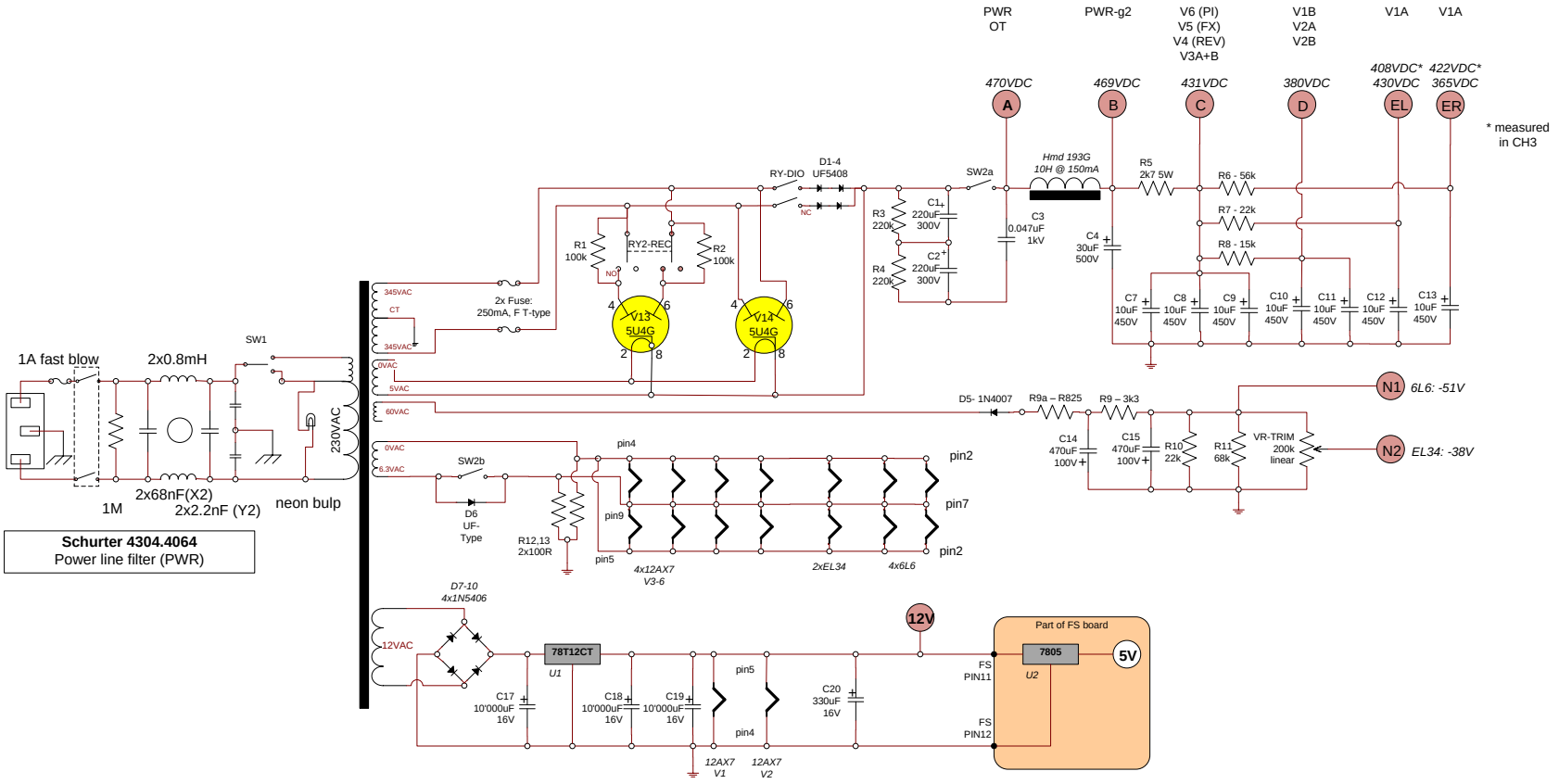
Phoenix - MB Roadking Mk II clone

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Version 2.0 draft Donnerstag, 13. Mai 2010

Power supply

Mains Transformer Specification



Issues:
- **none**

Variances:
- **power line. Filtered w/ DPST switch, mains fuse**
- **HT fused in front of rectifier**
- **filament lowered in standby mode**
- **D1-4: 1N4007 replaced by UF5408 (ultra fast)**
- **7805 is now moved to FS board, because 12VDC as well as 5VDC is required in FSW**

solved issues
- **Power Tranny: Mercury Magnetics MBRK-OT/230V**
- **Power Tranny 12VAC: MM 12P (12VA)**

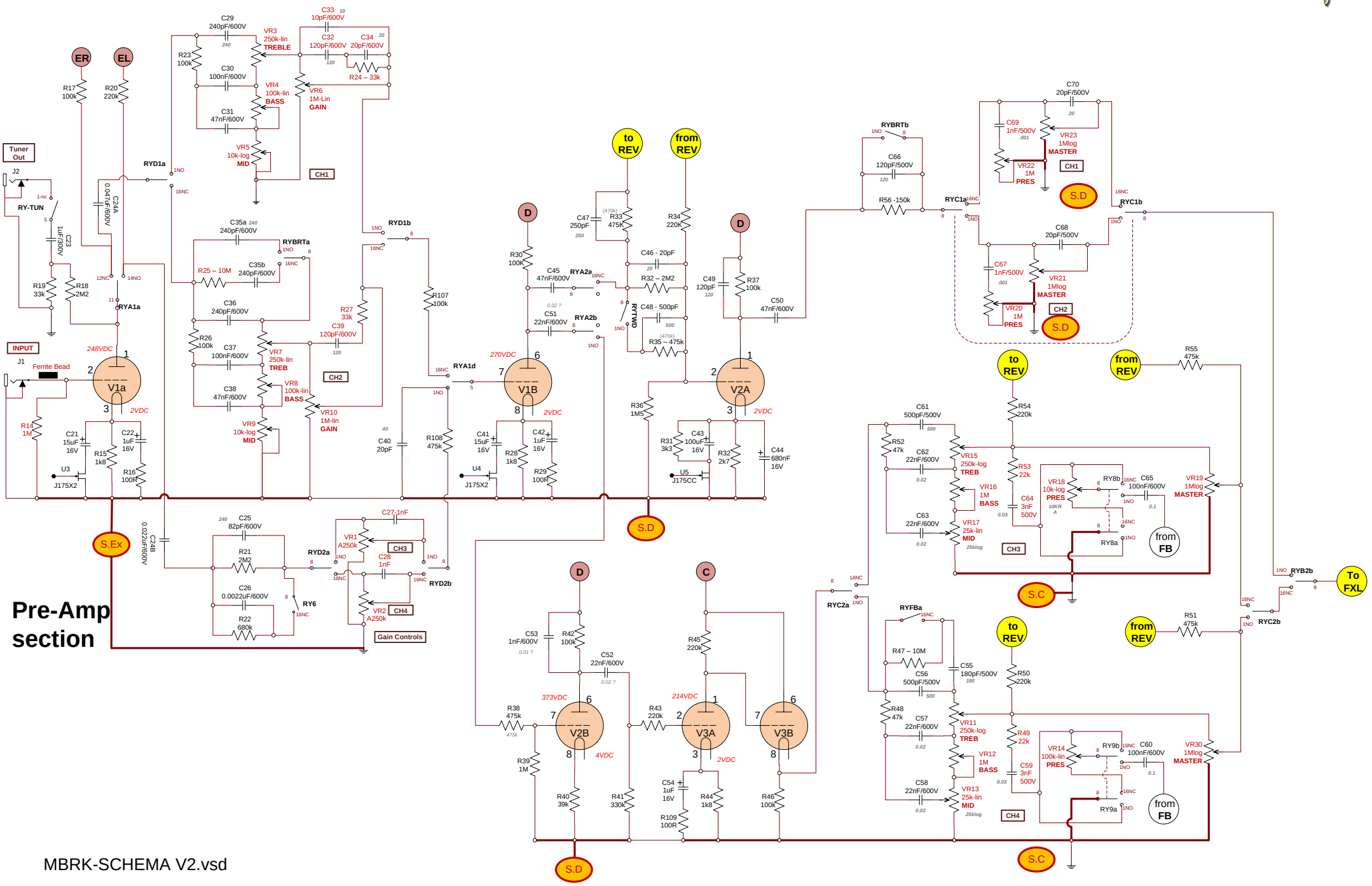
Winding	Property	Size	Unit
Primary	Voltage	230/240	VAC
Secundary HT-CT-HT	Voltage	400	VAC
	Current	442	mA
	Power per Tap	177	VA
	Total HT-Power	353	VA
Negative Voltage Supply	Voltage	60.0	VAC
Secundary Filement	Voltage	6.3	VAC
	Current	11.8	A
Secundary Filement	Voltage	5.0	VAC
	Current	5.6	A
12V Supply	Voltage	12.0	VAC
	Current	5.0	A
Total Power Consumption		371.9	VA

MBRK-SCHEMA V2.vsd

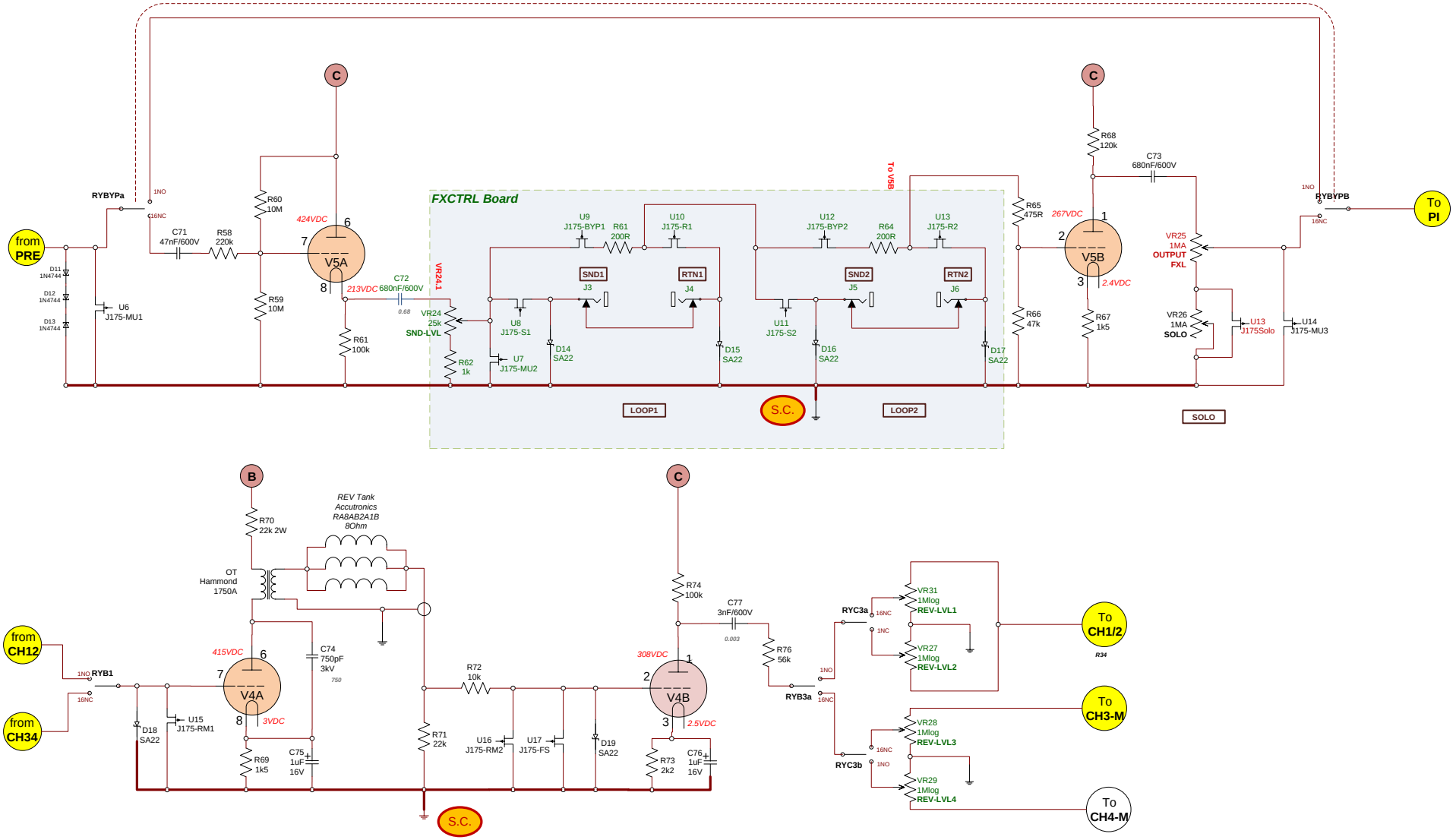
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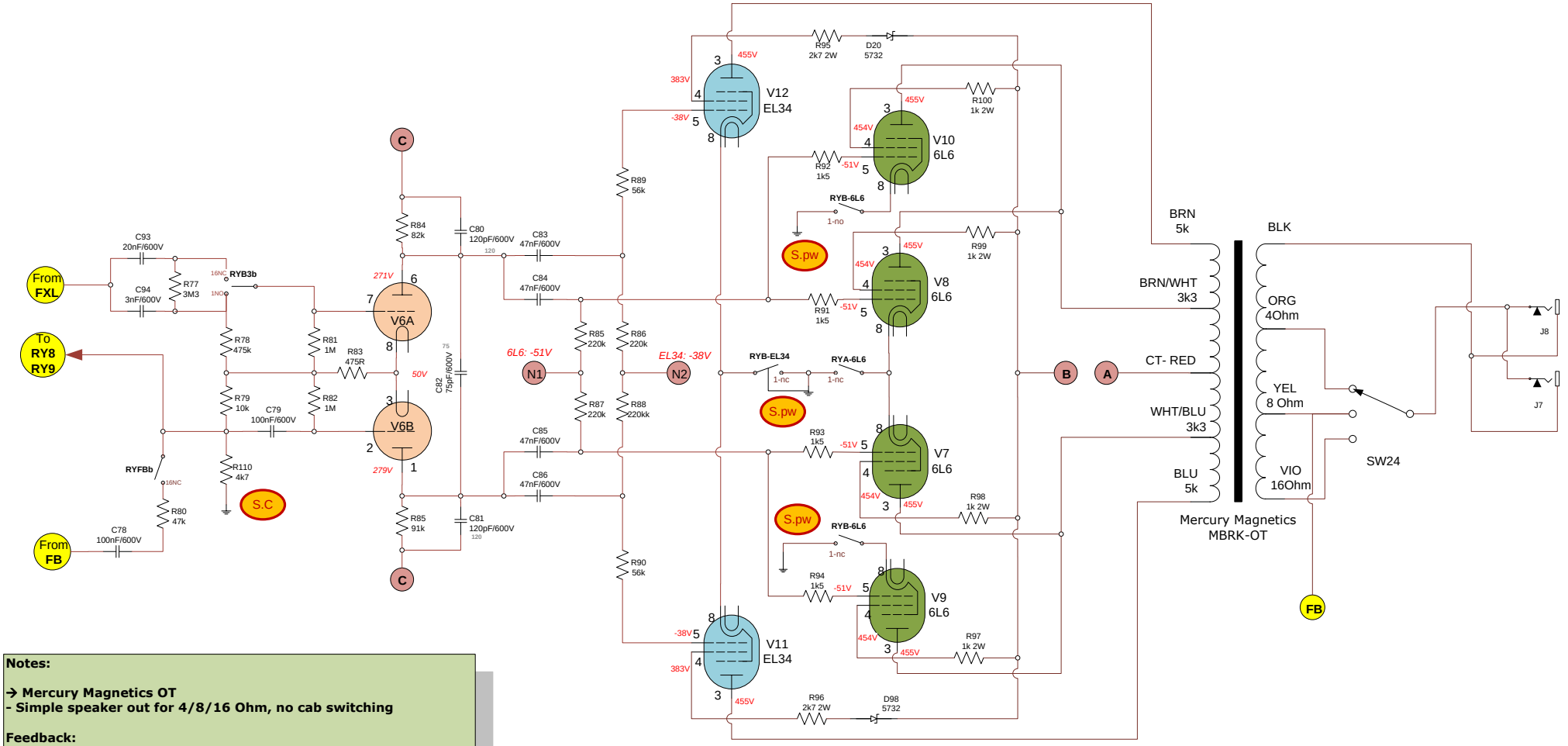
FX-LOOP + REVERB



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Power Amp Section



Notes:

→ Mercury Magnetics OT
- Simple speaker out for 4/8/16 Ohm, no cab switching

Feedback:
C78 – if Bass too strong /heavy → make C78 smaller (500/120pF)

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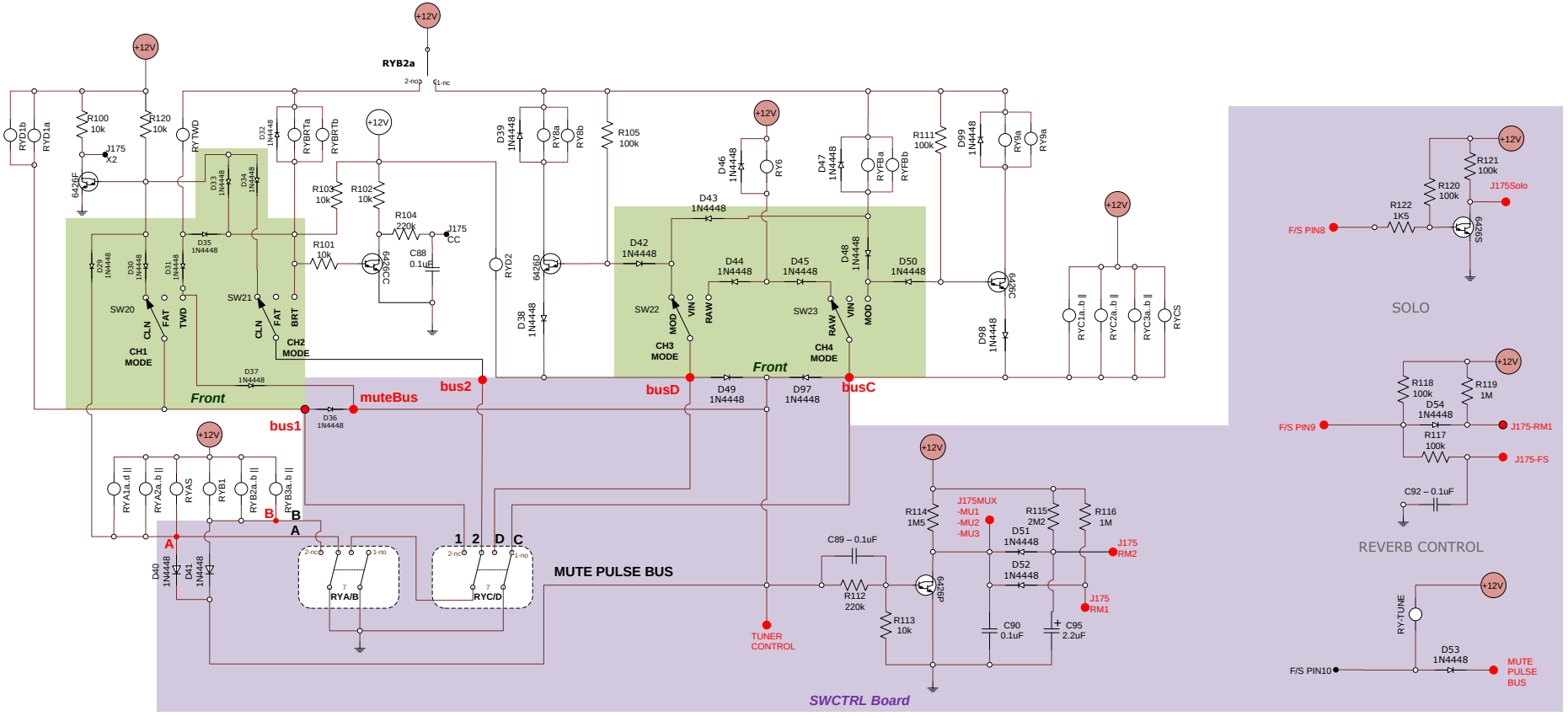
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Switch Board 1

Notes:

- Speaker Control and External Trigger Control Circuits: not to be build !

Channel Switch Circuitry:
Channel Switch Circuitry is now changed to S-R Latch based circuitry, which will be partly implemented in Footswitch. See details on page „Footswtich"

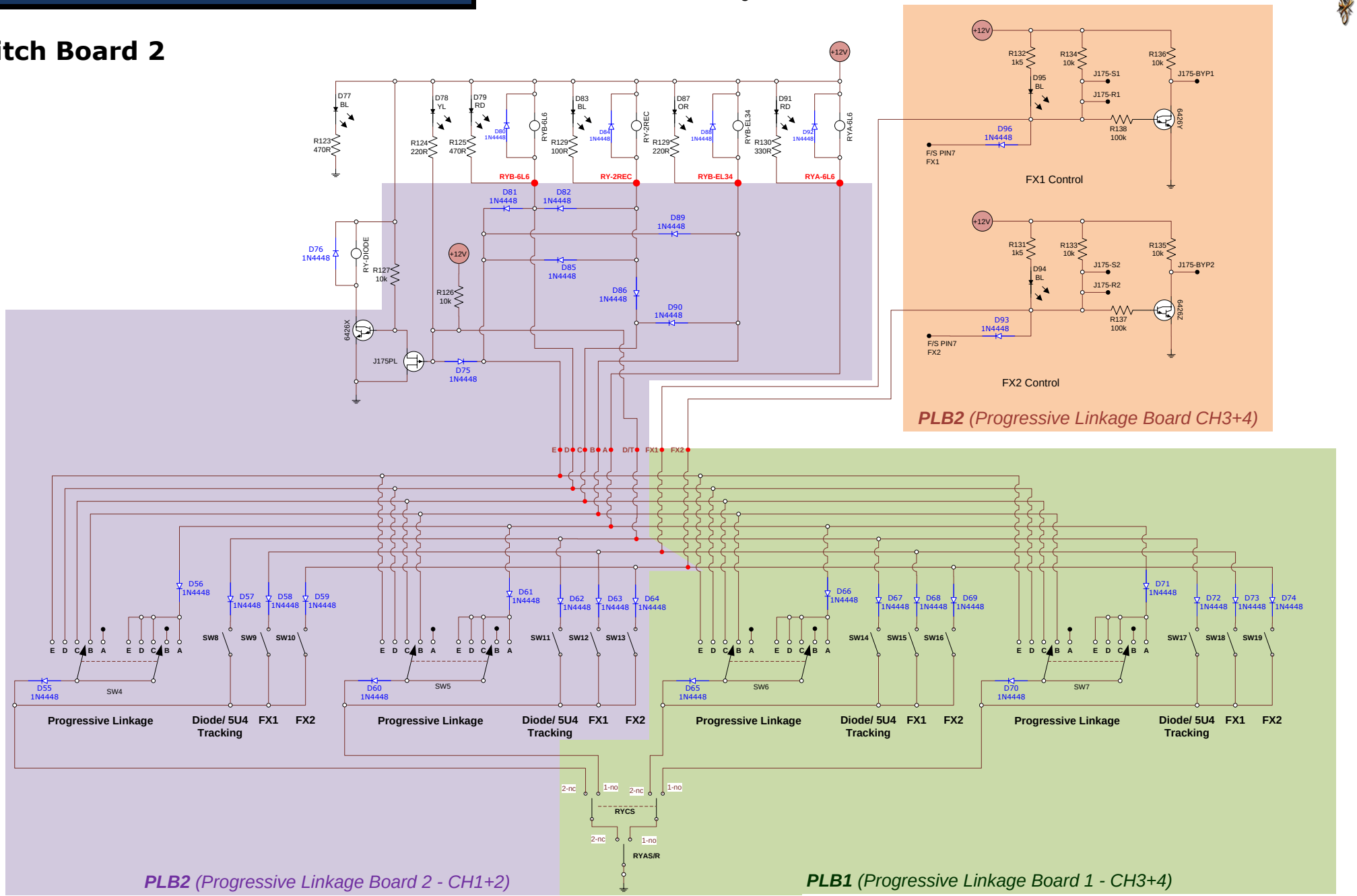


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Switch Board 2



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Footswitch / CTRLSW (partly)

