

Proforge 2/2S 3D Printer Kit

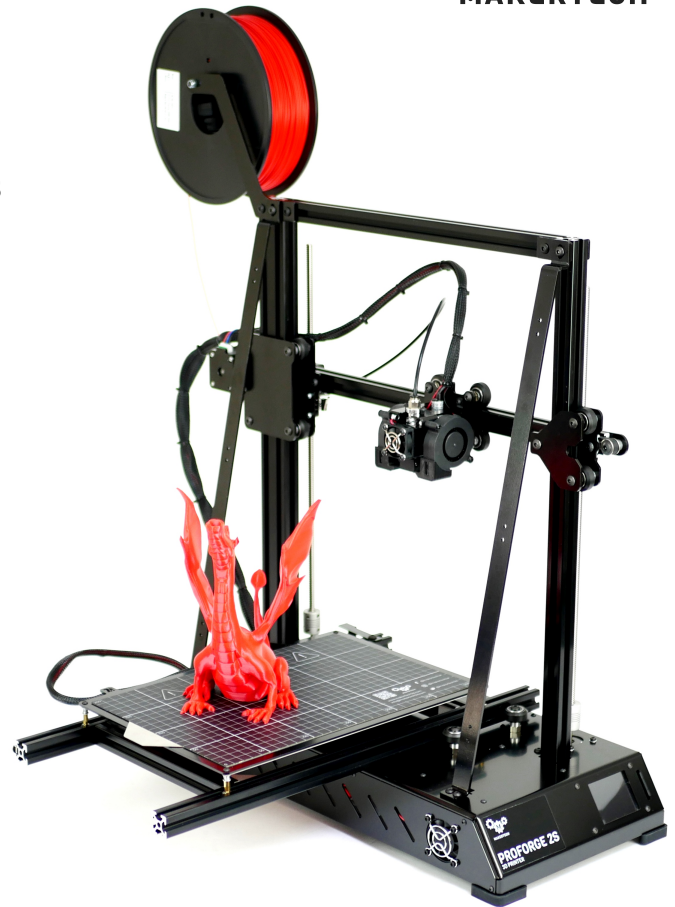


Thank you for purchasing the Proforge 2/2S 3D Printer Kit!

Don't be intimidated by all of the parts, the assembly is broken down into bite-size stages with high-res images at makertech-3d.dozuki.com.



Other resources like the community forum, troubleshooting and printing tips are available at makertech3d.com/resources



The kit contains most of the tools you will need for a seamless assembly:

- Allen Keys
- Cable Ties
- Ceramic Screwdriver
- Craft Knife
- Needle Nose Pliers
- PTFE Tape
- Slip Joint Pliers

What you will also need (not included):

- Scissors
- Measuring Tape
- Lighter
- Side/Wire Cutters
- Philips Screwdriver
- Clear Tape

Proforge 2/2S Packing List



Packaging	Part Type	Part Name	Qty
Bag	Misc.	Paperwork	1
	Misc.	Sticker	1
	Misc.	Sweets	1
	misc	Power Cable	1
Box	Accessory	Filament Spool - 250G - PLA	1
Bag	Tools	PTFE tape	1
	Accessory	Braided Cable Sleeving 10mm	1
	Tools	Cable ties	1
	Tools	Ceramic Screwdriver	1
	Tools	Craft Knife	1
	Tools	Needle Nose Pliers	1
	Tools	Slip Joint Pliers	1
	Tools	Allen Key set	1
Bag	Metal	Base	1
Box	Electronic	MKS GEN-L Control Board with Cable	1
Box	Electronic	Power Supply 24V 360W	1
Bag	Metal	Print Platform	1
Bag	Electronic	Heated Bed - 24v	1
Bag	Accessory	Print Surface Sticker	1
	Accessory	Flexplate	1
	Accessory	Magnets and Adhesive Pads	9
Wrapping	2020	2020 x 189 Extrusion	2
	2020	2020 x 360 Extrusion	1
	2020	2020 x 450 Extrusion	3
	2040	2040 x 500 Extrusion	1
	Metal	Base Right Panel	1
	Metal	Base Left Panel	1
	Metal	Support Beam	1
	Mechanical	T8 400mm Lead screw	1
	2020	2020 - 500mm	1
	2020	2020 - 360mm	1
	Metal	Support Beam	1
	Mechanical	T8 400mm Lead screw	1

Proforge 2/2S Packing List



Box A

Packaging	Part Type	Part Name	Qty
Bag	Electronic	MKS TFT24	1
	Electronic	MKS TFT24 - Cable	1
Bag	Electronic	IEC Switch	1
	Electronic	Power cable - Red	1
	Electronic	Power cable - Black	1
	Electronic	Earth Cable	1
	Electronic	Fan Adapter Cable	1
	Electronic	Probe	1
	Electronic	Dual Z-Cable	1
Bag	Mechanical	E3D V6 1.75/0.4 Bowden 4.1mm Bore 24V	1
	3D Printed	Single Fan Shroud (Right)	1
	3D Printed	Single Fan Shroud (Left)	1
	Electronic	40mm Fan - 24v	1
	Electronic	50mm Blower Fan - 24v	2
	Electronic	USB B with Mount	1
	Mechanical	40mm Fan Guard	1
Bag	Electronic	Endstop with Cable	2
	Electronic	Filament Runout Sensor with Cable	1
	Electronic	Stepper Driver - A4988	5
	Electronic	LED Strip	1
	Electronic	Stepper Driver - TMC2100	2
	Electronic	MOSFET Kit	1
Bag	Accessory	4GB Micro SD Card, Adapter, Case	1
	Accessory	Brass Nozzles Pack	5
	Accessory	Steel Nozzles Pack	5
	Accessory	Rubber Foot	4

Proforge 2/2S Packing List



Box B

Packaging	Part Type	Part Name	Qty
	Electronic	NEMA 17 Motor	4
	Electronic	NEMA 17 Motor	1
	Electronic	NEMA 17 Motor Cables	5
Bag	Metal	Endstop Trigger	1
	Metal	Feeder Mount	1
	Metal	Hotend Mount	1
	Metal	Spool Holder	1
	Metal	Tool Carriage	1
	Metal	Y-Idler	1
	Metal	Z-Axis Bracket	1
	Metal	Z-Axis Support Bracket	1
	Metal	Extrusion bracket	2
	Metal	Y - Idler Guided	1
	Metal	Y - Idler Support Bracket	1
	Metal	Extrusion Bracket	4
Bag	Mechanical	V Wheel	15
	Mechanical	625 RS Bearing	30
	Mechanical	M5 Aluminium Spacer 6mm	19
	Mechanical	Eccentric Spacer 6mm	8
	Mechanical	Precision Shim	15
	Mechanical	685 ZZ Bearing (5x11x5)	1
	Mechanical	Extruder Feeder Kit	1
	Mechanical	Pulley 20T 5mm (x2) and 2.5M Belt	1
	Mechanical	Corner Bracket	4
	Mechanical	Flexible Coupling 5x8mm	1
	Mechanical	Anti-Backlash Nut	1
	Mechanical	Flexible Coupling 5x8mm	1
	Mechanical	Anti-Backlash Nut	1
Bag	Fastener	Stage 1,2,3,5,6,7,8 <i>(There is no Stage 4)</i>	1
	Fastener	Other Fasteners	1

Proforge 2/2S Packing List



Dual Switching Extruder Upgrade

Packaging	Part Type	Part Name	Qty
Box	Accessory	Filament Spool - 250G - PLA	1
Bag	Cables	NEMA 17 Motor Cable	1
	Cables	Servo Cable	1
	Electronic	NEMA 17 Motor	1
Bag	Mechanical	E3D V6 1.75/0.4 Bowden 4.1mm Bore 24V	1
	Mechanical	Extruder Feeder Kit	1
	Electronic	Stepper Driver - A4988	1
	Electronic	Filament Runout Sensor with Cable	1
	Electronic	Servo - MG996R	1
	Mechanical	633ZZ Bearing	1
	Mechanical	AXK0515 Thrust Bearing Set	2
	Mechanical	Aluminium Spacer - 9mm	1
	Mechanical	Servo Arm	1
Bag	Metal	Spool Holder	1
	Metal	DSE Back Plate	1
	Metal	DSE Hotend Mount	1
	Metal	Ooze Shield	1
	Metal	2nd Fan Mount	1
Bag	Fastener	Fastener pack A	1
	Fastener	Fastener pack B	1
	Fastener	M3 20mm Nylon Spacer (no thread)	4
	Fastener	M5 T-Nut	4
	Misc	Braided Cable Sleeving - 2M	1

Proforge 2/2S Packing List



Octoprint Upgrade

Packaging	Part Type	Part Name	Qty
Box	Electronic	Pi Camera	1
	Electronic	USB Connector	1
Bag	Fasteners	Fastener Pack	1
	Electronic	USB Micro -> USB Male	1
	Electronic	USB micro -> USB Female	1
	Electronic	Ethernet Cable	1
Bag	Electronic	4GB micro SD Card, Adapter, Case	1
	Electronic	Pi Cam Ribbon Cable	1
	Electronic	Pi Cam Ribbon Cable Adapter	1
	Electronic	Pi Cam Ribbon Cable Short	1
	Fasteners	M2.5 x 25mm Threaded Stand-off	5
	Fasteners	T-Nut M5	1
Bag	3D Printed	Pi Cam Case	1
	Metal	Pi Cam Case	1
	Metal	Pi Cam Mount	1

Safety Notice



Always operate the Proforge 2/2S 3D printer in a well ventilated, open and dry environment.

Ensure that the surface which you place the Proforge 2/2S 3D printer is stable and level when the printer is on and/or in operation.

Be aware of moving parts when the Proforge 2/2S is in operation, there is a pinching hazard.

Caution with the Hotend, it can reach temperatures of 280 degrees Celsius. Touching the Hotend whilst hot can result in severe burns. Even after operation the Hotend can still be hot, allow for it to cool before touching.

Caution with the heated bed, it can reach temperatures of 120 degrees Celsius. Touching the heated bed whilst hot can result in severe burns. Even after operation the heated bed can still be hot, allow for it to cool before touching.

Keep children away from the Proforge 2/2S 3D printer whilst it is in operation to prevent injury.

After operation allow the Proforge 2/2S 3D printer to cool down before leaving it unattended.

Always power off from the mains voltage when leaving the Proforge 2/2S 3D printer unattended and not in operation.

Never disconnect any wiring from the electronics board while the Proforge 2/2S is powered on, doing so may result in damage to the Proforge 2/2S.

Be careful with long hair or loose clothing when operating the Proforge 2/2S.

The Proforge 2/2S is designed for use with PLA and ABS (preferably with an enclosure), use of any other material is at your own risk.

Immediately shut down the Proforge 2/2S if any error occurs during operation to prevent any damage to the machine or surroundings.

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