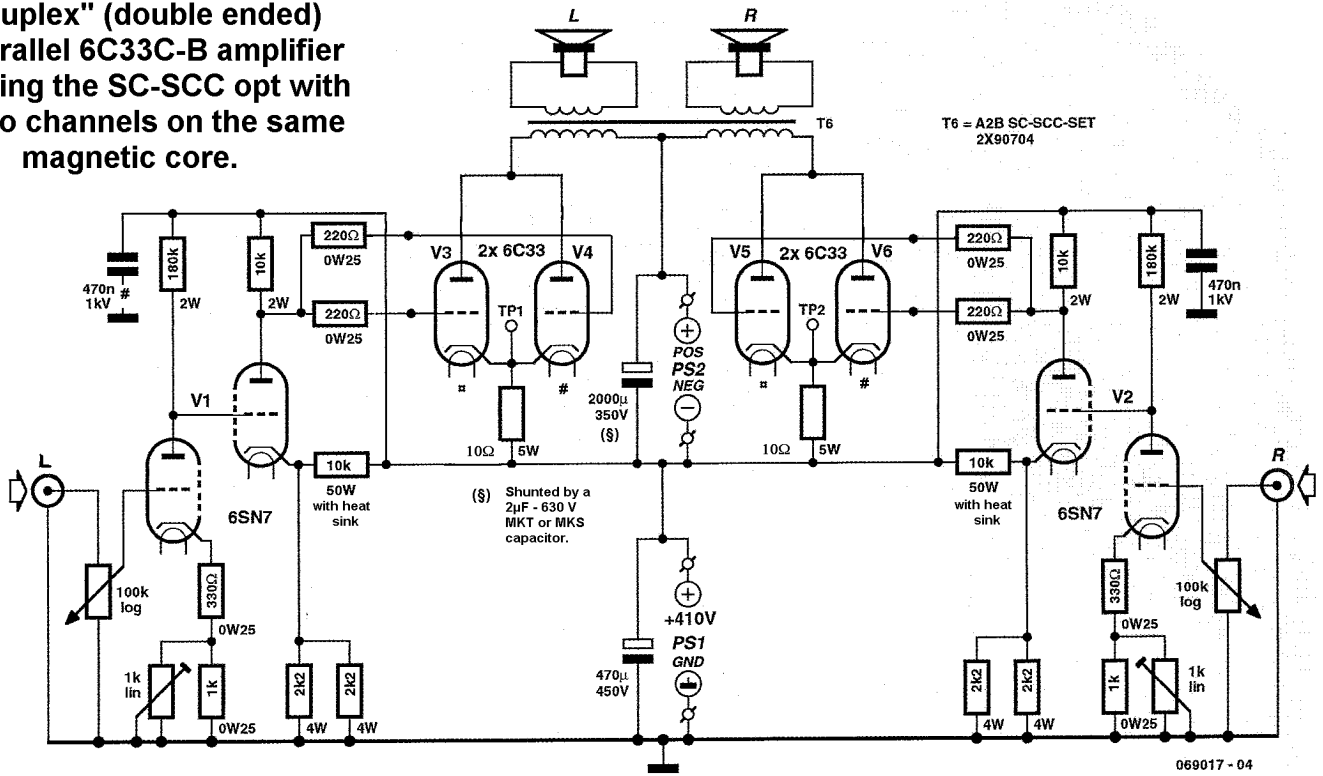
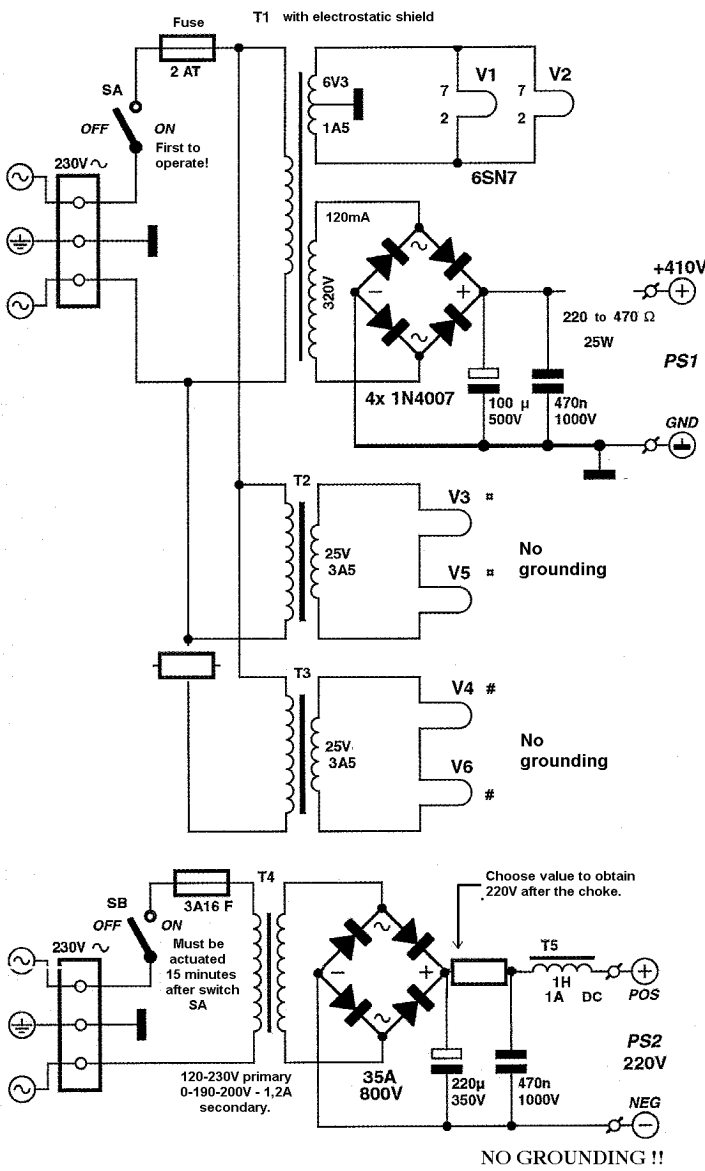


**"Duplex" (double ended)  
parallel 6C33C-B amplifier  
using the SC-SCC opt with  
two channels on the same  
magnetic core.**



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The "Duplex" (double ended) parallel 6C33C-B amplifier has an outstanding range, extended to deep bass. The "Duplex" is an upgrade of the "Simplex", using two 6C33 valves per channel, instead of one, with a power output of 25W. The -3dB point, at the low frequency end, is approximately 5Hz, whereas the high frequencies exceed 30kHz (usually 35kHz). Several articles on the "Duplex" were published by the specialized magazines, such as AudioXpress, Elektor (NL), Elektor (DE) and Costruire Hi Fi (IT). "Double ended" means that it behaves like a single ended amp, but uses the same magnetic core for both channels. The "Duplex" needs a phase inverter at its input and a suitable one is the 3B/Inv (BassBoostBox) or the 3B/Inv-Vol (with volume control) that you can find in the "Products" section - chapter 4 - Input transformers. Suitable inverting input transformers can also be found in Sowter's, Lundahl's or Amplimo's range, as well as with other manufacturers. The output transformer used is a SC-SCC-25-600 patented by Mariani and Polisois, that withstands up to 500mA of idle current (see "Products"- section 3 - output transformers).

The "Duplex" as all the audio amplifiers offered in this site, benefits of the D.C.M.B. system, that uses no coupling capacitor between the driver and output stages. This system ( Direct Coupling Modulated Bias) avoids discrimination between low and high frequencies, due to the presence of the blocking capacitor. Moreover, the 10k-50W resistors, in the schematics, connecting the power supply positive line to the cathodes, provide extra features, such as more stability, power supply hum and noise rejection, as well as increased gain from the second section of V1 and V2. Last, but not least, the D.C.M.B. system is very sensitive to microdetails, due to the fact that the grids of the power valves see everything that happens on the 10k load resistors of V1 and V2, from the strongest to the weakest signals. The output transformer used delivers an unequalled quality, filling the soundstage with a consistent, clear, and realistic sound.

**NO GROUNDING !!**