

# HOW TO Install LGX® ACE and Mosquito on the Anycubic Kobra

Difficulty **Medium**  
Steps **49**  
Time Required **25 to 30 min**  
Sections **1**



PRODUCT PAGE



## INSTRUCTIONS GUIDE

This guide is designed to be a reference manual for how to do install LGX® ACE and Slice Engineering Mosquito hotend on the Anycubic Kobra. Follow the instructions below or, if you prefer to watch a YouTube video with the same instructions, use the provided link below or the YouTube icon to the right:

<https://youtu.be/yRLPEI9jh2U>



01 Remove the ribbon cable connector.



02 Unscrew the two M3 screws on the left side using a 2.5 mm hex key.



03 Unscrew the two M3 screws on the right side.



04 You can now remove the toolhead assembly.



05 Unscrew the countersunk M3 on the left side using a 2 mm hex key.



06 Unscrew the M3 screw on the front using a 2.5 mm hex key.



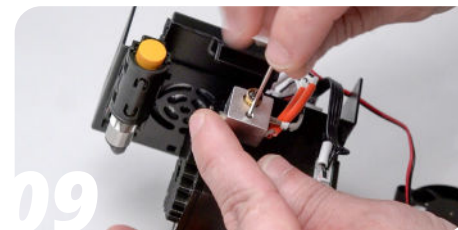
07

You can now remove the front cowling.



08

Unscrew the two M3 screws holding the fan to the heatsink using a 2.5 mm hex key.



09

Remove the silicone sock and loosen the screws holding the heater and thermistor.



10

Pull the heater and thermistor out.



11

Disconnect the stepper motor.



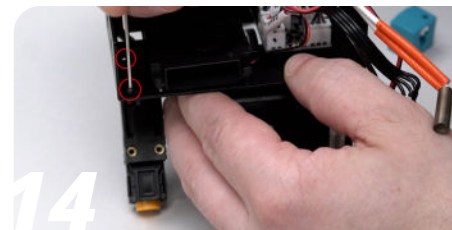
12

Undo the screws holding the fan shroud.



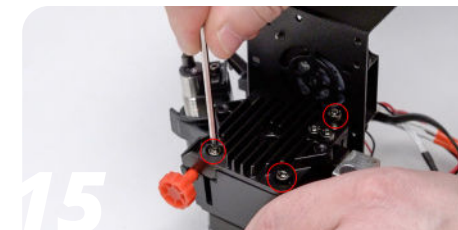
13

Remove the fan shroud.



14

Undo the screw holding the bed probe.



15

Undo the three screws holding the hotend heatsink.



Remove the hotend heatsink.



Remove the extruder tensioning assembly.



Remove the main extruder gear.



Undo the screw in the center of the main extruder gear bearing.



Remove the rest of the extruder and the motor from the carriage.



Add the extruder motor and the extruder to the carriage.



Fasten the top right M3 screw using a 2 mm hex key.



Add the hotend assembly to the extruder.



Fasten the two M3 screws at the bottom using a 2 mm hex key.



25 Remove the heater and thermistor retention screw with a 2 mm hex key.



26 Add the heater and thermistor to the hotend.



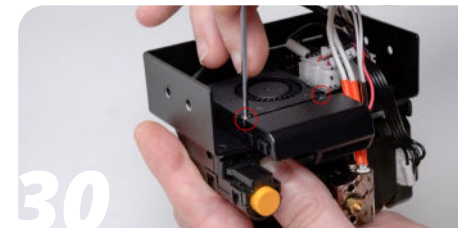
27 Add the heater and thermistor retention screw and tighten with a 2 mm hex key.



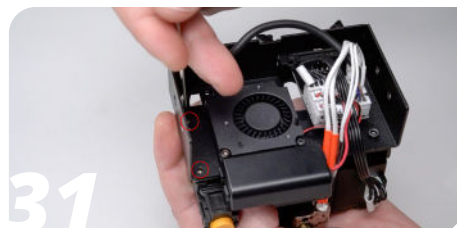
28 Connect the stepper motor.



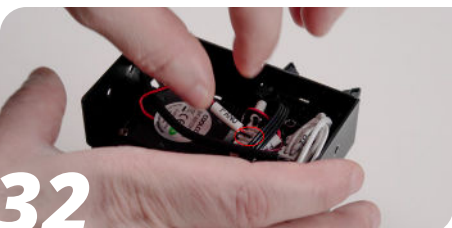
29 Add the hotend heatsink fan and to the top fasten M3x12 SHCS screws with a 2.5 mm hex key.



30 Add the two screws holding the fan shroud and fasten them.



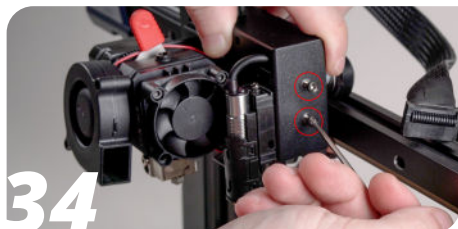
31 Add the screws holding the bed probe and fasten them.



32 Disconnect the part cooling fan.



33 Route the wire from the 5015 from the front to the back and connect it to the board.



34

Fasten the two M3 screws holding the toolhead to the x-carriage right side.



35

Fasten the two M3 screws holding the toolhead to the x-carriage left side.



36

Put on the hotend silicone sock.



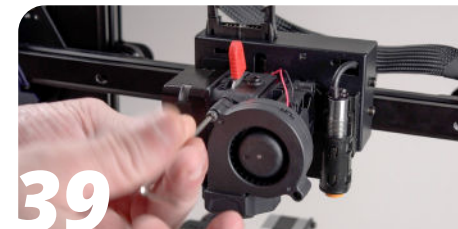
37

Add the fan shroud to the fan shroud bracket using a M3x6 SHCS screw and a 2.5mm hex key.



38

Add the two included M3x6 BHCS screws and fasten them with a 2mm hex key.



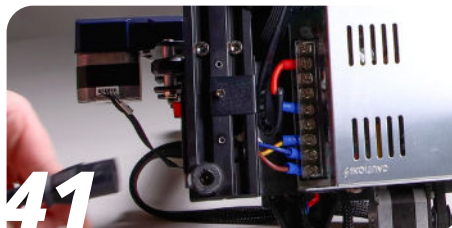
39

Add the fan to the fan shroud and fasten it using the included M3x20 SHCS and a 2.5mm hex key.



40

Connect the toolhead connector.



41

Turn the printer on its side, and make sure it's unplugged.



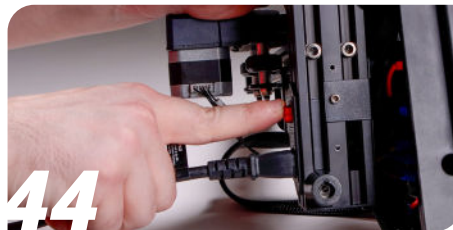
42

Undo the two screws in the middle.



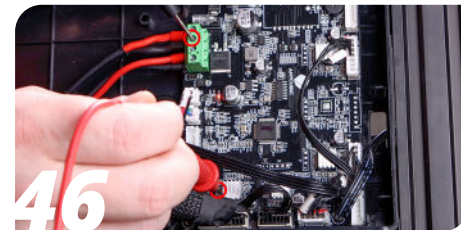
43

Pry the access panel off using a flathead screwdriver or something similar.



44

Plug the printer in and turn it on. Be careful around the now hot terminals on the PSU.



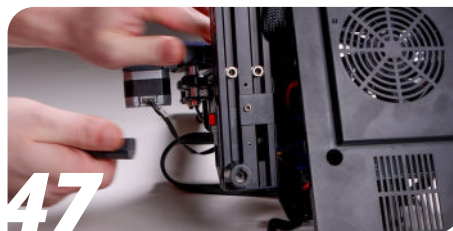
46

Measure with a multimeter between the extruder driver trimpot and PSU GND.



46

Turn the factory value down to 750 mV or 0.750 V



47

Add the back panel to close it up again.



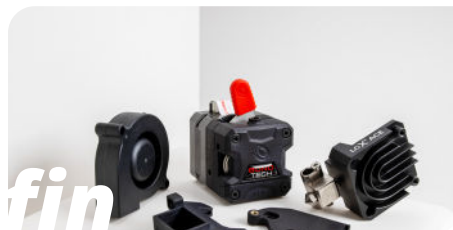
49

Add the two screws and tighten them back down.



49

Unplug the printer and the hardware is done!



fin

Check the Quick Start guide for slicer presets and printer settings.





## TAKE GOOD CARE OF IT

Every 6 months, or sooner if you have a higher than 15h per week average usage, perform the following maintenance operations:

1. With a tooth brush and alcohol:
  - a. Clean the needle bearings
2. With a fine brush and lubricant
  - a. Lubricate the needle bearings
3. With compressed air
  - a. Blow the housing plastic parts to remove dust and dirt particles

## HOW TO GET HELP

We are available to help you with any questions or issues you may have. Simply go to our website where you can access our customer support and send us your questions or follow the provided link:

[https://www.bondtech.se/contact/#tab\\_technical-support-requests](https://www.bondtech.se/contact/#tab_technical-support-requests)