

## Food Cooker for Surplus Parts



Units as boxed. Most units are in shipping crate - 2 boxed units per crate.

The unit was designed to bring water to a boil, dispense a powered ingredient, and mix it automatically based on user programmed time and set points. The ingredient is a powder made from African FUFU plant root. It is much like a powdered potato, but much more dense when cooked.

The manufacturing company did not do enough testing, consequently after some use, a thermal fuse shuts the unit down permanently.

However, the unit contains several valuable parts that can be salvaged.

**Parts List:**

Power PCB - see layout and schematics below.

Display keyboard.

Reversible AC motor.

Reversible geared AC motor.

120 VAC power cord.

120 VAC, 800 Watt heater.

Hall Effect sensor.

Reed relay.

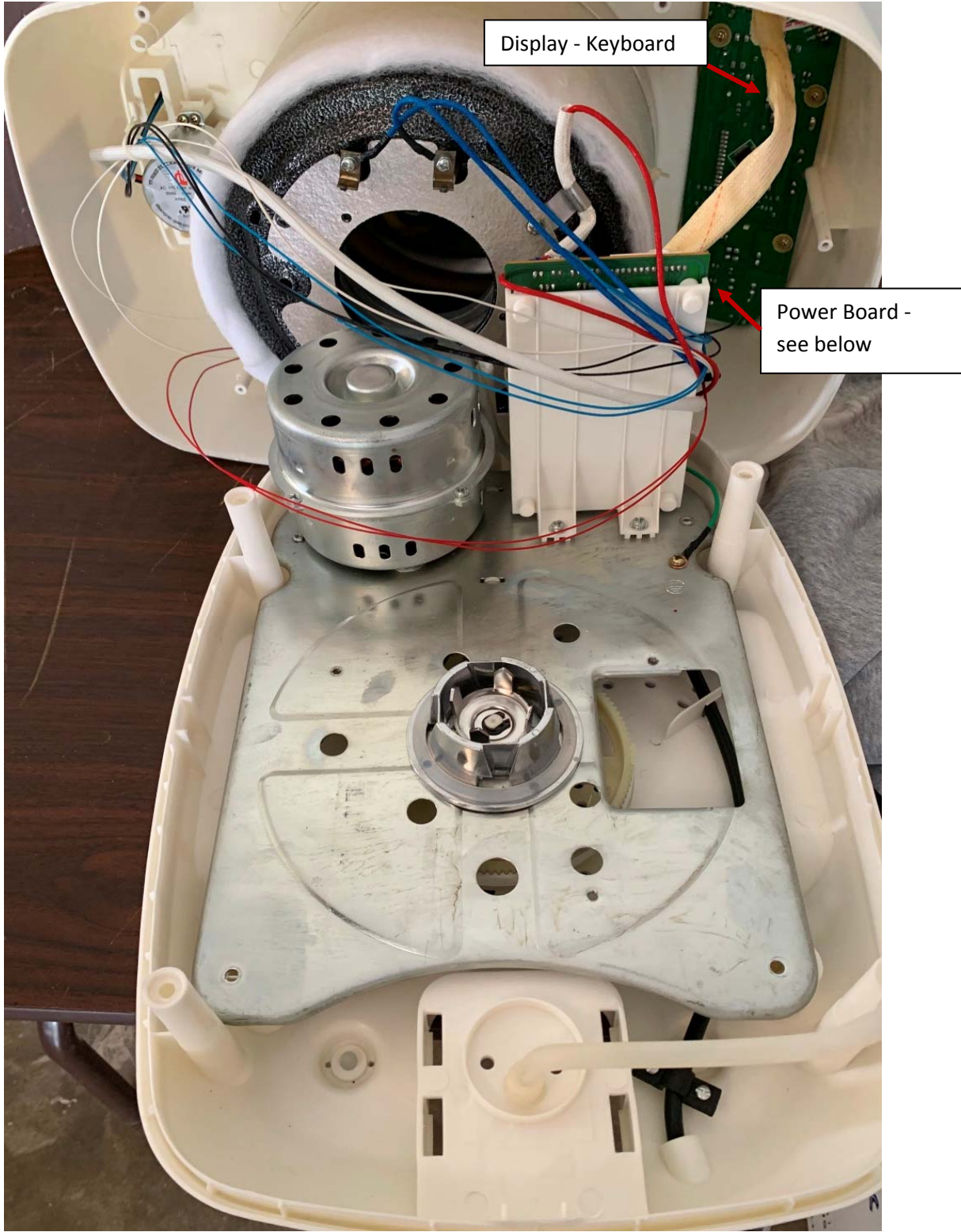
Thermistor in metal shield.

Thermal fuse.

Three microswitches.

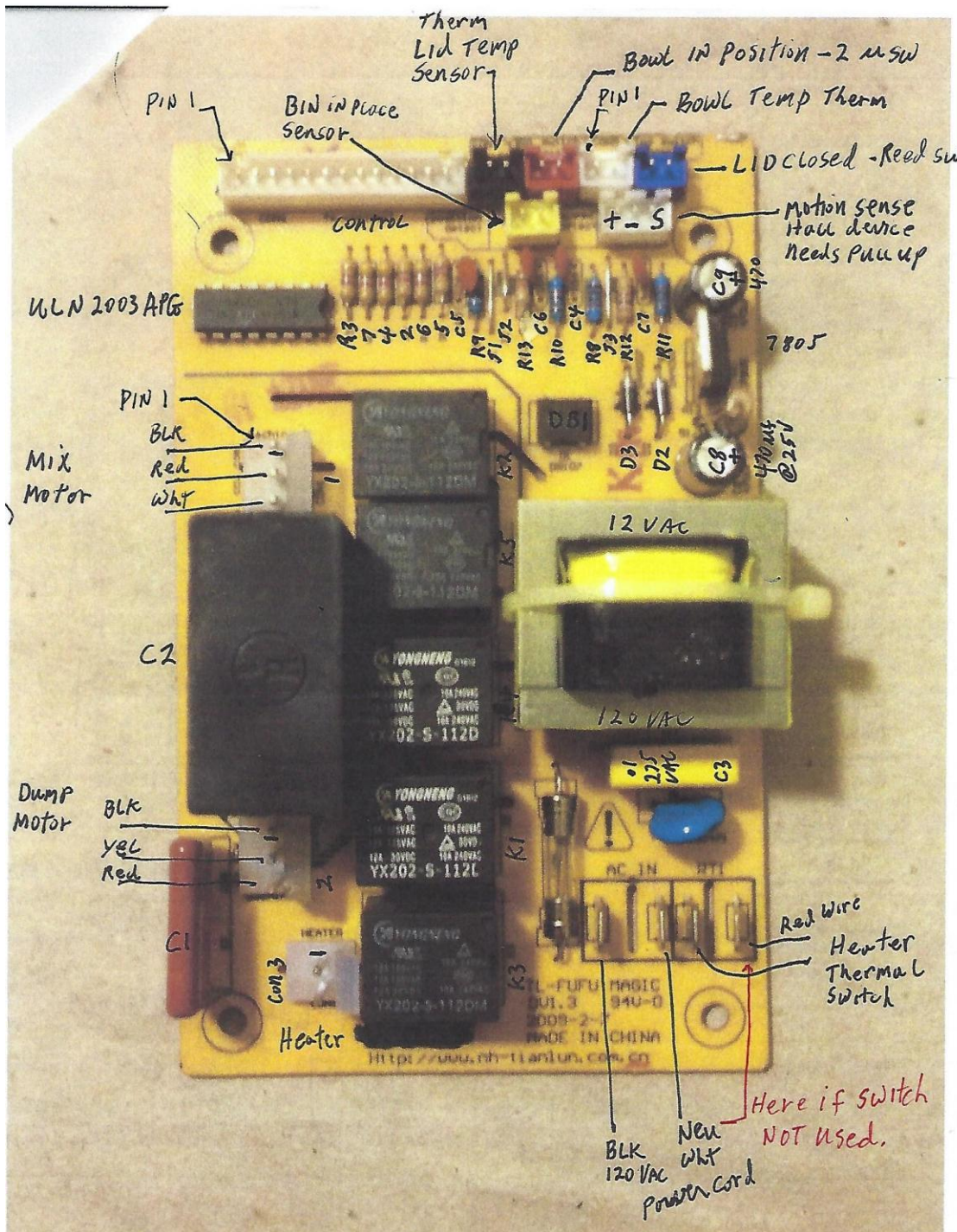


FUFUMAGIC for salvage. Approximately 600 units are available.

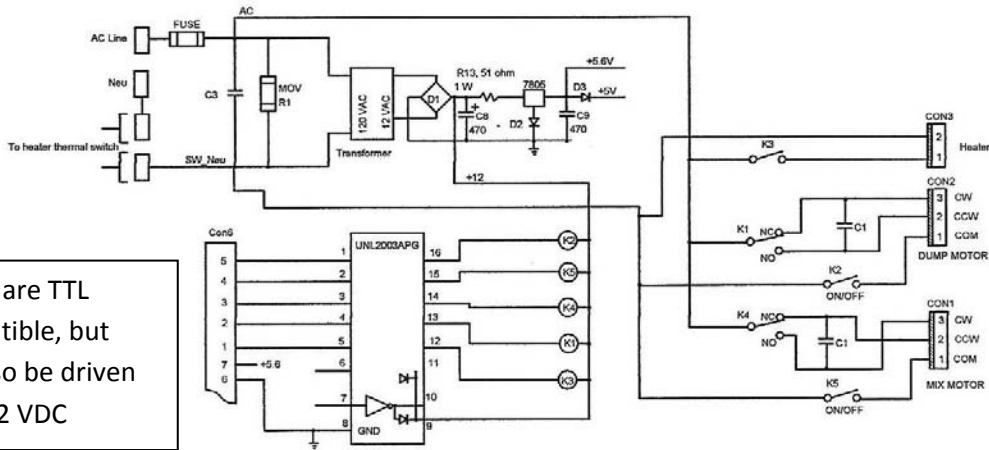


Inside view.



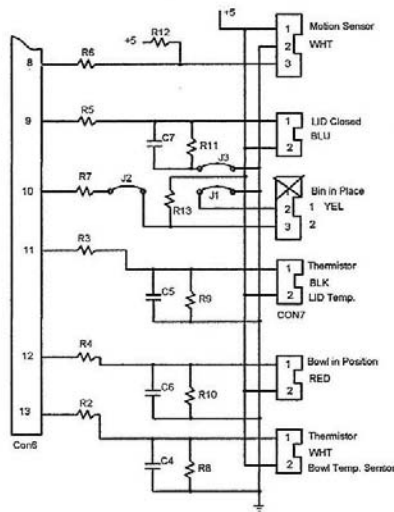


Power Circuit Board. See schematics for connector pin functions.



Inputs are TTL compatible, but can also be driven with 12 VDC

These outputs are TTL compatible i.e. 0 to 5 VDC.

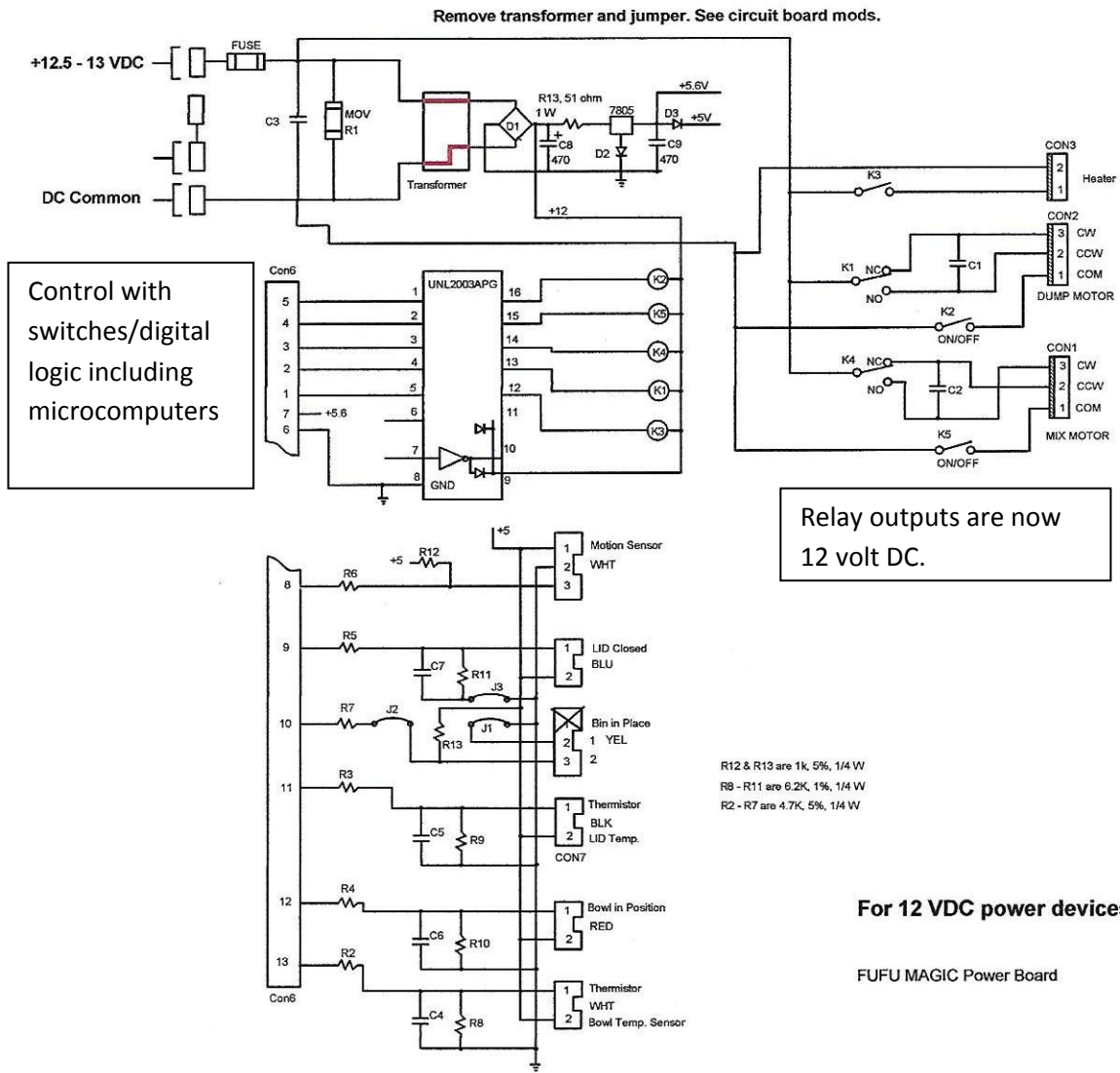


R12 & R13 are 1k, 5%, 1/4 W  
 R8 - R11 are 6.2K, 1%, 1/4 W  
 R2 - R7 are 4.7K, 5%, 1/4 W

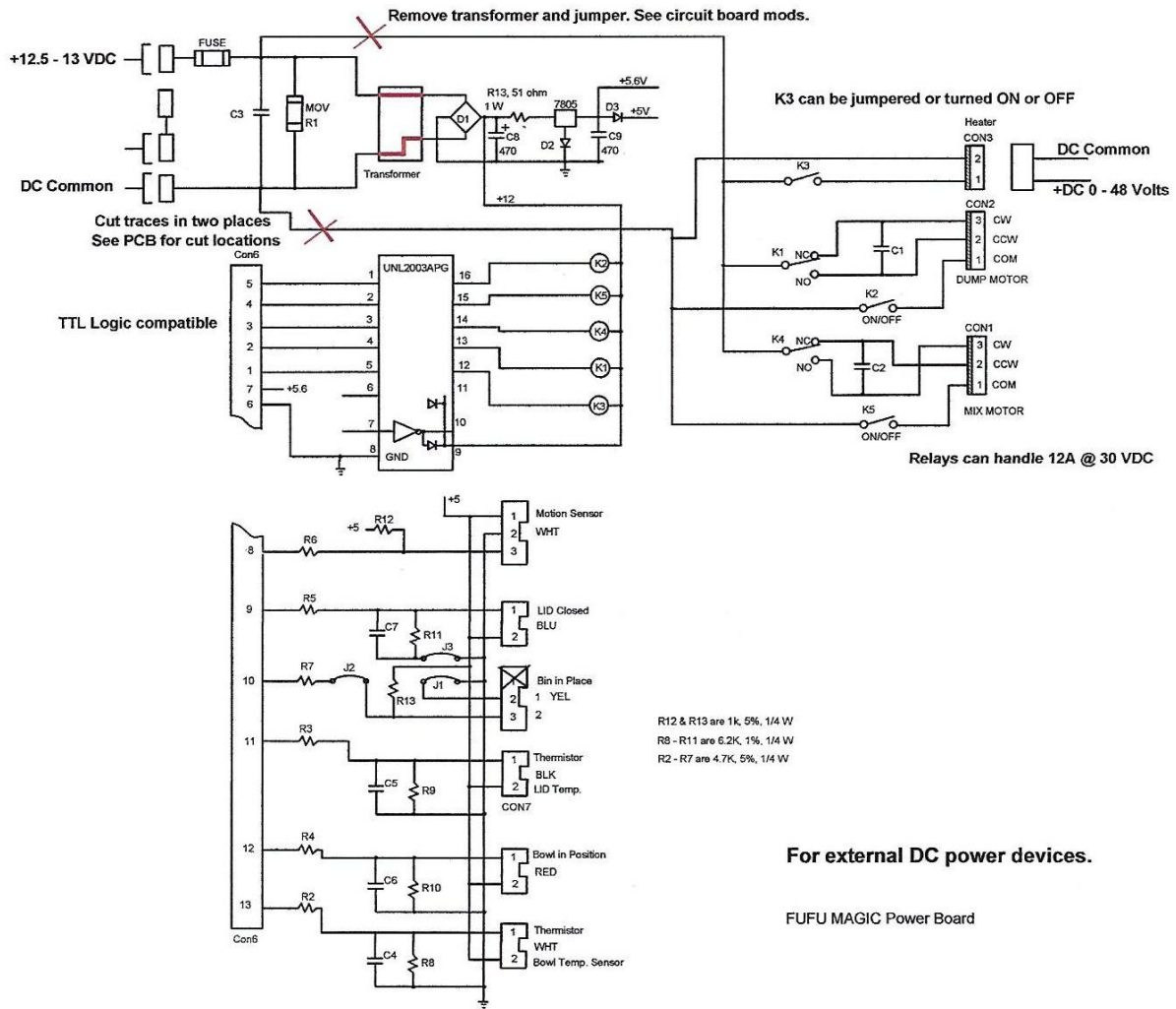
**CATION:** Only persons experienced using See using DC HIGH VOLTAGE AC should use this PCB with 120 VAC.

FUFU MAGIC Power Board

This schematic is for the power PCB without any modifications.



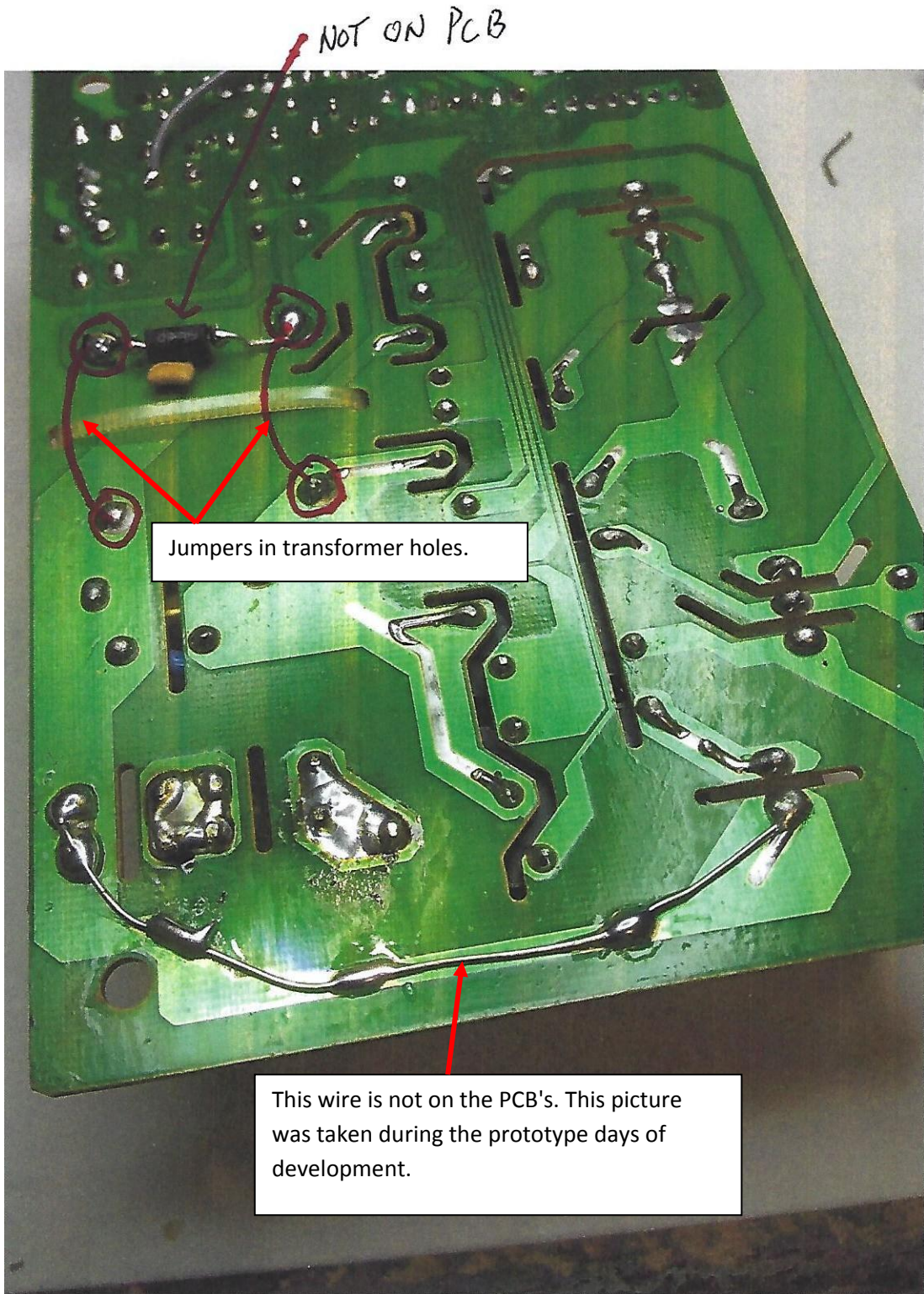
This schematic is for using a DC input instead of AC. See page 9 for removing the transformer and adding jumpers.



Modifications for powering external devices with DC voltage from 0 to 48 volts DC. The two cuts on the schematic are actually four cuts on the PCB. See page 10 below.

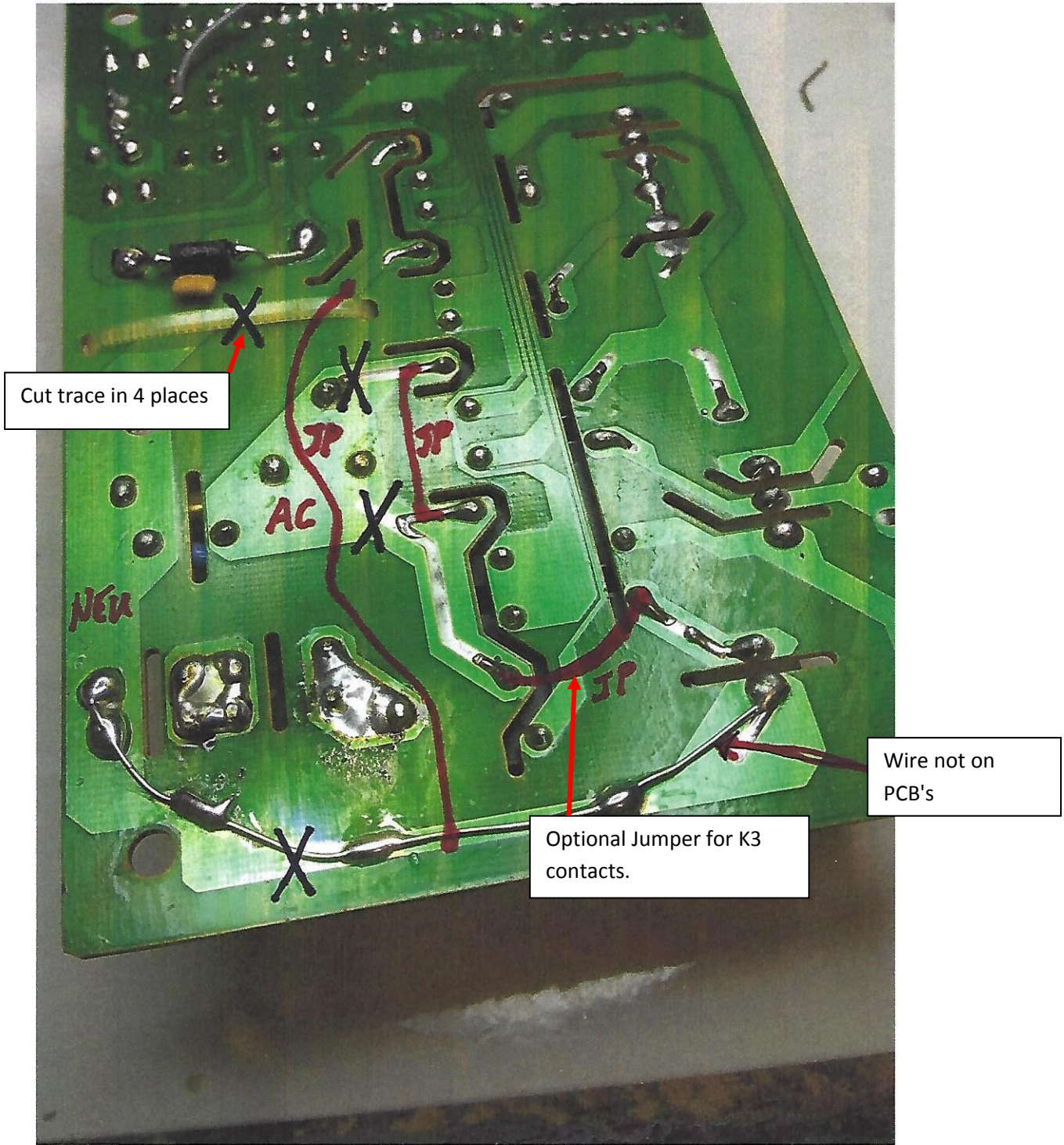
The heater connector CON3 is used to input the external DC voltage. Relay K3 can be used to turn the external power ON/OFF, or K3 contacts can be jumpered. See page 10 below.





Removing transformer and adding jumpers for DC operation.





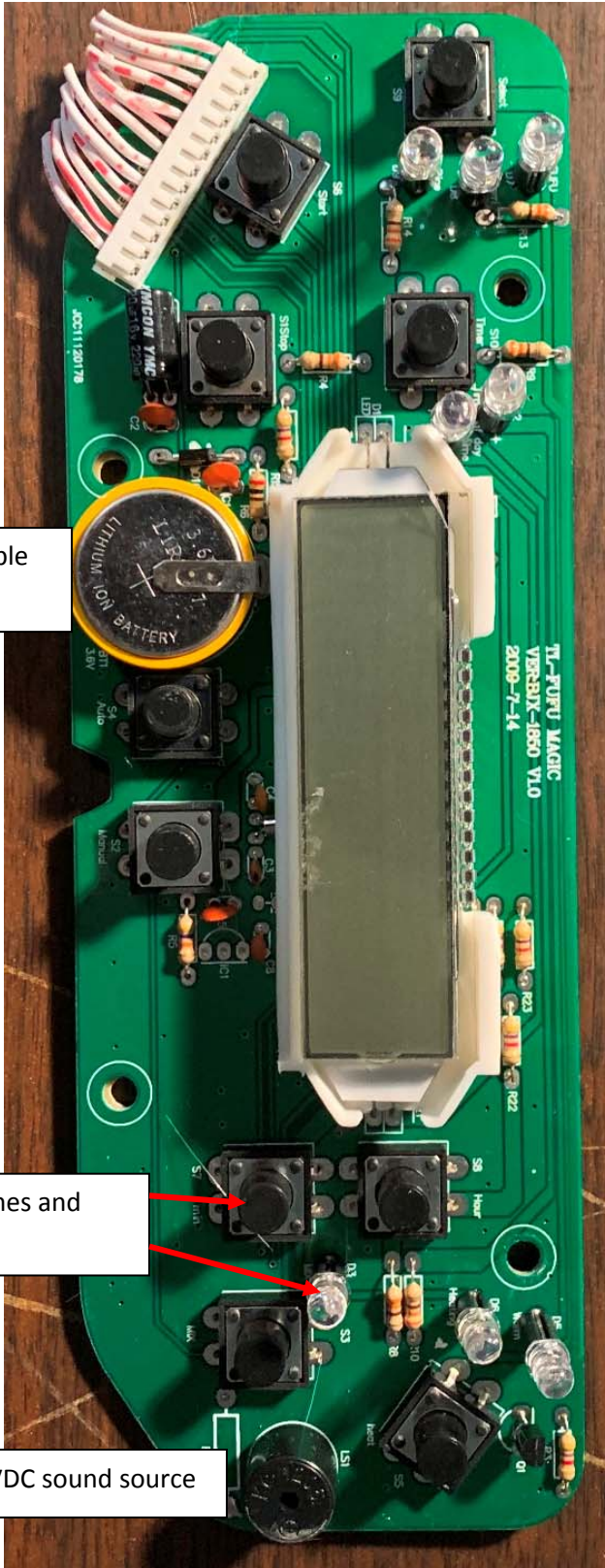
Modifications for using external DC source for power devices. Also see page 9 for removing transformer and adding jumpers.

Parts hobbyist might use.

3.6 V lithium rechargeable battery

Push button switches and LED's

5 VDC sound source





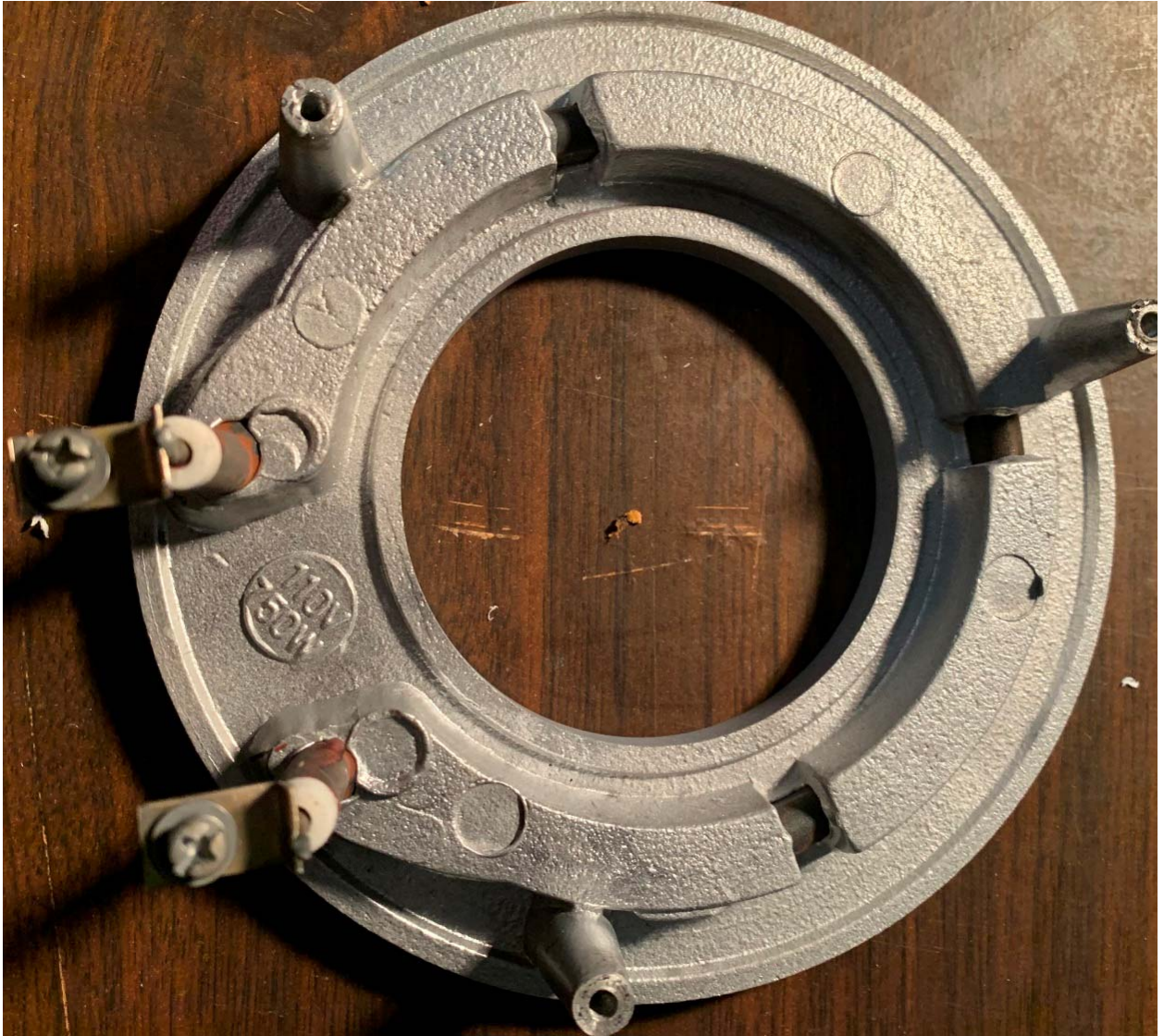


Reversible mix motor. WH wire is AC Neutral. The capacitor is C2 on the power PCB.





Reversible Dump Motor. The black wire is AC neutral. Capacitor C1 on PCB



120 VAC, 800 watt heater.





Parts listed on page 2. If type of device is not used, the connectors with wire can be used to connect other type devices. All of these devices connect to the power PCB on page 5.