

MAKERGEAR
MICRO

WIRING GUIDE

BUILT FROM KIT EDITION

#MAKEYOUROWNMICRO

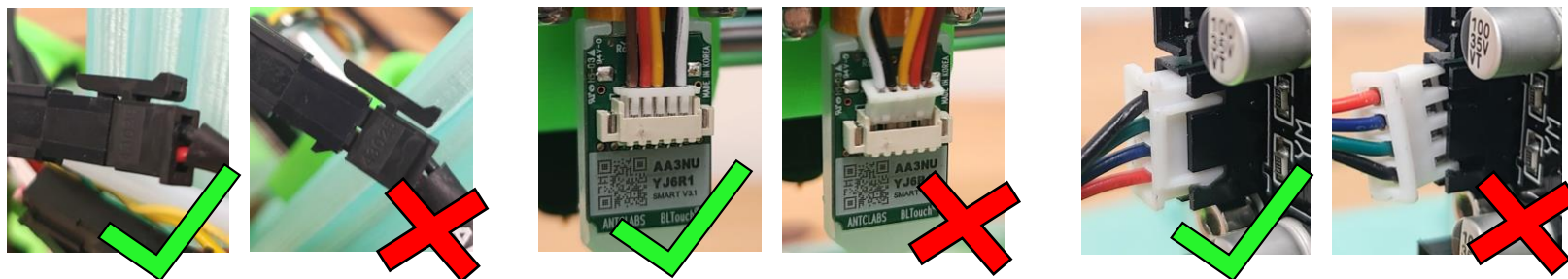


WIRING TIPS & WARNINGS

-Included with the MakerGear MICRO kit, will be 3 separate wiring harnesses labeled “A”, “B”, & “C”
The harness used on each step will be designated on the bottom left-hand corner of the page.

-This guide primarily focuses on the connections into the SKR Mini Control Board. After plugging in each harness, make sure to plug the opposite ends into their respective connectors/components that are called out via the shrink wrap. Every connector is labeled directly on the wire, which port/connector/component it plugs into & the connections were designed to only fit in a single orientation. Be weary not to force any connectors to fit together that might not belong together.

-Due to minor variations in makes/models of the electronics, the proper orientation of some of the board’s ports may vary from the way they are pictured in this guide. Make sure to plug them in correctly as designated by their keying. **DO NOT FORCE THEM INTO PLACE THE INCORRECT DIRECTION.**



-Never remove connections by pulling solely on the wires. Grasp/pinch them via their plastic connectors

-Within some kits the coloring of the wires may vary slightly from that shown in this guide.

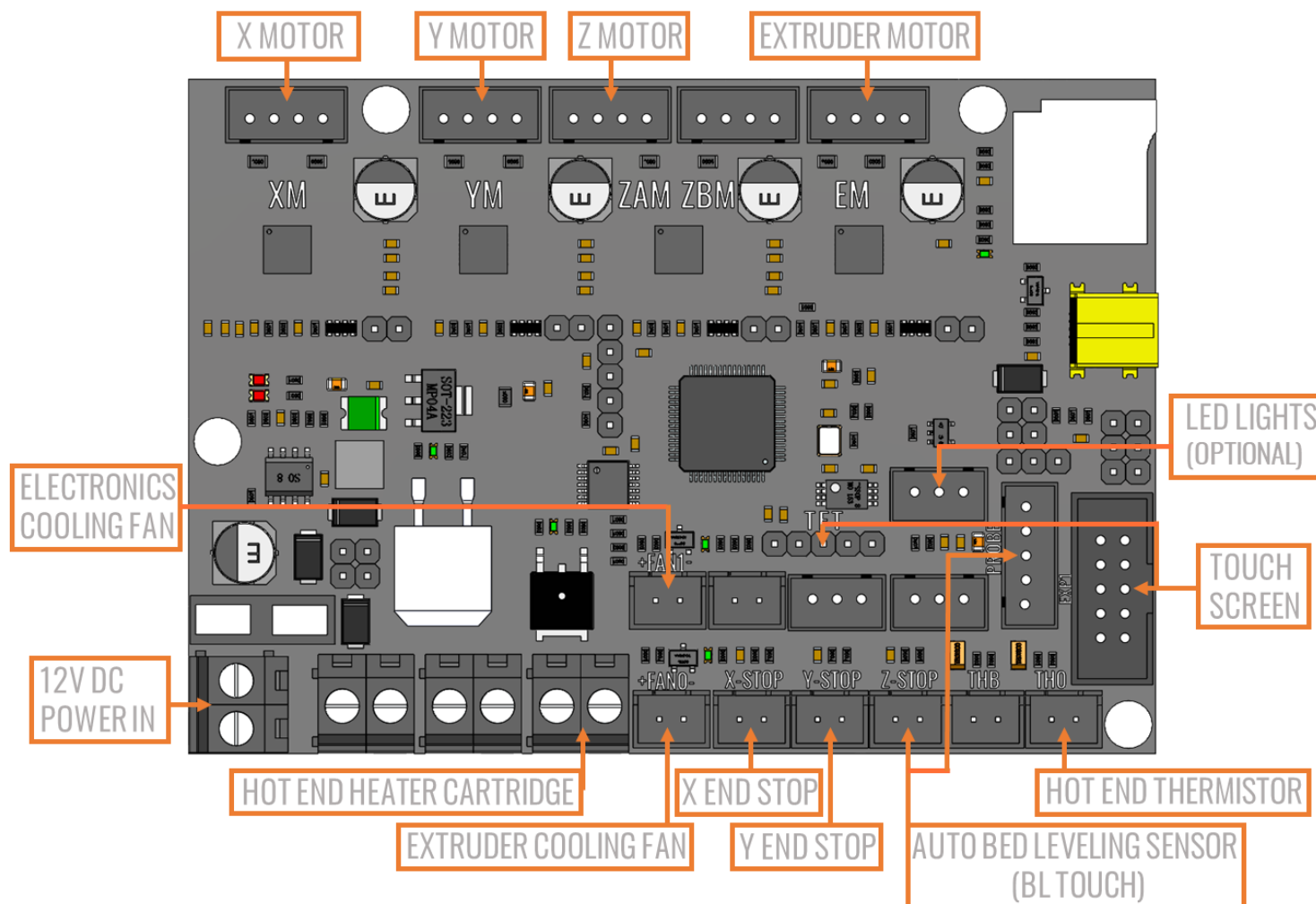
-Be cautious when handling the motherboard, not to accidentally connect/short any of the pins.

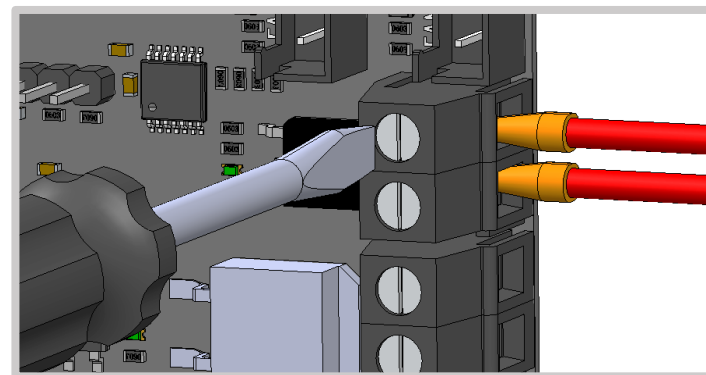
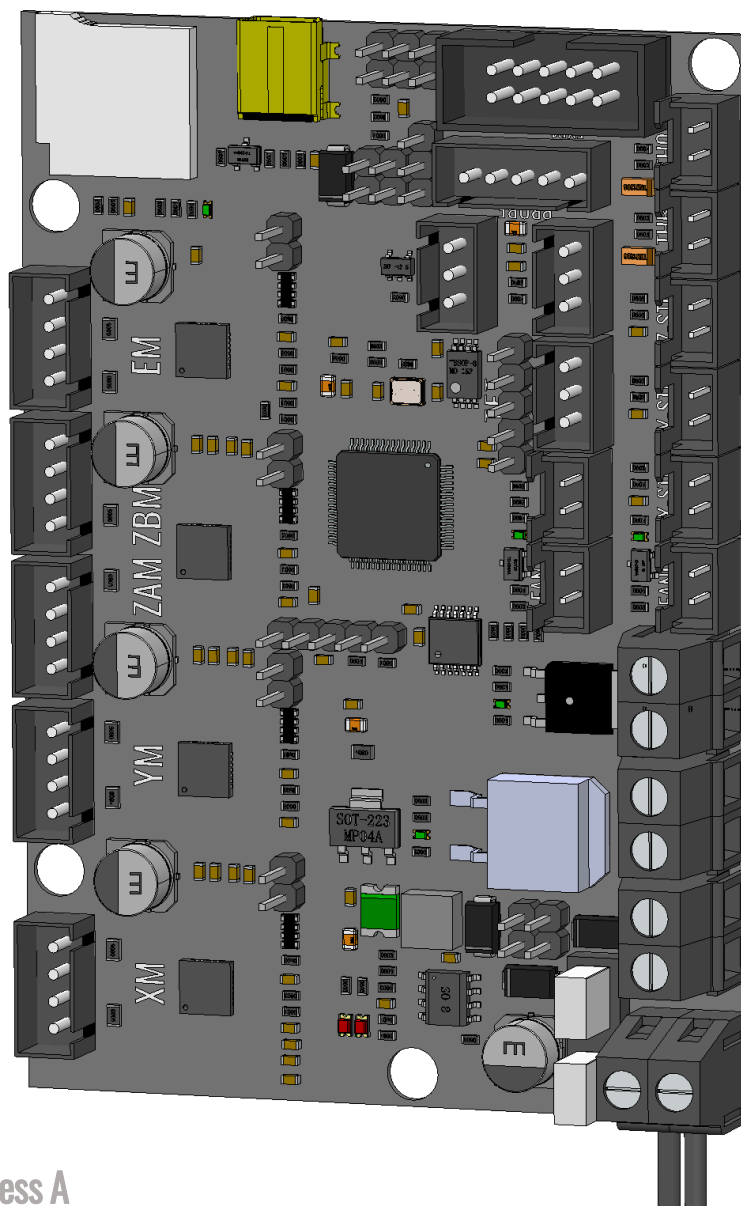
-Do NOT plug in or power up your machine until ALL connections are made. Once plugged in & powered up, do NOT connect or disconnect any pins or connectors & do not touch or adjust any of the screw terminals. Always disconnect power when making adjustments to the harnesses or their connectors.



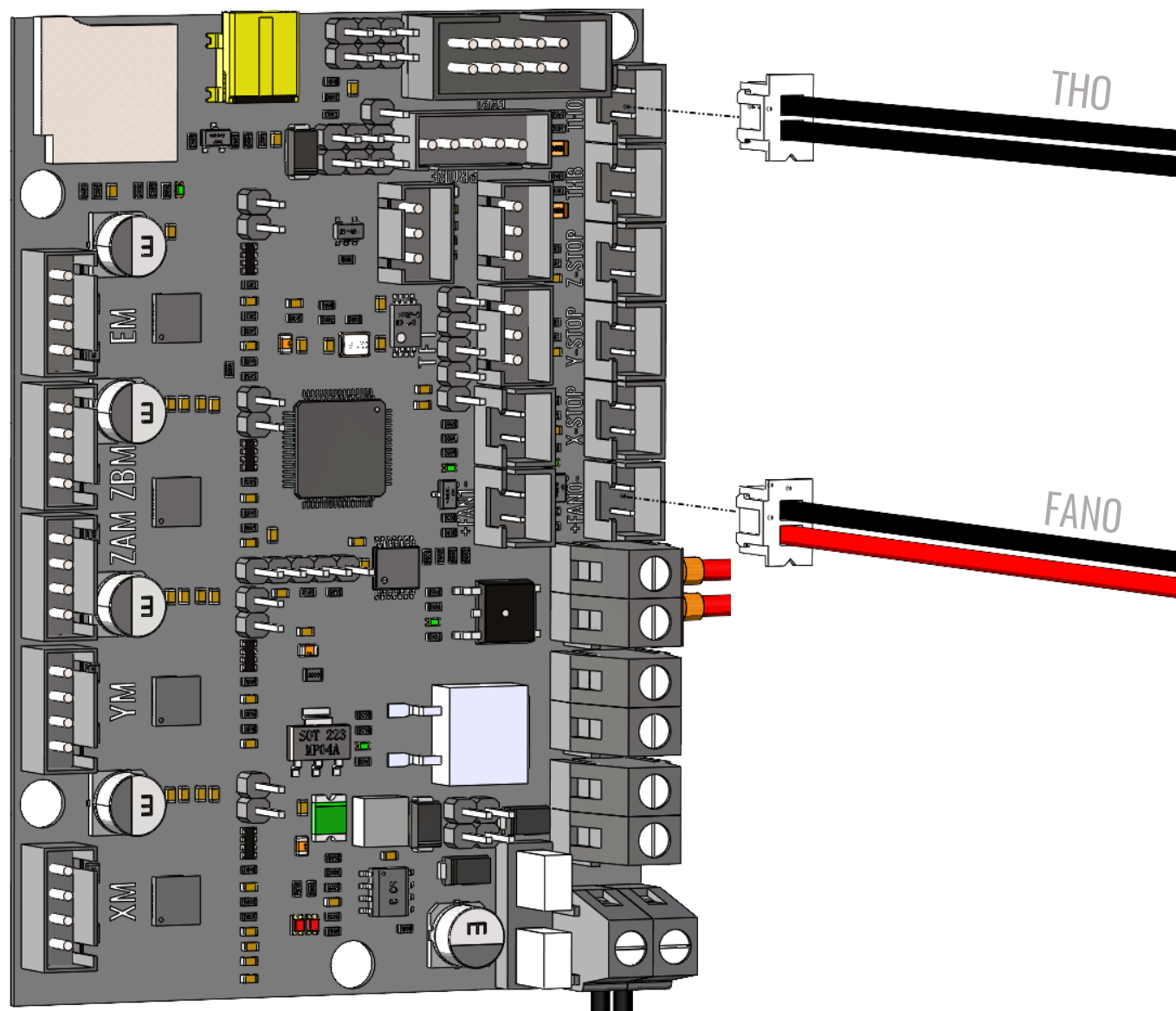
MOTHERBOARD OVERVIEW

WHICH PORTS YOU WILL USE & WHAT THEY ARE FOR

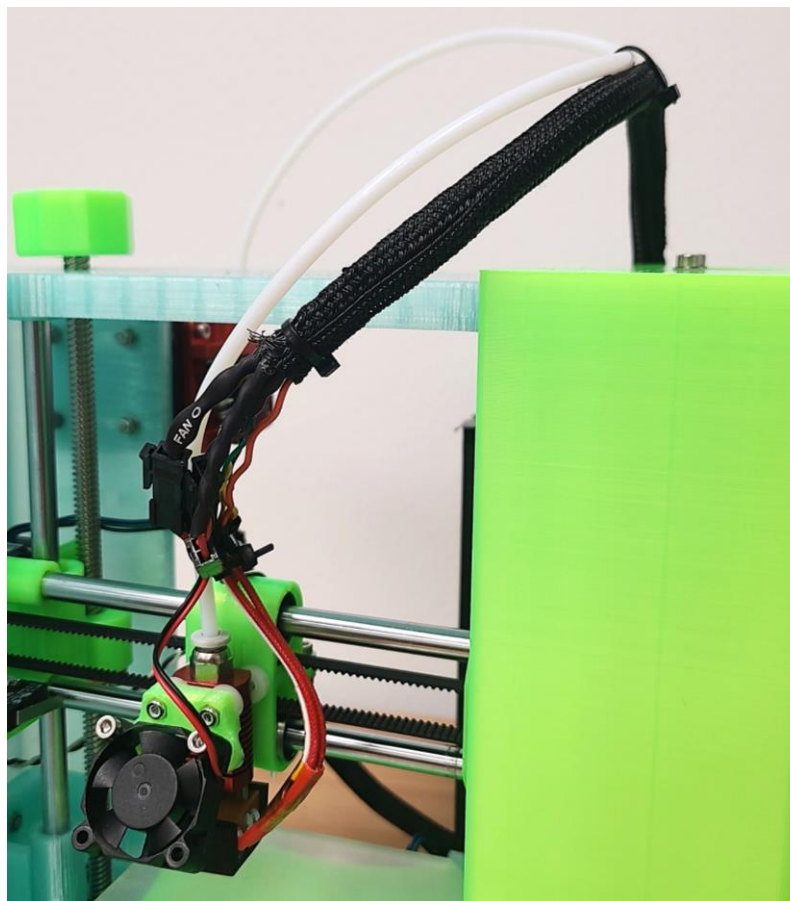




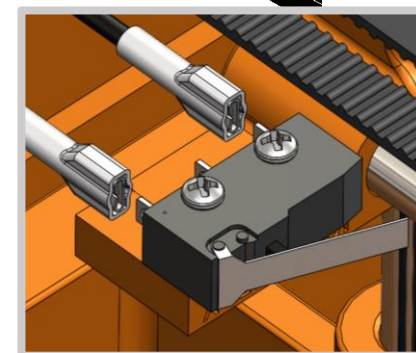
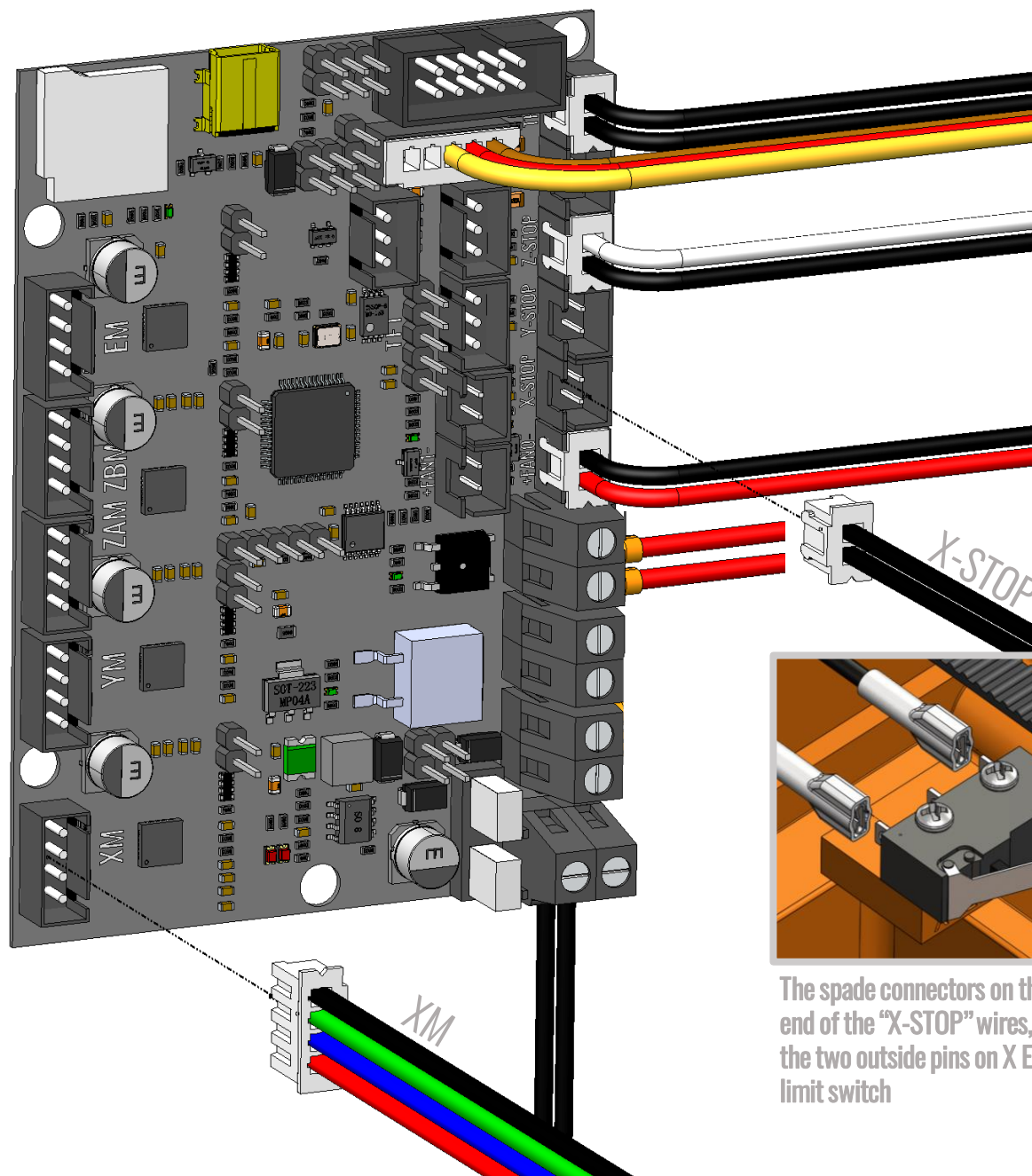
Tighten the red wires labeled “HOTEND” into the screw terminal with a small screwdriver. Ensure that they are pinched tight and unable to slip loose.



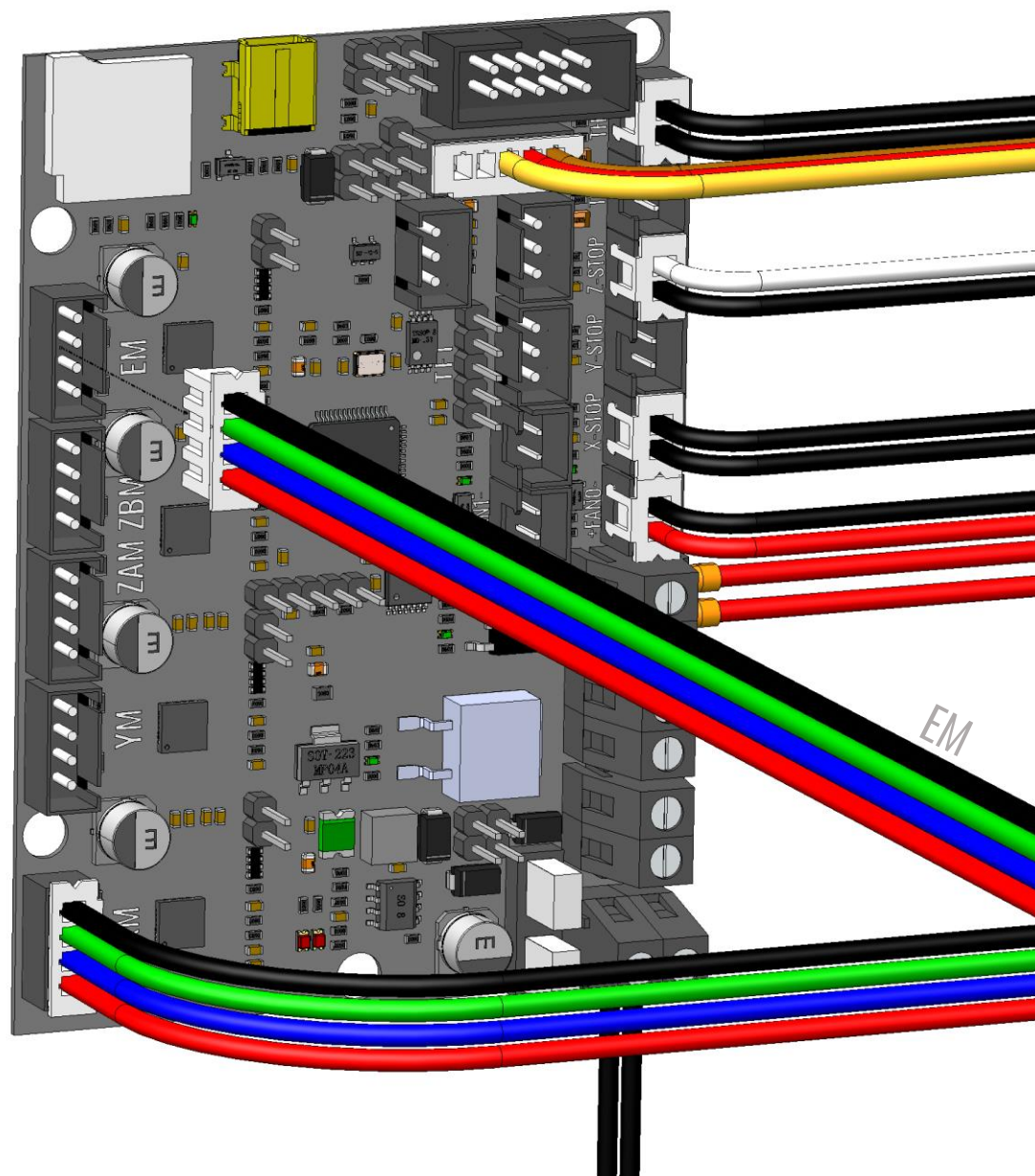


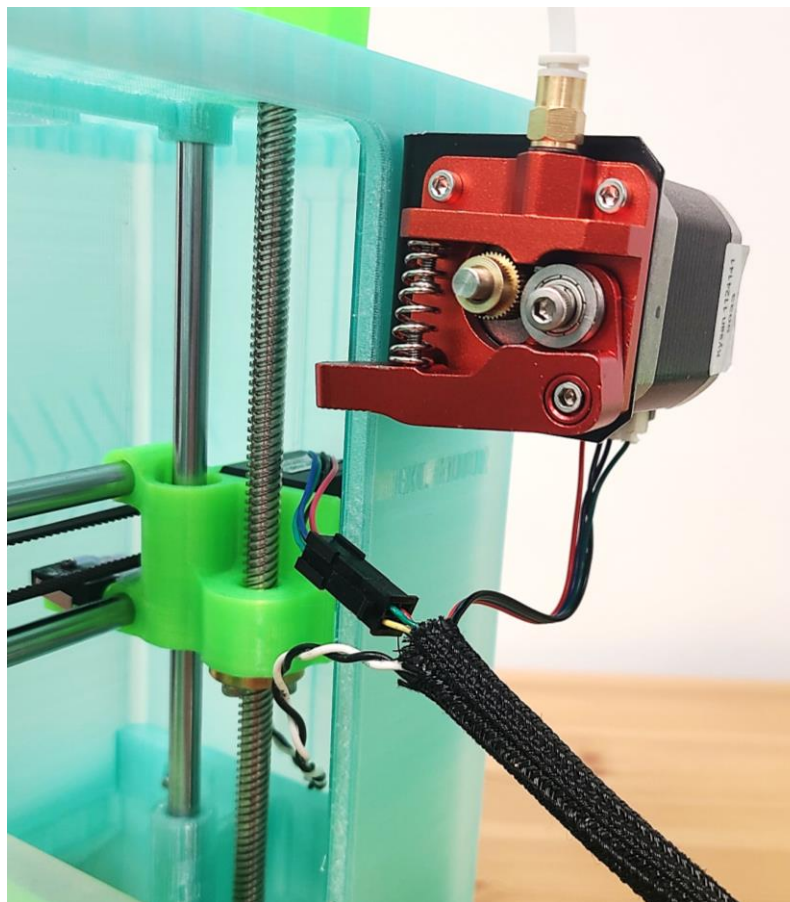


The opposite end of Harness A must run OVER THE TOP of the MICRO. Once all connected, use several small zip ties to help manage the wires & bind the harness to the PTFE tubing. This will limit the harness from scraping the top of the machine & keep it out of the tool head's way.

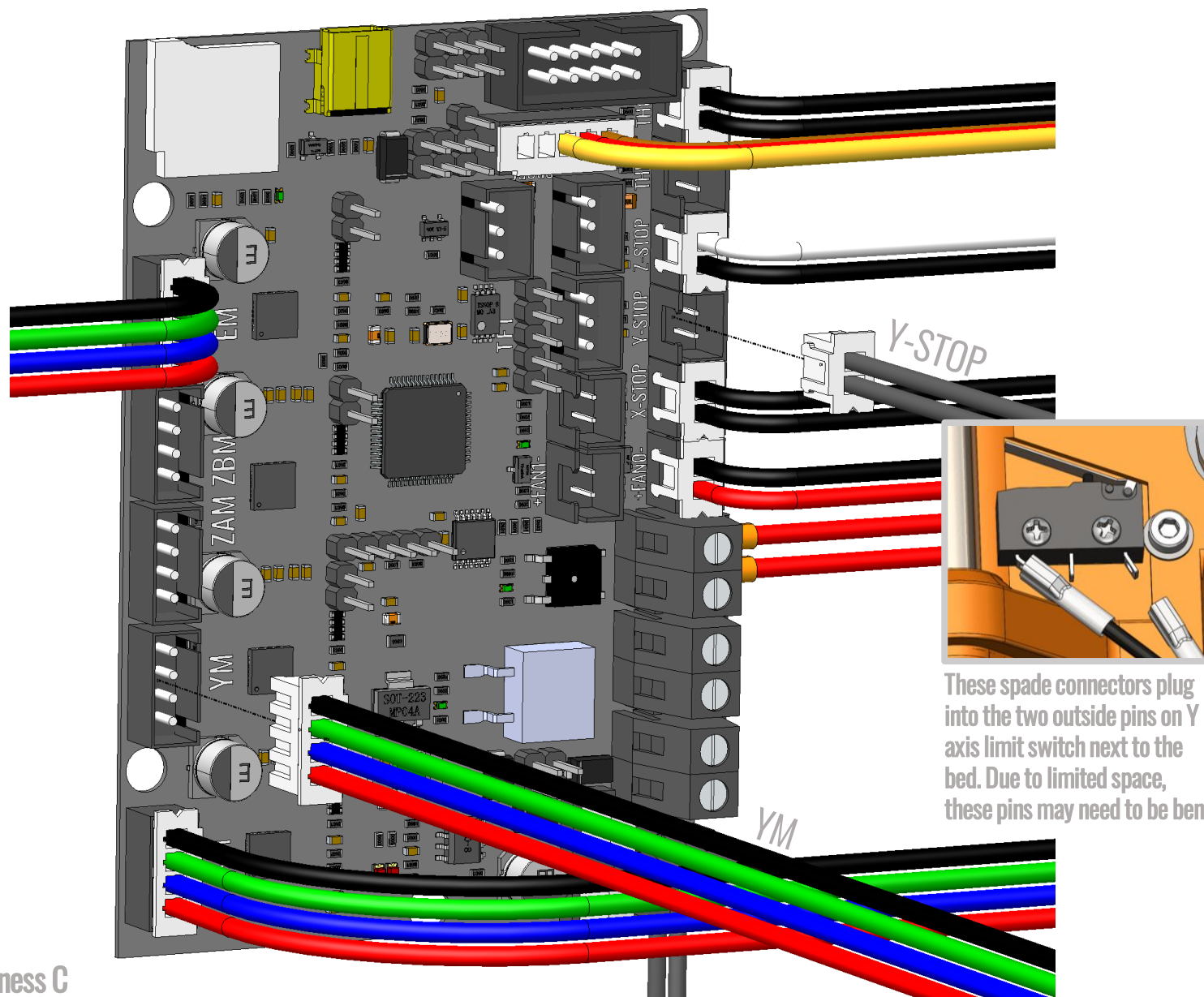


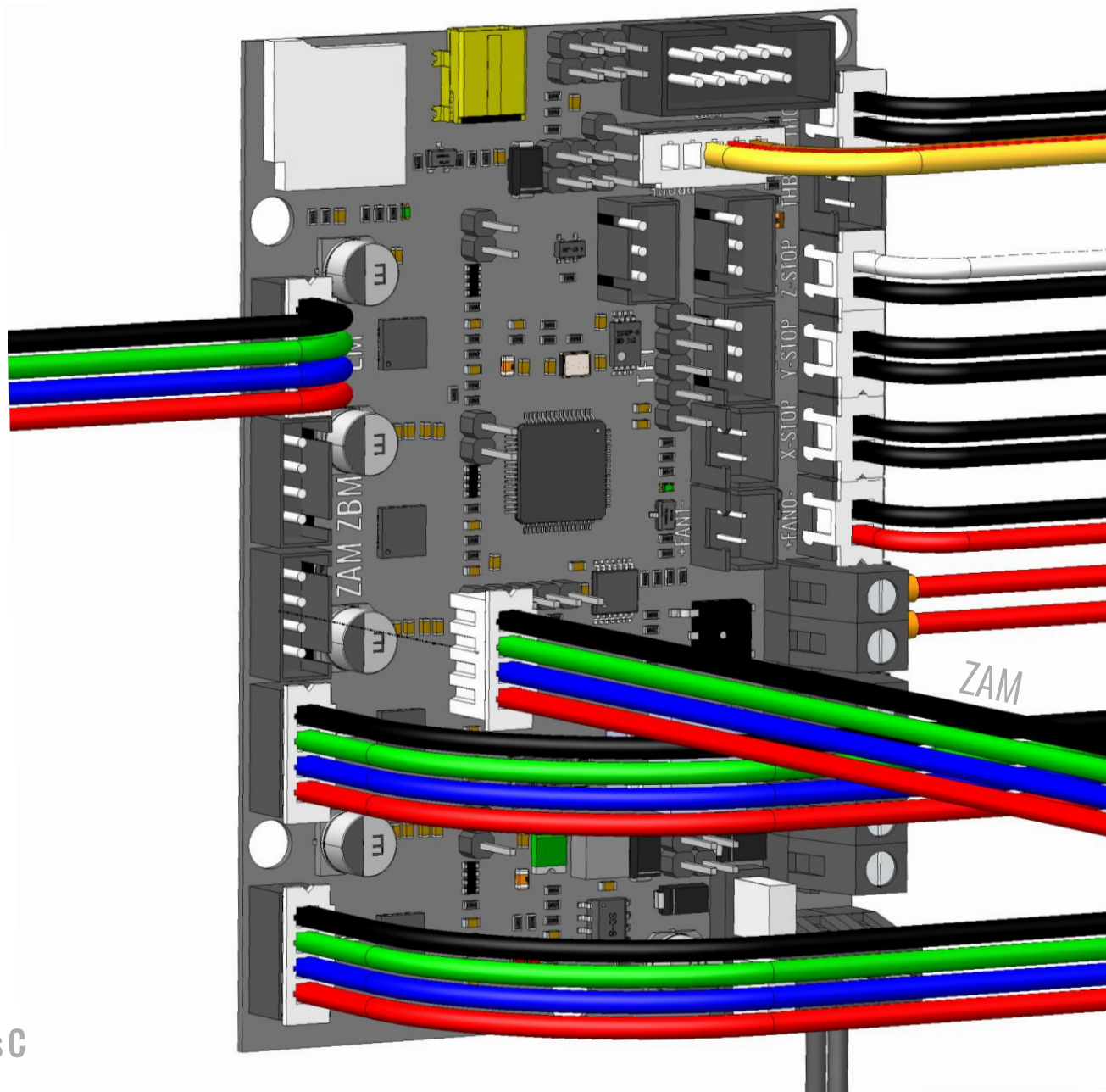
The spade connectors on the opposite end of the "X-STOP" wires, plug into the two outside pins on X End Stop limit switch

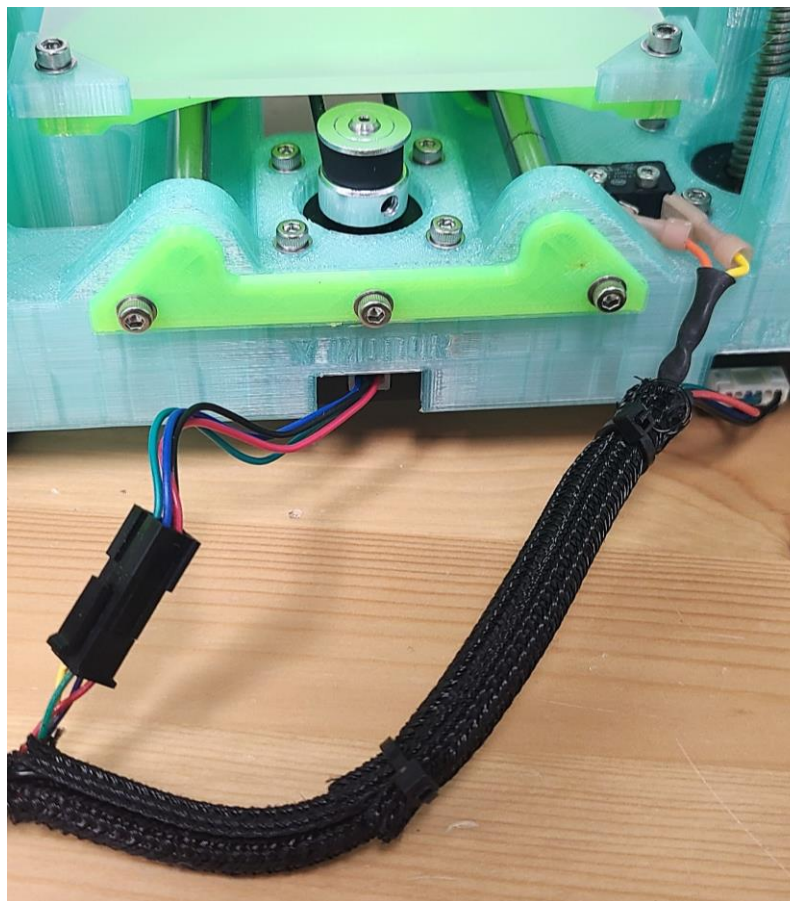




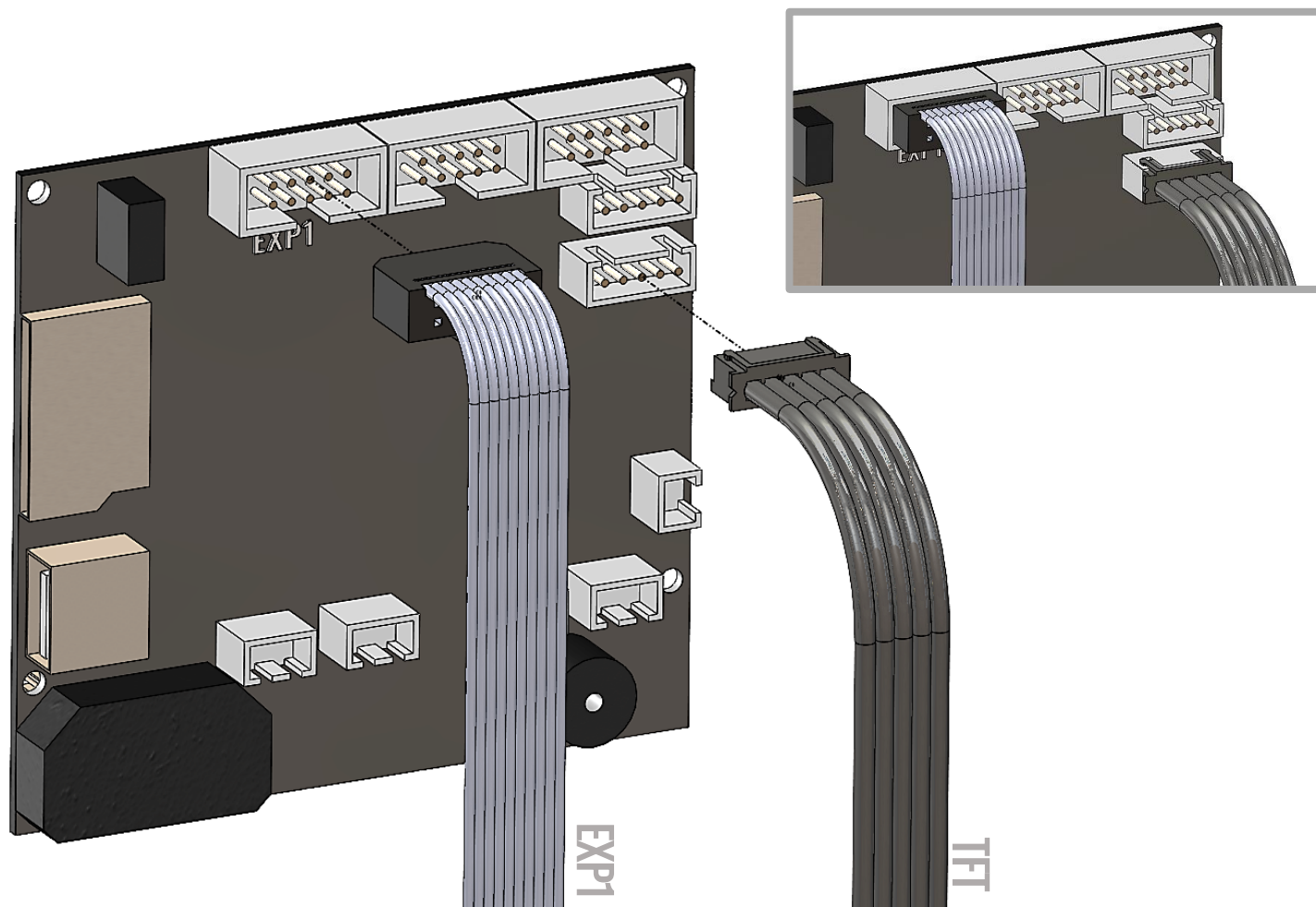
The opposite end of Harness B will run behind the machine to connect to the X axis & Extruder Motor. Make sure to run the X Stop wires BEHIND the Z Motor & Z Linear Motion Rod. The updated Top design includes a cut away slot for both the X Motor & X Stop wires to run through to help distance these from the moving parts of the machine.



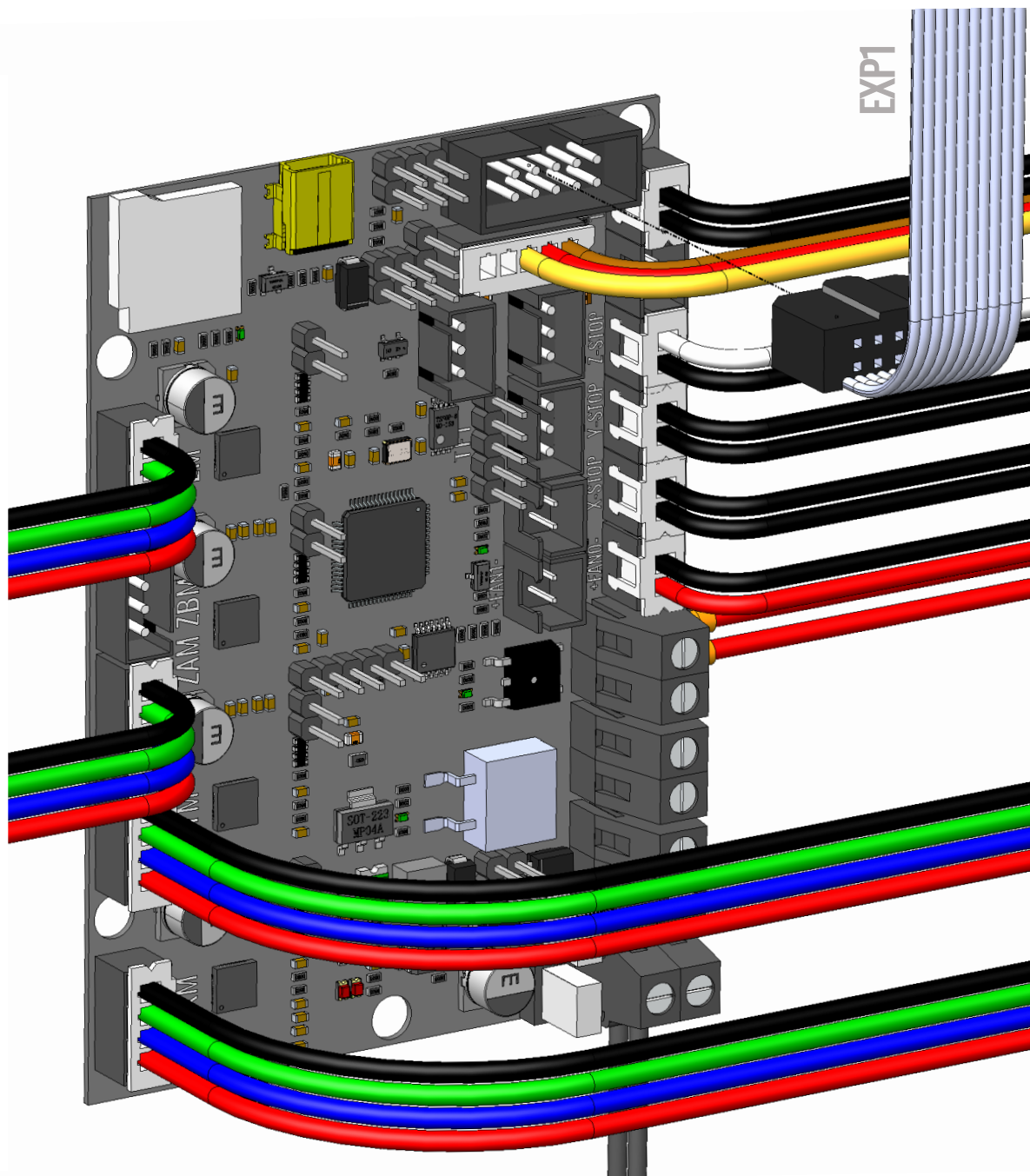




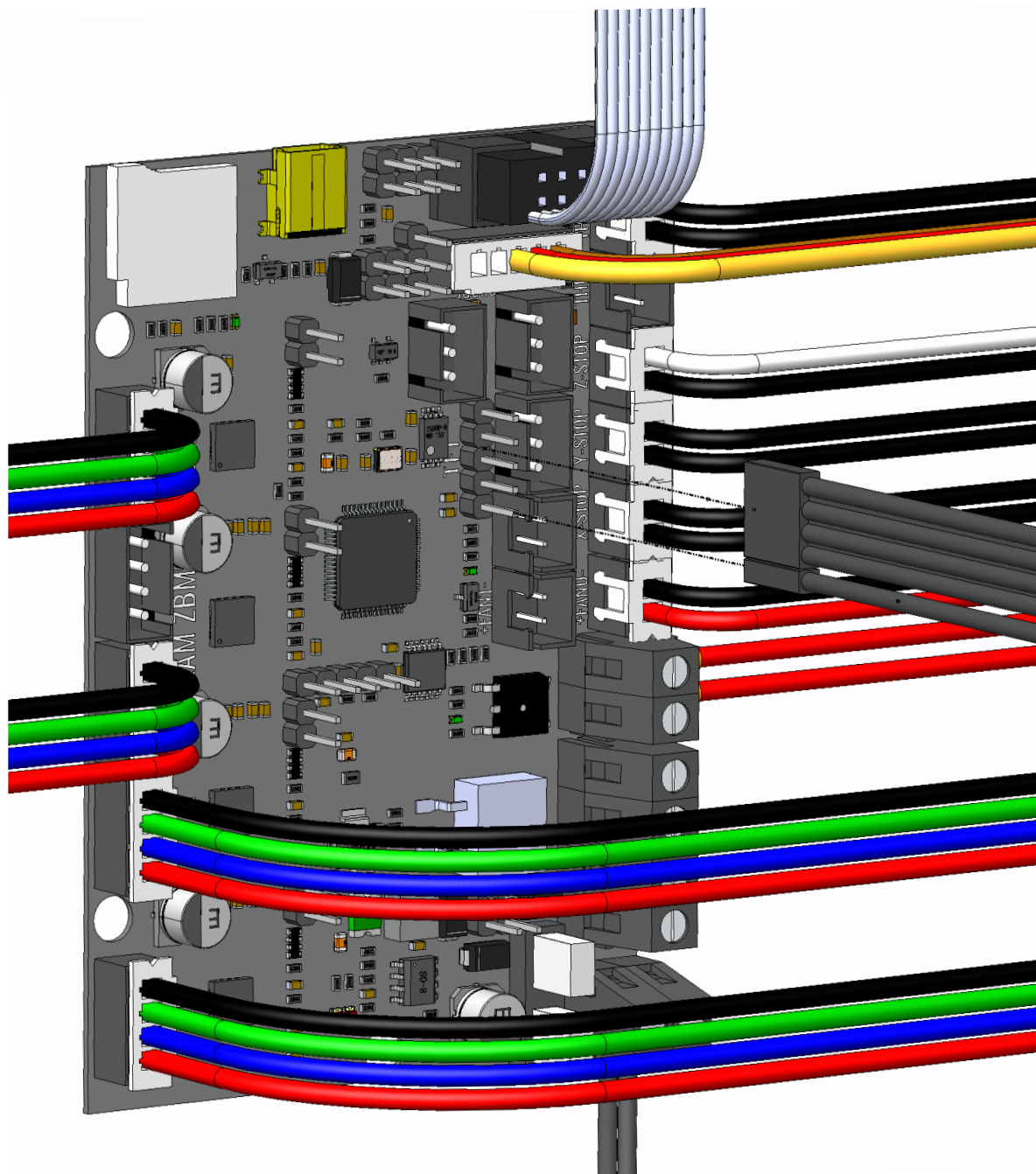
The opposite end of Harness C simply runs behind the machine with all 3 parts connecting to the base. Make sure no portions of this harness are in the way of the bed's linear path in the Y direction.



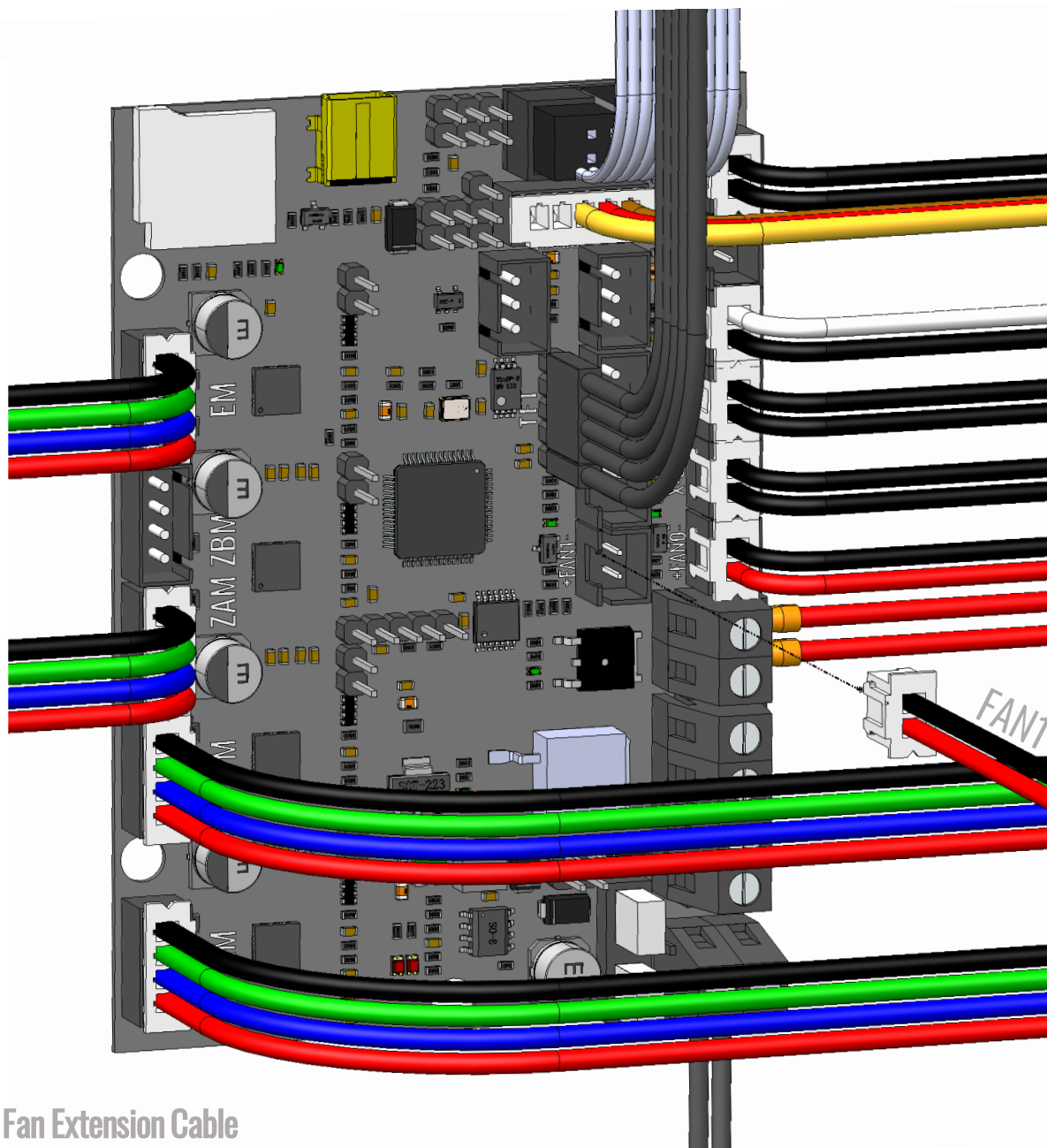
TFT 28 Touch Screen
Touch Screen Cables



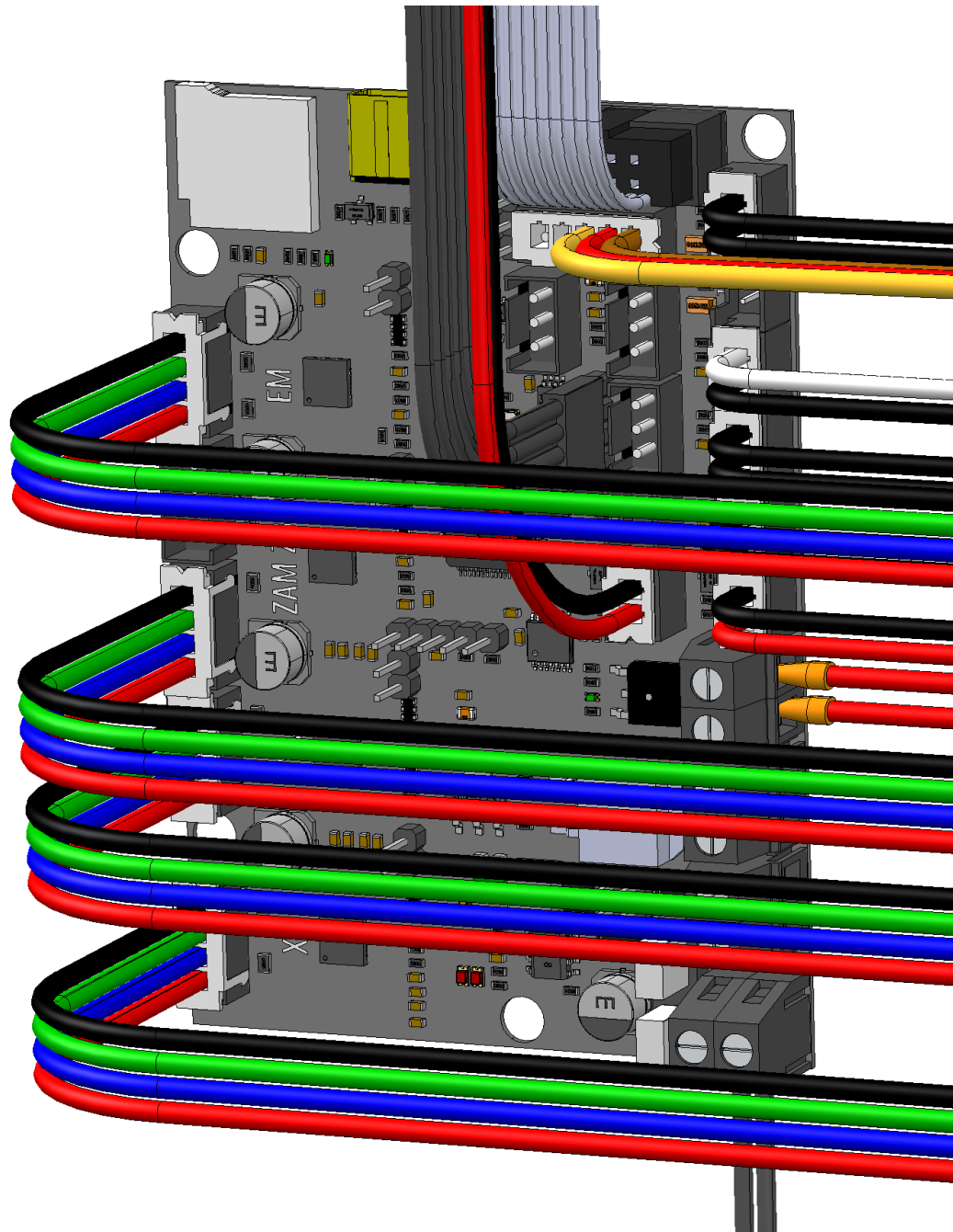
Touch Screen Cables



Touch Screen Cables



Electronics Case Cooling Fan Extension Cable



Well Done.