

1,000-Hour Maintenance Checklist

Check each item as it is completed. Refer to the detailed procedure below for instructions and cautions.



Preparation

- ☐ Gather the required lubricants, cleaning supplies, and tools.
- ☐ Power off and unplug the printer.

Y Axis

- ☐ Position the printer on its front and gantry.
- ☐ Remove the wiring cover; disconnect the four connectors and the Z-axis motor lead.
- ☐ Remove the bottom cover.
- ☐ Remove filament pieces and debris from the printer base.
- ☐ Clean the Y-axis rods and roller contact surfaces.
- ☐ Apply a thin layer of grease and cycle the bed several times.
- ☐ Inspect the Y-axis belt, motor, idler, and tensioner.
- ☐ Reinstall the bottom cover and reconnect all wiring.

X Axis

- ☐ Clean the crossbar, including the V-shaped running surfaces.
- ☐ Apply a light film of oil, cycle the printhead, and wipe away excess.

Z Axis

- ☐ Clean both lead screws.
- ☐ Oil both hidden linear guide rods.
- ☐ Lightly lubricate both lead screws.

Printhead

- ☐ Disassemble the printhead using Brian Cabalic's video.
- ☐ Clean the cam mechanism, extruder gears, and printhead interior.
- ☐ Inspect and clean the 4-into-1 cone, collar, nozzle, and heatsink.
- ☐ Lubricate only the specified cam and shift-motor gear surfaces.
- ☐ Reassemble the printhead using Brian's video.

Purge Ejector

- ☐ Remove the purge ejector and plastic bottom cover.
- ☐ Inspect and clean the rack, ejector ram, and gear mechanism.
- ☐ Lightly grease both racks (slides and gear teeth), as well as the round gear.
- ☐ Reassemble and reinstall the purge ejector.

Final Checks

- ☐ Verify that all covers, screws, and wiring are secure.
- ☐ Confirm smooth movement; remove excess lubricant and wipe down the printer.
- ☐ Reconnect power and run the appropriate calibrations.