

Technical manual

Upgrade your printer: Stepper drivers

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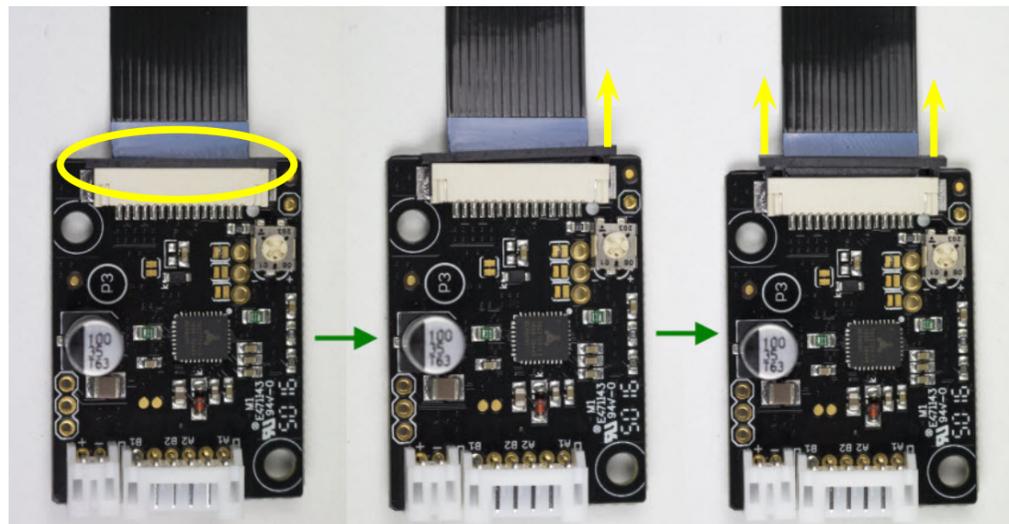
GENERAL TIPS

Because all drivers have the same kind of flat cable and connector, first learn how to connect and disconnect the cable. This process will be repeated in all six Drivers and it is the most critical part.

Gently release the latch, first one side and then the other. Then you can remove the flat cable. To connect it again follow these instructions in the reverse order and make sure the latch is tight.

Tools needed

- Phillips screwdriver.
- 2,5 Allen.
- 5,5 metric sockets wrench.



Below you can check out how the flat cable is well connected.



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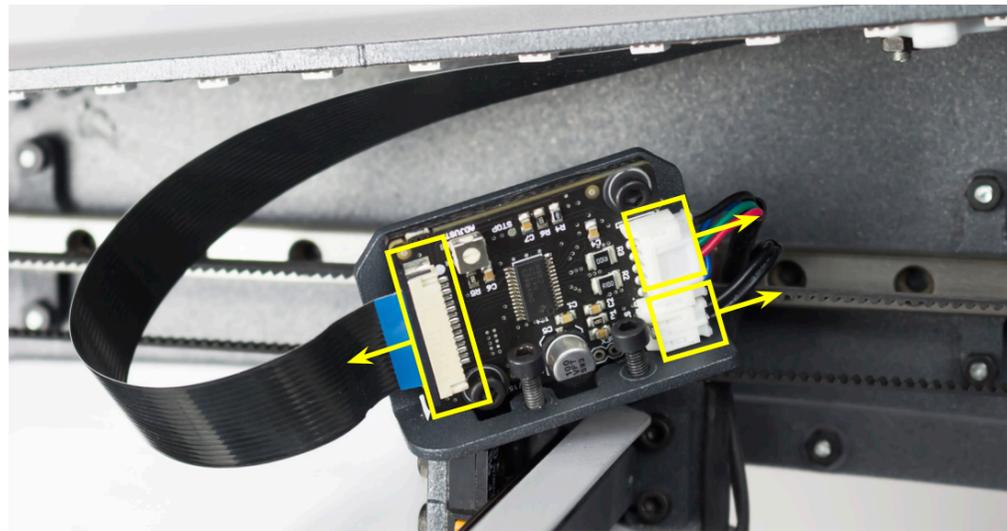
Before starting the upgrade, raise the bed so you can have access to the Z driver, and then, turn off and disconnect the printer.

X Axis drivers

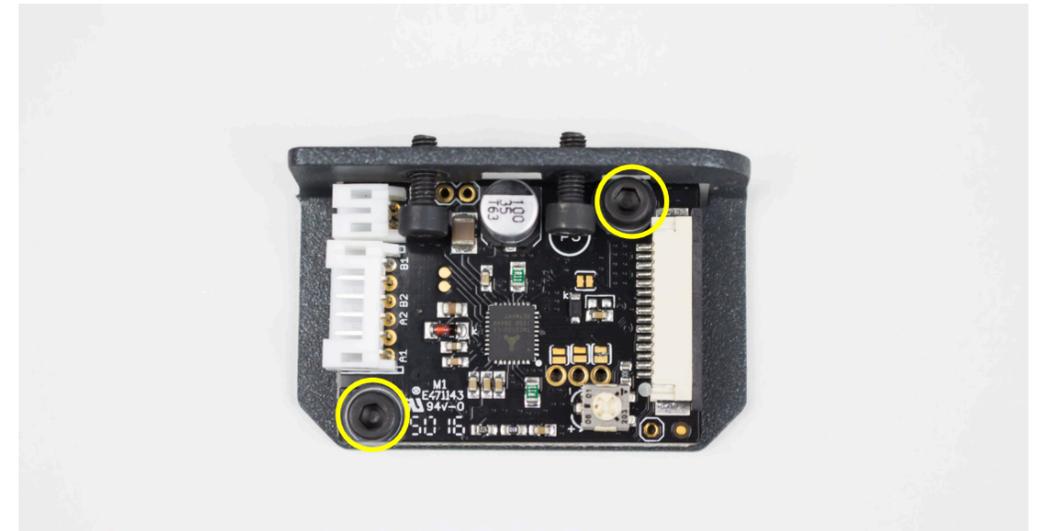
1. Remove the two Allen screws of the Driver holder.



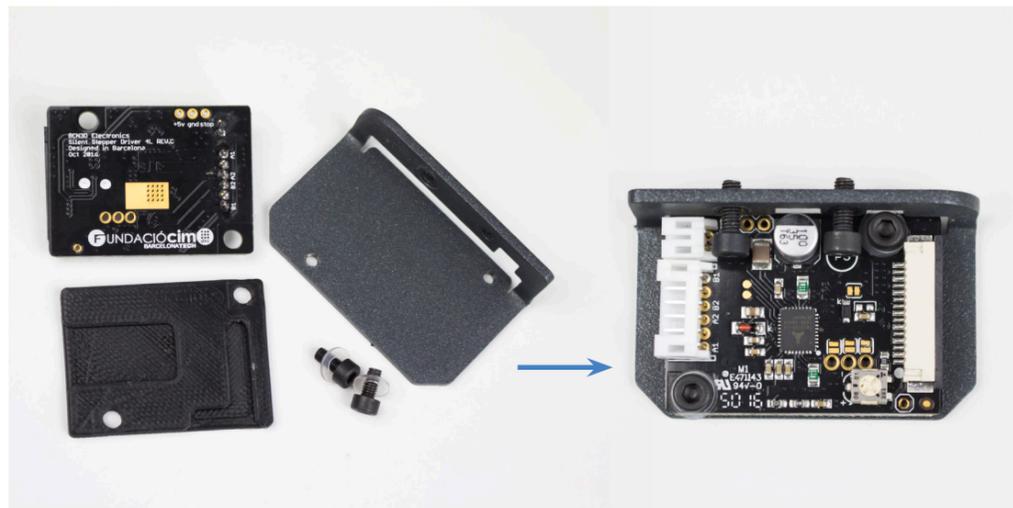
2. Disconnect the flat cable and the other connectors.



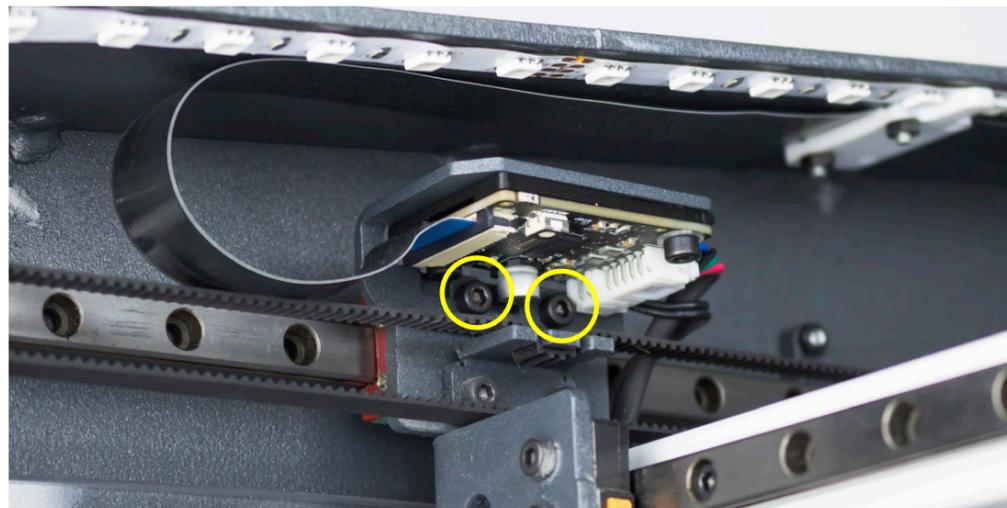
3. Remove the two screws and washers of the Driver.



4. Assemble the new Driver with the spacer and holder with the same screws and washers in the same way as it was before.



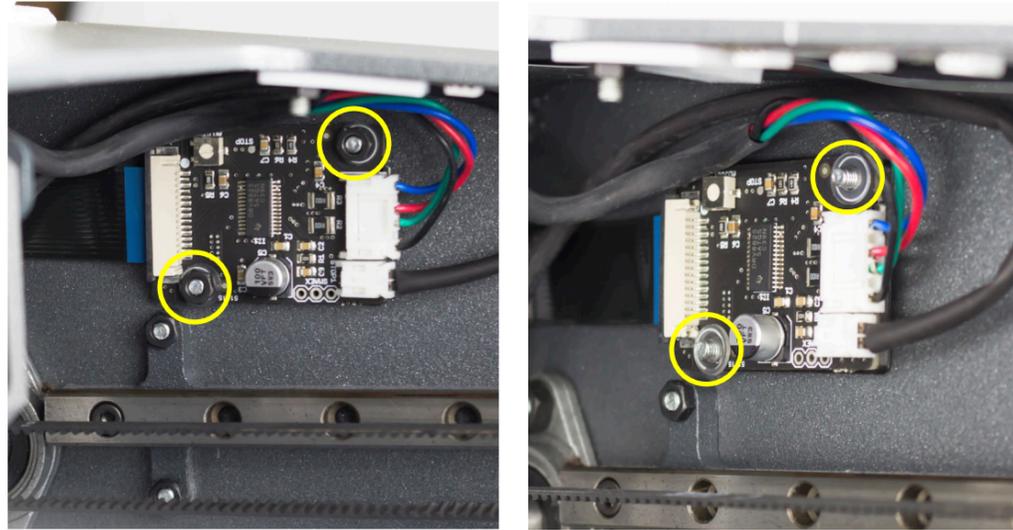
5. Connect the flat cable and the other connectors to the Driver, and screw the two screws of the Driver holder.



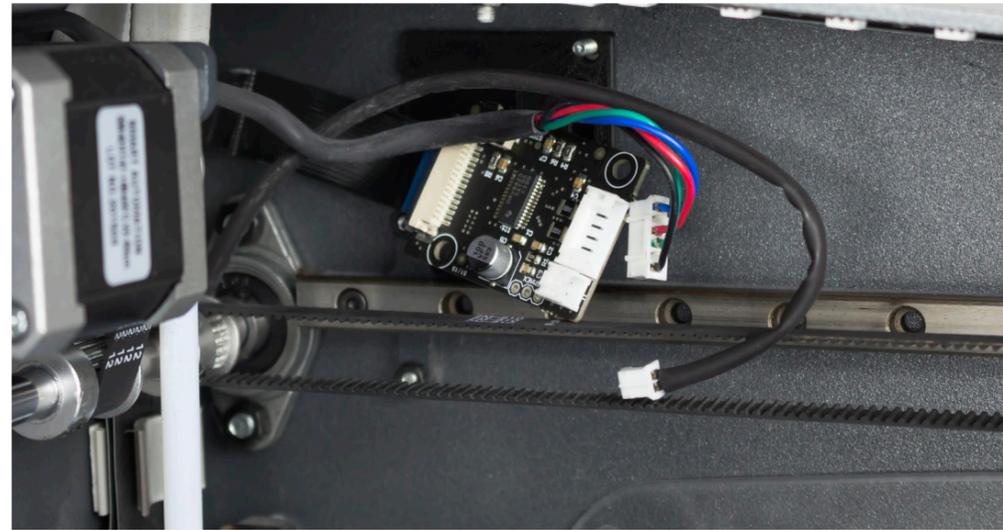
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Y Axis drivers

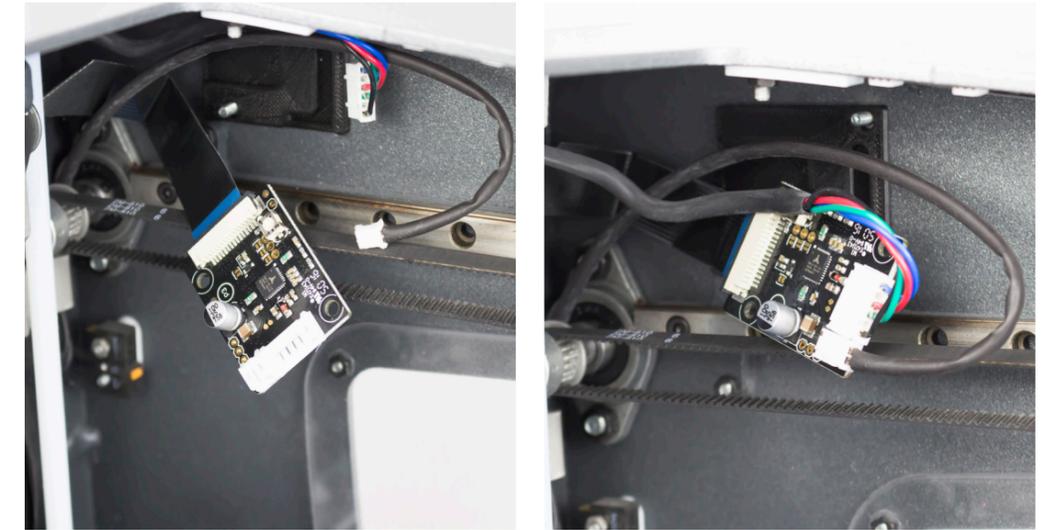
6. Remove the two nuts and washers that are holding the Driver.



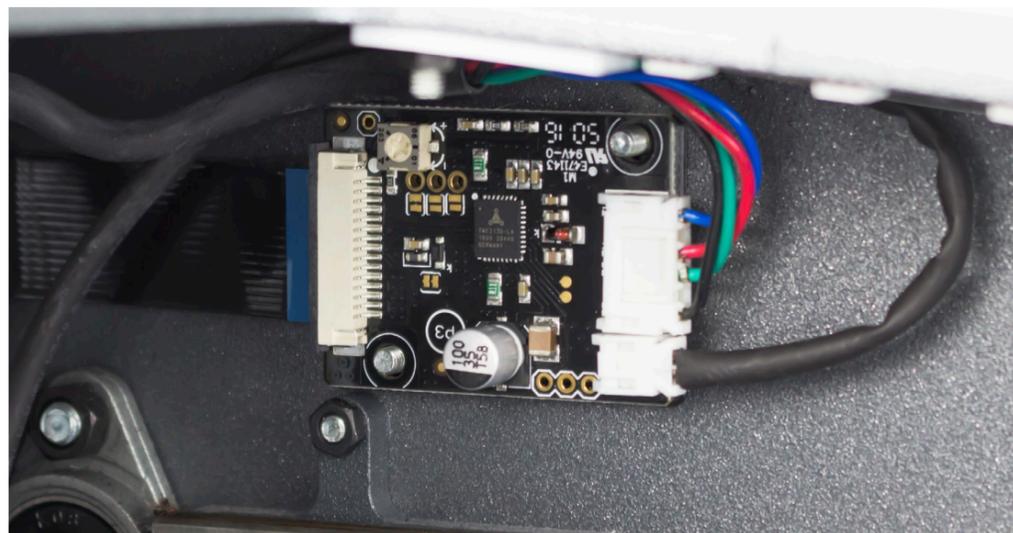
7. Disconnect the flat cable and the other connectors.



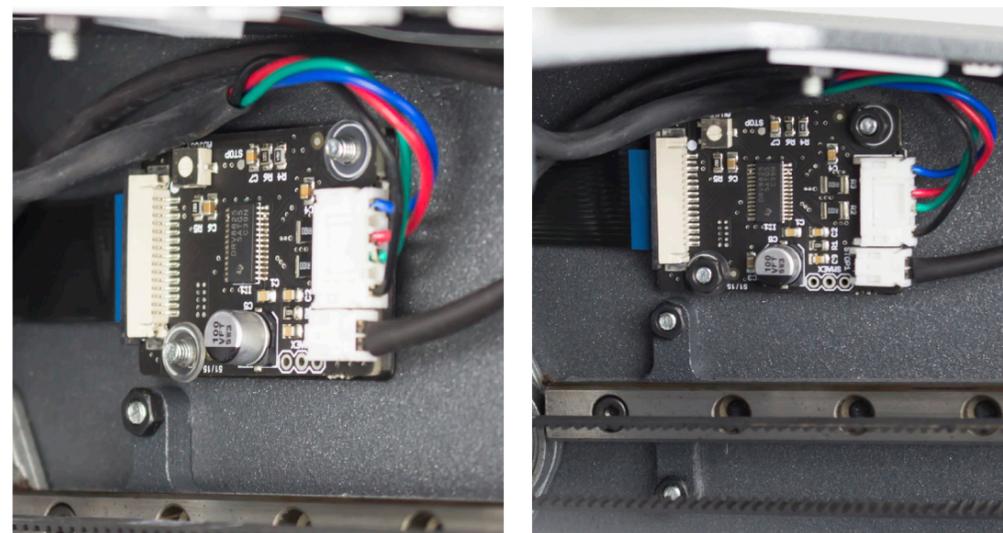
8. Connect the flat cable and the other connectors to the new Driver.



9. Assemble the new Driver in the correct position with the same spacer as it had before.



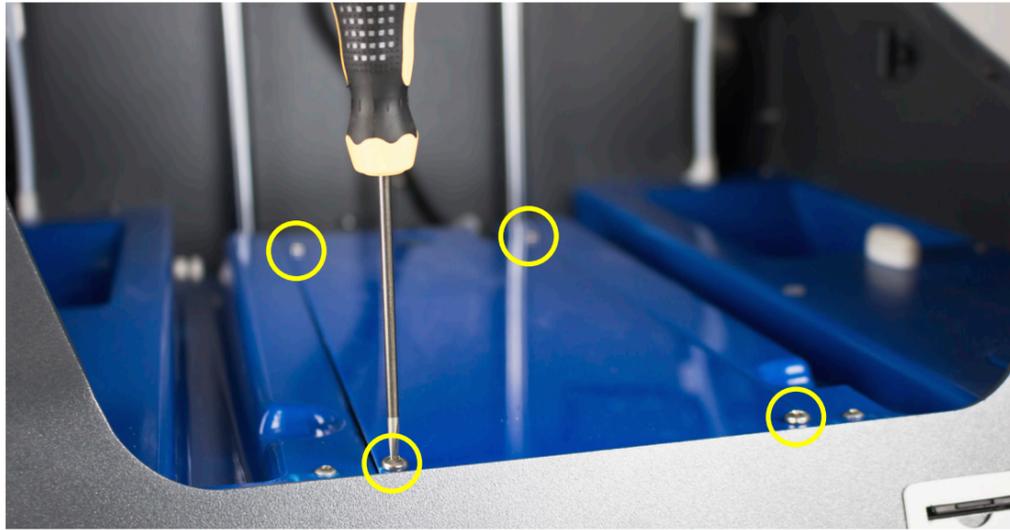
10. Put the washers and nuts and tighten them.



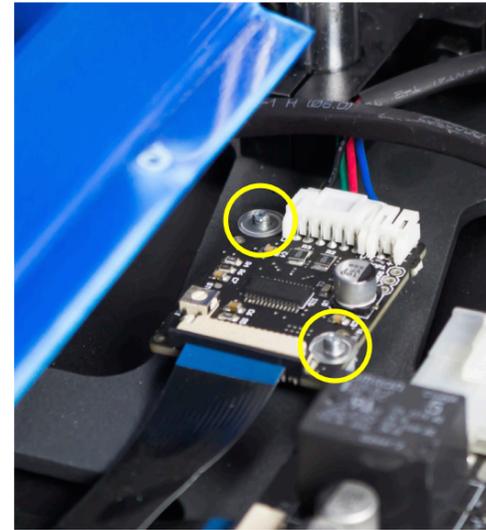
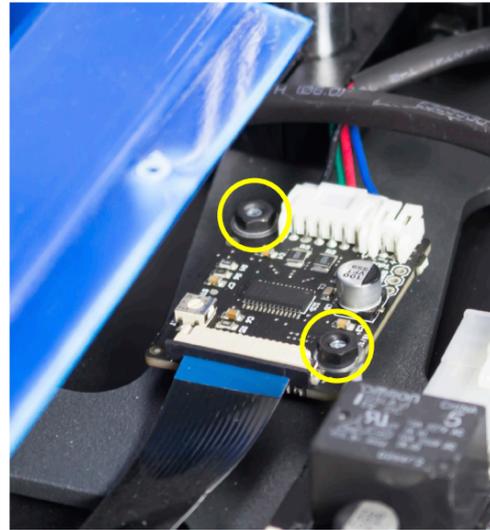
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Z Axis drivers

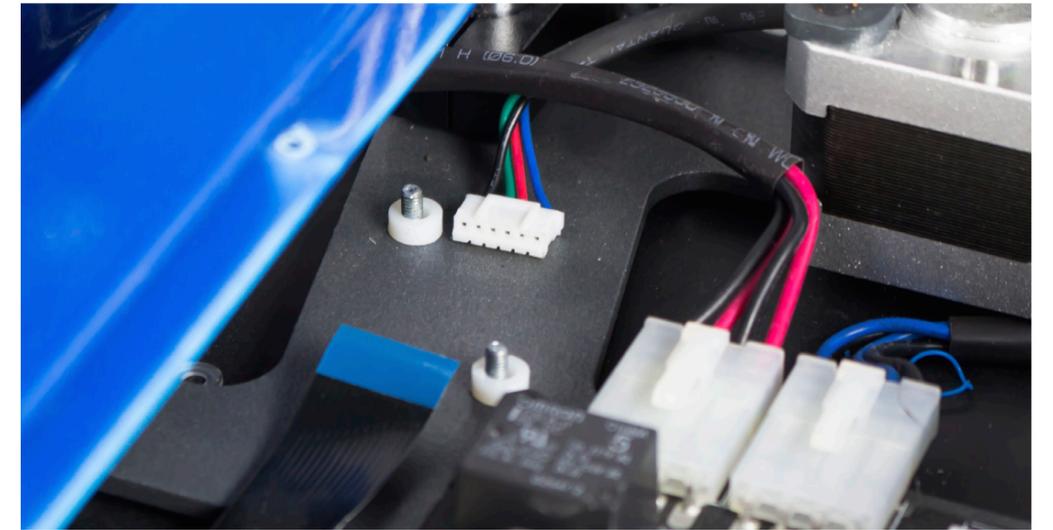
11. Remove the cover by unscrewing the four screws.



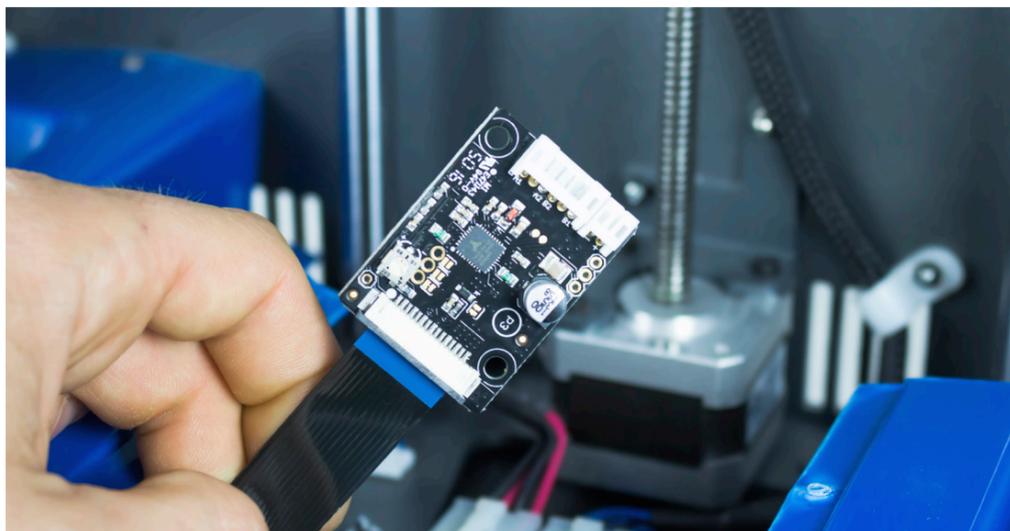
12. Remove the two nuts and washers that hold the Driver.



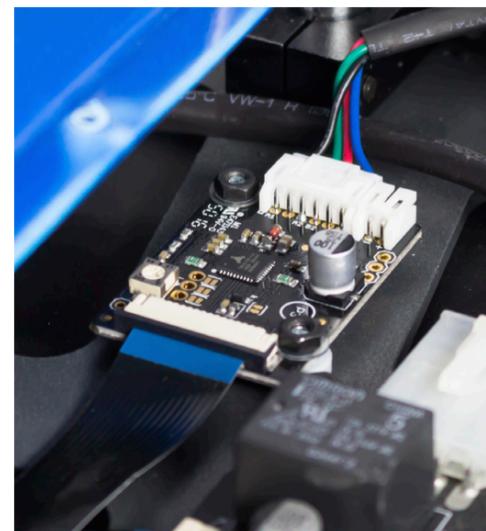
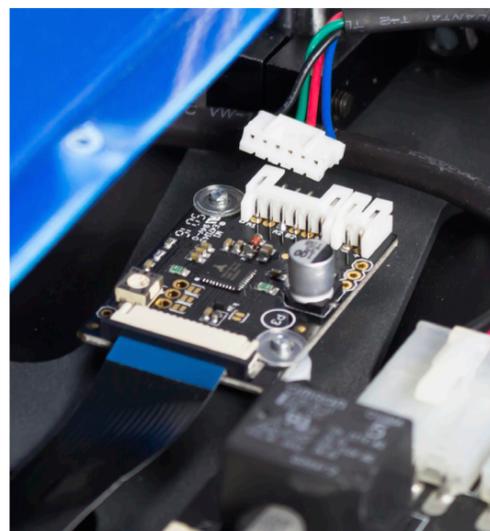
13. Disconnect the flat cable and the stepper motor wire.



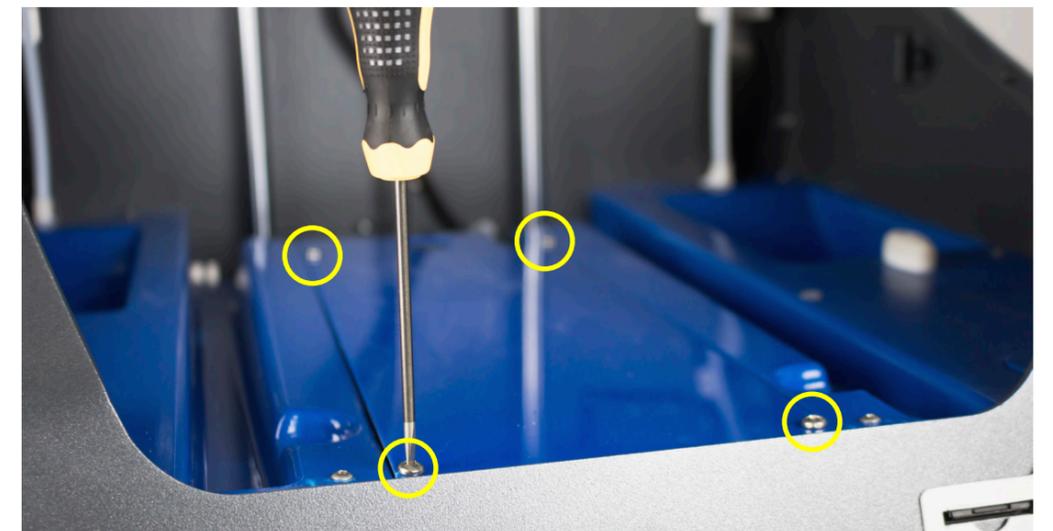
14. Connect the flat cable to the new Driver.



15. Assemble the new Driver in the correct position with the same spacer as it had before and then place the washers. Tighten the nuts and connect the stepper motor wire.



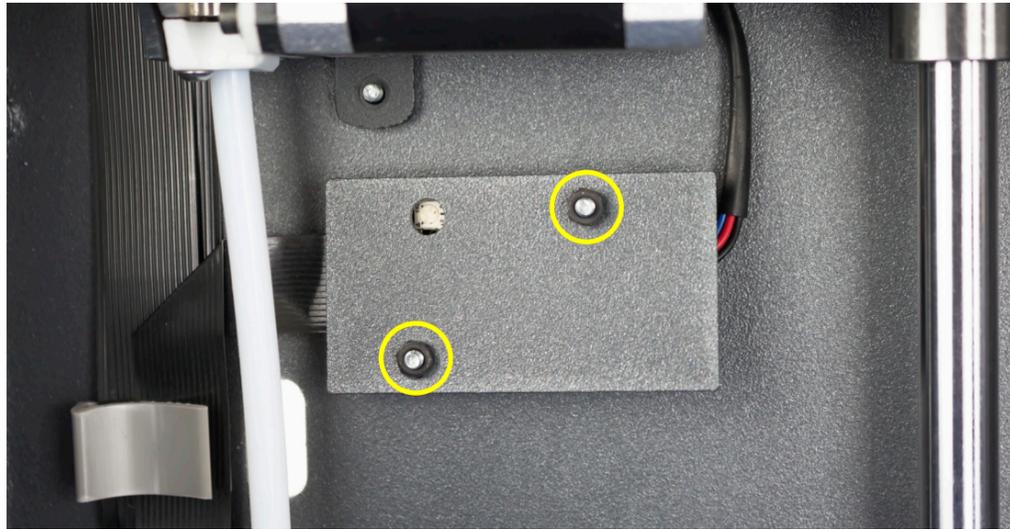
16. Place the blue cover again and tighten the four screw.



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Extruder motor driver

17. Remove the metal cover by removing the two nuts.



18. Remove the front spacers and disconnect the stepper motor wire and flat cable from the Driver. Then remove the Driver.



19. Connect the flat cable to the new Driver. Then place the Driver with the same back spacer and connect the Stepper motor wire.



20. Place the new front spacers and the same cover. Then place and tighten the two nuts.

