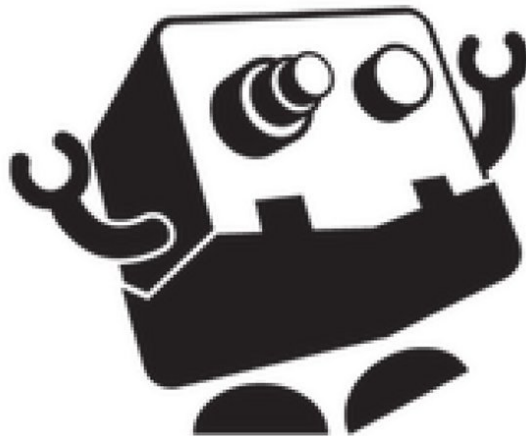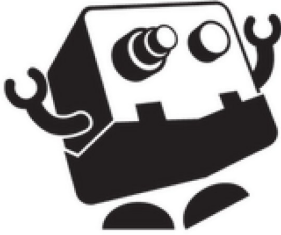# Non Working 3D Printer and Laser Attachments

If you are not have success with your 3D Printer Attachment and your Laser Attachment use follow this guide.
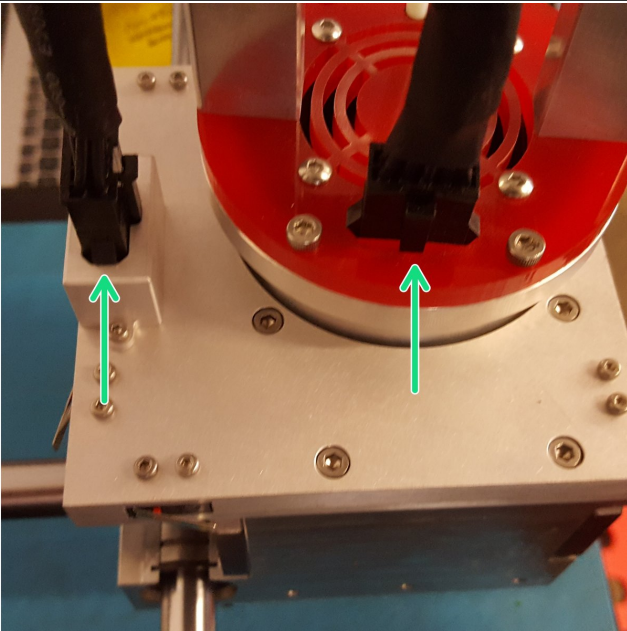
Written By: BoXZY

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Step 1 — Problem

- 3D Printing Attachment Fan is not working
  - AND...
- Laser Attachment laser is not projecting
- (i) If you are having these problems please continue this guide to verify the issue and fix the problem

Step 2 — Double Checking

- **Insert** your *3D Printing Attachment* into BoXZY
  - **Connect** the **Wiring Harness** cables to both the *Limit Switch Connector* and the *3D Printing Connector*
  - Turn the **Extruder ON** and set the Temperature to *180 degrees*
  - Turn the **Fan ON**
- (i) If the 3D Printing Attachment Fan is not on or the 3D Printing Head is not being recognized by the Interface move on to the next step of this guide

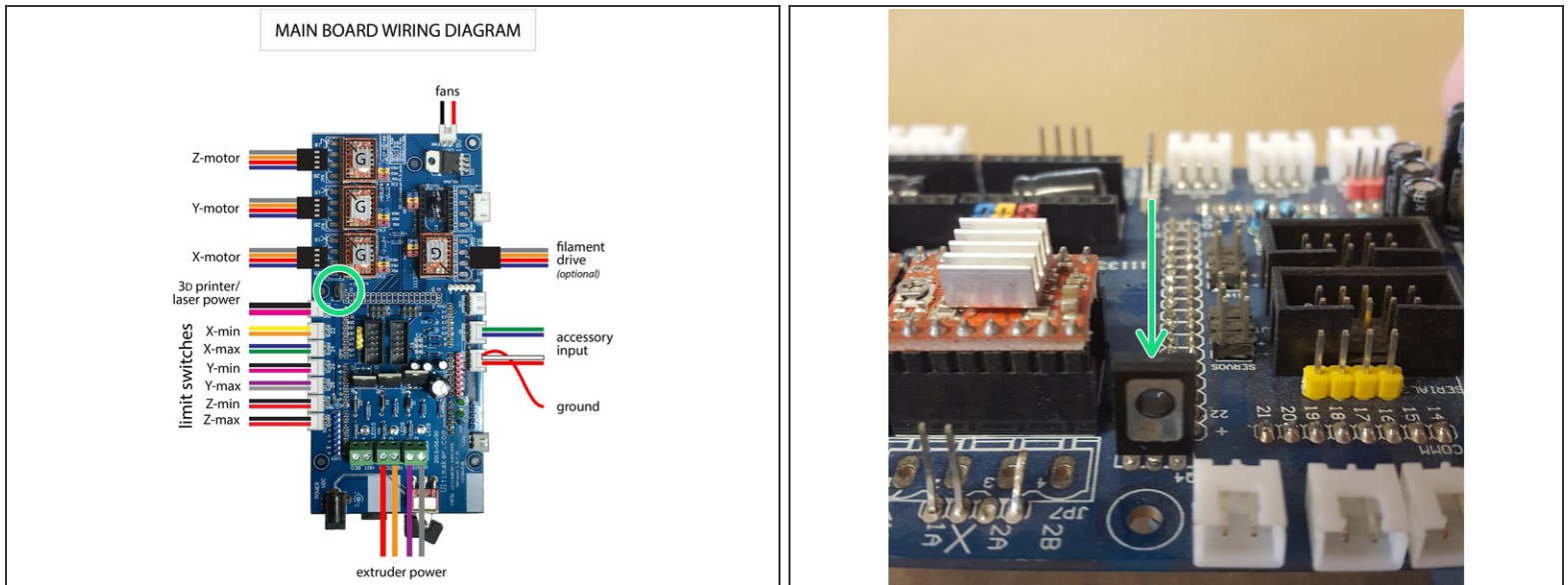This document was generated on 2019-10-25 03:54:14 PM (MST).

Step 3 — Double Checking
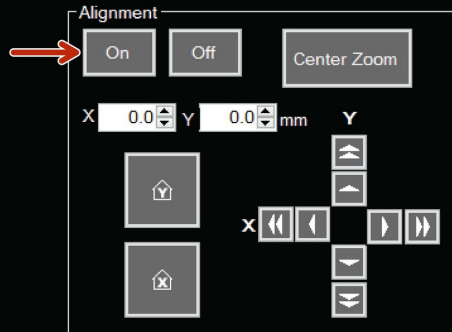
- **Insert** your *Laser Attachment* into BoXZY

  - **Connect** the **Wiring Harness** cables to both the *Limit Switch Connector* and the *Laser Attachment Connector*

- Turn the **Alignment ON** in your BoXZY Interface Laser tab

  - This will turn the Laser Diode **ON** and project a very low powered laser beam

  - (i) If you do not see a blue dot or blue laser beam then continue to the next step

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Step 4 — Problem Solving

- This issue is a transistor problem

- The first image is BoXZY's breakout board diagram
    - The transistor that is a problem is indicated by the *green circle* and *green arrow* in the images

    - This is the **Q4 Transistor** and it will need to be replaced

    - (i) If you can solder you can replace it yourself by following the next few steps of this guide

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Step 5 — Transistor Replacement: Part 1
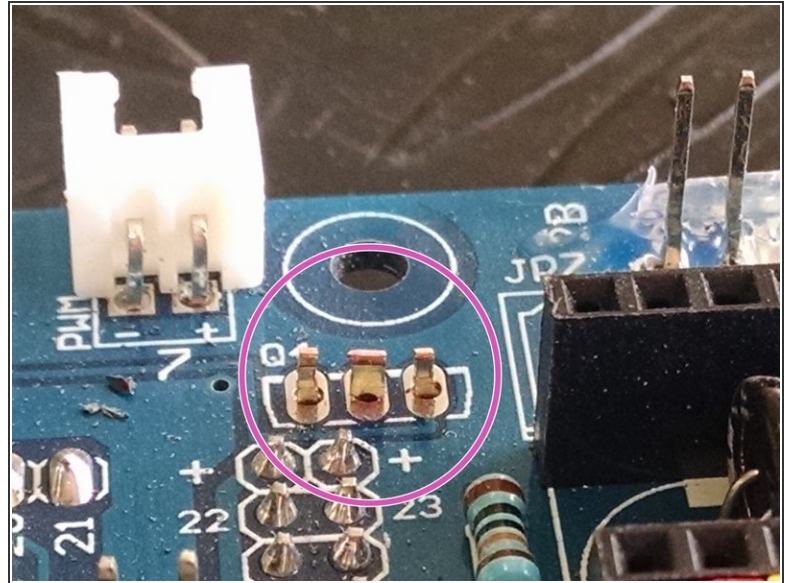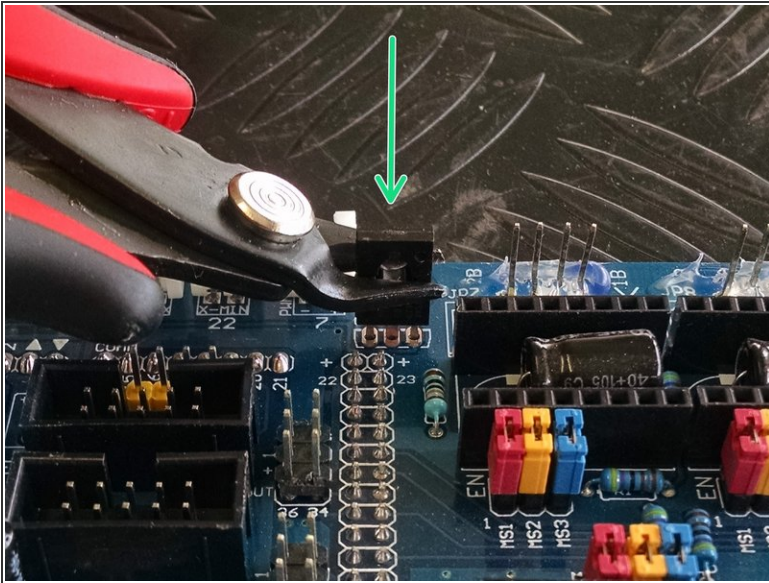
- **Disconnect** the *Power Station* and the *USB* from BoXZY

- **Remove** the *Electronics Cover* by lifting up on it, the cover uses Key Holes and 4 bolts to lock it in place

  - 📌 The *Fans* on the Electronics cover and the *Wiring Harnesses* are connected to the Electronics Boards. **DO NOT** Disconnect anything

- **Locate** the transistor, as indicated in the last step of this guide and the images in this step

- **Clip Off** the old transistor at the base of the black portion leaving the original "legs" intact (alternatively you can just heat the legs and remove the solder for a "proper" repair)

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Step 6 — Transistor Replacement: Part 2
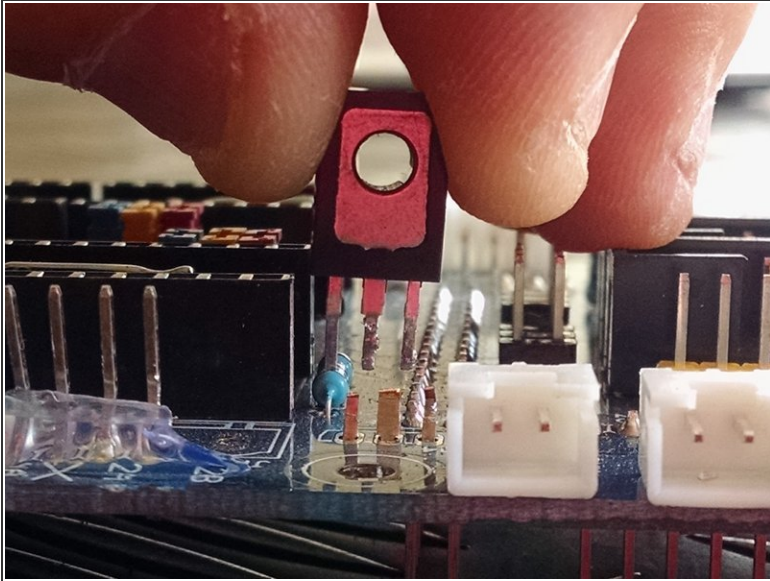
- **Match** the direction of the *Original Transistor* and set the New Transistor legs over the original legs that are sticking up from the board

- **Solder** the old legs to the new legs
  - (i) Solder one leg at a time, remove the iron and allow the transister to cool between solder the legs

  - ⚠ Be careful not to allow the transistor to heat up from the soldering iron

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Step 7 — Fin

- Now you can replace the Electronics Cover, reconnect any wire you may have disconnected and power up BoXZY

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