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Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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Getting the most out of your



#WhatWillYouCreate?



Hello

Please do not throw these instructions away. (We worked really hard to make sure they were as useful and readable as possible!)

the3Doodler.com

Revised: April 20, 2016

SECTION 1: WARNINGS

<u>/</u>	V WARNINGS
	 The Nozzle of the 3Doodler can become hot. DO NOT touch the Nozzle, or you may be burned! DO NOT allow the Nozzle near or in contact with flammable materials. Inform others in the area that the Pen is hot and should not be touched.
Ċ	Unplug and set the Control Switch to OFF when not in use or before storing.
×	Allow the Nozzle to cool completely before storing.
	The Unblocking Tool can become hot. DO NOT touch the metal part of the Unblocking Tool after using it to clean your 3Doodler, or you may burn yourself!
	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 ABS or PLA plastic filament approved by us. Misuse of your 3Doodler, setting your pen to the wrong heating temperature, and/ or use of non-approved plastics 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 flamable materials used in the 3Doodler.

ADULT USE ONLY. KEEP OUT OF REACH OF CHILDREN.

Disposal of this product

At the end of your 3Doodler's life, please do not dispose of it in your general household waste. In order to prevent possible harm to the environment or human health from uncontrolled waste disposal, please dispose of your 3Doodler separately in accordance with local laws and regulations. For more information on the separate collection systems for waste electrical and electronic equipment, please contact your local municipal authority. You can also contact the retailer from which you purchased your 3Doodler, who may have a recycling service, or be part of a specific recycling scheme that you can use.

SECTION 2: GETTING STARTED WITH 3DOODLER

We created this User Manual as a step-by-step guide to get you comfortable with your **3Doodler Pen** and its features. Once you are familiar with these steps, you will be able to Doodle with confidence. Skipping steps may result in a less enjoyable time with your **3Doodler**.



How it Works:

The 3Doodler melts **Plastic** and uses a motor and gears (**Drive Gear**) to push it through the **Pen's** hot end (**Nozzle**) in a thin line. This process is called **extruding** or **extrusion**, and we will refer to it throughout this User Manual. Once extruded, **Plastic** cools and hardens instantly, allowing you to draw on surfaces and in the air. This User Manual will show you how!

Step 1: Turn on your 3Doodler and wait for it to heat up





Plug in **3Doodler Pen**.

Slide Control Switch to HI.



Light will glow RED while the Pen is reaching the temperature required to melt your Plastic. Once Light has turned BLUE, your Pen is ready to extrude Plastic.

Step 2: Load and extrude Plastic



Select one strand of **ABS** (MATTE) Plastic (provided in your **3Doodler** box).



Click **FAST** button once and release. You will hear the **Drive Gear** start.



Making sure the **Light** is still **BLUE**, push the **Plastic** through the **Plastic Loading Port**.



Using your thumb and forefinger, gently grip and turn **Plastic** clockwise while pushing into **Plastic Loading Port** until you feel the strand pulled through the **Drive Gear** on its own.



When loading **Plastic**, ensure it reaches the area towards the end of the **Maintenance Cover** in order to be gripped fully.



Press the **FAST** button once to stop extruding.



After 10-15 seconds, **Plastic** will begin extruding from the **Nozzle**. Extruded **Plastic** will harden after a few seconds.

Step 3: Doodle your name

Use box below to create your first Doodle your name!



Write your name in the box provided using marker, pen, pencil, or any other writing utensil of your choice. We suggest cursive, or block with the letters connected.



Doodle your name in a continuous unbroken Doodle by dragging the **Plastic** along the paper as if you were writing with a pencil, with all letters connected. Keep your movement slow and steady.



Bend the paper outwards to pop your Doodled name off.



Click FAST button once. When Plastic starts extruding, push Nozzle down into paper to get Plastic to stick to surface.



When you reach the end of your name, stop extruding by clicking the **FAST** button once again.

Your Name:

#MyFirstDoodle

Step 4: Doodle in the air!

Please read all steps below before you begin this section, which will teach you how to Doodle vertically in the air.



Extrude Plastic onto a piece of paper until you have a blob about the size of a ladybug. Make sure it is anchored into the paper.



Click the FAST button to stop extruding, BUT DO NOT MOVE PEN YET.



Pull the Pen away. The line will remain vertical.

Well done! You just Doodled in the air! This is a crucial stepping stone to making all kinds of wonderful three dimensional objects with your 3Doodler.

Step 5: Doodle Even More!

For further guides, projects and inspiration, please refer to:



YouTube videos: Cube 📭 https://www.youtube.com/3Doodler



YouTube videos: Squiggly 💽 https://www.youtube.com/3Doodler



Stencils provided at the back of this manual: Eiffel tower - P.13-15



Stencils provided at the back of this manual: Glasses - P.16-17



Community projects for further inspiration and guidance: http://the3Doodler.com/community



Lift Pen and Plastic up off the paper in a straight line for 1.5 in.



Wait a few seconds with the Pen still connected to the top of your Plastic line.

Now that you've Doodled with ABS Plastic, we want to show you everything you need to know about changing Plastic and introduce you to the different types of Plastic.

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Step 6: Reverse and Remove Plastic



With **Pen** set to **HI**, wait for **BLUE Light** to come on.



Once **Plastic** stops reversing, it is safe to remove it from the **Pen** by gently pulling on the back of the strand.

TIP SNIP THOSE ENDS!

After removing a **Plastic** strand 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 and clogging issues.



. Flashin

Double click either Speed

Button. Light will start flashing to signal Plastic reversing.

NOTE:



Plastic that is shorter than 5.3 inches cannot be reversed. You should feed it all the way through your **3Doodler** and use it up. (Alternatively, you can push **Plastic** out the back - see Section 3, Step 3B.)



Step 7: Let's Switch to PLA Plastic!



With **Pen** on **HI**, load a new strand of **PLA Plastic** into **Plastic Loading Port**. Use a different color to the **ABS** you were using before.



The color of the **Plastic** will change once the **PLA** starts extruding. It will appear mixed at first. **STOP** extrusion by pushing either button once.



Click FAST or SLOW once to continue extruding the PLA Plastic and Doodle as you wish.

Step 8: Power Down



Remove all **Plastic** from the **Pen** using the **Reverse** feature (double click any **Speed Button**). Friendly reminder to snip those ends!



Allow your **3Doodler** to cool completely before storing.

NOTE:

After 5 minutes of inactivity, the **3Doodler's** heating system will automatically power down. You will need to press one of the **Speed Buttons** OR toggle the **Control Switch OFF** and then **ON** again to continue use.

TAKE A BREAK:

We recommend powering down and giving your **3Doodler** a 30 minutes break after every 2 hours of continuous use.



Push the **Plastic** through the back of **Pen** and click the **SLOW** button once. Push and turn the **Plastic** clockwise if needed, until **Plastic** starts to pull through on its own.



Switch **Pen** to **LO** setting. Wait for **Light** to turn **GREEN**.



Move the **Control Switch** to **OFF**.

SECTION 3: TROUBLESHOOTING

Tools (Provided in Box)

Before showing you how to troubleshoot issues with your 3Doodler, we want to introduce you to three handy tools provided in your box:



With those introductions over, it's time to look at the different issues that may arise with your 3Doodler and steps to get back to Doodling.

1. My Pen won't turn on! (Light doesn't turn on)

Let's double check the following: A. Is the **Power Adapter** plugged into a working power outlet?

NOTE:

If you have a spare power adapter around the house please use it to test your **3Doodler**. This will help determine if the problem is with your **3Doodler** or with the **Power Adapter** provided in the box.



B. Is the end of the **Power Adapter** connected to the correct part of the **Pen**?



C. Make sure the Control Switch on your 3Doodler is not set to OFF.

2. My Plastic is extruding but it won't stick to the paper, or is curling up around the Nozzle.

Stop extruding and start again using the following instructions:

When the **Plastic** resumes extruding, push the **Nozzle** firmly down into the paper, allowing **Plastic** to stick to the surface.

Drag the **Plastic** along the paper or surface in a continuous unbroken line as if you were writing with a pencil.

Keep your movement slow and steady. The **Plastic** should hold to the paper and not curl up around the **Nozzle**.



3. My Plastic is not extruding from my 3Doodler.

3A. Plastic not engaging properly with the Drive Gear:

Gently push and turn the **Plastic** clockwise until you feel the strand pulled through the **Drive Gear** on its own.

If the above does not work, reverse the **Plastic** fully from the **Pen**. (See Section 2, Step 6) Snip ends, then reinsert and try again.

If **Plastic** is too short to be removed from the **Pen**, move to 3B.

3B. Plastic is too short to be removed from the Pen:

Try unscrewing the **Nozzle** and using the **Unblocking Tool**.

While **Pen** is hot (**BLUE** or **GREEN Light** on), use **Mini Spanner** to unscrew and remove **Nozzle** anti-clockwise.

Insert **Unblocking Tool** through open front end of **Pen** and gently push any excess **Plastic** out through the back of the **Pen**.





3C. Plastic may be wrapped around the Drive Gear.

Remove **Maintenance Cover** using **Mini Screwdriver** provided in the box.

Use the Mini Screwdriver or Unblocking Tool to lift and release Plastic from the Drive Gear and out of the Pen through the open area beneath the Maintenance Cover or from the Plastic Loading Port.



4. My Plastic is leaking from around the Nozzle.

Nozzle may loosen with continued usage (or in transit). While Pen is hot (BLUE or GREEN Light on), gently turn Nozzle clockwise to tighten it using the Mini Spanner provided. Stop tightening once you first feel resistance so as to avoid over-tightening the Nozzle and breaking it.



5. My Plastic won't stop extruding.

A. Click either the FAST or SLOW button once.
B. If Step A does not solve this problem, please unplug your
3Doodler and then plug it in and try again.

6. How do I reverse my unused Plastic?

TIP

While the **Pen** is on and hot (**BLUE** or **GREEN Light**), **double click** either the **FAST** or **SLOW** button. **Light** will start flashing to signal the **Plastic** is reversing. Once the **Plastic** stops reversing, it is safe to remove it from the **Pen** by gently pulling on the back of the strand.

If Plastic is too short to reverse, see Section 3, Step 3B.

Snip the ends of your **Plastic** now for easier loading and Doodling later.

7. I have reversed my Plastic but cannot get it out.

It is possible that the **Plastic** is either too short to reverse all the way out of your **3Doodler**, or that the **Plastic** has moved past the **Pen's Drive Gear** system.

You will be able to check for these issues by looking through the **Maintenance Cover**.

Plastic reversed, but too short to take out and no longer in contact with the Drive Gear. Plastic is beyond Drive Gear.

For both of these issues, you can try the following options: • Insert a new strand of **Plastic** or **Unblocking Tool** to push the remaining **Plastic** through while **Pen** is **ON** and extruding.



• Remove Nozzle and use Unblocking Tool to push Plastic out the back of the Pen. (See Section 3, Step 3B).

8. My Pen won't heat up! (light stays red).

It takes around 60-90 seconds for your **Pen** to heat up. If, after that time, the **Pen** still does not heat up and the **Light** remains **RED**, turn the **Pen ON** and **OFF** and try again. If that still does not work, please contact us at **help@the3Doodler.com** and we will assist further.

SECTION 4: TIPS AND BEST PRACTICES

Pay attention to Plastic types and settings

 For optimal Doodling, we suggest using the correct temperature settings for your **Plastic**.

 DO double check which type of **Plastic** you are using before you turn on the **3Doodler** and insert a **Plastic** strand. If your **Plastic** strands get mixed up, here is a handy table for sorting and identifying what you're working with.

ABS (MATTE):

Temp: HI Temp Light: BLUE Feature: Great for drawing in the air. How to tell: Plastic has white semi-circle ends.

PLA (GLOSSY / CLEAR / METALLIC / SPARKLE):

Temp: LO Temp Light: GREEN Feature: Eco-friendly and glossy, making it perfect for artistic creations. How to tell: Very rigid, no white semi-circle ends.

FLEXY: Temp: HI Temp Light: BLUE Feature: Make flexible, bendable Doodles. How to tell: Plastic is very flexible.







Do not forget to snip your Plastic ends

 After removing a Plastic strand 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.



Reverse and remove Plastic correctly

 DO NOT pull Plastic from the back of the 3Doodler other than as directed.



With the **Pen** set to **HI**, wait for the **BLUE Light** to come on.



Double click either **Speed Button** and the **Light** will start flashing to signal the **Plastic** is reversing.



Once the **Plastic** stops reversing, it is safe to remove it from the **Pen** by gently pulling on the back of the strand.

Take a break

• DO give your **3Doodler** a rest after every 2 hours of continuous Doodling. 30 minutes of down time should be plenty.

Treat your Nozzle right

 If you ever remove your
 Nozzle, DO NOT remove it when your 3Doodler is cold. Light should be BLUE or GREEN.

 If you ever need to tighten your Nozzle, DO NOT force the Nozzle or overtighten it, as you could break the Nozzle and permanently damage your 3Doodler.



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

CE

LIMITED WARRANTY

For more details on your limited warranty, pleae visit: the3Doodler.com/warranty For 3Doodler? Ferms and Conditions and other notices please refer to our website: the3Doodler.com/terms-and-conditions



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.

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.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.

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

SECTION 5: STENCILS Eiffel Tower



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