

HOW TO Install LGX® lite on the Creality Ender-7

Difficulty **Medium**
Steps **42**
Time Required **15 to 25 min**
Sections **1**



INSTRUCTIONS GUIDE

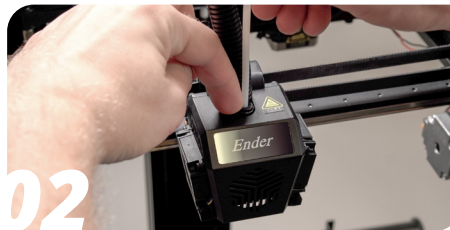
This guide is designed to be a reference manual for how to do install LGX® lite on the Creality Ender-7. Follow the instructions below or, if you prefer to watch a YouTube video with the same instructions, use the provided link below or the YouTube icon to the right:

<https://youtu.be/VqcpOGYQPdo>



01

Remove the blue collet clip.



02

While pushing down on the push-fit connector, press the bowden tube down and then lift it out.



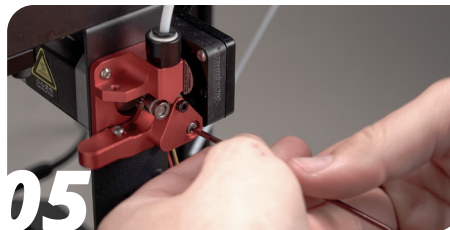
03

Undo the M3 screw setting the spring tension using a 2 mm hex key.



04

Remove the spring.



05

Undo the M3 screw holding the idler arm using a 2.5 mm hex key, then remove the idler arm.



06

Loosen the extruder gear set screw using a 1.5 mm hex key.



07

Loosen the three M3 screws holding the extruder to the motor using a 2 mm hex key.



08

Pull away the extruder gear.



09

Fasten the three M3 screws holding the extruder to the motor.



10

Undo the four M3 screws on the bottom of the gantry front side using a 2 mm hex key.



11

Undo the four M3 screws on the bottom of the gantry back side using a 2 mm hex key.



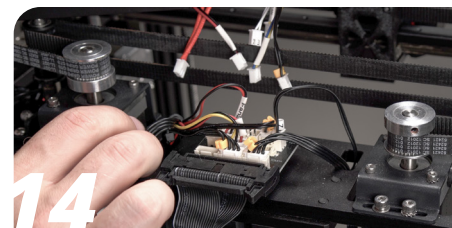
12

Use a flathead screwdriver or something similar to pop off the gantry cowling.



13

Cut the zip ties securing the wire loom coming from the toolhead.



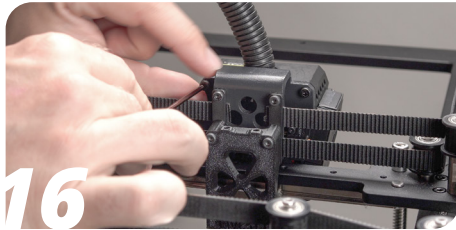
14

Disconnect all wires coming from the toolhead.



15

Pull the toolhead wiring loom through the gantry cowling.



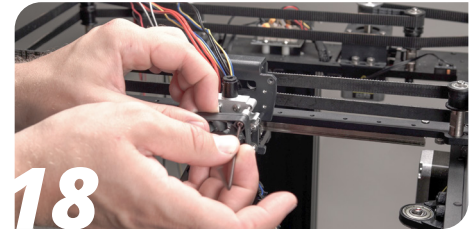
16

Undo the two M3 screws holding the toolhead to the x-carriage using a 2.5 mm hex key.



17

Remove the wires from the conduit.



18

Undo the two M3 screws holding the fan using a 2 mm hex key.



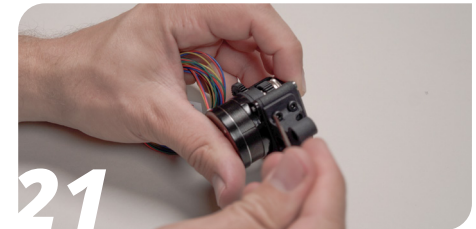
19

Undo the four M3 screws holding the hotend using a 2 mm hex key.



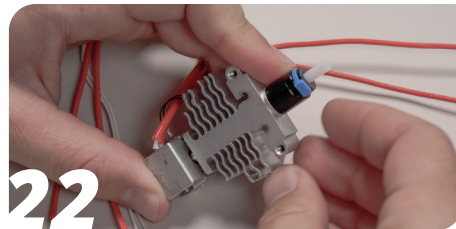
20

Add the conduit holder to the LGX lite using two low profile M3x8 screws and a 2 mm hex key.



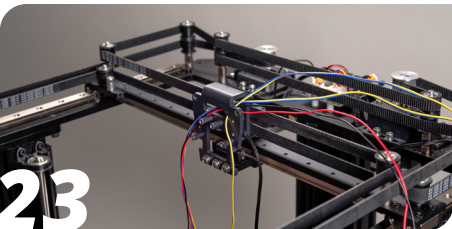
21

Add the mount to the bottom of the LGX lite using three low profile M3x8 screws. See Step 40 for changing the direction of the motor.



22

Add the included 60.8 mm PTFE insert and the blue collet clip to the hotend.



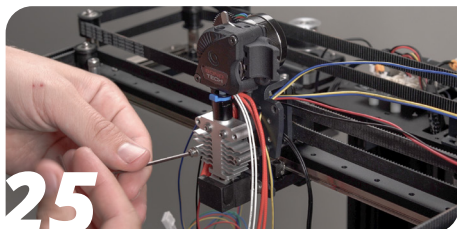
23

Route wires as shown.



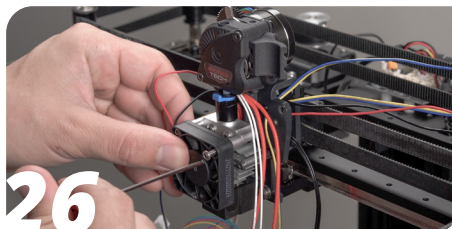
24

Add the LGX lite and hotend to the x-carriage by pushing them in from the front, LGX lite first.



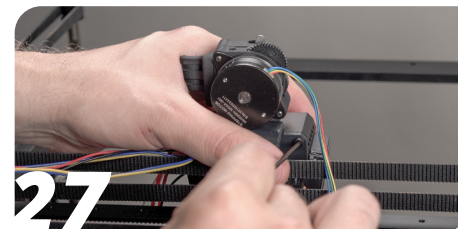
25

Fasten the hotend to the x-carriage using the same BHCS screws and a 2 mm hex key.



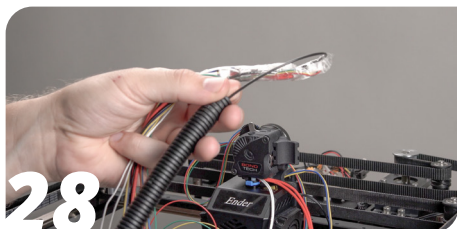
26

Fasten the fan to the hotend using the same BHCS screws and a 2 mm hex key.



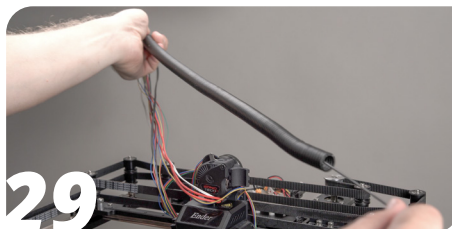
27

Fasten the cowling to the x-carriage back using the same SHCS screws and a 2.5 mm hex key.



28

Push and pull the wiring loom through the conduit, using some tape and a piece of filament.



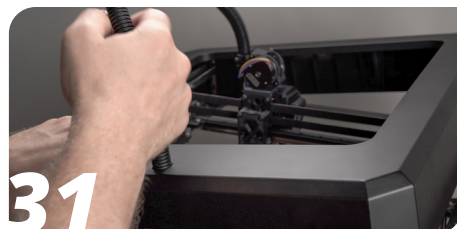
29

Using some tape and a spare piece of filament or string helps with this step.



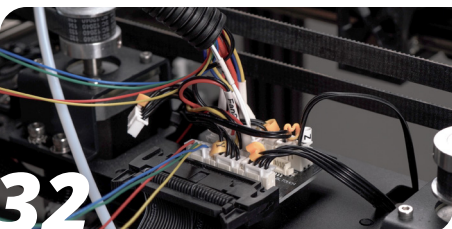
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Secure the conduit to the side of the LGX lite using the two included zip ties.



31

Place the gantry cowling loosely on the gantry and feed the conduit into it.



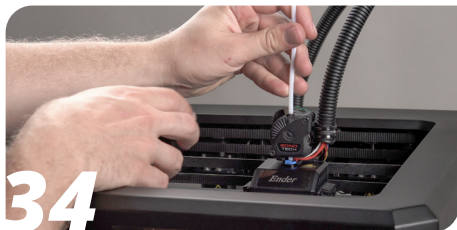
32

Reconnect all the connectors unplugged previously.



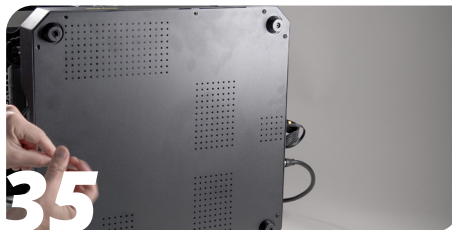
33

Click the gantry cowling back in place and secure it using the same screws.



34

Attach the bowden tube.



35

Unscrew all screws holding the bottom cover on.



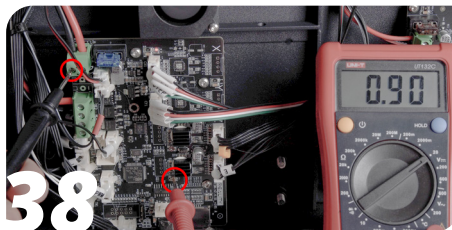
36

Remove the bottom cover.



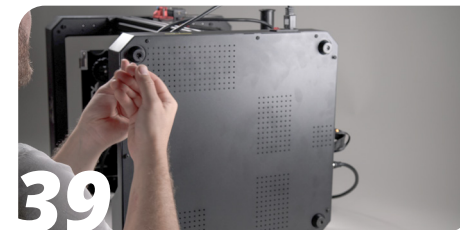
37

Power on the printer and be careful around the now live wires during the following step.



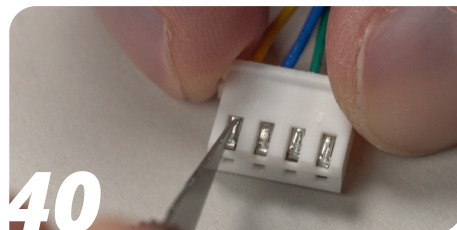
38

With a multimeter, measure between PSU ground and the extruder trimpot. It should be about 1.25 volts from factory. Dial this down to 0.90 volts.



39

Power it down and close it back up and you are done with the hardware configuration.



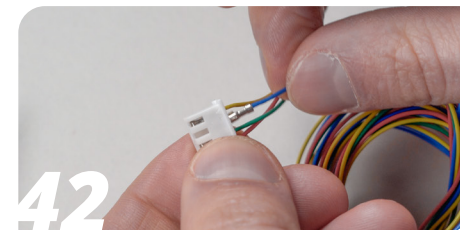
40

With something small and sharp, extract the blue and yellow pin.



41

Lift the small tines a little bit to make sure they stay in the connector.



42

Reinsert the wires in a swapped order. Please see the Quick Start Guide for software configuration and print profiles.

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 double gear and the drive gears
 - b. 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

