# **Maintenance Guide**

SOURCE:

https://support.zortrax.com/m200-plus-maintenance-guide/

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## Main

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ACTIVITY	FREQUENCY	SOLUTIONS TO THENECESSARY PROBLEMS ACCESSORIES		
Cleaning the machine, its interior and surroundings, especially the bottom plate under the platform	Before each printing process	To remove material remains from the interior of the device, use a vacuum cleane or compressed air	with a high	
Cleaning the motherboard and the power supply unit from dust using compressed air	Every 300 working hours	Unscrew the bottom plate and use compressed air to remove dust	<ul><li>a 2.5 Allen key</li><li>compressed air</li></ul>	

#### **Hotend**

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#### **ACTIVITY**

Checking if the hotend and the nozzle are not clogged
Cleaning the nozzle
Checking if the screws that secure the heater and thermocouple are tightened

#### **FREQUENCY**

Before each printing process

After finishing one spool of material Every 300 working hours

## **Platform**

ACTIVITY	FREQUENCY	SOLUTIONS TO THE PROBLEMS	ENECESSARY ACCESSORIES
Cleaning the perforated plate	Before each printing process	To remove material remains from the surface of the perforated plate, use a spatula	– a spatula
Checking the perforated plate for deformation	Before each printing process	_	_
Calibration	Every 200 working hours	If the platform calibration fails, move on to the next step indicated in this table	
Cleaning the heatbed and the underside of the perforated plate	,	Unscrew the screws that secure the perforated plate and remove the residues from the underside of the plate using a spatula. The heatbed needs to be cleaned with a piece of cloth damped in acetone	<ul><li>a piece of cloth,</li><li>acetone</li></ul>
Checking if the screws next to the platform's small connector are tightened (in the backleft corner of the perforated plate)	Every 200 working hours		– a 2.5 Allen key

# X/Y Axes; Extruder Guide Rails

ACTIVITY	FREQUENCY	SOLUTIONS TO THI PROBLEMS	ENECESSARY ACCESSORIES
Checking if the axes and the extruder guide rails are clean from material remains and dust	Before each printing process	It is possible to feel slight resistance while checking if the extruder moves freely on the guide rails. In such case you should check if the X/Y axes and the extruder guide rails are covered with black grime. The axes and guide rails should be cleaned with a cloth damped in acetone and then lubricated with silicone oil.	e / d
Checking the tension of the drive belts on the X/Y axes	Every 300 working hours	In order to check the tension of the drive belts on the X/Y axes move the extruder to the central point and gently tug the belts. It the belts are loosened, tighten the screws placed on the top part of the X/Y axes blocks	f
Checking the tension of the drive belts between the motors and the X/Y axes	Every 300 working hours	_	_
Checking if the screws on the X/Y axes and the motor pulleys are tightened	Every 300 working hours	_	_
Checking if the	Every 300 working	_	_

extruder moves freely hours
when the printer is off
Lubricating the X/Y Every 300 working –
axes and the extruder hours
guide rails

- silicone oil

## **Extruder**

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ACTIVITY	FREQUENCY
Checking if the extruder top cover and the	Before each start-up of the printer
material guide are properly installed	
Checking if the material guide is properly	Before each start-up of the printer
secured to the extruder cable with the	
material guide clamps	
If you use the HEPA Cover, check if it does	Before each start-up of the printer
not press the extruder cable	
Checking if the extruder cable is properly	Every 300 working hours
plugged into the extruder PCB	
Checking if the extruder PCB is properly	Every 300 working hours
secured to the extruder block	
Checking if the pins on the extruder cable	Every 300 working hours
connector are clean	
Checking if the screws that secure the	Every 300 working hours
hotend are not loose, and, if necessary,	
tightening them	
Removing the material remains and lumps	Every 300 working hours
from the extruder	
Checking if the fans are working	Every 300 working hours
Checking if the screws that secure fan	Every 300 working hours
shrouds on the extruder are tightened, and	,
if it's necessary, tighten them	

### **Z-axis**

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**ACTIVITY** 

Lubricating the Z-axis screw and rails

**FREQUENCY** 

Every 500 working hours

#### **Suggested Part Replacement Time**

The table shows approximate replacement time of components that are exposed to natural wear and tear. In order to maintain the printer in good condition and to provide the highest priting quality, it's advisable to replace particular components after an appropriate period of time indicated in the table.

NOTE! The lifespan of particular components highly depends on the type of filaments you use most often.

Nozzle	Hotend	Perforated Plate	Extruder Cable	Heater and T Extruder hermocoupleFans 40×40	
Every 300	Every 400	Every 700	Every 500	Every 400	Every 500
working hoursworking hoursworking hoursworking hoursworking hours					