

Pro3 Series - Basic Preventive Maintenance - V1.0

Regular printer maintenance is the key to maintaining consistently high-quality 3D printing results and keeping your 3D printer in good condition.

Perform basic preventative maintenance to maintain your printer for daily use. Refer to [Advanced Preventive Maintenance](#) for advanced maintenance.

The table below includes specific checkpoints, repair steps, and related resources.



Caution!

Before starting any repair or maintenance work, make sure that:

- 1) The printing task is complete.
- 2) The filaments have been unloaded from the printer.
- 3) The printer is off and the extruders, nozzles and build plate are at room temperature.
- 3) Always wear protective glasses and safety gloves.

Daily

1. Build Plate

COMPONENT	INSPECTION	MAINTENANCE STEPS	EST TIME	FREQUENCY	RESOURCE
Build Plate	Check whether the build plate is damaged.	If the build plate is intact, it can be used during printing. If the print plate is badly damaged, replace the build surface.	0.1 h	Perform this check for each print.	
	Check the build plate for any remaining filament.	Use a spatula to remove hard-to-remove solidified filament.	0.1 h	Perform this check for each print.	
	Clean the build plate.	After removing the build plate from the printer, use a clean towel and isopropyl alcohol to clean the build surface. Note: Do not clean the build plate directly on the printer or while the printer is on. Either of these actions may result in short-circuiting.	0.1 h	Perform this check for each print.	How to Clean the Build Plate

2. Interchangeable Hotend

COMPONENT	INSPECTION	MAINTENANCE STEPS	EST TIME	FREQUENCY	RESOURCE
Interchangeable Hotend	Check if the interchangeable hotend is installed correctly.	If the interchangeable hot end is not installed correctly, the indicator light will show an error.	0.1 h	Perform this check for each print.	How to Install and Disassemble the Interchangeable Hot End
	Check if the model cooling fan or the side fan are working properly.	Install the interchangeable hotend correctly according to the relevant tutorial.	0.1 h	Perform this check for each print.	

3. Nozzle

COMPONENT	INSPECTION	MAINTENANCE STEPS	EST TIME	FREQUENC E	RESOURCE
Nozzle	Check for any residual filament in the nozzle.	Use tweezers to remove any residual filament in the nozzle while heating.	0.1 h	Perform this check for each print.	
	Check if the filament loading process is smooth.	If the filament loading process is not smooth, it could be caused by filament jamming. Check the “How to Remove the Jam” resource.	0.1 h	Perform this check for each print.	How to Remove the Jam

4. X/Y axis

COMPONENT	INSPECTION	MAINTENANCE STEPS	EST TIME	FREQUENCY	RESOURCE
X/Y axis	Move the print head to check if it moves smoothly.	If the print head does not move smoothly, use a clean towel to wipe the residual lubricating oil on the X/Y axes, and then apply new lubricating oil.	0.5 h	Perform this check for each print.	How to Lubricate the Axes

5. Z-axis

COMPONENT	INSPECTION	MAINTENANCE STEPS	EST TIME	FREQUENCY	RESOURCE
Z-axis	Move the build plate to check if the Z-axis moves smoothly.	If the Z-axis does not move smoothly, use a clean towel to wipe the residual oil on the Z-axis, and then apply new lubricating oil.	0.5 h	Perform this check for each print.	
	Check for residual filaments jamming Z-axis screws and rods.	Remove residual filaments.	0.5 h	Perform this check for each print.	

The above maintenance regulations are a reference for performing printer maintenance. If performing maintenance does not resolve the problem, contact Raise3D after-sales support.



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