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A8S User Manual

Version: A0

Preface

This is the user manual for the A8S 3D Printer.

We recommend that you read this user manual thoroughly and understand the information, prior to operating the A8S 3D Printer.

The user manual contains important instructions and information about how to use the printer in a safe and skilled manner.

Note: Please make sure that this manual is always available near the printer!

Failure to follow the information contained in this manual may lead to personal injury, inferior results or damage to the A8S 3D Printer.

The conditions or methods that you may choose for assembling, handling, storage, use or disposal of the device are beyond our control. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, injuries, damage, or expense, arising out of or in any way connected with the assembly, handling, storage, use or disposal of the product. The information in this document was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness.

JGMAKER will assume no responsibility for direct or indirect damage resulting from improper knowledge and operation, lack of maintenance or any other use of the machine as intended in this manual. Any modification on the A8S 3D printer without proper written consult action and permission by JGMAKER will automatically void any right to warranty.

Precautions

The following safeguards exist to ensure the safety of users and to avoid potential risks. Ignoring these safeguards can cause damage to the printer and its environment.

- 【1】Do not place the A8S 3D Printer near flammables, explosives or heat sources. It is best to place it in a well-ventilated, low-dust environment.
- 【2】Adult without any professional training, children under 10 years of age should not use the printer without supervision.
- 【3】Take care to avoid touching hot parts, including but not limited to heat blocks, extruder nozzle, extruded filament, or the hot bed.

【4】Do not put your hands into the printing box during the printing, to avoid physical injury.

【5】Use the filaments recommended by the manufacturer so as to avoid clogs in the hot end, or damages to the printer.

【6】Do not use any other power cable, other than the one supplied. Use a grounded power outlet.

【7】Do not keep the nozzle or bed working continuously more than 96 hours at high temperature, ensure 1~3 hours break.

【8】Make sure the SD card is removed before turning on the printer.

【9】Do not insert the Micro SD card frequently during the operation. Keep 10s powering off before inserting new card.

【10】When printer is not in use for extended periods of time, power off the printer and disconnect the adapter from the outlets.

【11】To protect against electrical shock, do not put the printer body, cord, or electrical plug in liquid. If the printer falls into liquid, do not touch it. Instead, unplug the printer from power outlet, then remove it immediately. Do not reach into the liquid without unplugging the printer first.

【12】It is highly recommended to keep the package material for further movement and storage.

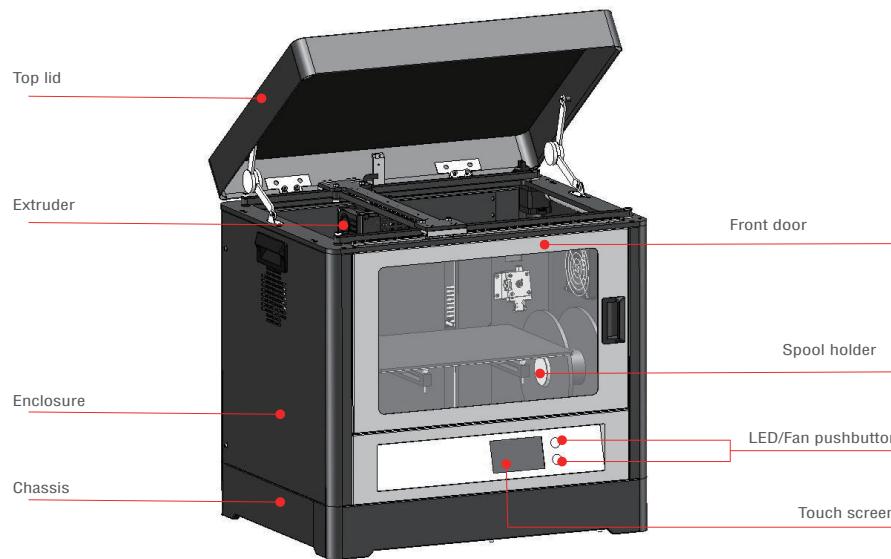
Product Introduction

Product specification

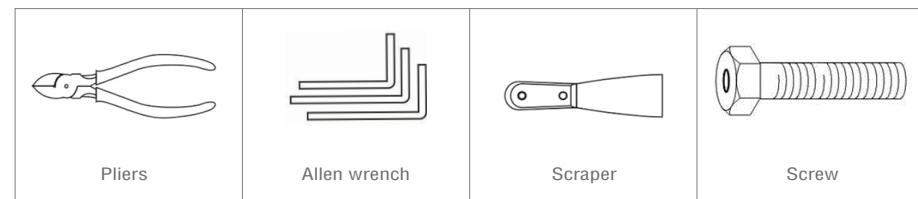
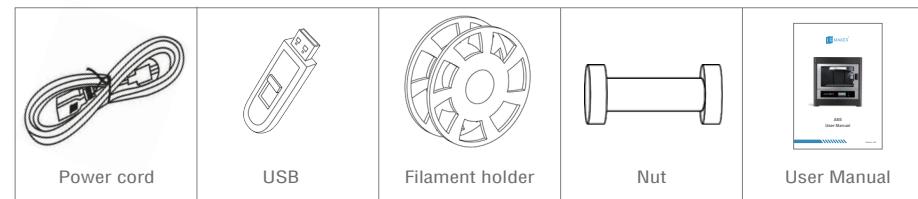
Model: A8S	Dimensions: 590*460*600mm
Layer thickness: 0.05~0.3mm	Net weight: Approx. 34kg
Printing speed: 10~150mm/s (Recommend 30~60mm/s)	Shipping dimensions: 745*575*750mm
Nozzle Temperature: Room temperature~250 °C	Shipping weight: Approx. 45kg
Nozzle diameter: 0.4mm	Build size: 350*250*300mm

Hot bed temperature: Room temperature~110°C	Build surface: Borosilicate glass
Supported materials: PLA/TPU, etc	Display: 4.3"Touch screen
Filament diameter: 1.75mm	Connectivity: USB
Languages: Simplified Chinese/English	Supported file types: STL, OBJ, G-Code
Power requirements: AC 110/220V 480W	Supported OS: Windows XP/ Win 7/ Win 10
Operating environment: Temperature 5°C ~40°C Humidity 20~50%	Software: Cura (Win/Linux/Mac) JGcreat (Windows 64bit)

Product overview



What's Included



Note: Package details are subject to change without prior notice.

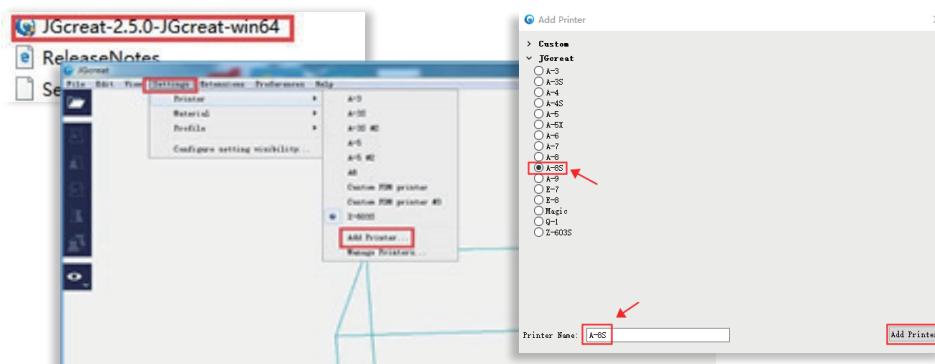
Software Installation

Install JGcreat

(1) There is a JGcreat installer in the USB disk included with printer, please copy and paste to your computer and double click to setup, then choose a folder path to save the file, and finally click **Finish** to complete installation.

(2) Open JGcreat and click **Setting** to add a new printer named A8S as the base profile.

(3) Enter 350*250*300mm as the printer size of X,Y & Z.



Printing preparation

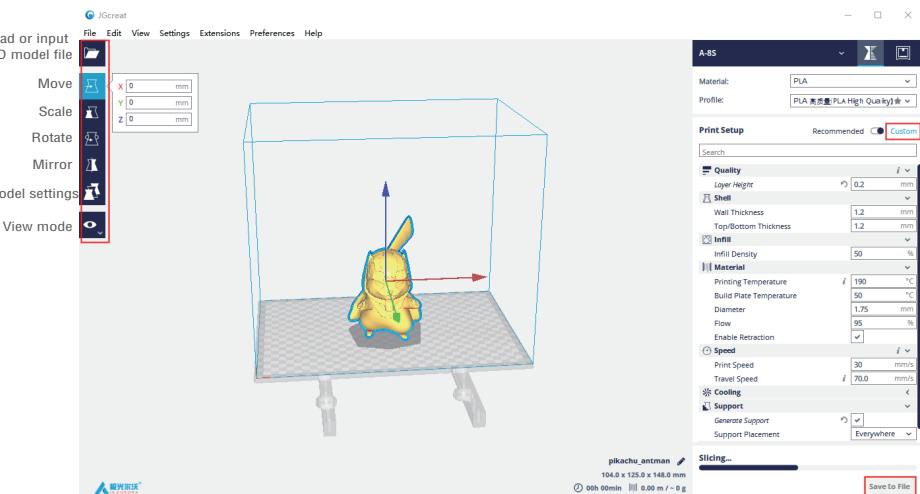
(1) Load a model in JGcreat. There is testing model in USB disk included with the printer, which allows you to have a printing test.

(2) Choose settings. JGcreat has a menu with basic print settings as defaulted. If you want advanced settings, click **Custom**.

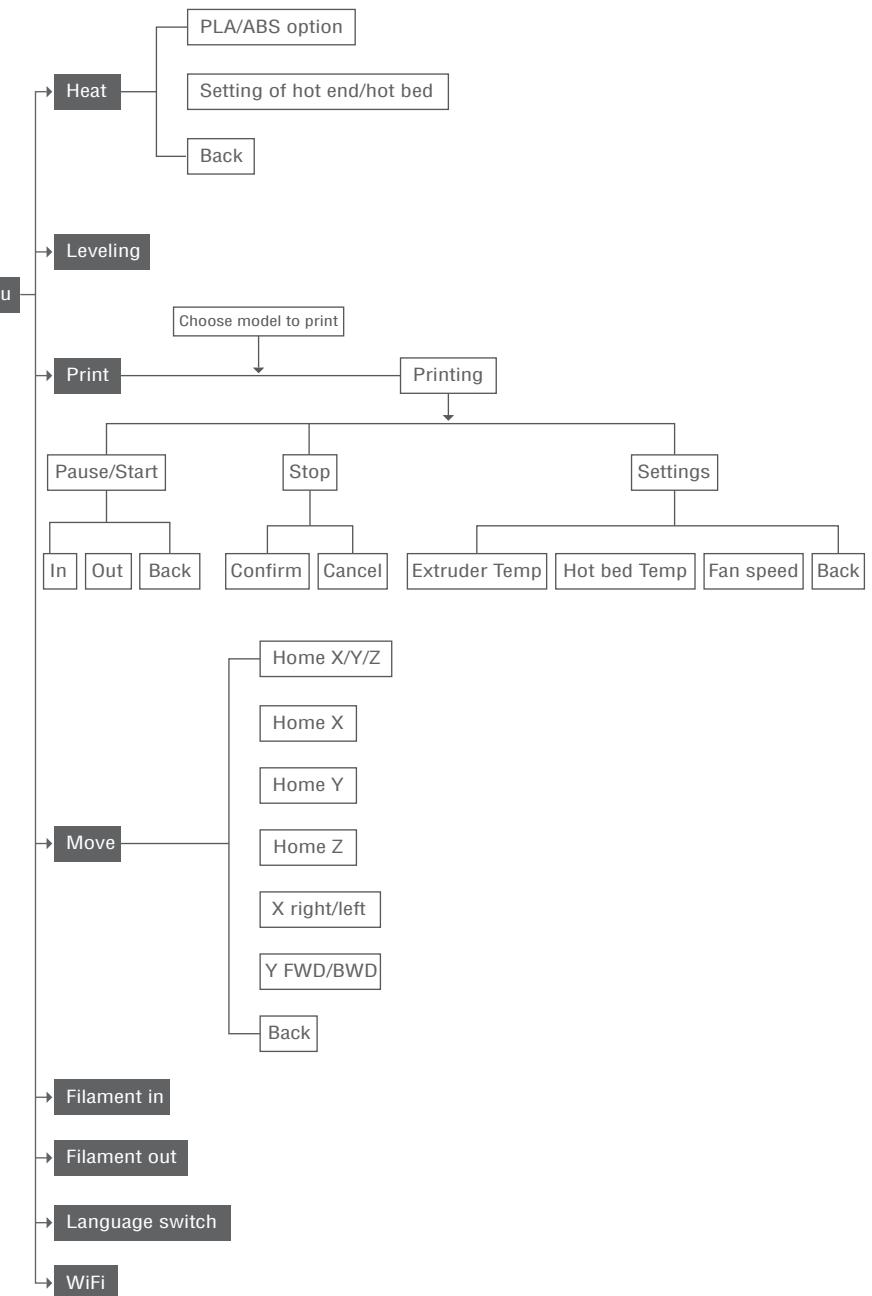
(3) JGcreat will generate a G-code file according to the parameters you set.

(4) Save the G-code file to the USB disk with the included USB reader.

(5) Insert the USB disk in the printer, select the G-code file in the menu and print.



Screen information

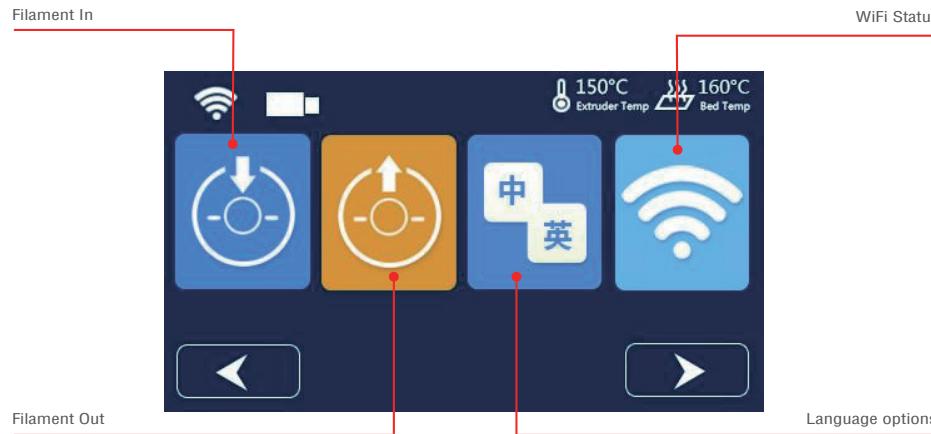




Initial operation

Please follow the guides below for the initial operation of A8S printer.

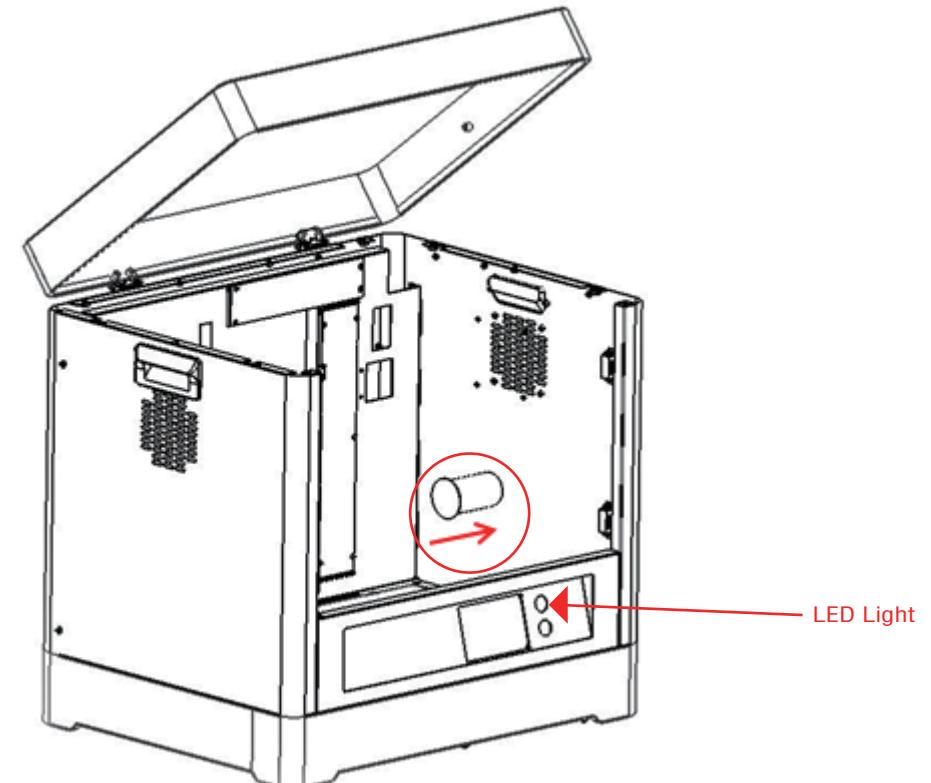
- (1) Take out the printer carefully and put it on a flat surface away from explosion or fire, liquid, etc.
- (2) Remove the package tape and foam and plug to power on the printer.
- (3) Plug power cord to turn on the printer, click **MOVE> All** till Z-axis moves up so as to remove the package foam out.
Note: *Do not pick up the foam toughly, otherwise may deform the bed.*
- (4) Click **LED Light** to turn on the light in the frame to install the spool holder inside with screw provided.



Operation

Operation environment

- (1) Ambient temperature: 5~40 °C
- (2) Relative humidity: 20%~50% (non-condensing)
- (3) Power supply: AC 110~220V/50Hz AC



Bed leveling

(1) Auto home first. Click **MOVE>ALL** to make X/Y/Z back to Home position, and then back to the main interface.

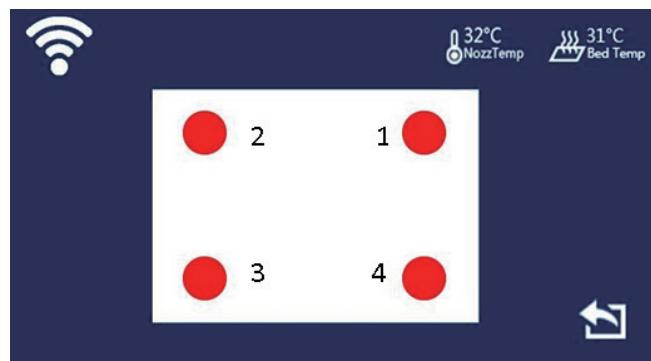
(2) Click **LEVELING** to adjust bed leveling, please note that there are 4 points need to be leveled one by one.

(3) Click the 4 points on the screen in turns until the extruder moves to the corner automatically. Put a piece of A4 paper under the nozzle, drag to make sure it can be slid with a little bit resistance.

Note: If the paper cannot slide into the gap, or slide without resistance, which means the nozzle is too close/far from the bed, please rotate the spring bolt below the bed to adjust the distance between bed and nozzle.



Tips: Rotating the spring bolt **counterclockwise** to **increase** the distance between hot bed and nozzle or rotate **clockwise** to **shorten** the distance.



Note: Please refer to video tutorials or contact us directly for any problems in leveling.

Filament loading

(1) Click **PREHEAT** to preheat the nozzle and bed correspondingly.

(2) Put the roll of filament onto the spool holder during the preheating process.

(3) Cut the tip of the filament straight across and insert it into extruder.

(4) Tap **Filament In** when nozzle temperature reaches the target temperature and push until it comes out from the nozzle smoothly.



Filament replacement

Reload the supplemental filament as follows if filament is about to run out during printing:

(1) Click **PAUSE** and X axis moves back to home point.

(2) Click **Filament Out** to unload the filament and take off the spool when there's no remaining filament.

(3) Load the supplementary filament and hit **Filament In** till loading completes.

(4) Hit **BACK** to go back to **PRINT** menu and select **RESUME** to resume printing.

Printing test

(1). Insert the USB stick, tap **PRINT** in main screen and select the g-code file you sliced previously.

(2). Tap **START** to begin the printing when temperature reaches preset value.

(3). After printing completes, screen prompts printing completes.

(4). Remove your model ONLY after nozzle and hot bed cooling down.



Note: Users are suggested to check the printing after first 5~6 layers finished.

Maintenance & Storage

Weekly Maintenance (every 50 hours)

Ensure that the hot bed is at the correct height and properly leveled. To do so, log into JGcreat and proceed through the Quick Start process in order to complete the following steps:

(1). Check Starting Height for Extruder

(2). Check bed level Ensure that the glass build plate is free of defects (torn or bubbled Polymide tape) and dust/dirt/grease, and replace tape or clean surface with appropriate cleaner (alcohol/water at 50%/50% is recommended).

Monthly Maintenance (every 200-250 hours)

Ensure that the printer is free of dust and filament debris, and clean it if necessary. Focus areas include fans and fan guards, filament surface and filament drive, and the entire frame. Clean the oil from the X and Y linear rails and apply a fresh coat to each. A dot of oil in each of the long grooves on the X and Y rails is sufficient. Once applied, move each axis through its full travel multiple times to spread the oil.

A8S Storage

If you are using the A8S regularly, turn off and unplug the power supply when finished.

If you are storing the A8S for a period of 1-2 weeks, follow the instructions listed above. Additionally, fully seal the filament spool in a bag, preferably with a new desiccant packet inside.

If you are storing the A8S for a period of 2 weeks or more, follow all above instructions, THEN cover the entire printer in order to protect it from the buildup of dust and other airborne particles.

Troubleshooting

Symptom	Solutions
Filament breaks at the feeding port of extruder	1.Replace the filament 2.Keep the filament sealed in cool and dry place when it's not in use. 3.Clean the tube completely (Refer to the tutorial video attached in the USB disk)
Filament slides from the extruder (won't extrude)	Cut off the thin part of the filament and reinstall
Abnormal temperature	Replace with a new temperature sensor
Misaligned during printing	
Model warping during printing	Re-level the bed and check the screw to make sure they are properly mounted.
Fail to generate G-code file	1.Choose the correct machine type 2.Select proper save path
Fail to install software	Install the compatible one for your operating system

Note: For other different problems, please contact our support team for detail solutions.

Maintenance & Storage

Returns & Exchanges

Our policy lasts 30 days. To be eligible for a return, your item must be unused and in the same condition that you received it. It must also be in the original packaging. If more than 30 days have elapsed since your purchase, unfortunately, we can't offer you a refund or exchange.

Refunds (if applicable)

Once your return is received and inspected, we will send you an email to inform you that we have received your returned item. We will also inform you of the approval or rejection of your refund.

If you are approved, then your refund will be processed, and a credit will automatically be applied to your credit card or original method of payment, within a certain amount of days.

Replacement requirement

- (1) The product must be intact, without damage, cracks, deformation, etc.;
- (2) The product must include all parts, tools, original box, and foam padding;
- (3) You're required to provide a valid purchase invoice with serial number matching that of the product.

Note: Regarding the returned printer, we do not cover the shipping costs if there is not a problem with the printer itself. We also cannot cover any duties or taxes which may be required when returning the product to China.

Warranty

Warranty Coverage

- (1) The following accessories are not included in the warranty coverage (unless damaged by transportation): platform sticker, platform forming plate, acrylic cover, card reader and TF card, platform glass, USB cable, filament, rack and tools, accessories provided for free, etc.
- (2) Profile: Small blemishes in the black paint due to testing or shipping are not covered in the premise that blemish does not affect normal use.
- (3) The warranty period for the Nozzle assembly (nozzle, heating block, throat pipe, heat sink, Teflon tube, etc.) is 3 months. If damage occurs after the warranty expires, you will be responsible for replacement;
- (4) The warranty period for main parts including motherboard, LCD display, power supplier, heated bed is 12 months. The free warranty service is provided by the original factory during the warranty period. After warranty expires, original factory maintenance is available, but the customer is responsible for shipping and maintenance costs.

Not In Warranty Coverage

- (1) Warranty service cannot be provided without a valid matching serial number.
- (2) Warranty service cannot be provided after warranty period elapsed. See the [Warranty Coverage](#) section for warranty durations.

(3) Equipment failure or damage caused by unauthorized modification of the equipment
(Such modification includes but not limited to:

- a) modification of the nozzle assembly;
- b) modification of the machine structure;
- c) use of third-party components.

(4) Equipment failure or damage due to incorrect installation and use.

(5) Equipment failure or damage caused by use in a non-recommended working environment (Unstable, dusty, moisture) as described in this manual

(6) Equipment failure or damage due to improper use (beyond workload, etc.) or maintenance.

(7) Equipment failure or damage due to the use of other branded components or other inferior consumables such as poor-quality filament.

Support

JGMAKER support team is ready to help you with any problems you may have with your A8S printer. If the issues or questions are not covered in this manual, visit our official website at www.jgmaker3dofficial.com or contact us via email or telephone.

Note1: Please refer to the warranty card for details of the warranty policy.

Note2: When contacting support, please have your serial number ready.