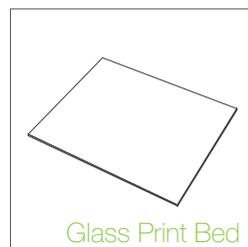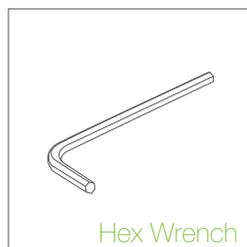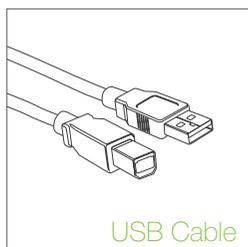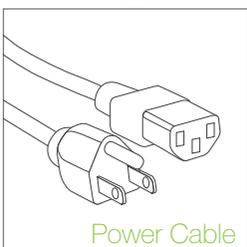**2** Remove filament and shipping bracket from the box.

3 Remove shipping bracket and accessories box from printer.

A

B

Accessory Checklist
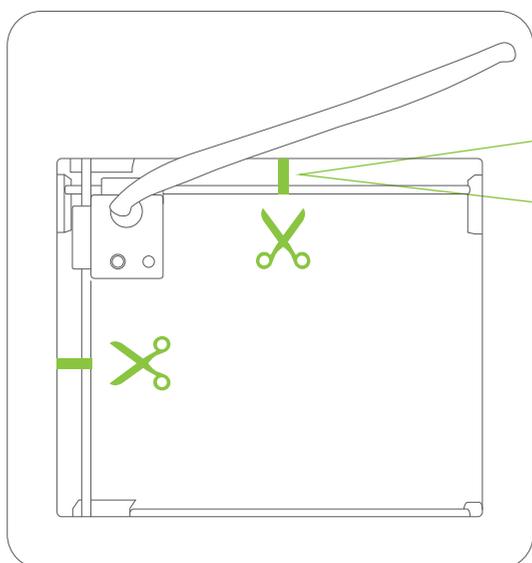
Power Cable	USB Cable	Hex Wrench	Glass Print Bed	Print Bed Clips x4	SD Card

UNBOXING TIPS

4 Lift the printer out of the box and place it down on a firm surface.

! Make sure the printer is located near an accessible power outlet.
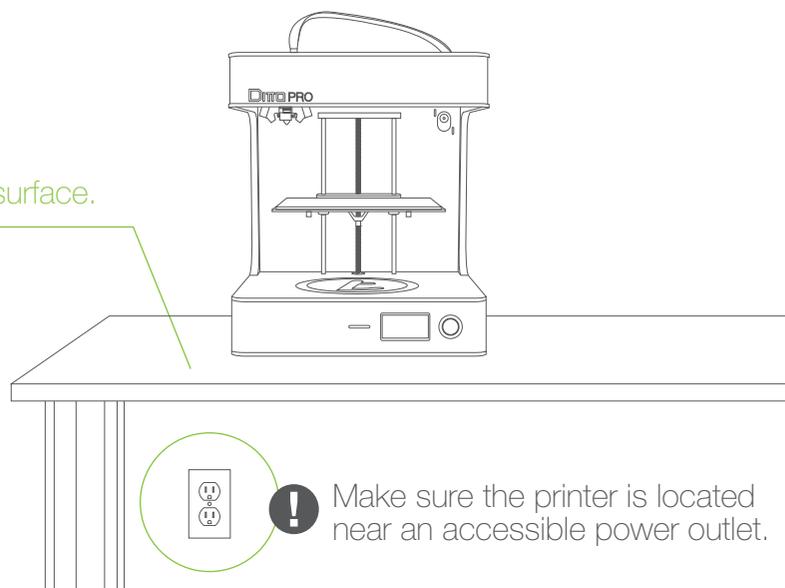
**5** Using a pair of scissors, cut away the zip ties that are securing the extruder in place. There will be one tie per axis.

t
TINKERINE
INSPECTION CERTIFICATE

TINKERINE STUDIOS LTD.
341 WEST 6TH AVE
VANCOUVER | B.C | CANADA
TEL: +1 (604) 288-8778
WWW.TINKERINE.COM

Your Tinkerine 3D printer was inspected and calibrated by a certified professional at several stages of production.

Votre machine d'impression 3D (tridimensionnelle) Tinkerine a été inspectée et calibrée par un spécialiste à plusieurs étapes de la production.

DPR1234567
Serial

John Doe
Inspected by

! Keep the Inspection Certificate for product warranty registration.

! Use extra caution when cutting off the zip ties to prevent damage to the motion belts or wires.

TURNING ON THE PRINTER

1 Make sure the power switch on the printer is in the Off position (O).

2 Insert the female end into the power socket located on the back of the printer.

3 Insert the male end of the power cord into an electrical socket.

4 Turn on the printer by flipping the power switch to the On position (I).
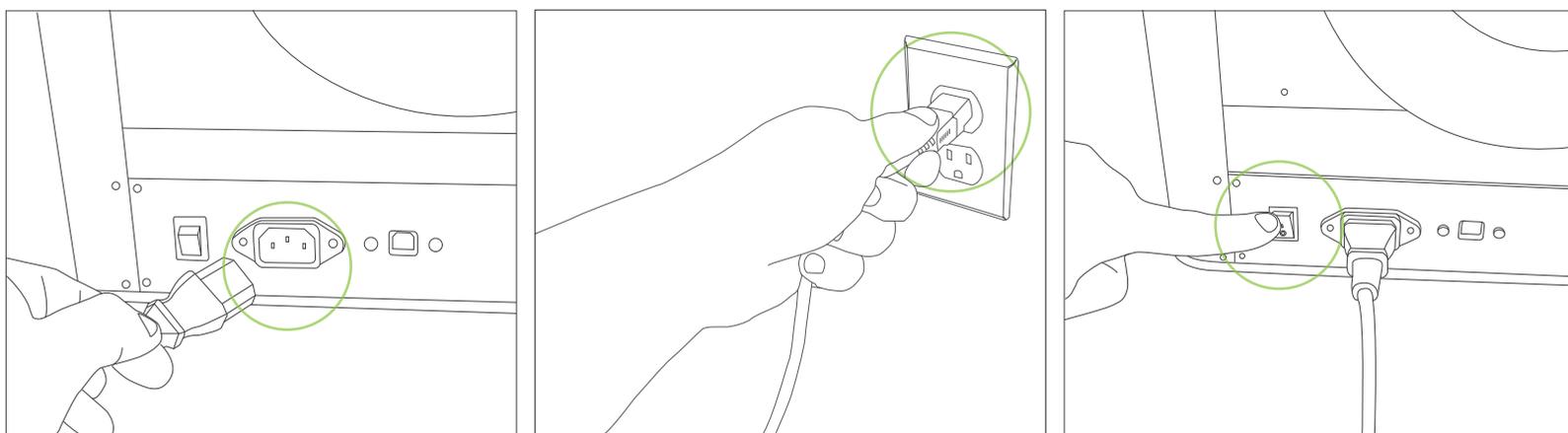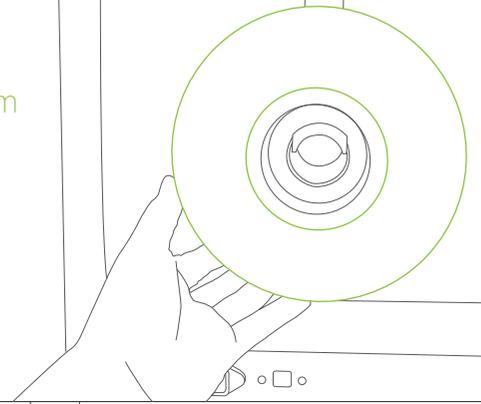
! Ensure the power outlet is located near the equipment and must be readily accessible.
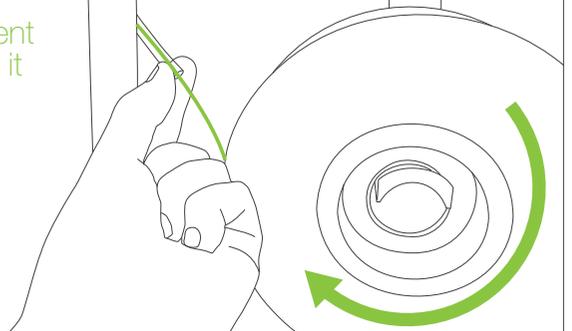
INSTALLING THE FILAMENT

1 Extend the filament guide tube from the retracted position.
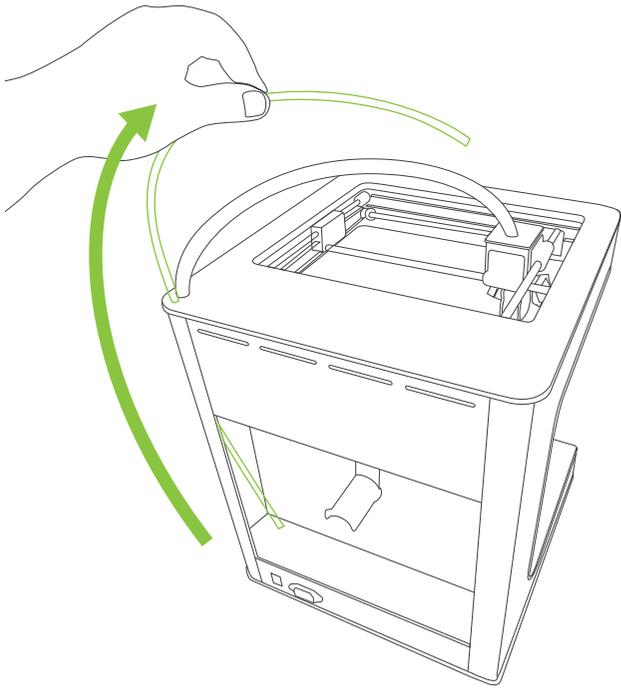
**2** Remove the filament spool from the packaging and place it on the spool holder.

3 Take the end of the filament from the spool and insert it into the guide tube.

**4** Thread the filament through the guide tube and insert it into the extruder. You'll need to push down on the tensioner button to open up a gap.

! If you are having trouble feeding the filament into the hotend, pull the filament out and trim off the tip of the filament with a pair of scissors.
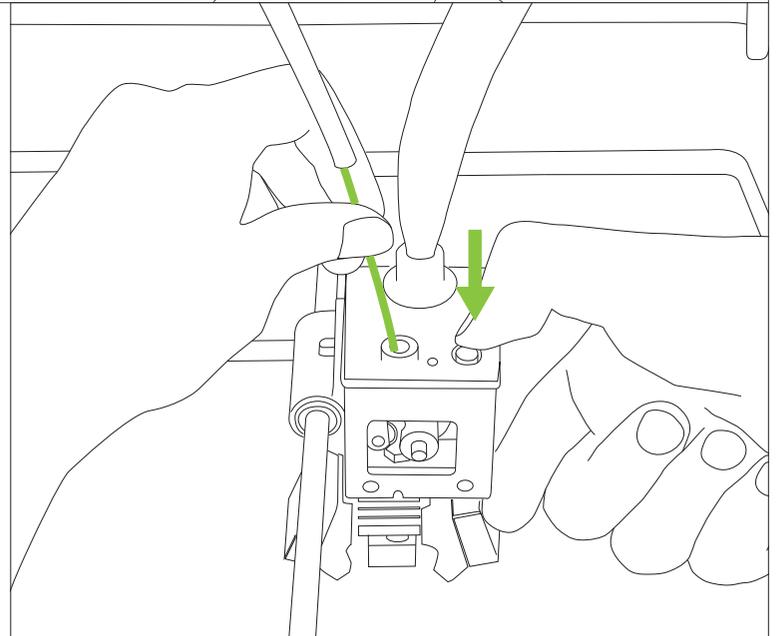
5 Once the filament is inserted all the way down into the hotend, insert the guide tube into the top of the extruder cap.
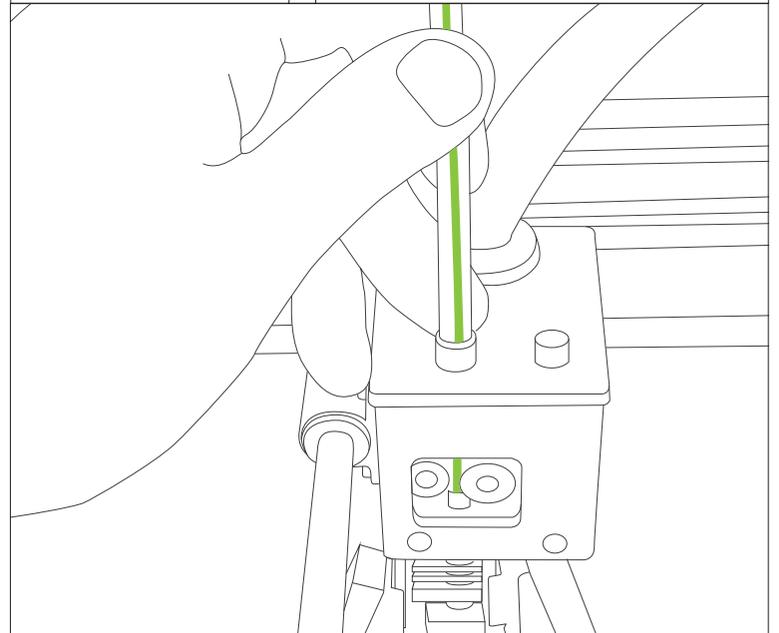
INSTALLING THE PRINT BED

1 Place the glass print surface onto the bed with the blue painter's tape side facing upward. The tape will act as an adhesion material for the plastic.

! Replace any worn or damaged blue painter's tape as needed to ensure that your prints stick properly during the printing process.

2 With the clips provided in the accessory kit, slide each clip on to pinch the bed platform and glass print surface together. Repeat until all four clips are secured onto the bed as shown.
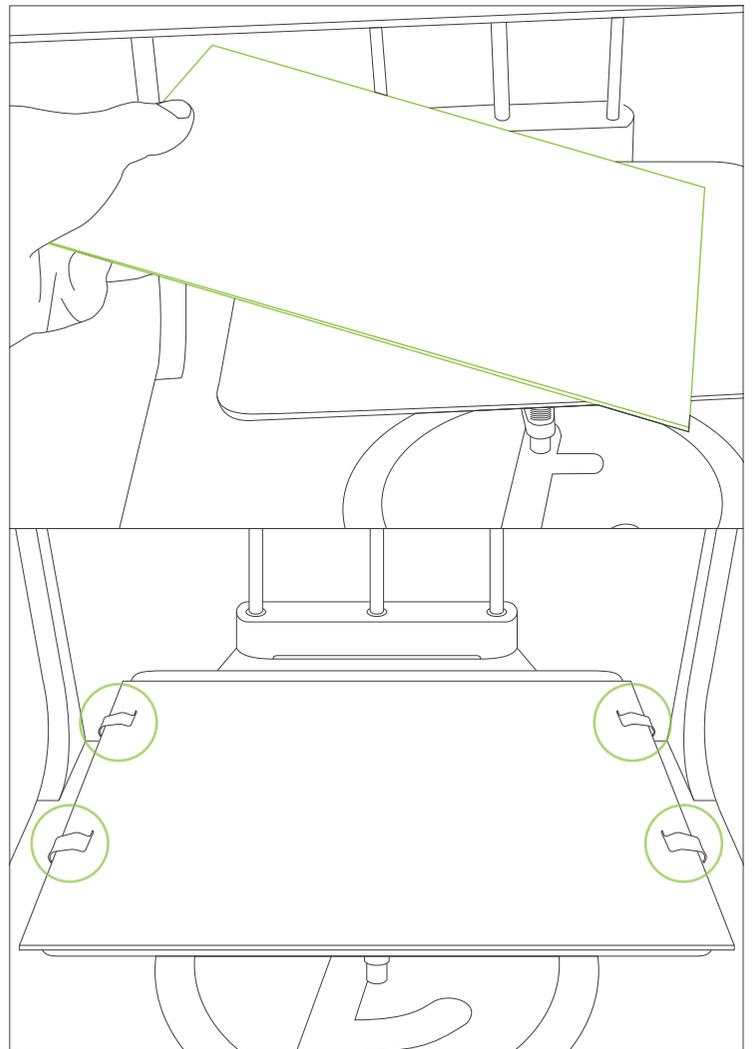
STARTING THE PRINT BED CALIBRATION
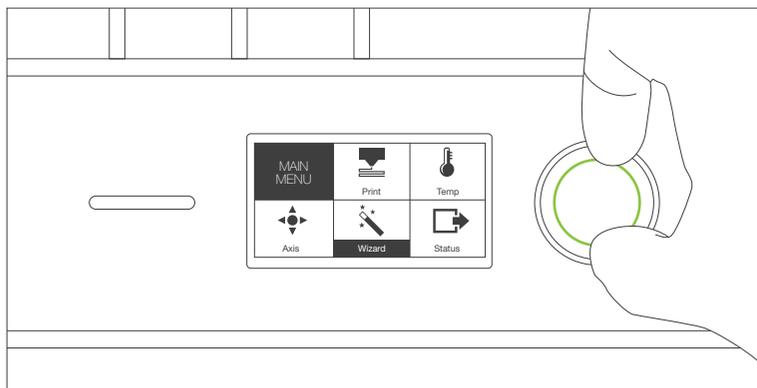
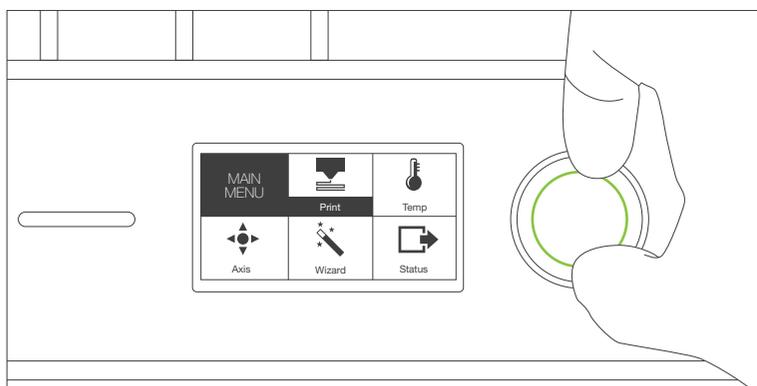**1** From the main menu, turn the dial to scroll to Wizard. Push down on the dial to select.
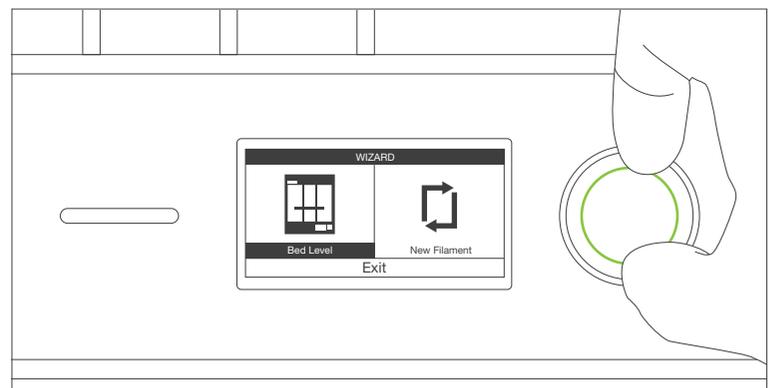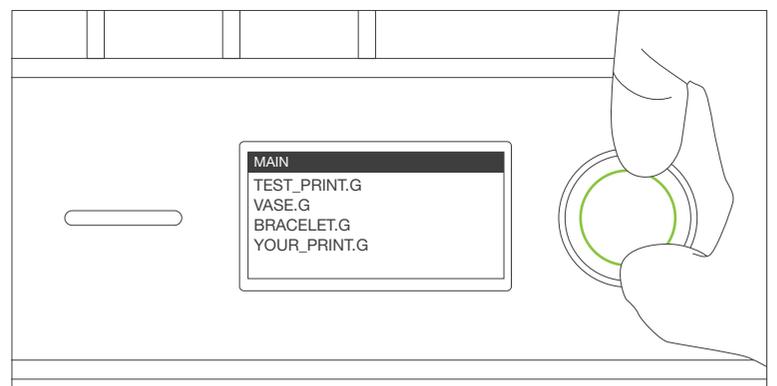
2 Select the Bed Level option and follow the on-screen instructions to level the printer's bed level.

STARTING A PRINT

1 From the main menu, turn the dial to scroll to Print. Push down on the dial to select.
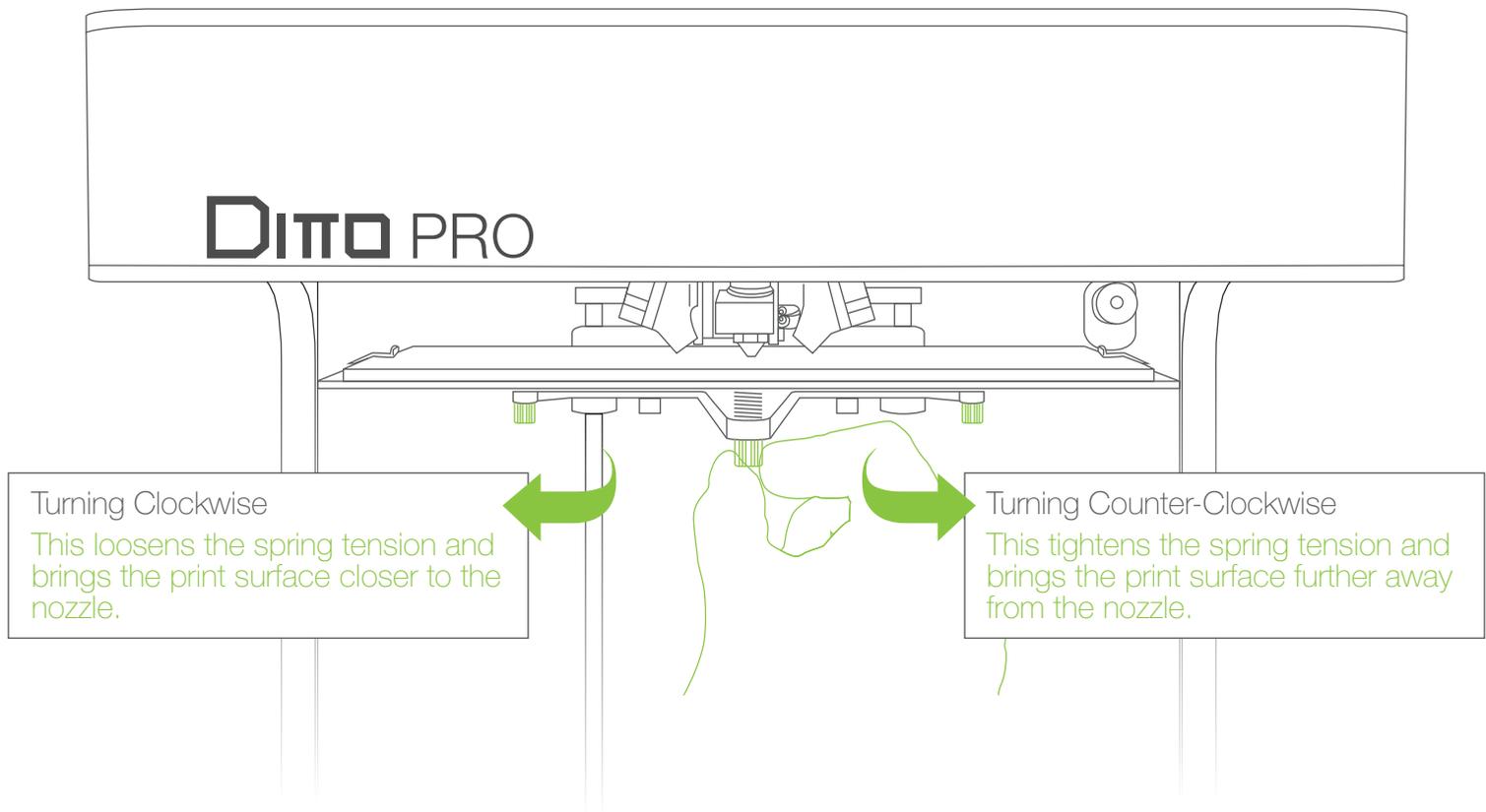
2 Scroll down to the file you want to print and push down again to start the print.

BED LEVELING GUIDE

To ensure that your prints always stick to the glass build plate, the build surface must be properly leveled so that the nozzle is at an equal set distance across the print surface. Use the Bed Leveling Wizard and follow the on-screen instructions to assist you in leveling the print bed.

Initialize the Bed Leveling Wizard from the LCD menu on your Ditto™Pro 3D Printer and follow the on-screen instructions to begin bed leveling. To level your bed, the wizard will move the extruder to four points on the print bed and ask you to adjust the thumb screws to make the distance between the nozzle tip and print bed equal across the print surface.

Turning Clockwise
This loosens the spring tension and brings the print surface closer to the nozzle.

Turning Counter-Clockwise
This tightens the spring tension and brings the print surface further away from the nozzle.

With each of the three thumbscrews, adjust until the gap between the nozzle tip and print surface is roughly the thickness of a piece of paper. If there is a large gap, you will need to turn the screw clockwise to bring the bed closer to the nozzle. If there is no gap and the nozzle is scraping the print tape, you will need to turn the thumbscrew counter-clockwise until you see a small gap.

STARTING A PRINT

Whenever you begin a print, always check that the first layer of the print is properly stuck onto the blue painter's tape. A properly leveled bed should have the extruded filament a bit squished and shouldn't pop off the bed easily. While the printer is performing the skirt nozzle purge, observe the deposited filament and make micro-adjustments with the thumbscrew if necessary.

| TOO CLOSE | LEVELED | TOO FAR |