Maintenance Guide

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

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Main

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	•	
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	– a 2.5 Allen key – compressed air	

Hotend

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 THENECESSARY PROBLEMS 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	 a piece of cloth, acetone 	
Checking if the screws next to the platform's small connector are tightened (in the back left corner of the perforated plate)	Every 200 working hours	_	– a 2.5 Allen key	

X/Y Axes; Extruder Guide Rails

ACTIVITY

FREQUENCY

Checking if the axes Before each printing and the extruder process guide rails are clean from material remains and dust

Checking the tension Every 300 working of the drive belts on hours the X/Y axes

Axes blocksChecking the tensionEvery 300 working–of the drive beltshours–between the motors–and the X/Y axes–Checking if theEvery 300 working–screws on the X/Yhours–axes and the motor–pulleys are tightenedEvery 300 working–

SOLUTIONS TO THENECESSARY PROBLEMS ACCESSORIES

It is possible to feel - silicone oil 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 quide rails are covered with black grime. The axes and quide rails should be cleaned with a cloth damped in acetone and then lubricated with silicone oil. 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. If the belts are loosened, tighten the screws placed on the top part of the X/Y

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

Extruder

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

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 500
working hours	sworking hour	sworking hours	sworking hours		sworking hours