3Doodler 2.0
WARNINGS & NOTICES
ENGLISH

⚠ WARNING

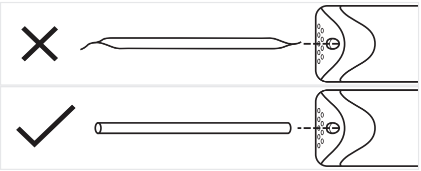
- **BURN HAZARD.** The nozzle of the 3Doodler and the adjoining rubber tip can become extremely hot. DO NOT touch the nozzle or the adjoining rubber tip, the parts near the nozzle or the parts near the adjoining rubber tip, or any melted plastic/filament, or you may be severely burned! DO NOT allow the nozzle or the adjoining rubber tip near or in contact with flammable materials. Inform others in the area that the unit is hot and should not be touched. Unplug and set the slide switch to OFF when not in use or before storing. After use, allow the nozzle and the adjoining rubber tip to cool completely before storing. The hot nozzle or adjoining rubber tip may damage painted surfaces, plastics and cloth if left in direct contact with these materials.
- **BURN HAZARD.** The Cleaning Tool can become extremely hot. DO NOT touch the metal part of the Cleaning Tool after using it to clean your 3Doodler, or you may be severely burned!
- If the 3Doodler is emitting black or brown smoke, cease using the pen immediately, unplug the pen, allow the pen to cool, and then store it away safely. Failure to do so will increase the risk of fire. Please contact us immediately at cs@the3Doodler.com in such circumstances.
- ADULT USE ONLY. KEEP OUT OF REACH OF CHILDREN.

WARNING: DO NOT use the 3Doodler near bathtubs, showers, basins or other vessels containing water. This could result in death due to electric shock.

The 3Doodler should only be used with 3Doodler approved filaments or materials. Misuse of your 3Doodler and/or use of non-approved plastics, filaments or other materials may result in damage to your pen or injury to you, and will void your warranty. Injuries to the user may include, but are not limited to, harm sustained from inhaling substances that are not suitable for heating, or burns from flammable materials used in the 3Doodler.

⚠ NOTICE

SNIP THOSE ENDS!
After removing a strand/filament from the 3Doodler, cut and remove any partially melted material at the end of your strand before re-feeding it into the 3Doodler. This will reduce blockages or clogging issues.



DO NOT pull plastic/filament from the back of the 3Doodler. This will result in damage to your pen and will void your warranty. If you wish to reverse your plastic/filament, please follow the instructions on step 7.

When switching from lower temperature plastic/filament (such as PLA or WOOD) to higher temperature plastic/filament (such as ABS or FLEXY), the presence of any residual plastic/filament in the pen's heating chamber may cause a slight amount of smoke to emit from the pen. This is due to the application of a higher melting temperature being applied to lower melting temperature materials.

For more information, customer service, repairs, or returns, please contact us at cs@the3Doodler.com

IT'S TIME TO 3DOODLE!

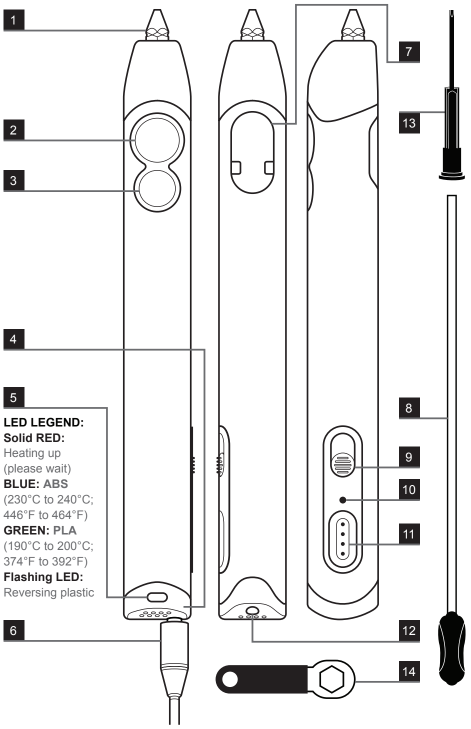
You are now the proud owner of a 3Doodler 2.0. The 3Doodler puts the power of creation in the palm of your hand and allows you to draw objects in 3D quickly and easily!

#WhatWillYouCreate?™
To find great ideas for what you can create, as well as tips, tricks & free downloadable stencils, please visit our community website at:
www.the3Doodler.com/Community

GETTING TO KNOW YOUR 3DOODLER

1 Nozzle
2 Extrusion Speed Control (FAST)
3 Extrusion Speed Control (SLOW)
4 Cooling Fan
5 LED Indicator
6 Power Cord
7 Maintenance Cover
8 Unblocking Tool
9 ON/OFF Switch & HI/LO
10 Temperature Adjuster
11 Control Port
12 Plastic/Filament Loader
13 Mini Screwdriver
14 Nozzle Removal Tool

ALWAYS 3DOODLE IN A WELL VENTILATED SPACE



LED LEGEND:
Solid RED:
Heating up
(please wait)
BLUE: ABS
(230°C to 240°C;
446°F to 464°F)
GREEN: PLA
(190°C to 200°C;
374°F to 392°F)
Flashing LED:
Reversing plastic

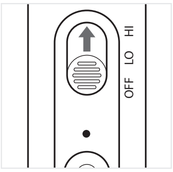
Actual product may vary from the image found in this document

USING YOUR 3DOODLER 2.0

Step 1: Connect your 3Doodler 2.0 to the power adapter
Connect the power adapter to the back of the 3Doodler and plug it into a power source.

Note: If you have also purchased the 3Doodler JetPack™ you can also connect this to the back of the 3Doodler as a power source.

Step 2: Turn on the pen and select your plastic/filament
Turn the pen on by selecting the correct heating temperature for the type of plastic/filament you are using. Set the slide switch to HI (“High”) for high temperature plastics/filaments like ABS or FLEXY, or LO (“Low”) for low temperature plastics/filaments like PLA or WOOD.

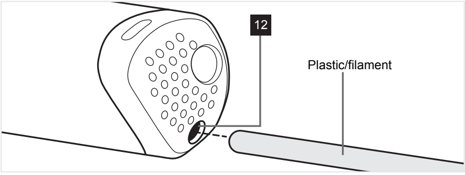


Step 3: Allow your 3Doodler to heat up before loading plastic/filament
The 3Doodler takes approximately 1.5 minutes to heat up. During that time the LED indicator will be **RED** and it will not be possible to use the pen. Once the correct melting temperature is reached and the pen is ready, the LED indicator will change to **BLUE** (HI) or **GREEN** (LO).

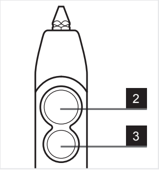
BLUE = HI (“HIGH”) ABS and FLEXY (heating range between 230°C and 240°C; or 446°F and 464°F)
GREEN = LO (“LOW”) PLA (heating range between 190°C and 200°C; or 374°F and 392°F)

Step 4: Load the pen
Load the plastic/filament into the plastic loader 12 at the back of the pen, feeding it down the length of the 3Doodler until you feel it gripped by the gears inside the pen. It can take up to 30 seconds for a newly loaded strand to begin extruding from the nozzle of the pen.

NOTE: If you do not feel the plastic/filament being gripped by the gears inside the pen, please give it a gentle clockwise twist while pushing it down the shaft of the 3Doodler.



Step 5: Extrude/select your speed



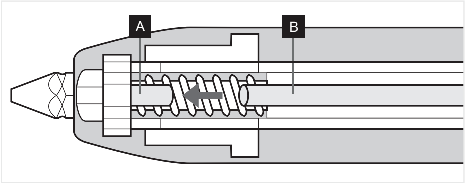
Press and hold the button for the desired extrusion speed (**FAST** 2 or **SLOW** 3) and wait for the heated material to emerge from the pen tip. Releasing the chosen speed button will cause the pen to stop extruding the heated material.

If the pen stops and the **RED** LED appears again, simply wait a moment for the LED to change to the appropriate color again (the pen is simply returning to its optimal heating temperature).

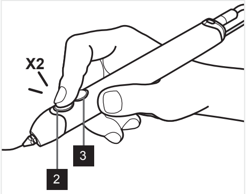
> **NOTE:** After 5 minutes of inactivity the 3Doodler's heating system will automatically power down. You will need to press one of the buttons OR toggle the slide switch off and then on again to continue use.

If the plastic/filament is not extruding, it may be because the existing plastic/filament A is too short or has fed beyond the gearbox, and you will not be able to reverse it. Please use a new strand of plastic/filament B or the Cleaning Tool to feed the remaining plastic/filament through the pen. In order to remove the Cleaning Tool, reverse the drive system as described in Step 7 while gently twisting the Cleaning Tool counter clockwise until you feel it move past the gears..

Note: For those of you who are curious, the distance between the gearbox and the nozzle is under one inch.



Step 6: Double Click for Continuous Flow



Your 3Doodler can be set to continuously extrude plastic/filament without you having to hold down on the extrusion buttons. Simply **double-click** on the desired extrusion speed (**FAST** 2 or **SLOW** 3) and your 3Doodler will continuously extrude plastic/filament for up to ten minutes before stopping.

To stop the continuous flow of plastic/filament, simply click on either the **FAST** 2 or **SLOW** 3 button on your 3Doodler.

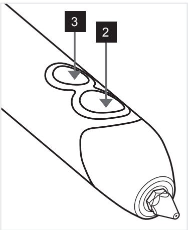
To temporarily pause the continuous flow of plastic/filament, hold down on either the **FAST** 2 or **SLOW** 3 button on your 3Doodler and then release to resume continuous flow.

> **NOTE:** Upon resumption of continuous flow, the extrusion speed will change depending on which extrusion button (FAST or SLOW) you used to pause the flow. The 10 minutes of continuous flow will restart after pausing.

Step 7: Unloading/reversing your plastic/filament

To unload the plastic:
1. Ensure that the device is still at the correct temperature required for the type of plastic/filament being used:

> **HI ("High") = BLUE LED** indicator
> **LO ("Low") = GREEN LED** indicator



Otherwise, please press one of the extrusion buttons and wait for the 3Doodler to heat up again.

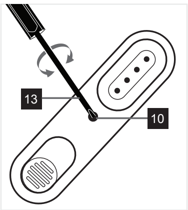
2. Hold down **BOTH** the **FAST** 2 and **SLOW** 3 extrusion buttons at the same time. The LED indicator 5 will flash.

3. When the plastic/filament stops moving in reverse you may gently take it out from the back of the pen 12.

Step 8: Power down

To safely turn the pen off, move the slide switch to the OFF position. Allow the pen to cool completely before storing.

PRO TIP: Optimize your melt temperature; using the mini-screw driver 13, tweak your 3Doodler's melt temperature +/- 5°C, for minor flow adjustments and expertly consistent Doodles. To do this, insert the mini screw driver into the potted Temperature Adjuster 10 on the control panel. **Turn the mini screw driver clockwise to increase the melt temperature, or anti-clockwise to decrease the melt temperature.**

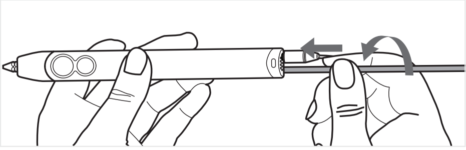


NOTE: Our 3Doodler is a sturdy and awesome tool, but like any mechanical device it needs a break now and then. We suggest giving it (and yourself) some downtime after 2 hours of continuous use (just a 30 minute break or so).

TROUBLESHOOTING AND CLEANING THE PEN

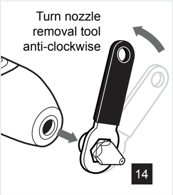
If the extrusion of plastic/filament has slowed down, stopped, or if you are having trouble inserting plastic into the pen, please give the plastic/filament a gentle clockwise twist while pushing it down the shaft of the 3Doodler.

If the nozzle is loose, please gently tighten it, stopping when you first feel resistance, and being sure to do so while the pen is hot. Try to extrude again. **WARNING: DO NOT force the nozzle or overtighten it, as you could permanently damage your 3Doodler.**



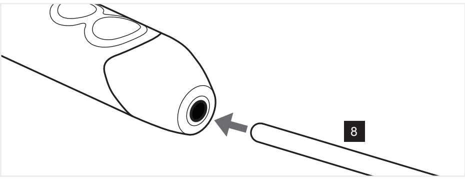
If this does not work, we suggest cleaning the 3Doodler. Please follow the steps below:

1. Ensure the LED light is **BLUE** or **GREEN** before starting this process (indicating that the pen is hot).



2. Start by using the nozzle removal tool 14 and unscrew the nozzle anti-clockwise while the pen is hot. Please be careful not to touch the nozzle!

3. Once you have removed the nozzle, hold down both the **FAST** 2 or **SLOW** 3 speed buttons at the same time to set the pen in reverse. While holding down both buttons, insert the Unblocking Tool 8 through the front end of the pen and gently push out any excess plastic, removing it from the back of the pen.

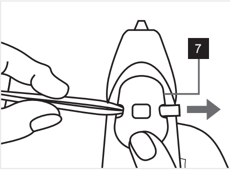


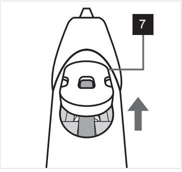
4. Turn the pen off and allow it to cool down a little, but not fully. Screw the nozzle on clockwise a few turns, but don't tighten it yet. Turn the pen back on; once it's hot and the LED is either blue or green, tighten the nozzle with the nozzle removal tool, stopping when you first feel resistance. **WARNING: DO NOT force the nozzle or overtighten it, as you could permanently damage your 3Doodler.**

5. If you are still experiencing problems extruding or suspect there may be a blockage in your 3Doodler, please remove the Maintenance Cover 7 as follows:

A) Ensure the LED light is **BLUE** or **GREEN** before starting this process (indicating that the pen is hot)

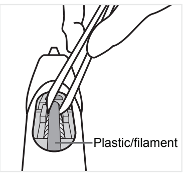
B) There is a metal bar inserted through the body of the Maintenance Cover. Simultaneously press the Maintenance Cover into the body of the pen while using metallic tweezers or a small flat-head metallic screwdriver to push the metal bar out through the side of the Maintenance Cover. It does not matter which side you push from. Once the metal bar is halfway out you can remove the bar by hand. Lift the Maintenance Cover out of the pen (rear end first).

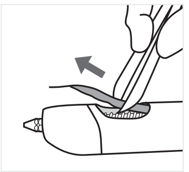




C) If you can see plastic wrapped around the drive gear (the mechanism that moves the plastic forward), press either extrusion button until the plastic ceases to be wrapped around the drive gear and comes loose. If no plastic is wrapped around the drive gears, go straight to step D.

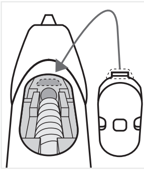
D) Ensuring that the LED light is still BLUE or GREEN, use your tweezers/screwdriver to grip and pull the plastic/filament away from the nozzle of the pen, towards the back of the pen. Once the plastic is loose, and the end of the plastic/filament is visible inside the opening of the pen, simply pull the plastic/filament out of the opening using your tweezers.

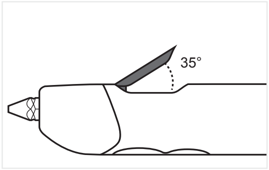




E) Replace the Maintenance Cover by inserting the latched end into the opening at an approximately 35° angle (as shown in the diagram). Make sure that the button is properly aligned and slots into place easily before pushing it back in. Once properly aligned firmly push it back down.

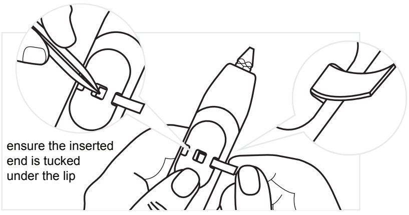
WARNING: DO NOT FORCE THE BUTTON INTO POSITION AS YOU WILL BREAK THE INSIDE PARTS OF THE 3DOODLER.





F) Once the Maintenance Cover is back in place, simultaneously press the Maintenance Cover into the body of the pen while inserting the metal bar back through the Maintenance Cover from either end. Make sure the bent part of the metal bar protrudes inwards towards the inside of the pen (as per the diagram).

WARNING: Never insert the metal bar the wrong way around or it will irreparably damage your pen. Use your tweezers or a small metallic screwdriver to ensure the ends of the metal bar are flush with the sides of the Maintenance Cover. If you are struggling to insert the metal bar, please ensure the inserted end is tucked under the lip of the far side of the Maintenance Cover before pushing it through again (see diagram for reference).


ensure the inserted end is tucked under the lip

For a full video of how to remove and replace your Maintenance Cover please go to the3Doodler.com/maintenance-cover

SPECIFICATIONS

Output Power: 6W
Output Voltage: 5V
Input Voltage: 5V

Specifications are subject to change and improvement without notice.

CARE & MAINTENANCE

For care and maintenance information, and more advice on how to use your 3Doodler, please refer to our website: **the3Doodler.com**
To troubleshoot, please visit: **the3Doodler.com/troubleshooting**

LIMITED WARRANTY

For more details on your limited warranty, pleae visit: **the3Doodler.com/warranty**

FC CE

For 3Doodler's Terms and Conditions and other notices please refer to our website: **the3Doodler.com/terms-and-conditions**

FCC NOTICE

CAN ICES-3 (B)/NMB-3(B)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Patent Pending

ADULT USE ONLY. THE 3DOODLER IS NOT A TOY FOR CHILDREN. ALWAYS USE THE PROTECTIVE COVER PROVIDED WITH YOUR 3DOODLER.

This marking indicates that this product should not be disposed of with other household wastes. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources.

3Doodler, DoodleStand, JetPack, StrandStand, and "#WhatWillYouCreate?" are trademarks owned by WobbleWorks, Inc.