MOMENT 2
START GUIDE

moment

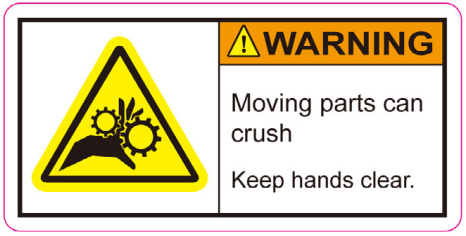
Catch the moment, fill your ideas

Contents

Caution

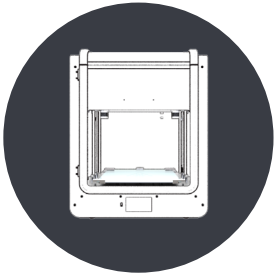
High temperature

Before you start printing with your new Moment Printer, please be aware of a few safety issues to prevent injury to yourself or damage to the printer. Please do not put your hands inside the build chamber of your Moment2 3D printer while it is operating, as there is a chance that you may get burnt. The hot nozzle of the printer reaches over 200 ˚ C. Also, if you use the heated build plate, the plate itself can sometimes get up to 100 ˚ C. So please allow the printer to cool down before removing your finished object.



Moving parts

While in operation, your Moment printer has many moving parts that can cause serious injury. Please do not put your hands into the machine while it is in operation.
You may get your hand jammed in the moving parts, leading to a painful injury or you may damage the machine, necessitating costly repairs.



Moment 2
3D Printer

Filament
Holder

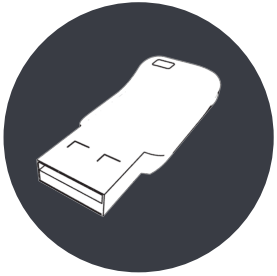
Filament
Spool

Power
Cable

Tweezers

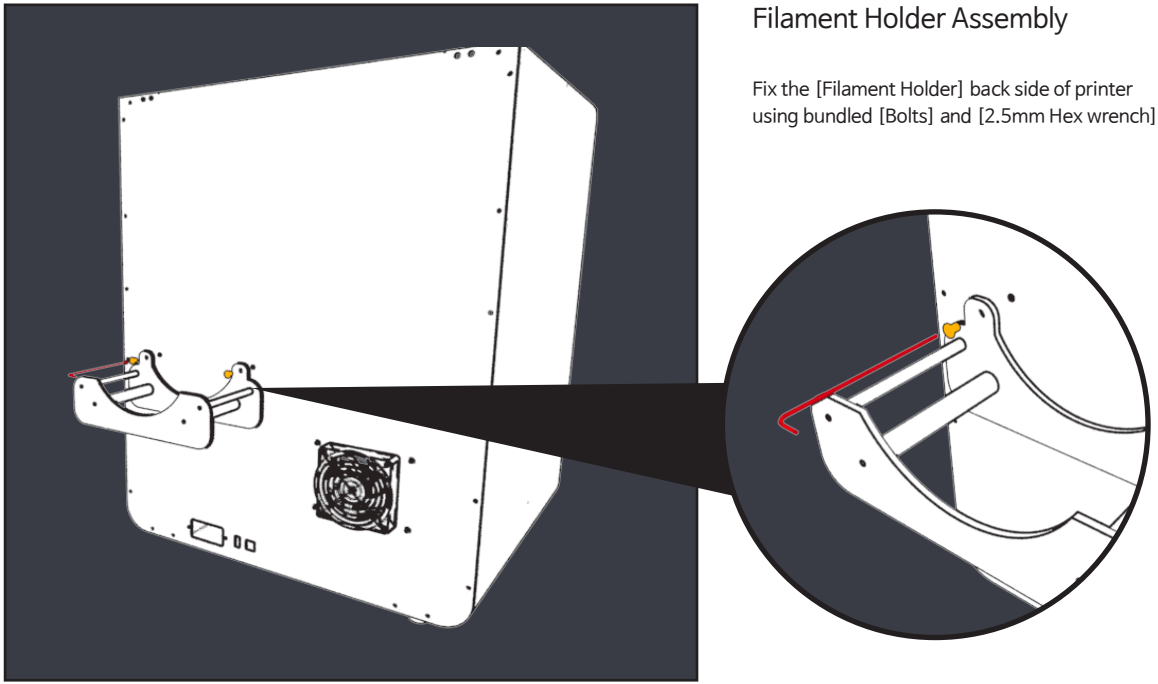
2.5mm Hex wrench

2mm Hex wrench



USB Memory

Filament Holder Assembly

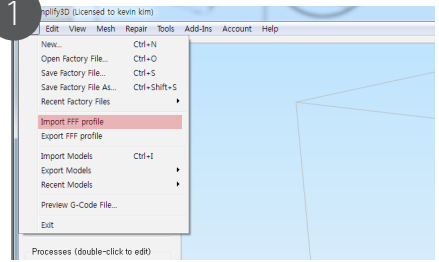


Filament Holder Assembly

Fix the [Filament Holder] back side of printer using bundled [Bolts] and [2.5mm Hex wrench].

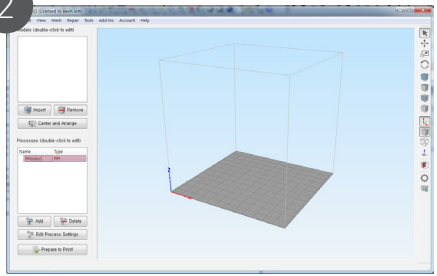
Install Software

1



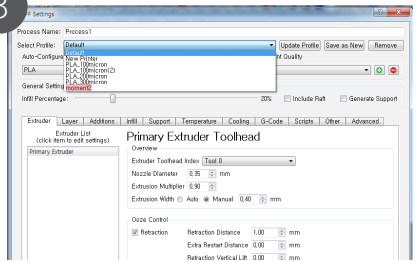
[File] - [Import FFF profile] and Choose Moment 2.FFF

2



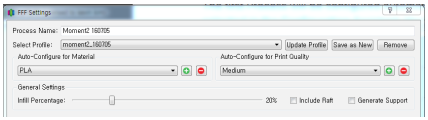
Click [Process1]

3

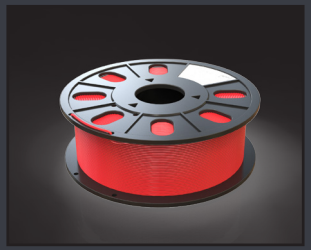


Click [Select Profile] and choose (Moment2)

4



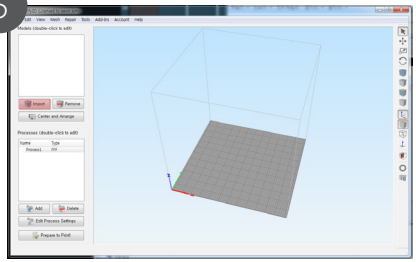
Open Simplify3D program and select
[Auto-Configure for **Material**] , [Auto-Configure for Print **Quality**]



Filament Temperature

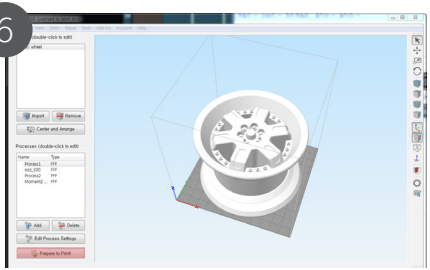
1. PLA [Nozzle 210℃] [Bed 55℃]
2. ABS [Nozzle 240℃] [Bed 100℃]
3. Flexible [Nozzle 245℃] [Bed 60℃]

5



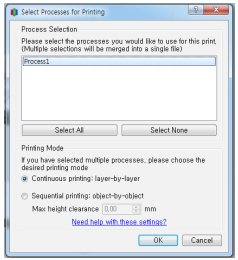
Click [Import] in the Models section

6



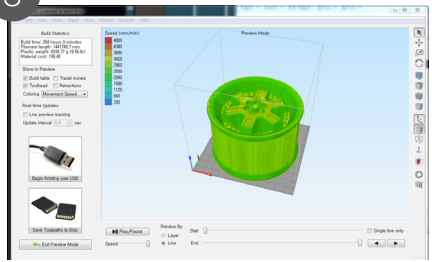
Click [Prepare to Print] to create gcode file

7



Select Process

8

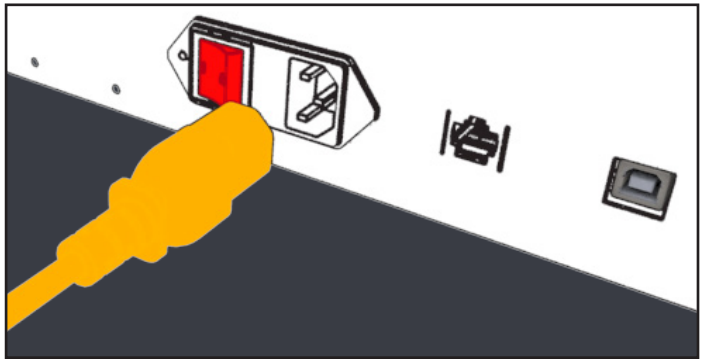


Click [Save Toolpaths to Disk] to save the file to USB memory stick

For more information on Software setting, please refer to Software manual or Simplify3D.com

Turn On/Off printer

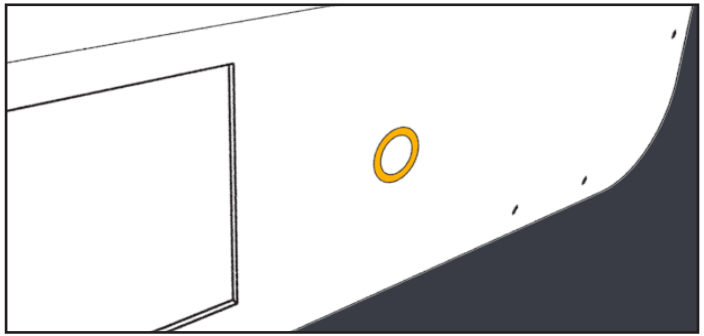
[Switch]



Power Cable

Connect the cable and turn on the [Switch].

[on] [off]



Power On / Off

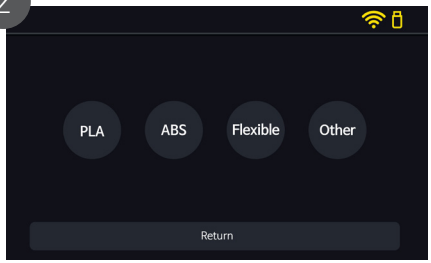
On: Push the front switch for three seconds.
Off: Push the front switch for three seconds. It will be turned off after several blinks.

Insert Filament

1

Touch the [Nozzle Heating] button.

2

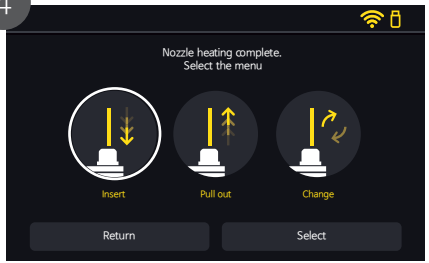


Select material.

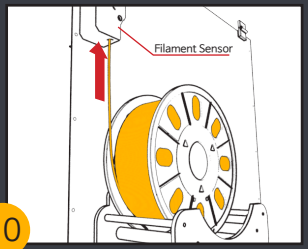
3

Nozzle heating
(Please close the door to avoid burning)

4

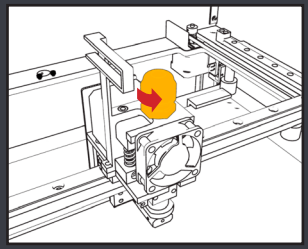


Touch the [Insert] button and select.



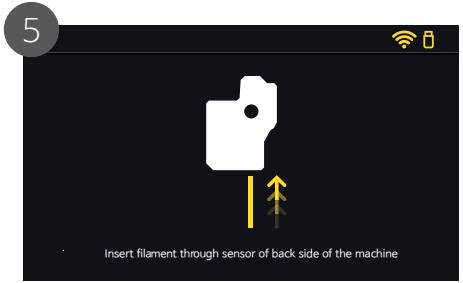
Picture for Step No.5

1. Put the [Filament Spool] on [Filament Holder]
2. Insert through [Filament Sensor]
3. Push the filament into the end of [Guide Tube]

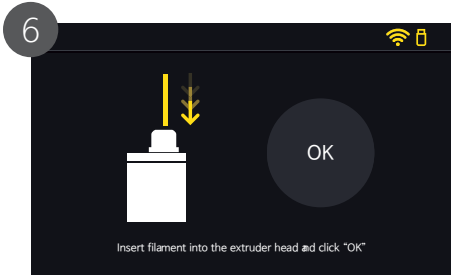


Loosening Fitting

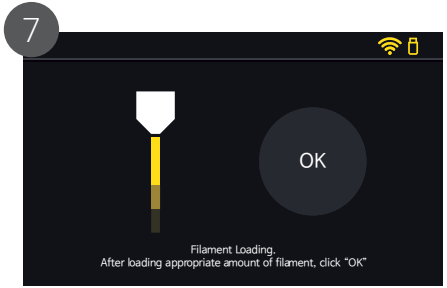
1. Rotate fitting in counter clock wise



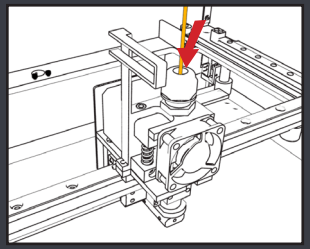
Insert filament through back side sensor



Insert filament into the extruder head
and touch [OK] button. Please refer to the below tip

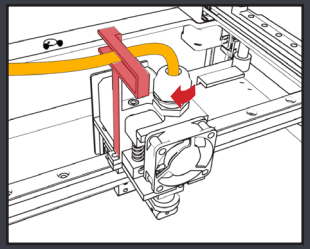


Filament Loading. After loading appropriate
amount of filament, touch [OK] button.



Picture for Step No.6

1. You may feel the filament is feeding
2. If not, please push filament a bit into head

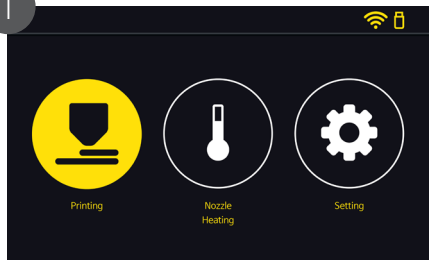


Tightening Fitting

1. Once filament loaded, please tighten fitting)
2. Put the guide tube into the end of the hole (Red mark)
3. Rotate fitting in clock wise

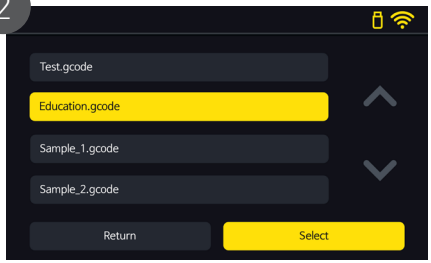
Printing

1



Touch the [Print] button

2



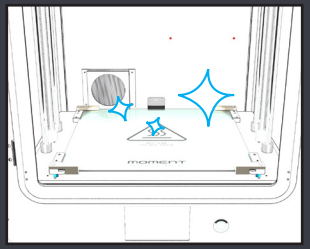
Touch the gcode file and [Select] button

3

Bed heating
(Please close the door to avoid burning)

4

Nozzle heating
(Please close the door to avoid burning)



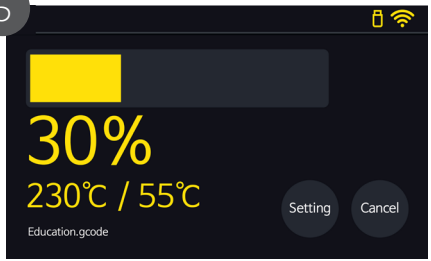
Before Start

1. Please maintain glass clean
2. Wipe the bed with wet towel and make it dry

Caution!

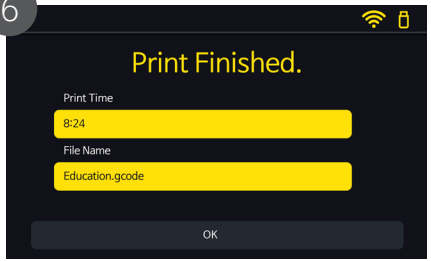
A dirty buildplate may cause your prints to fail to adhere to the buildplate surface

5

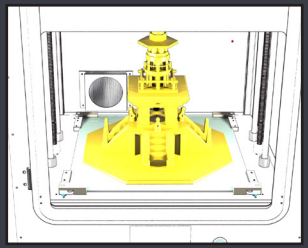


Printing process

6



Print finished

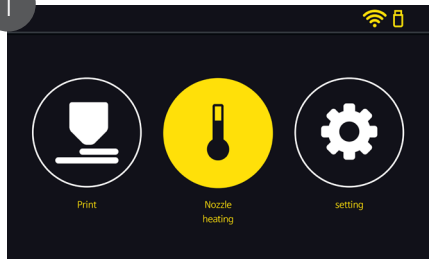


Easy removal of the Print

Let the buildplate cool down completely before attempting to remove the Print (about 10~20 minutes)

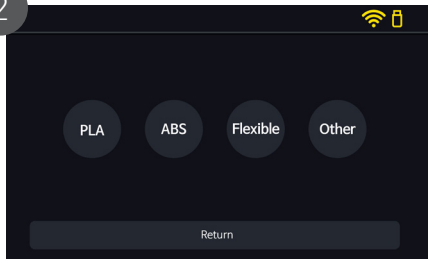
How to Change Filament

1



Touch the [Nozzle Heating] button

2

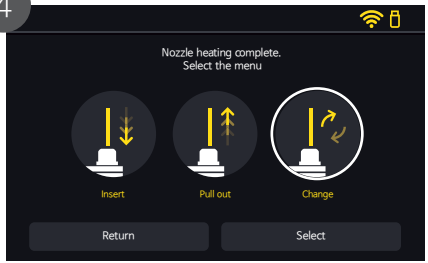


Select material (currently used) to remove

3

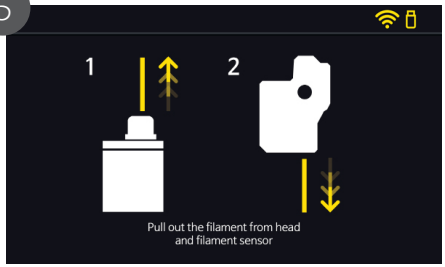
Nozzle heating
(Please close the door to avoid burning)

4



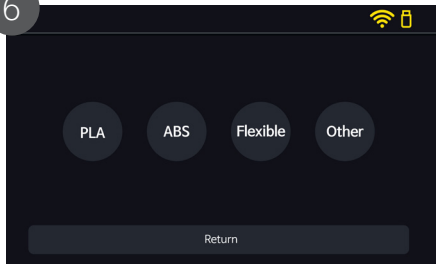
Touch the [Change] button and [Select]

5



Remove the filament from head and filament sensor

6

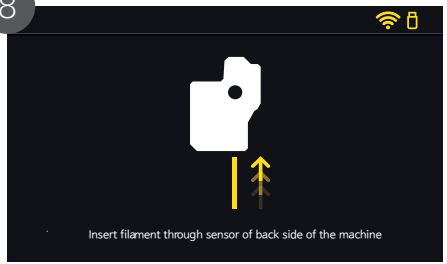


Select material(to be used) to insert

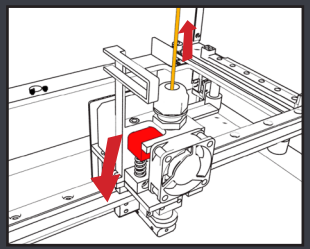
7

Nozzle heating
(Please close the door to avoid burning)

8



Insert filament through back side sensor

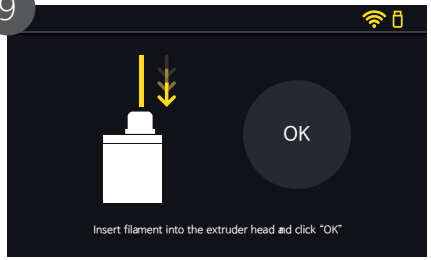


Picture for Step No.5

IMPORTANT

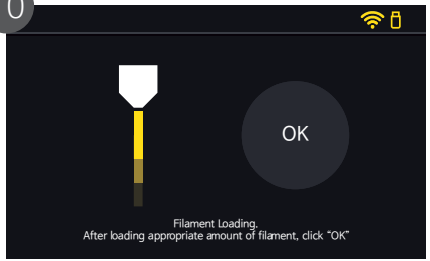
1. Press the spring block button (red mark)

9



Insert filament into the extruder head and touch [OK] button.

10

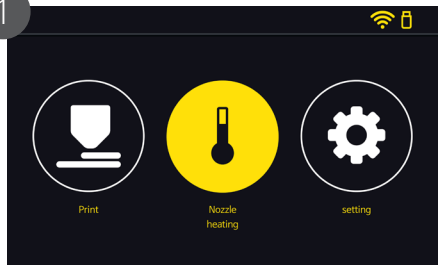


Filament Loading. After loading appropriate amount of filament, touch [OK] button.

Please refer to "Insert filament" process

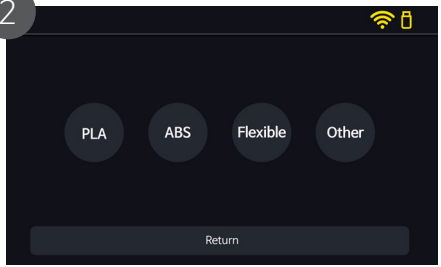
Pull out Filament

1



Touch the [Nozzle heating] button

2

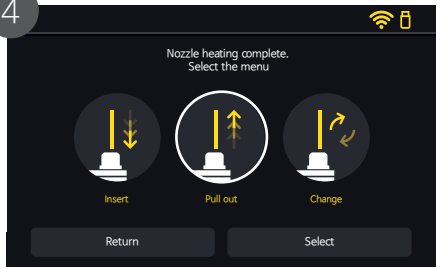


Select material

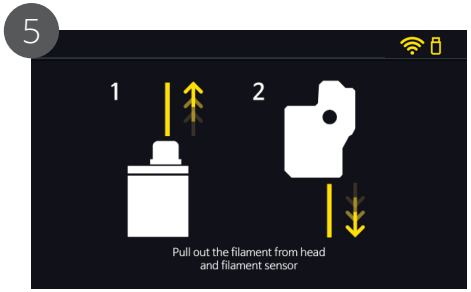
3

Nozzle heating
(Please close the door to avoid burning)

4



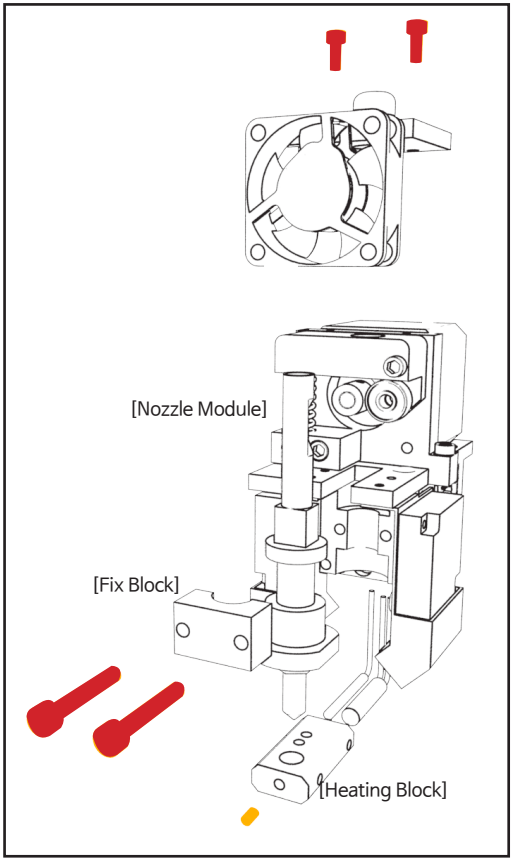
Touch the [Pull out] button and [Select]



Remove the filament from head
and filament sensor

To be updated...

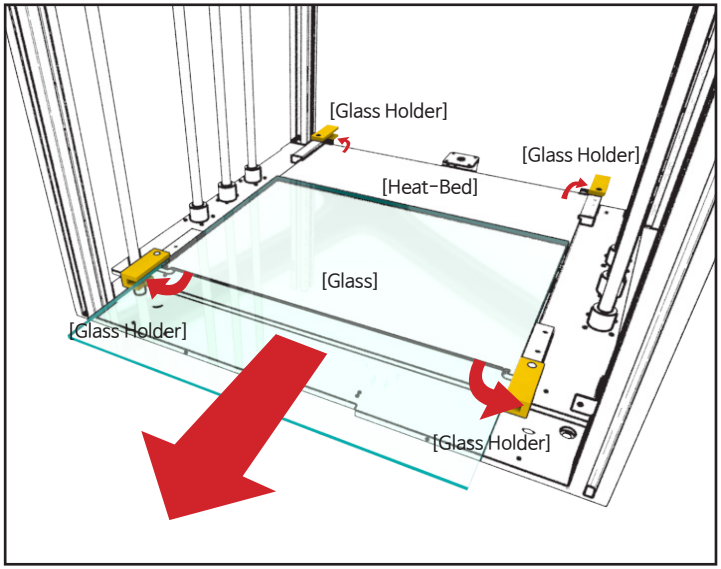
Extruder disassembly



Steps of extruder disassembly

1. Pull out the 4-bolts marked with red in the picture. (Hex wrench 2.5mm)
2. Pull out the 1-bolts marked with orange from [Heating Block] (Hex wrench 2mm)
3. Detach the [Fix Block]
4. Detach the [Nozzle Module]

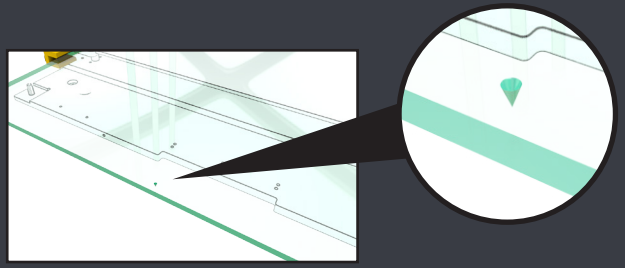
Glass Removal



Glass removal

Glass removal
1. Loosen [Glass holder X 4] in the direction of the curved-red arrows
2. Pull out the [Glass] in the direction of the big-red arrow

Glass fix
1. Put the [Glass] onto [Heat-Bed]
2. Tighten 4-[Glass Holder] in reverse

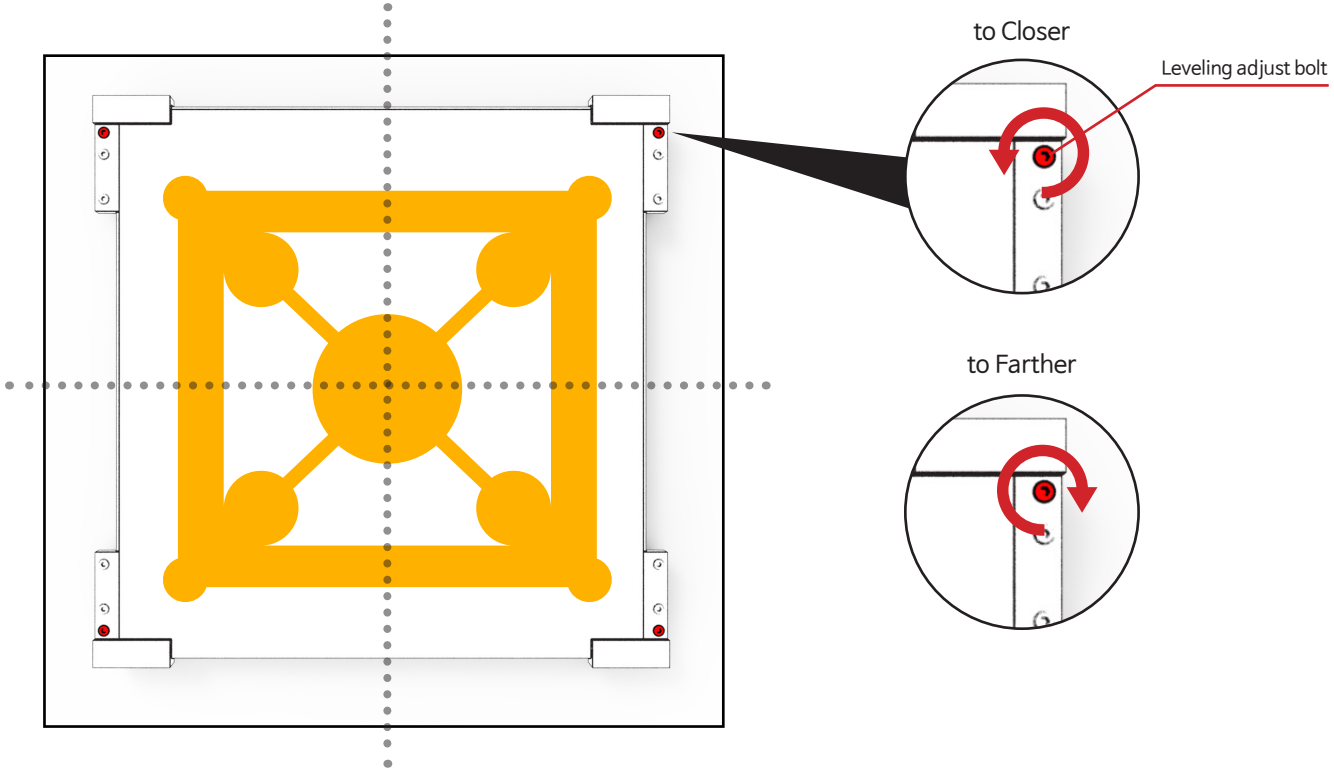


Caution!

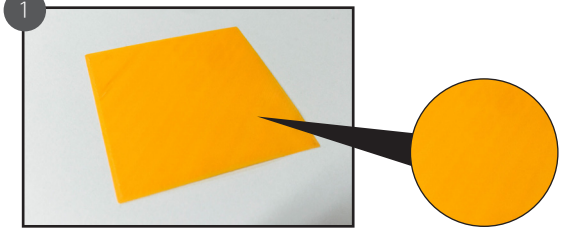
The Mark on the [Glass] always should be placed on upper face.

Leveling

You may face unexpected unleveled situation (crush, extruder change etc.)
Leveling is a process for adjusting gap between nozzle and buildplate.
It is very important to have a great leveling for FFF type(layer by layer) to get good quality prints.



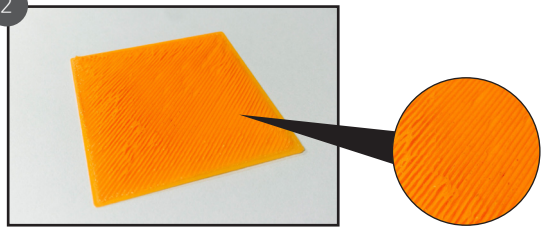
1



Fine first layer

Example of great Leveling

2

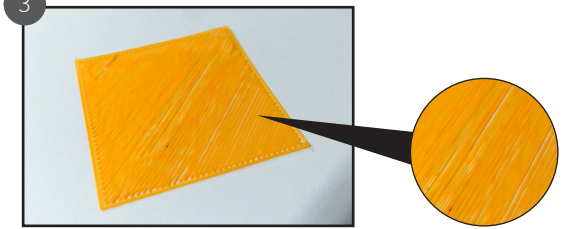


Build plate is too close
from tip of nozzle

You may hear "tick-tick" sound in case
that tip of nozzle is too close from bedplate.

Please rotate a bolt where you want to adjust in clock wise
(As shown in the picture, there are four bolts for leveling adjustment)
Depending on print quality it is recommendable 45degree, 90degree etc

3



Build plate too far from tip of nozzle

you may notice not adhering to build plate and curling problems

Please rotate a bolt where you want to adjust in counter clock wise
(As shown in the picture, there are four bolts for leveling adjustment)
Depending on print quality it is recommendable 45degree, 90degree etc

Please try leveling test with "Leveling" file, which is inside bundled USB Memory Stick.

Specification

Print Technology	Fused Filament Fabrication (FFF)
Print Volume	310mm x 295mm x 320mm
Nozzle Diameter	0.4mm / 0.6mm
Filament Diameter	1.75mm
Print Speed	30~150mm/sec (full speed 300mm/sec)
Print Quality	0.05~0.5mm
Tolerance of Movement	X,Y 80 micron (at 100x100mm), Z 50 micron (at 100mm)
Print Accuracy	12 micron in X,Y 0.625 micron in Z
Leveling	Moment Special Leveling System
Build Platform	Heat bed and glass (Up to 110C)
Extruder	Single extruder (Up to 260C)
Filament Materials	PLA / ABS / Flexible / Wood / etc.
Operating Ambient Temperature	10C ~ 25C
Storage Temperature	0~ 38C

Product Dimensions	535mm x 530mm x 690mm
Product Weight	34KG
Product Materials	Aluminum, PVA, PA66
Shipping Weight	43KG

Input	AC 100~240V, 8A (50 ~ 60Hz)
Software Bundle	Full license Moment Simplify3D
Connects	Wifi, Ethernet, USB Memory, USB Cable
Camera	Web Camera
LCD / Control	5Inch Full color Touch Screen
Software Operating Systems	Window XP or greater / Mac OS X 10.6 greater
	Ubuntu Linux 12.10 or greater / OpenGL 2.0 capable system
Support File types	G-code, stl, obj

1 Year Warranty

This Limited Warranty applies to Moment purchased from Moment Co., Ltd.

This Limited Warranty covers any defects in hardware, excluding consumable parts such as nozzle, filament, under normal use during the Warranty Period.

Moment Co., Ltd. will repair or replace, at no charge, products or parts of a product that proves defective because of improper material or workmanship, under normal use and maintenance.

This Limited Warranty does not cover any problem that is caused by: conditions, malfunctions or damage not resulting from defects in material or workmanship

The Warranty Period is 1 year from the date of purchase.

To obtain warranty service, you must first contact us to determine the problem and show your warranty card and purchase invoice to our service representative.

MOMENT

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www.moment.co.kr

Technical Support :moment@moment.co.kr