



AFINIA 3D™

Quick Start Guide

QD330

3D PRINTER

! WARNING

-
1. Please refer to this Guide for initial printer setup.
 2. Hot! Avoid touching the heating nozzle in operation.
 3. Moving parts in the printer may cause injuries. Do not wear gloves or other sources of entanglement in operation.
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! Safety Notice

Do not power on the printer until installation is completed.

! WARNING

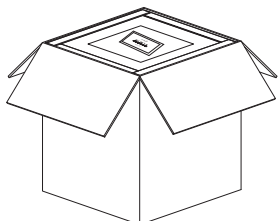
This printer - when used with styrene filament (ABS / HIPS / PC-ABS) can expose you and others in the same room to styrene, a chemical known to the State of California to cause cancer.

www.P65Warnings.ca.gov

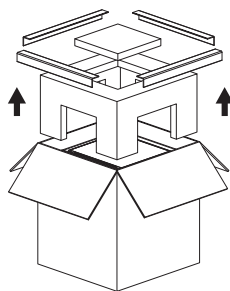
ALWAYS OPERATE THIS PRODUCT IN A WELL-VENTILATED AREA.

Unboxing Instructions

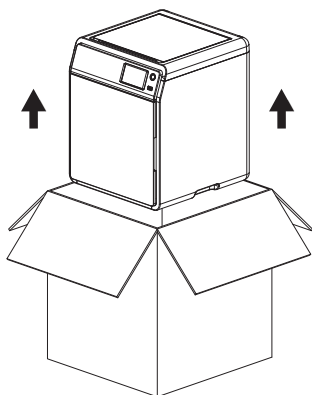
1. Open the box.



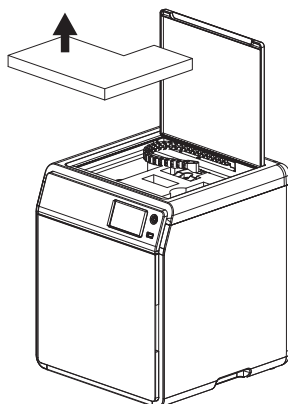
2. Remove the upper foam packaging, Quick Start Guide and After-sales Service Card.



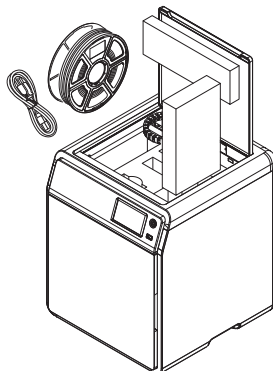
3. Take out the machine, place it on a level workspace and remove the packaging bags and tapes.



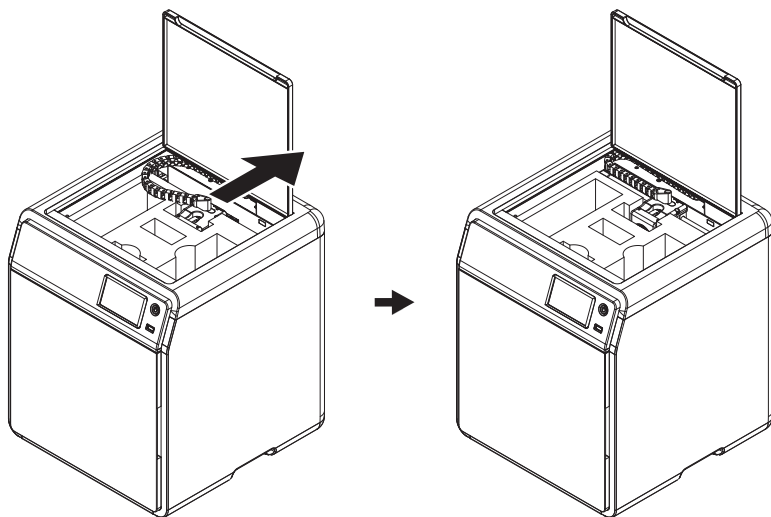
4. Open the top cover and remove the upper protective foam.



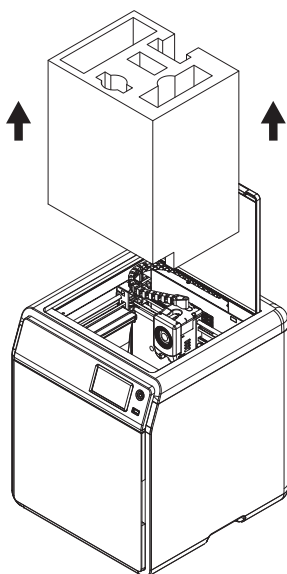
5. Remove the filament, power cable, and accessory box from the chamber protective foam. Remove the inner protective foam from the extruder.



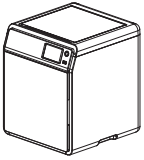
6. Move the extruder and chain according to the arrow direction.



7. Remove the foam.



Packing List



3D Printer



Filament



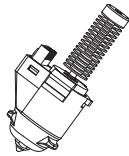
Power Cable

After-sales Service Card

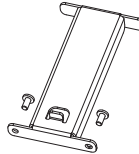
After-sales Service Card



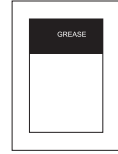
Quick Start Guide



0.6mm Nozzle



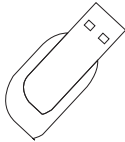
Spool Holder
(with 2 screws)



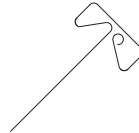
Grease



Glue



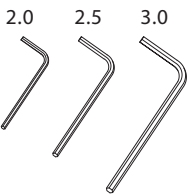
USB Disk



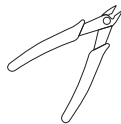
Unclogging Pin Tool



Screwdriver

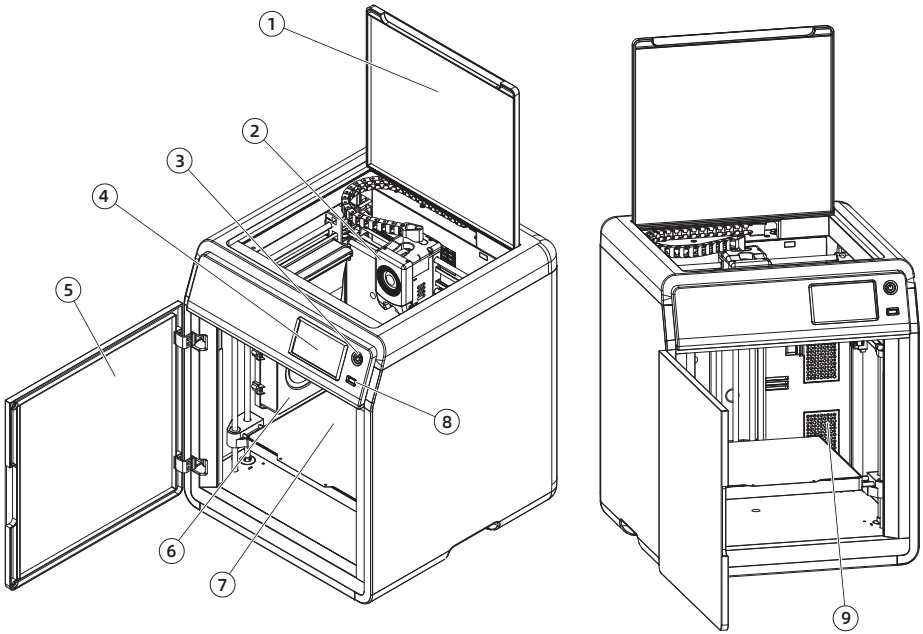


Allen Wrench Set

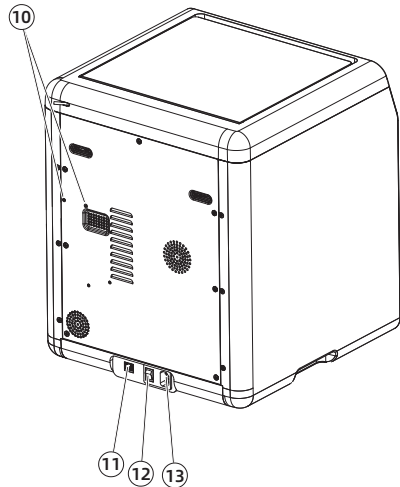


Diagonal Pliers

Printer Components

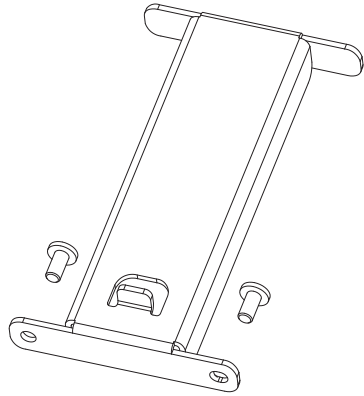


1. Top Cover
2. Extruder
3. Switch Button
4. Touch Screen
5. Front Door
6. Auxiliary Cooling Fan
7. Build Plate
8. USB Port
9. Air Filter
10. Screw Holes for Spool Holder
11. Ethernet Input
12. Power Switch
13. Power Socket



Install the Spool Holder

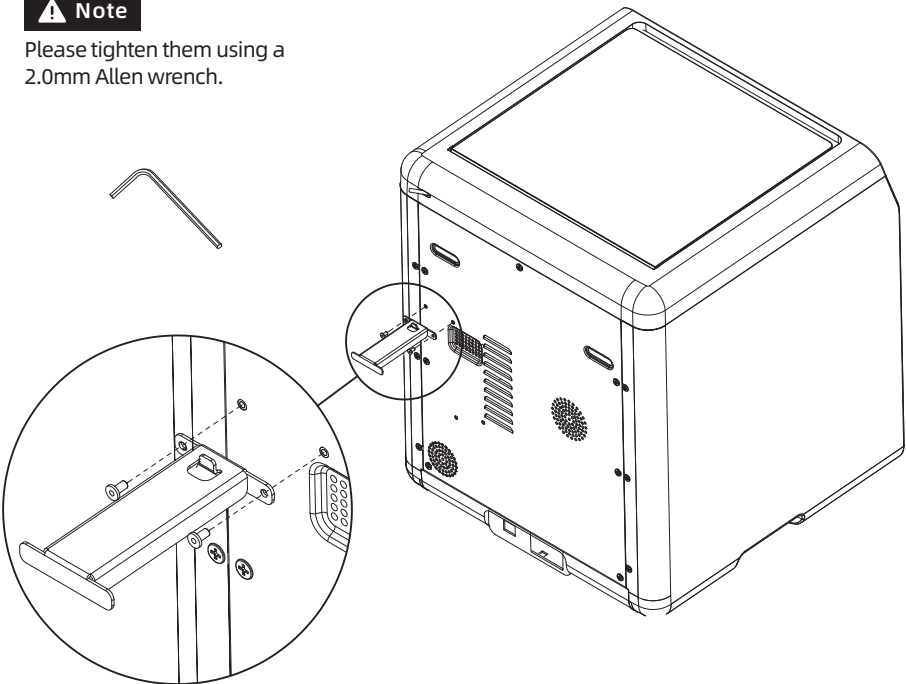
1. Take out the two screws and spool holder from the accessory box.



2. Install the spool holder at the position shown in the figure with the two screws.

Note

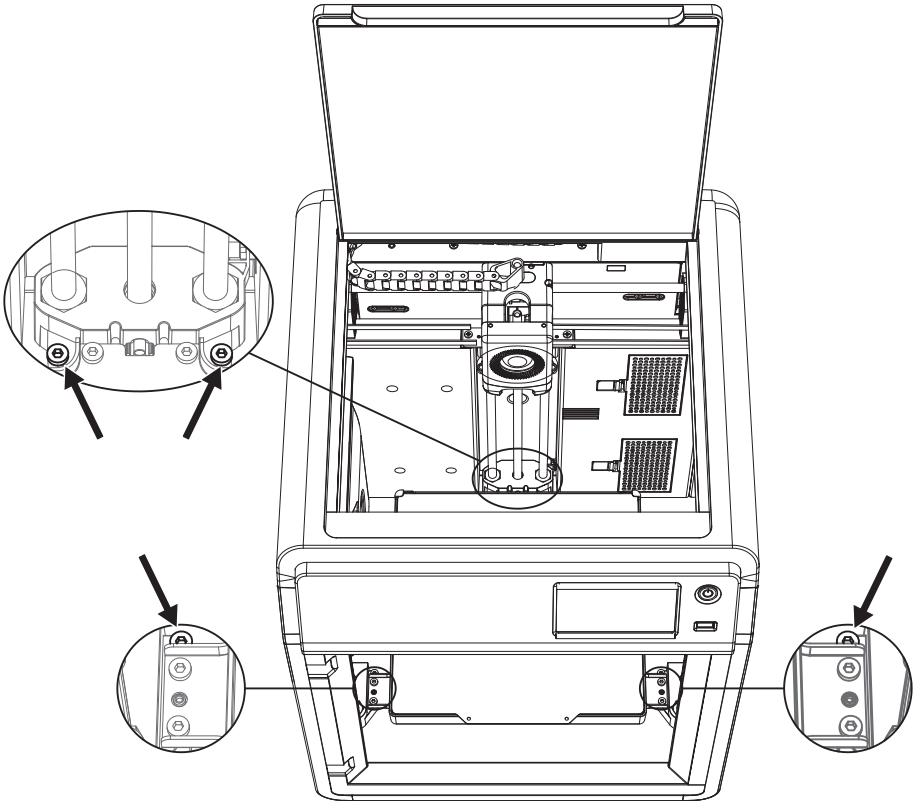
Please tighten them using a 2.0mm Allen wrench.



Unlock the Build Plate

Note Please ensure the platform has been cleared up.

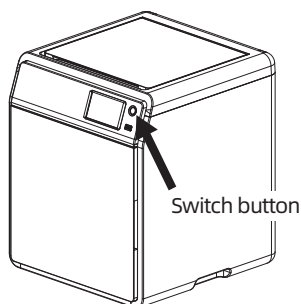
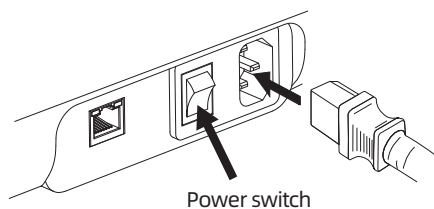
Please use a 2.0mm Allen wrench to remove four screws which lock the build plate (as indicated by the arrow).



First Print

* The interface layout may change whenever there is an upgrade of firmware.

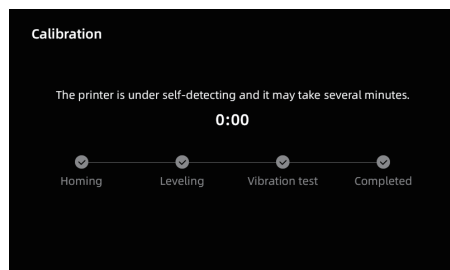
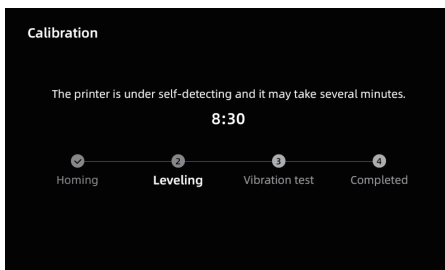
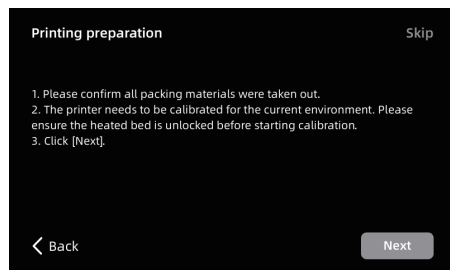
1. Connect the power, turn on the power switch, and press the switch button to turn on the screen.



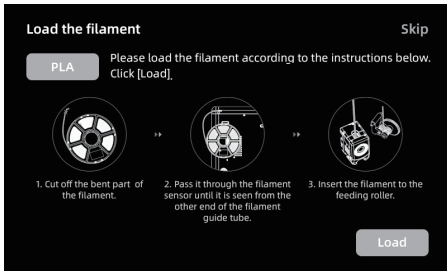
2. Following the guide on the screen, select the language.



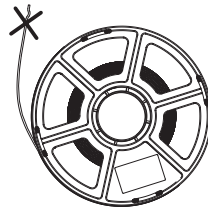
3. Click [Next] according to screen prompts and the machine will perform the first calibration. Vibrations and noise during calibration are normal. (Note: Please keep the machine on a stable surface and do not move it during calibration.)



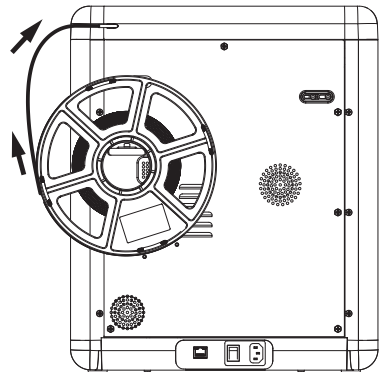
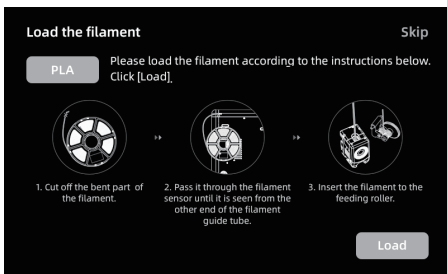
4. Load filament following the on-screen startup boot:



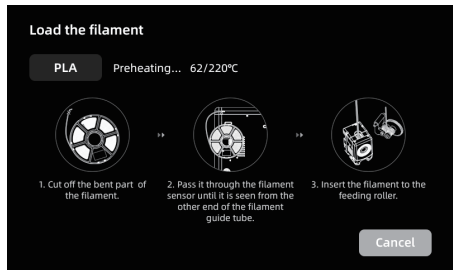
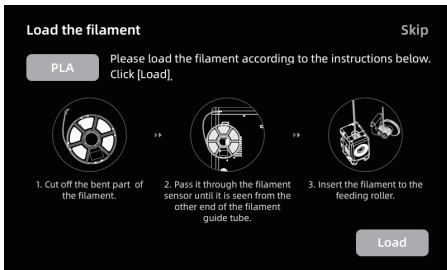
a. Cut off the bent part of the filament end.



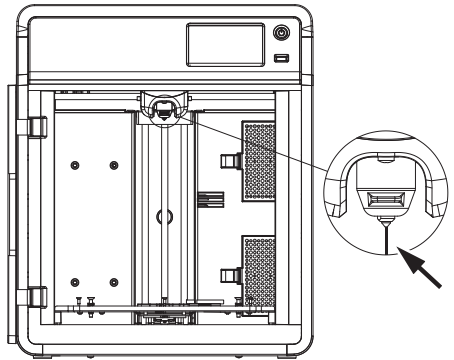
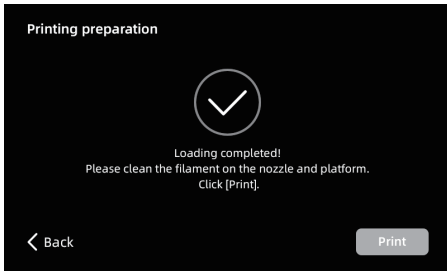
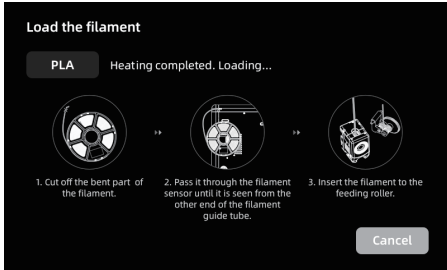
b. Hang the filament on the spool holder. Pass it through the filament sensor until it's seen from the other end of the filament guide tube. Push it forward to the feed roller, until it can not go further. (Please use PLA filament for the first print on initial setup).



C1. Click [Load] and select [PLA] for the first print. C2. Wait for the extruder to heat up.

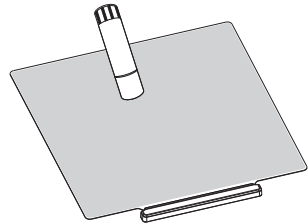


C3. Feeding will begin after heating. Successful filament extrusion from the nozzle indicates successful loading. Lastly, confirm the filament guide tube is properly inserted.

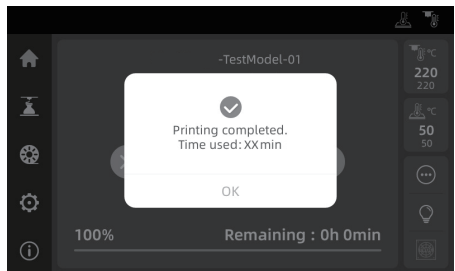


Note If no filament is extruded, manually insert the filament into the inlet and click [Back] to retry. Feel for filament movement until it is extruded.

5. Please clear the filament residues on the nozzle and platform. Users must apply glue to the platform so as to improve adhesion for the first print.



6. Click [Print] and the machine starts printing the built-in file (configured for PLA material).



Parameters

Machine Name	QD330
Extruder Quantity	1
Printing Precision	±0.2mm [testing based on 100mm cubes]
Positioning Accuracy	X/Y-axis: 0.0125mm, Z-axis: 0.0025mm
Layer Thickness	0.1-0.4mm
Build Volume	220 x 220 x 220mm
Nozzle Diameter	0.4mm default [0.6/0.8/0.25mm optional]
Printing Speed	10-300mm/s
Max Acceleration	20000mm/s ²
Max Travel Speed	600mm/s
Max Extruder Temperature	280°C
Supported Filament	*PLA/*PETG/*TPU [0.4mm nozzle] ABS/ASA PLA-CF/PETG-CF [0.6/0.8mm nozzle] * Note: Materials marked with * are recommended for printing.
Power Supply	Input: AC 100~240V, 50/60Hz, 350W
Device Size	380 x 400 x 453mm [excluding the spool holder]
Net Weight	14.6kg
Connectivity	USB/Wi-Fi/Ethernet
Operating Temperature	15-30°C (59-86°F)
Compatible Operating System	Windows 7/8/10/11; Linux support version Ubuntu 20.04 or later; Mac OS support version 10.9 or later.
Slicing Software	Afinia 3D Slicer
Max Platform Temperature	110°C
Leveling Method	One-click auto leveling
Filament Run-out Reminder	√
Power Loss Recovery	√
Smart Touch Screen	4.3-inch
Remote Video Monitoring	√
Time-lapse Video	√
Air Filtration	Internal circulation + external circulation [HEPA + activated carbon]
Build Plate	PEI flexible steel plate
Automatic Shutdown	√



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