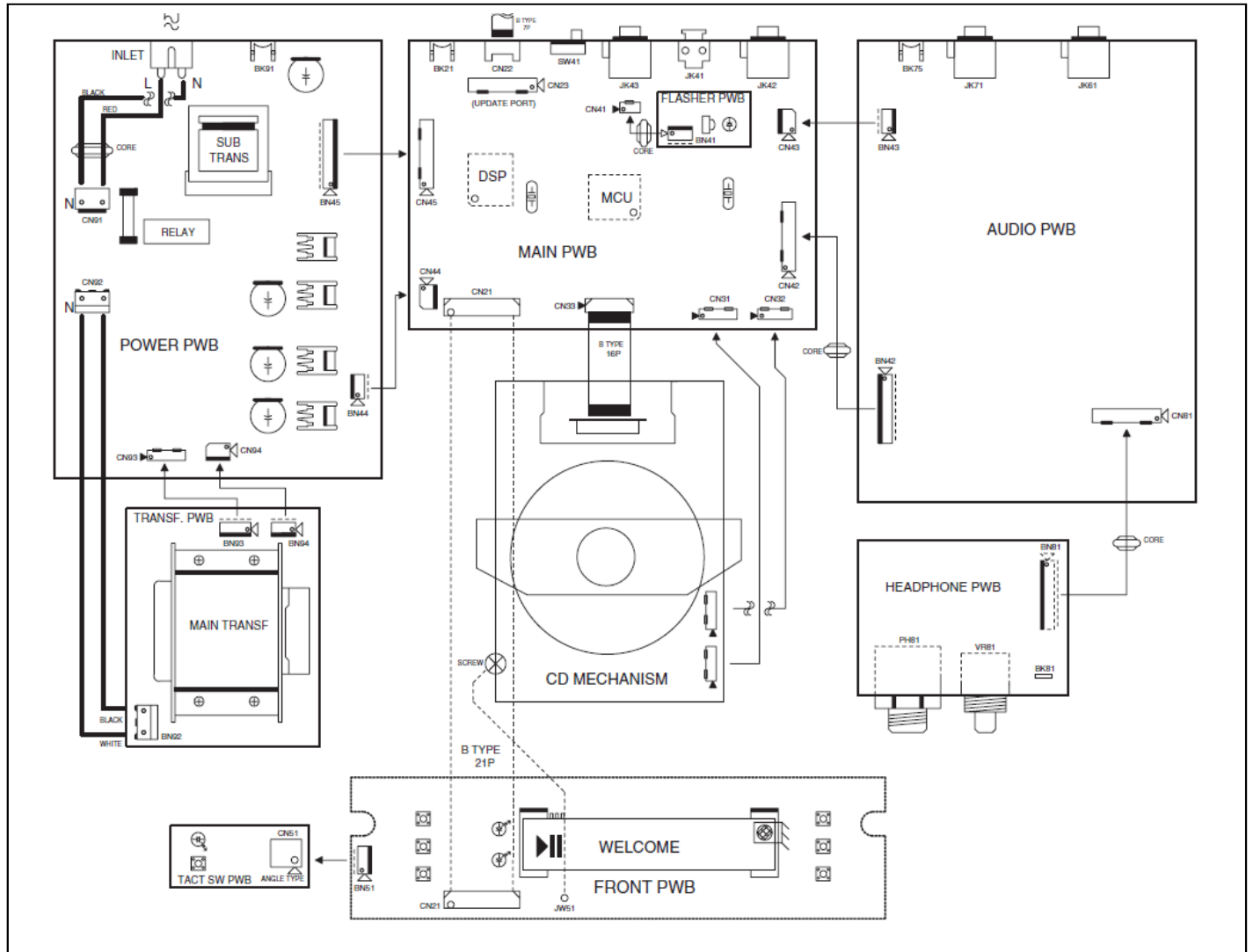
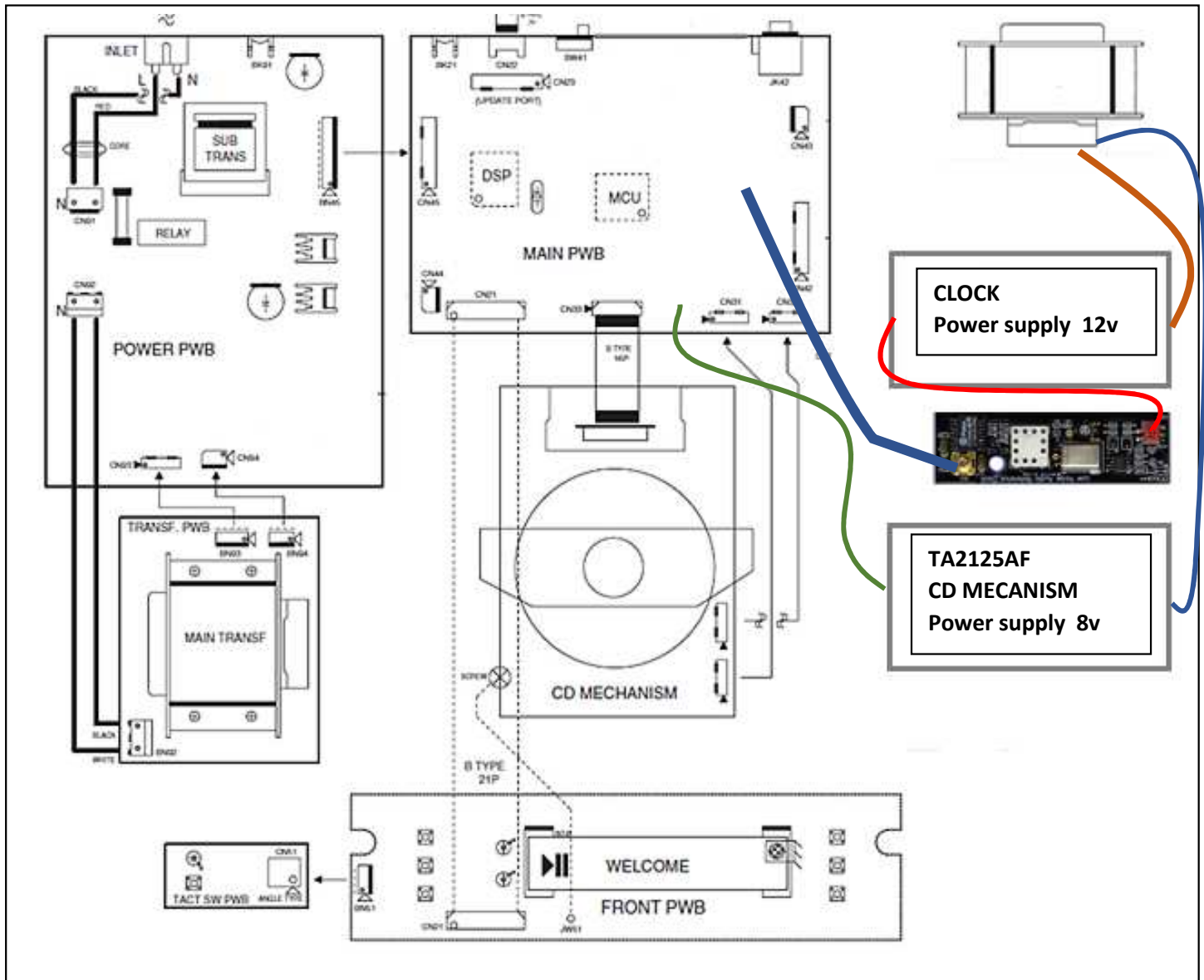
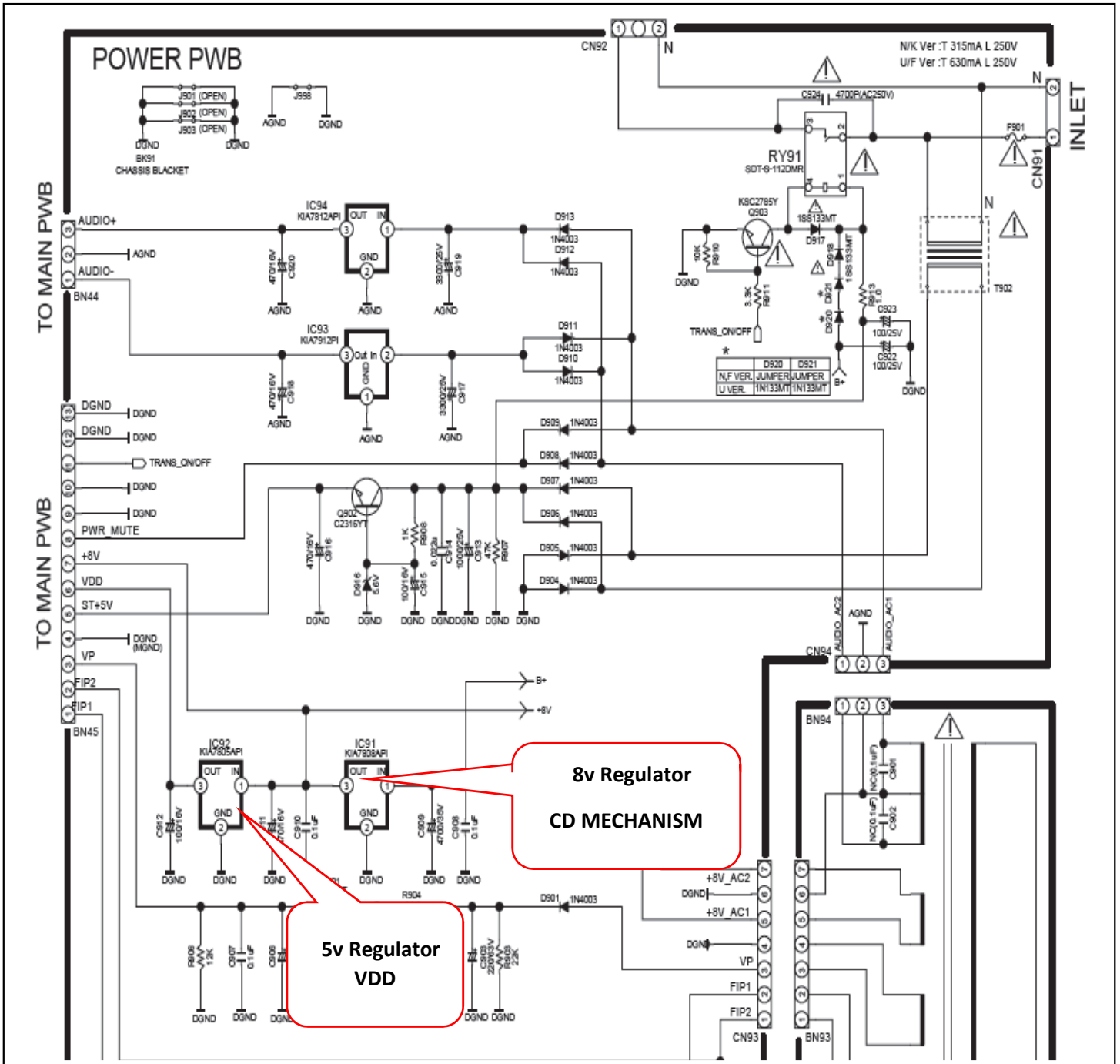


THE MARANTZ before modifications



THE MARANTZ after modifications





As you see the 5v VDD is just after the 8v for the CD MECHANISM !!!!

I think that is not a good choice for the noise

I decided to add a dedicated 8v power supply

See page 4

Power supply 8v modifications

TA2125AF

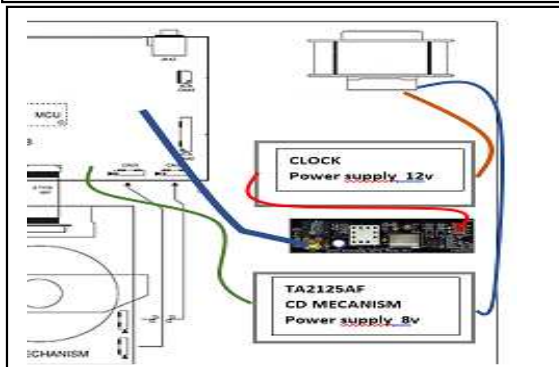
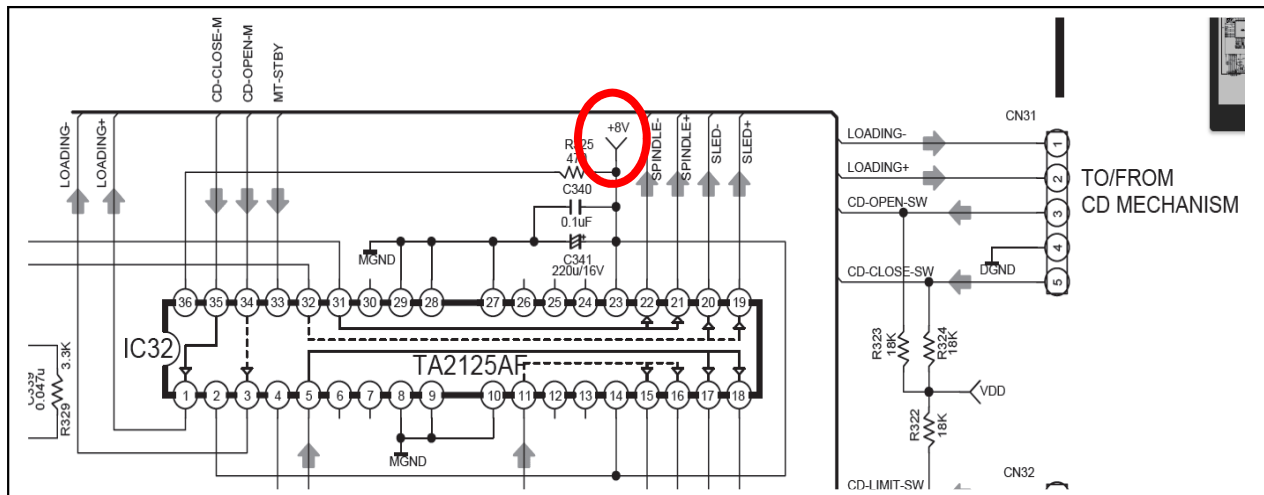
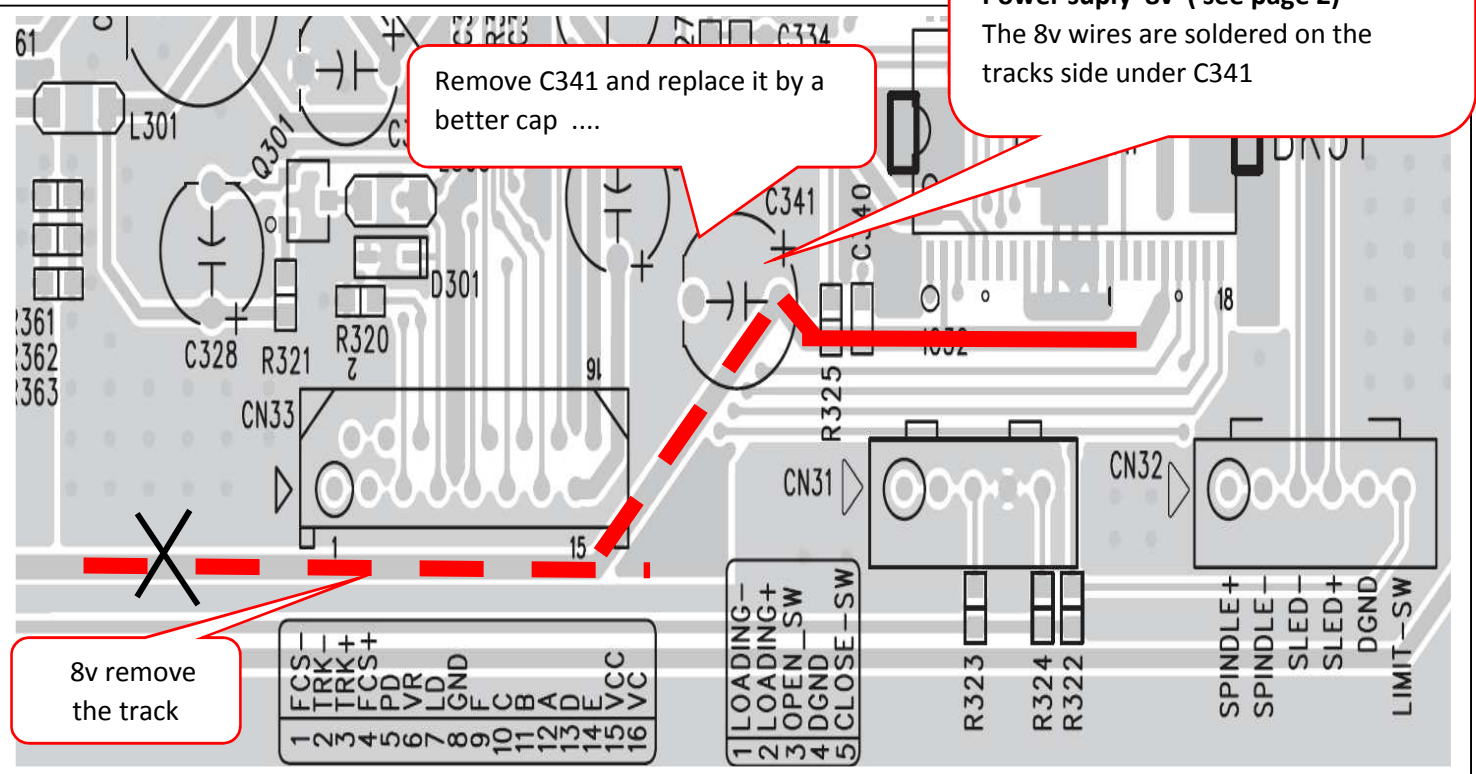
CD MECANISM

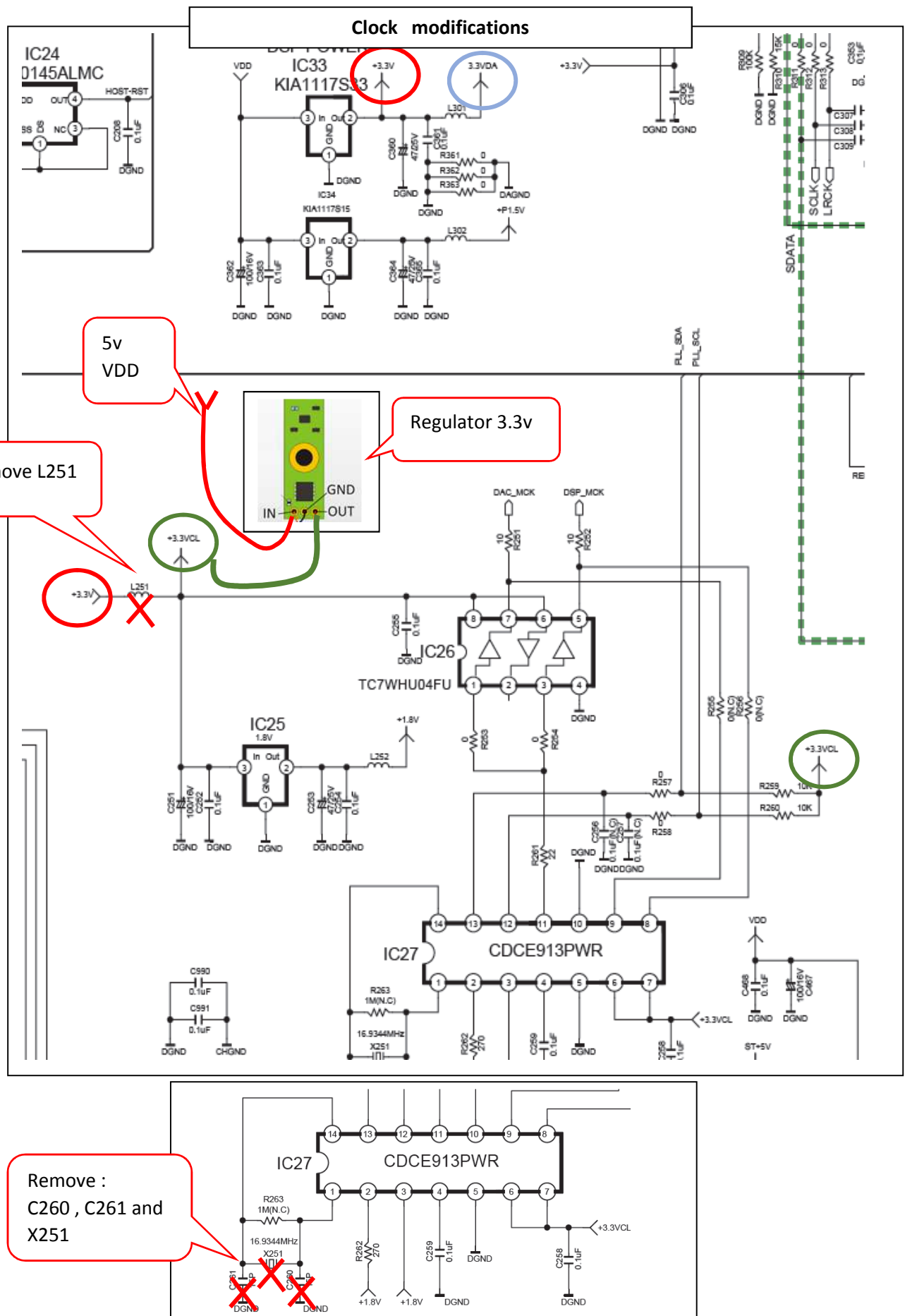
Power supply 8v (see page 2)

The 8v wires are soldered on the tracks side under C341

Remove C341 and replace it by a better cap

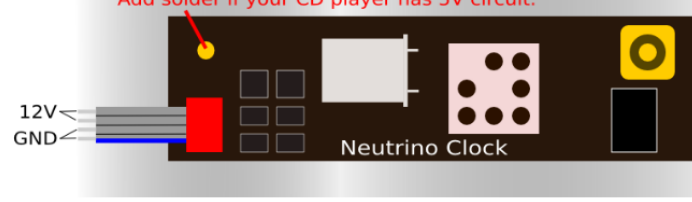
8v remove the track





Clock modifications : 16.9344Mhz

Add solder if your CD player has 5V circuit.

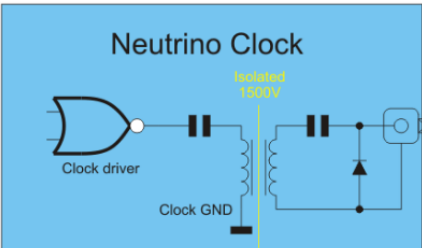


12V
GND

Neutrino Clock

Onboard is a voltage setting, to make the Neutrino compatible with any 3.3V or 5V host circuit. This voltage refers to the - approximate - amplitude of the clock signal (V_{pp}), that comes out of the clock connector.

If the host IC (the IC receiving the clock signal) runs on 5V, then use the 5V setting. If the IC runs on 3.3V obviously you will overload the input with a 5V signal, as it is higher than the supply rails. In that case use 3.3V. (Most newer circuits use 3.3V). Simply apply solder to the bubble marked '5V' (found just next to the red power connector) to set the voltage regulator at 5V, otherwise it's 3.3V.

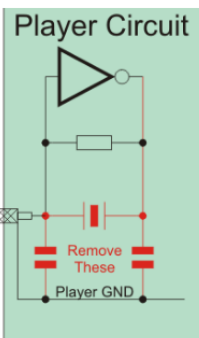


Neutrino Clock

Isolated Transformer

Clock driver

Clock GND



Player Circuit

Remove These

Player GND

You may notice the diode connected across the output of Neutrino clock, this diode is required when replacing a 4 pin CMOS crystal oscillator with

the Neutrino clock. The CMOS oscillator output signal is 0 - 5V, and the diode displaces the Neutrino's clock to approximately 0 - 5V.

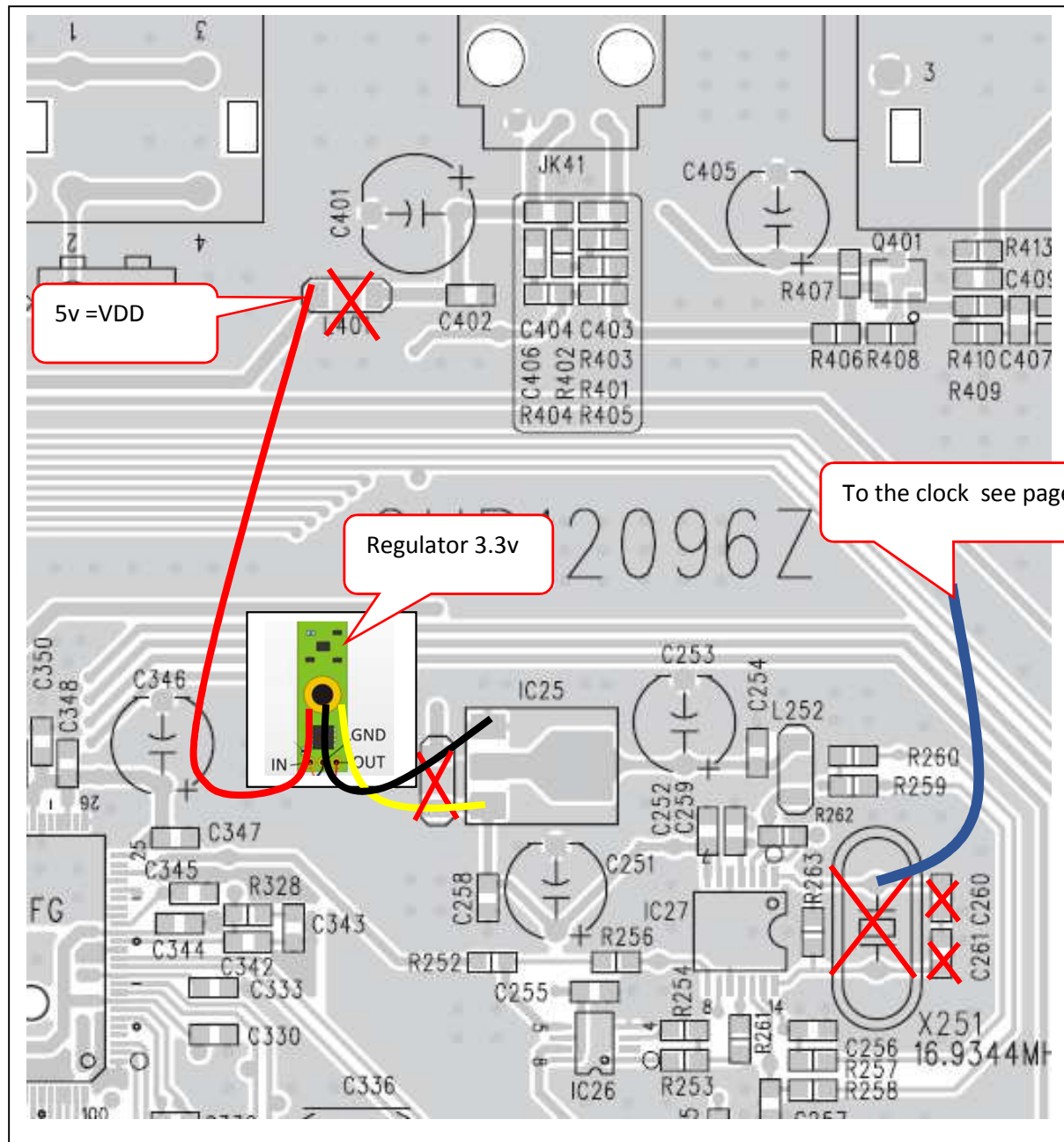


To the main card see page 7

This clock is my choice !!!! , there are many and cheaper clocks on the market :

16.9344Mhz

Clock modifications



I have added a 3.3v regulator for the Clock circuits

Is it necessary !!!!

CD 5005 Modifications



CD 5005 Modifications

