

# Anycubic Kobra 2 Max

## Maintenance

Maintenance and troubleshooting checklist for the **Anycubic Kobra 2 Max** (V-wheel gantry, belt tensioner knobs, auto leveling). Sources:

- [Anycubic Wiki: Kobra 2 Max Leveling Calibration Guide](#)
- [Anycubic Wiki: Kobra 2 Series Quick Start Guide](#)
- [Anycubic Wiki: Firmware update log](#)

History: this checklist was first written to bring this printer back into service, so it starts with a diagnosis step. Use that step whenever the printer is acting up; otherwise follow the routine schedule.

Confirm the model on the label on the back. This page is for the **Kobra 2 Max**. The older original Kobra Max is mechanically similar but its menus differ; see [Anycubic: Kobra Max hot end replacement](#).

## Routine schedule

| Interval          | Task                                                                  |
|-------------------|-----------------------------------------------------------------------|
| Before each print | Clean the bed; check the nozzle for buildup                           |
| Monthly           | Check eccentric nuts and belt tension; clean the V-slots              |
| Every 3 months    | Grease the Z lead screws; clean the extruder gears; blow out the fans |
| As needed         | Nozzle replacement; firmware updates                                  |

## Supplies

- Open-end wrenches (for the eccentric nuts), hex keys
- Isopropyl alcohol (IPA) and paper towels
- Light machine grease for the Z lead screws (PTFE-based, for example Super Lube)
- Compressed air, brass brush
- Spare nozzle (check the fit: Kobra 2 nozzles differ from standard Volcano nozzles), USB drive or SD card for firmware
- Known-good PLA

# 1. Diagnose (when something is wrong)

- Write down the symptom: will not power on, heater or thermistor error, leveling failure, poor prints, clog.
- Power on and note any error message.
- Heater or thermistor (NTC) errors usually mean a loose cable or a failed part. Reseat the connectors first (see the troubleshooting section of the [Quick Start Guide](#)).

# 2. Power off, unplug and clean

- Remove debris from the frame, bed and V-slot extrusions.
- Wipe the V-slot channels so the wheels roll on clean aluminum.

# 3. Frame and fasteners

- Check that the gantry uprights are square to the base and all frame bolts are tight.
- Shake the print head and the bed by hand to find any wobble.

# 4. V-wheels and eccentric nuts

Loose or worn wheels are the most common cause of Kobra problems.

- Lower the X-axis module (pull the belt) and check the Z-axis V-wheels for slipping.
- For any loose carriage (Z, X print head, Y bed), turn its eccentric nut with an open-end wrench in **small** steps until the wheel just stops spinning freely under your finger, without

binding.

- Every wheel should touch the extrusion; none should be so tight that it flat-spots.
- Look for cracked, flat-spotted or worn wheels and report them for replacement.

## 5. Belts

- Inspect the X and Y belts for fraying or missing teeth.
- Anycubic's method: turn the X/Y tensioner knob **fully clockwise**, then back it off **two turns** counterclockwise.
- Confirm the pulley grub screws are tight on the motor shafts.

## 6. Z-axis lead screws

- Wipe the lead screws clean.
- Apply a thin coat of light grease, run Z up and down to spread it, and wipe off the excess.
- Confirm both Z sides move together, so the gantry stays level.

## 7. Extruder and hotend

- Heat the nozzle and brush off old plastic.
- Open the extruder and clean filament dust from the drive gears.
- Do a cold pull, or replace the nozzle, if extrusion is weak or blocked.
- Check the heater cartridge and thermistor wires at the hotend for damage.

## 8. Fans and wiring

- Blow out the hotend and part cooling fans. Hold the blades still.
- Inspect the print head cable and bed cable for wear at the bend points.
- With the printer unplugged, reseal the main board connectors (heater, thermistor, motors, endstops and probe).

## 9. Bed surface

- Clean the PEI spring steel sheet with IPA, or dish soap and water if needed.

- Clean debris off the bed underside and the magnet surface.

## 10. Firmware

- Check the installed version against the [Anycubic update log](#) and the Kobra 2 Max firmware page. Only flash official Kobra 2 Max firmware.

## 11. Calibration

Per the [Anycubic leveling calibration guide](#):

- **Position calibration:** Tools > Control > Module Calibration > Position Calibration. Jog the nozzle to the center of the calibration module, then save.
- **Auto leveling:** Tools > Control > Auto Leveling, with the bed heated.
- **Z-offset:** print a first-layer test and adjust the Z-offset until the line is slightly squished.
- Print a small test part.

## 12. If it still will not level or print

- Re-check the eccentric nuts and belts (sections 4 and 5). Anycubic attributes most leveling problems to loosened parts.
- Check the probing and offset switch area for dust (a community-reported fix for the Kobra 2 family; see [Anycubic Kobra 2 leveling issues fix](#)).
- Record the problem. If a part has failed, the printer may need a support ticket with Anycubic.

## Afterwards

Record anything you found, what you did about it, and whether follow-up is needed. If the printer is not safe to use, tag it out of service: see **Shop Safety: Tagging a Tool Out of Service and Reporting It**.

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