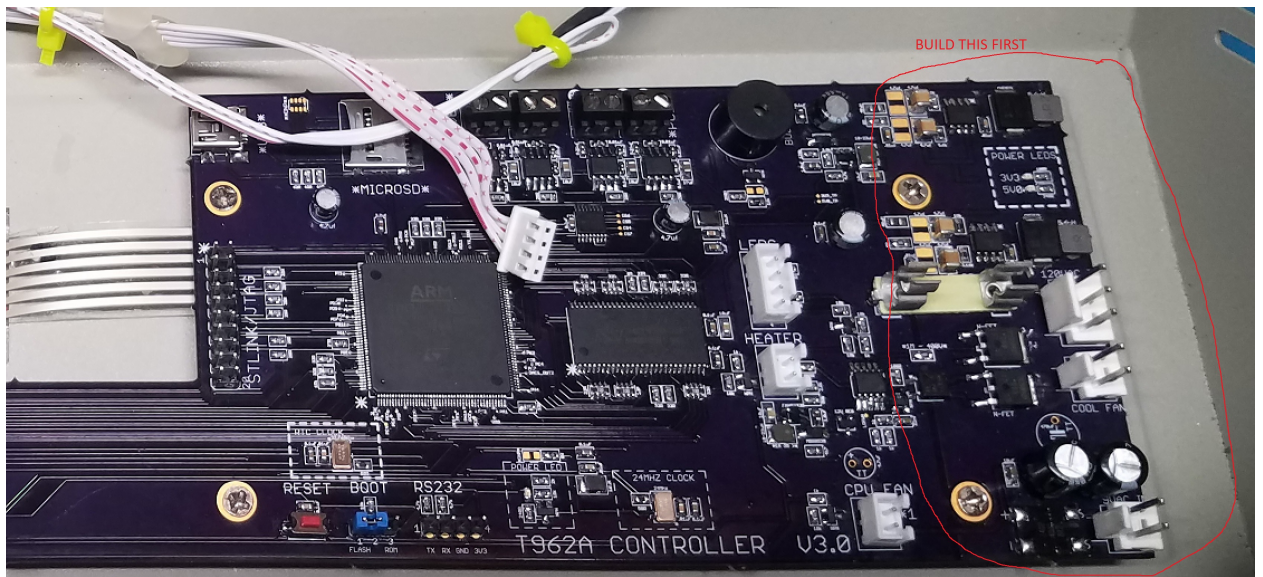


**** Assembling the T962A V3.0C Controller (STM32 with 5.0" TFT) ****

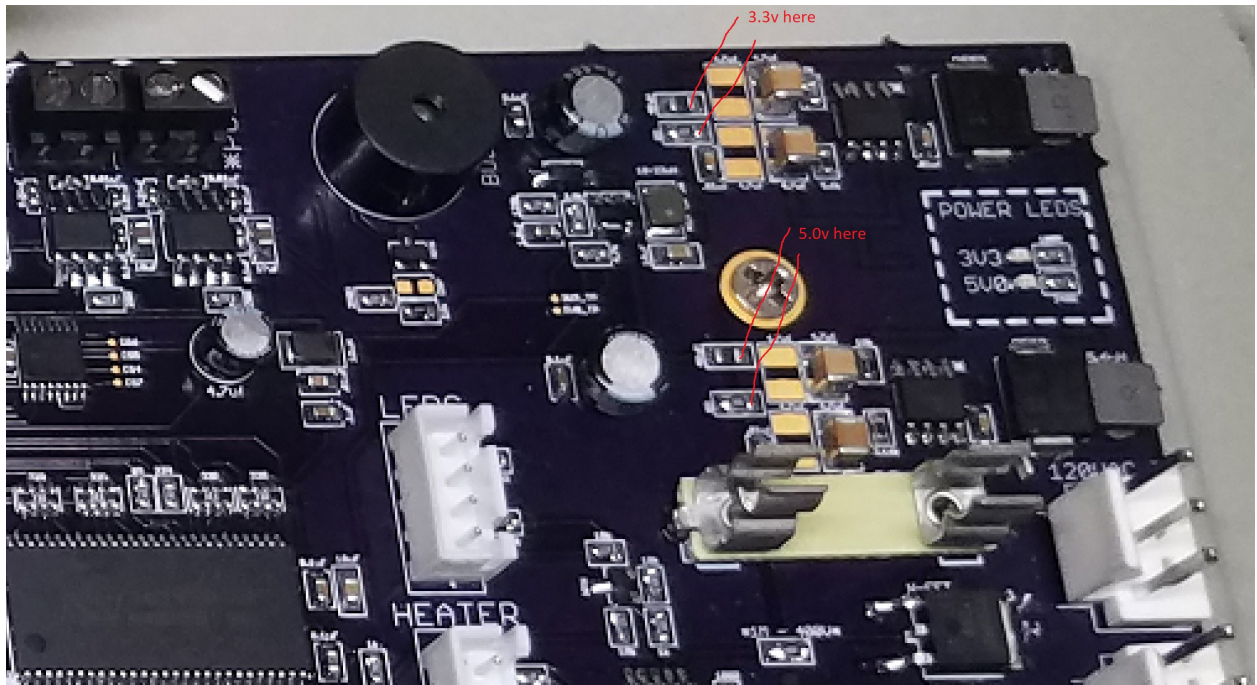
- 1) **FIRST**, It is highly recommended to solder on the most difficult component, the STM32H7 processor, since it is a LQFP-176 pin chip.
(whether using a reflow oven or hand soldering, I've found it much easier to do the processor first, by itself, when the board is nice and empty)
- 2) **SECOND** build the POWER SUPPLY section of the board, the right-most section of the board, as shown in the picture.

Since the power supply on this board (5V & 3.3V) uses switching ICs, you really want to make sure you got all the components correct or you can easily have high/incorrect voltages and blow up everything else. I destroyed an STM32 processor by doing this exact thing, put an incorrect resistor in and the supply put out 12V instead of 3.3v.

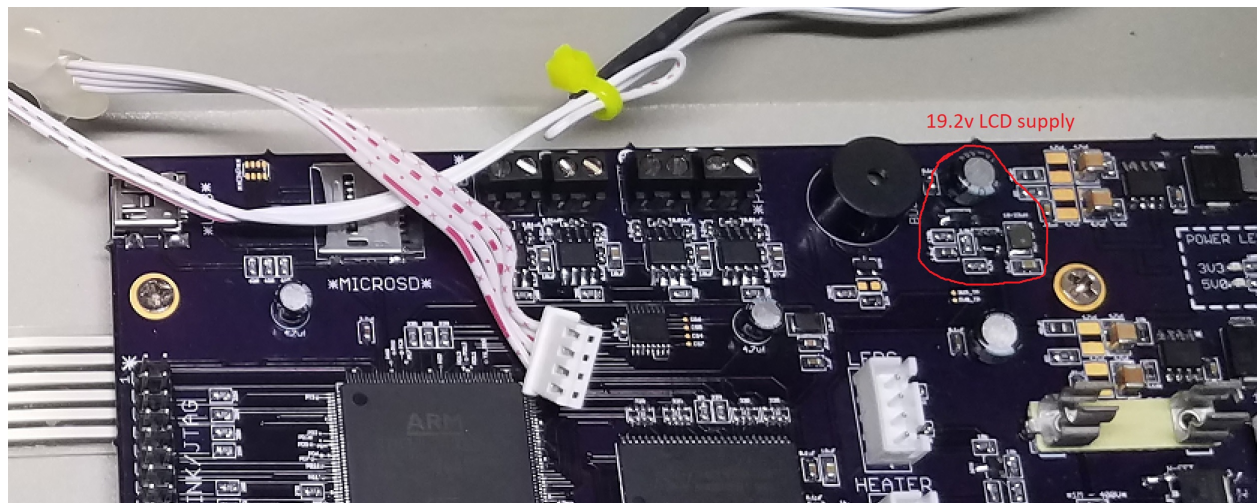


- 3) **THIRD** check the supply voltages once the power supply section is complete.

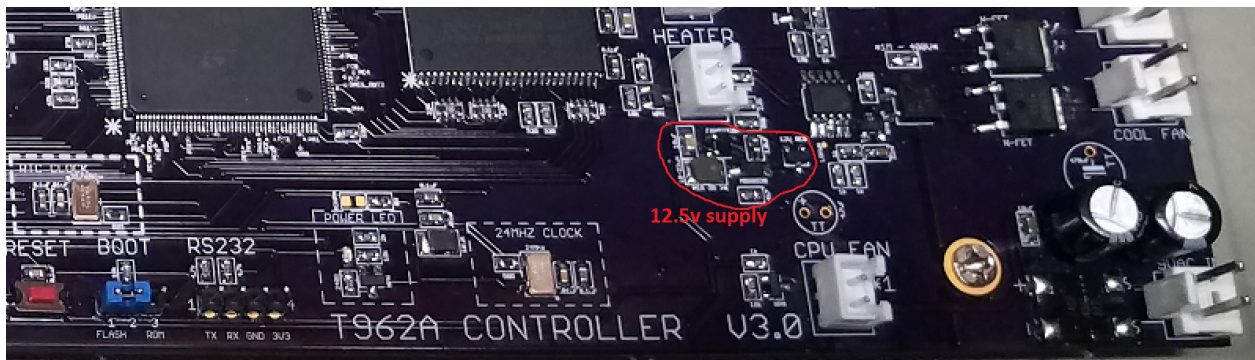
*** DO NOT MOVE ON UNTIL YOU SEE APPROX. 3.3v AND 5.0v ***



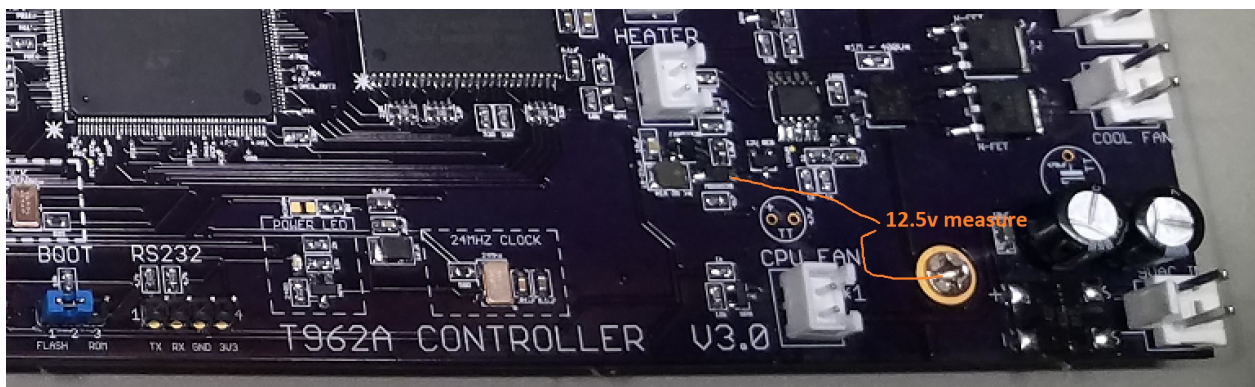
4) FOURTH build the two FAN5333B boost supply circuits as shown below. These provide the approx. 19.2v for the LCD backlight and the approx. 12.5v for the FL5160 IC.



***** Measure the 19.2V (approx) supply as shown below: *****



***** Measure the 12.5V (approx) supply as shown below: *****



5) At this point the rest of the board can be assembled, as all voltages required have been verified.

**** notice I did leave out some of the power supply capacitors, there is quite a bit of extra capacitance on this board, that you can omit to save cost if required. ****

6) *** EXTRA NOTES ****

When mounting this board into your oven, ****DO NOT**** use the **red felt insulators** as the OEM board did.

This board **MUST** be grounded to the chassis, as it was designed to be properly grounded with the rest of the oven chassis.

*****See the above pictures, all of the mounting screws are directly mounted to the PLATED MOUNTING HOLES*****

The 2 left mounting holes (where the old LCD screen was) sit a bit higher than the other 4 holes...

you can use the old RED FELT insulators as spacers on the **UNDERSIDE** of the board when mounting it (or you can use metal washers as well) to make the board sit evenly across all 6 mounting holes without any flexing.