MB Roadking Mk II

Dual rectifier Roadking rebuild

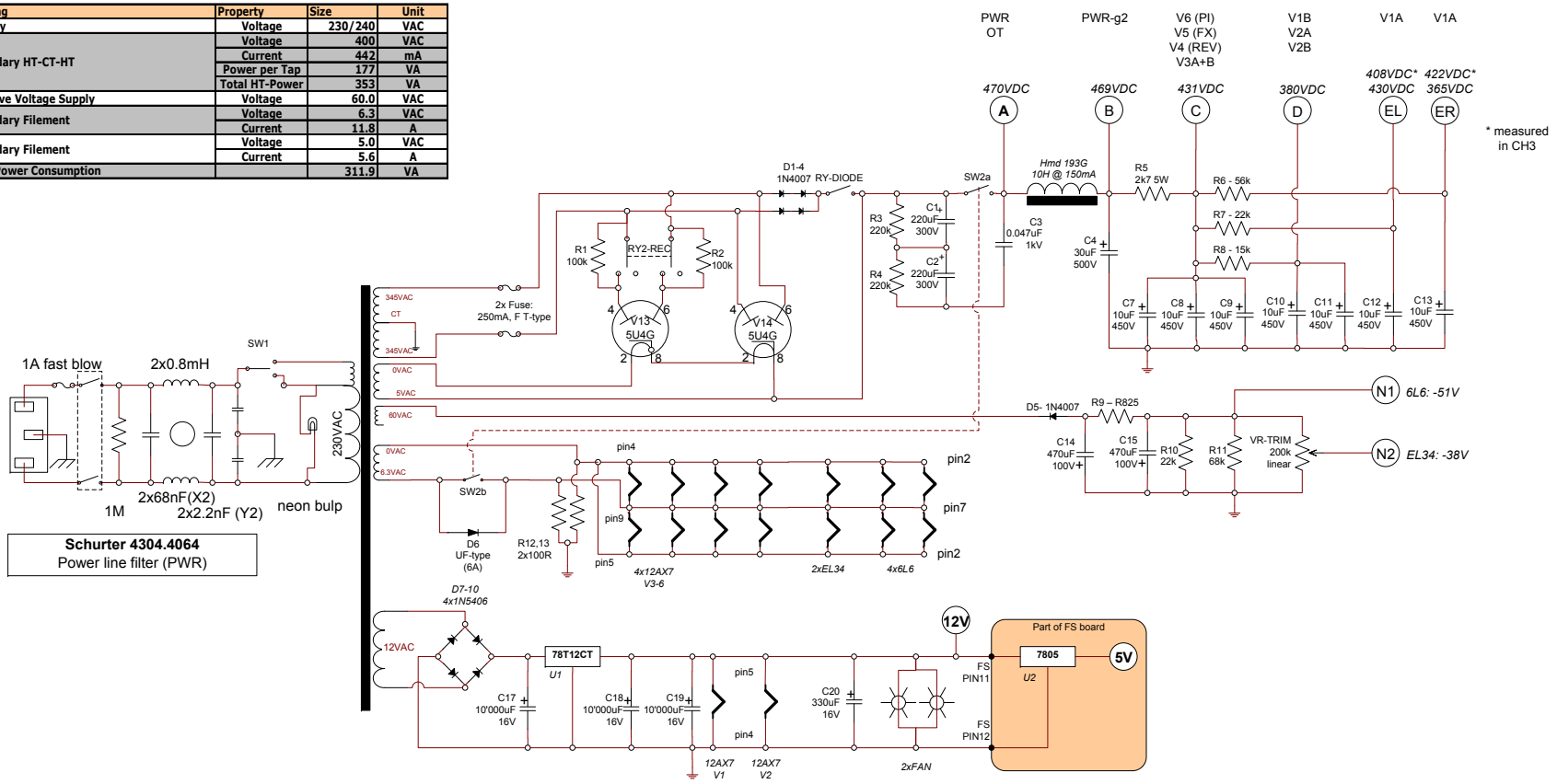
Martin Dohrau, CH-8143 Stallikon

Version 0.3 draft Dienstag, 13. Januar 2009

Power supply

Mains Transformer Specification

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
Total Power Consumption		311.9	VA



Issues:
- none

Variances:
- power line. Filtered w/ DPST switch, mains fuse
- HT fused in front of rectifier
- filament lowered in standby mode
- 7805 is now moved to FS board

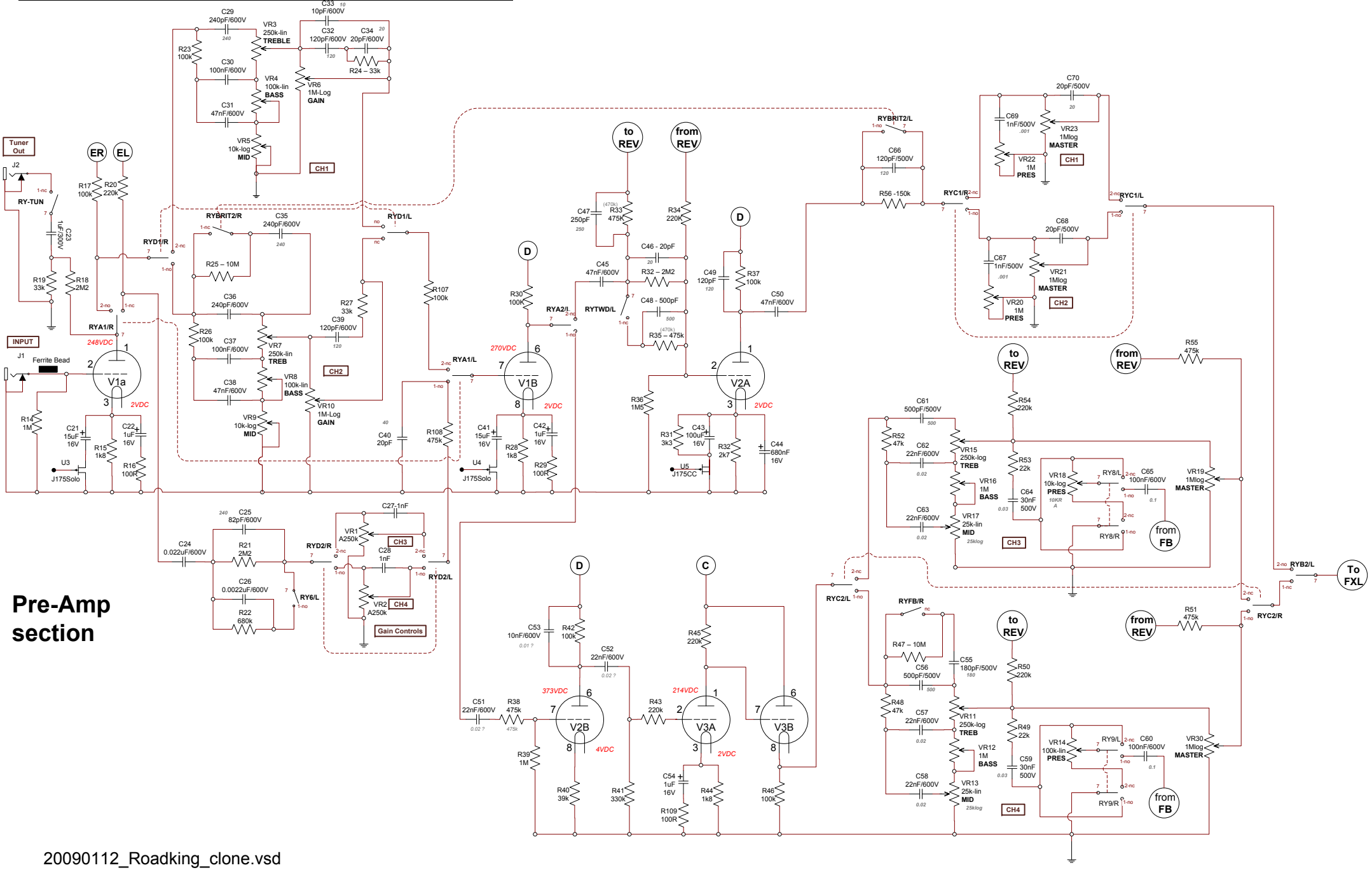
solved issues
- power tranny: custom made by wuesten.de according to calculations

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Pre-Amp section

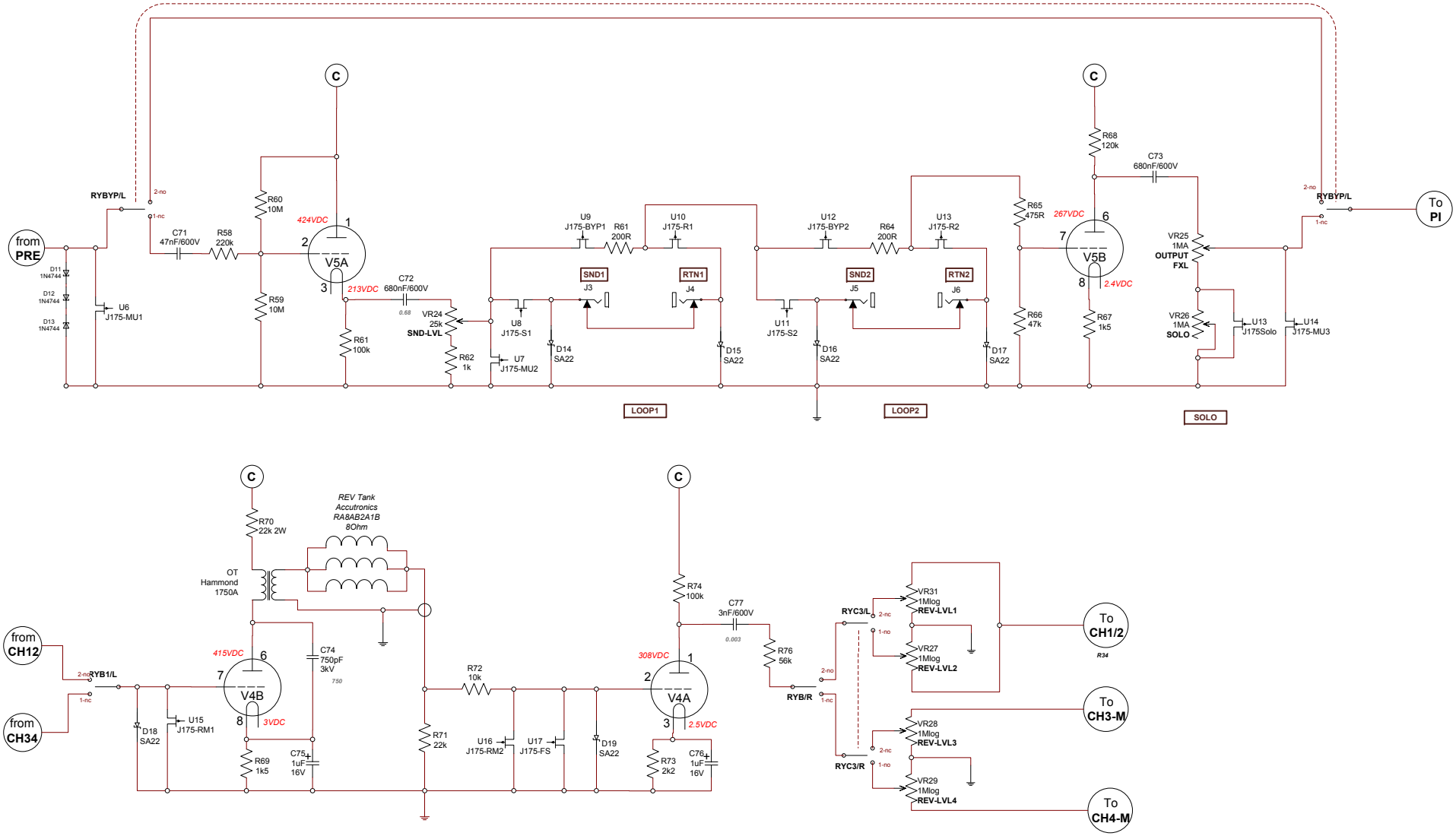
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FX-LOOP + REVERB



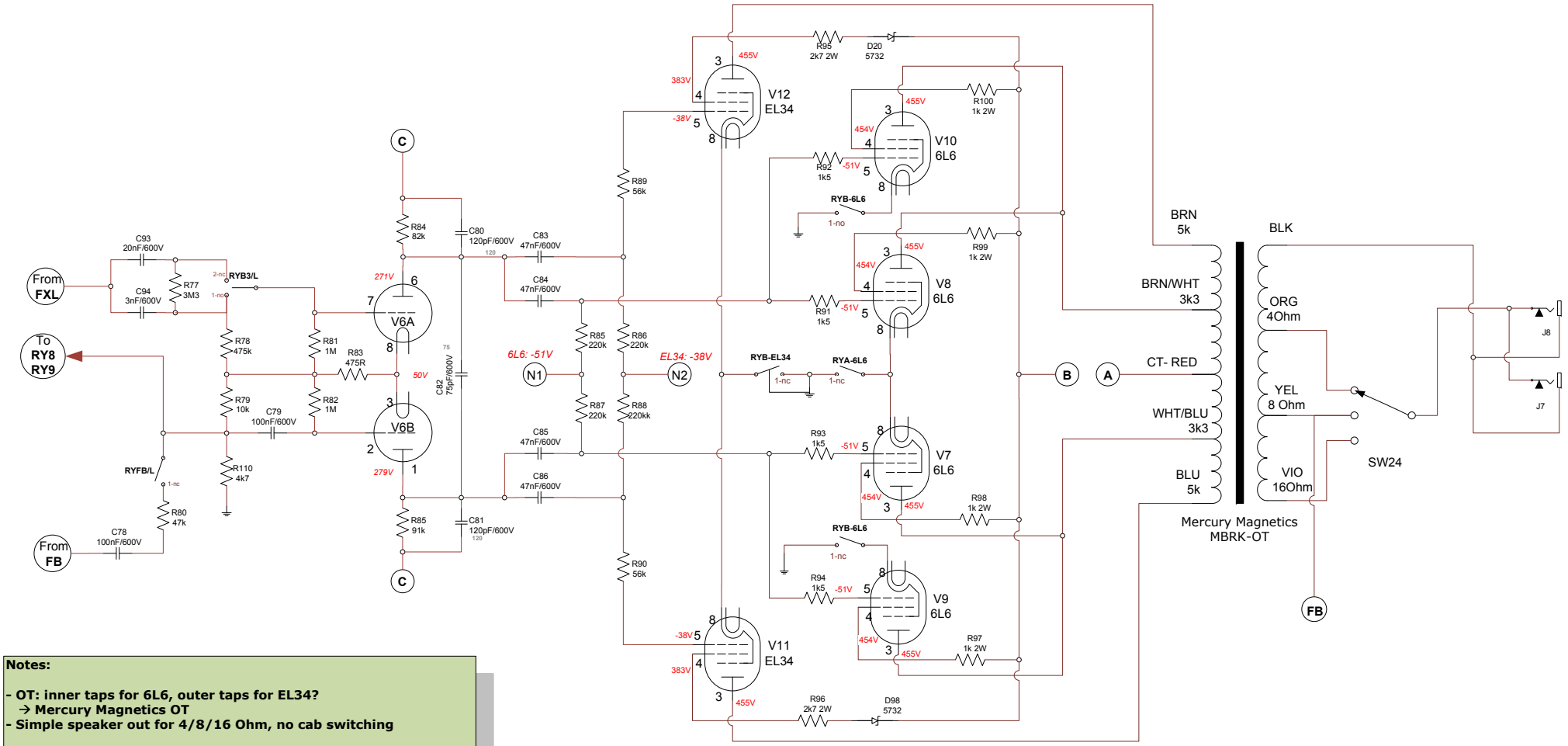
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Power Amp Section



Notes:

- OT: inner taps for 6L6, outer taps for EL34?
→ 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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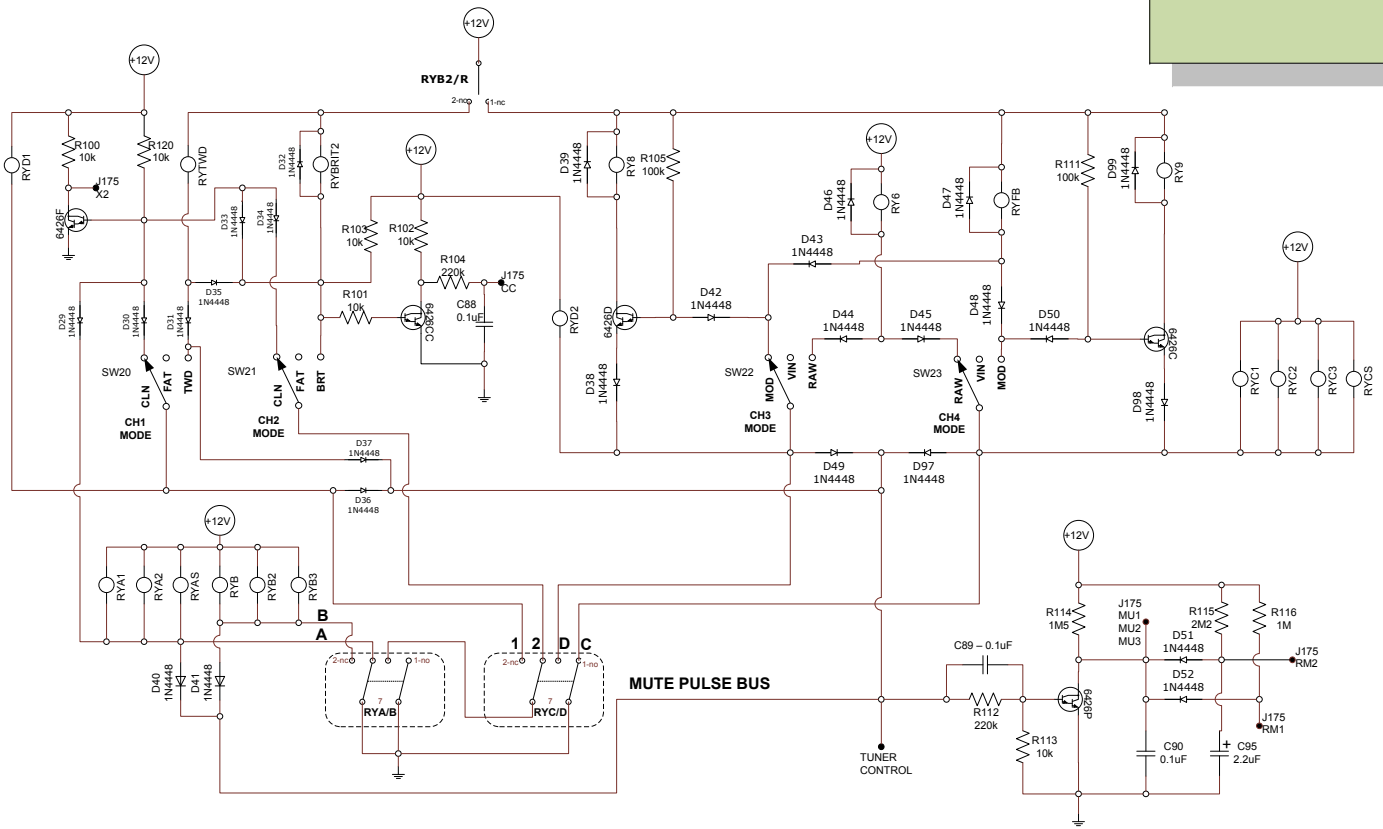
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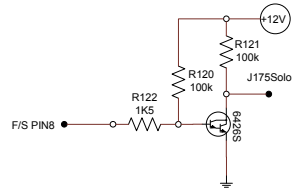
Switch Board 1

Notes:

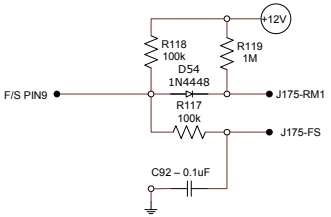
- Speaker Control and External Trigger Control Circuits: not to be build !

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"

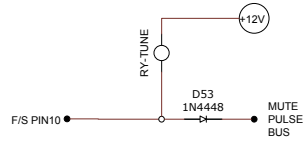




SOLO



REVERB CONTROL



TUNER/MUTE CONTROL

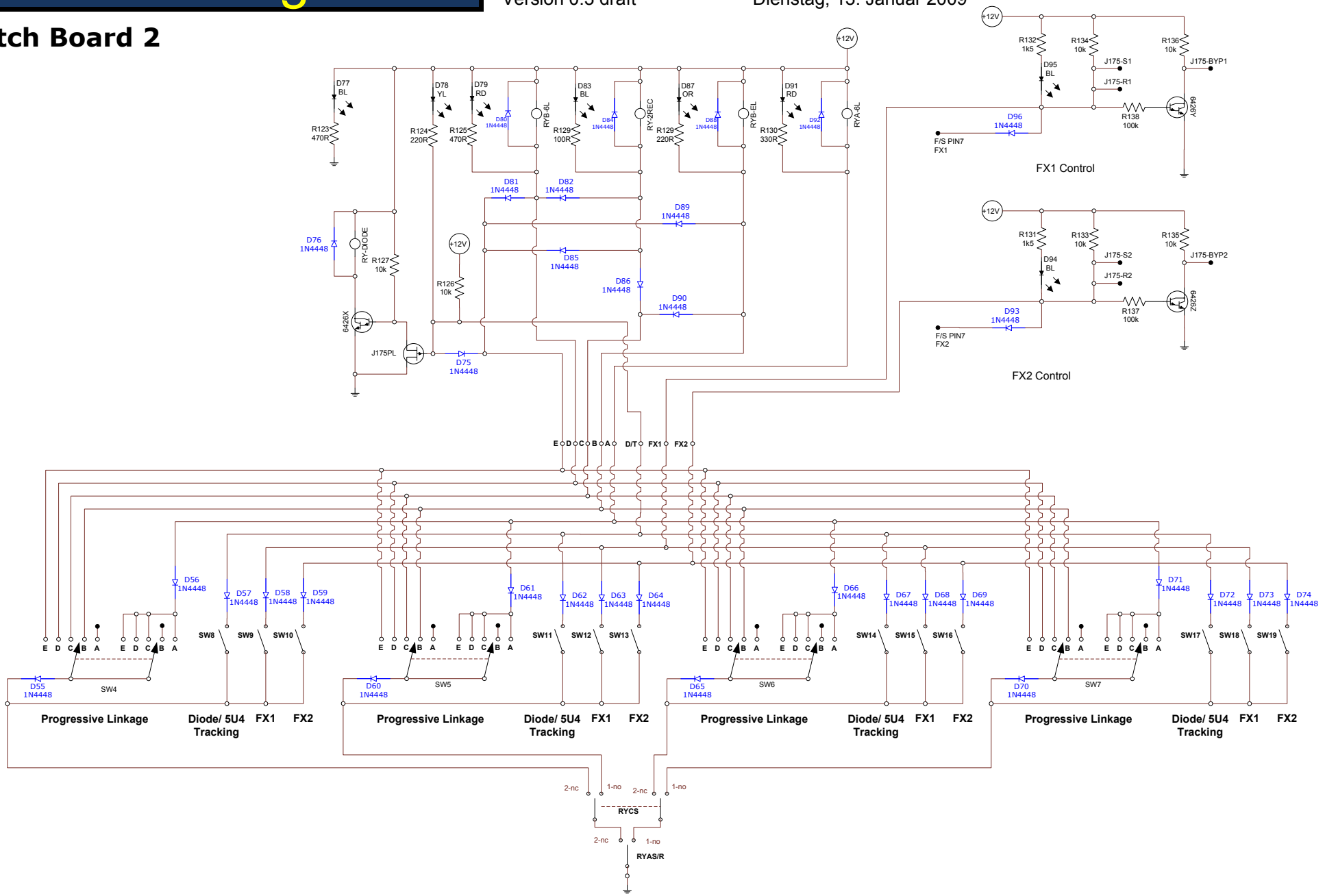
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Switch Board 2



20090112_Roadking_clone.vsd

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Footswitch / Switch Board 3

