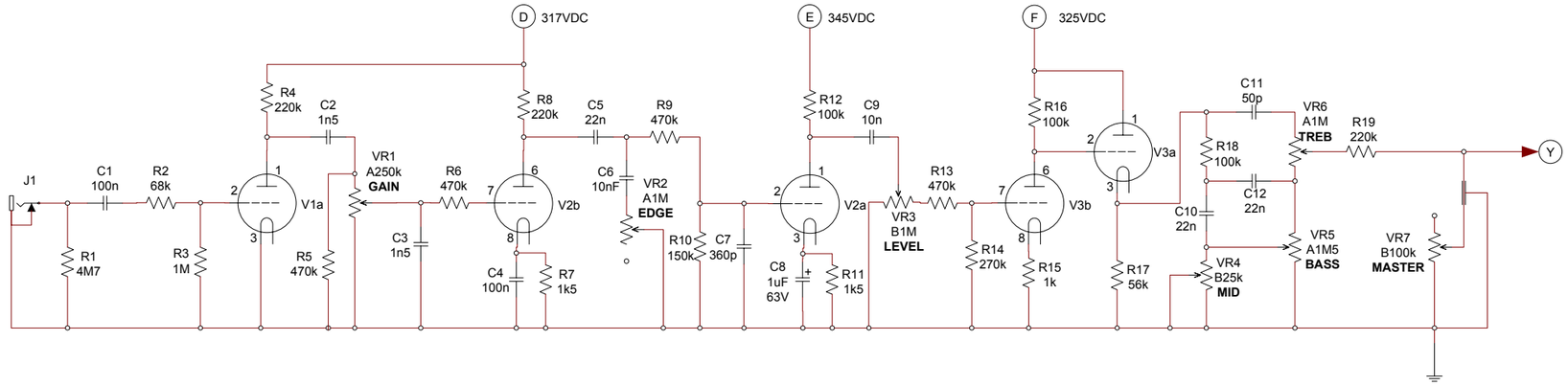
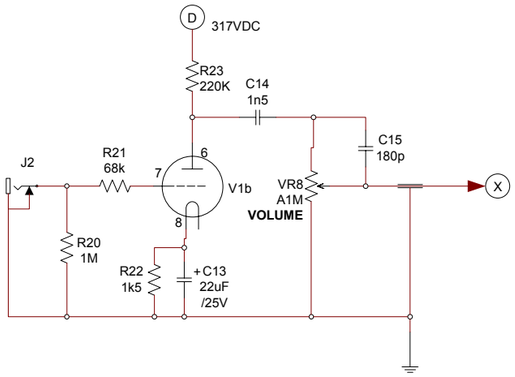
BadHotSnake

A BadCat HotCat 30HD Clone

Martin Dohrau, CH-8143 Stallikon

Version 1.3 Freitag, 4. April 2008





Change Log:

- Rename V3b (previously V1b) [V1.3]
- C6: rating corrected from 0.01 ? To 10nF [V1.3]

Comments:

All resistors are of metal film type resistors, 1W, <5% tolerance, and >400VDC voltage rating

Exceptions are: R18 / R23 / R22, which should be carbon elements

All coupling capacitors are metallized polyester film with at least 630V rating

Voltage measurements on anodes [VDC]

Position	specified	w/o load	w/ load	V.1.6 w/load
A	xxxV	xxxV	xxxV	xxxV
B	xxxV	xxxV	xxxV	xxxV
C	xxxV	xxxV	xxxV	xxxV
D	317V	xxxV	xxxV	xxxV
E	345V	xxxV	xxxV	xxxV
F	325V	xxxV	xxxV	xxxV
V1-6a	xxxV	xxxV	xxxV	xxxV
V1-1a	xxxV	xxxV	xxxV	xxxV
V2-6a	xxxV	xxxV	xxxV	xxxV
V2-1a	xxxV	xxxV	xxxV	xxxV
V3-6a	xxxV	xxxV	xxxV	xxxV
V3-1a	xxxV	xxxV	xxxV	xxxV

20080316_Badhotsnake_Ver01.3.vsd

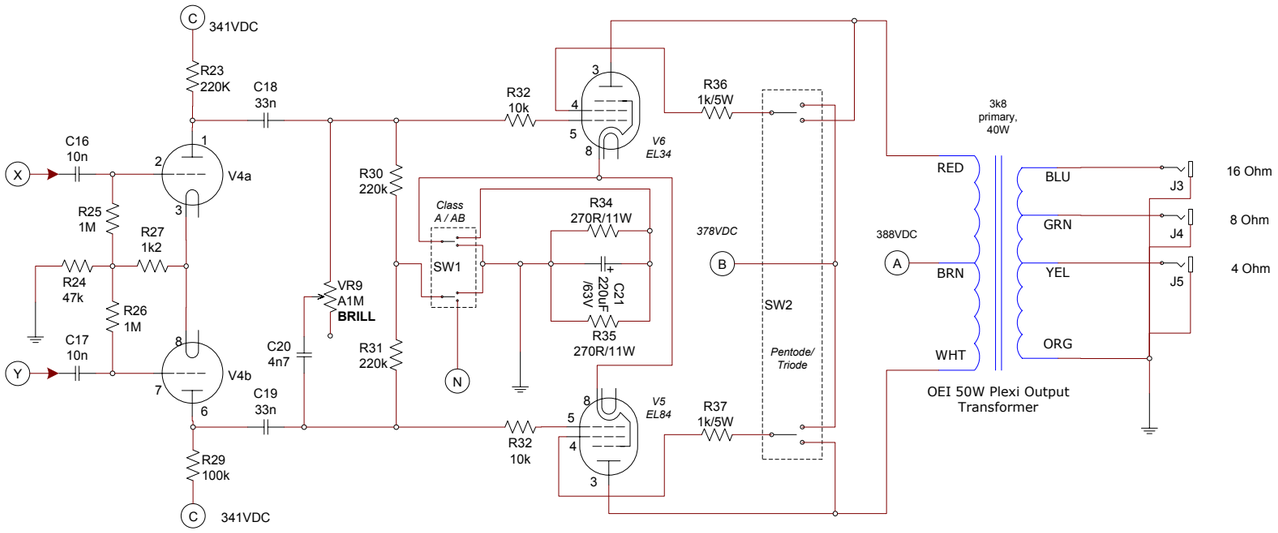
Preamp Circuitry

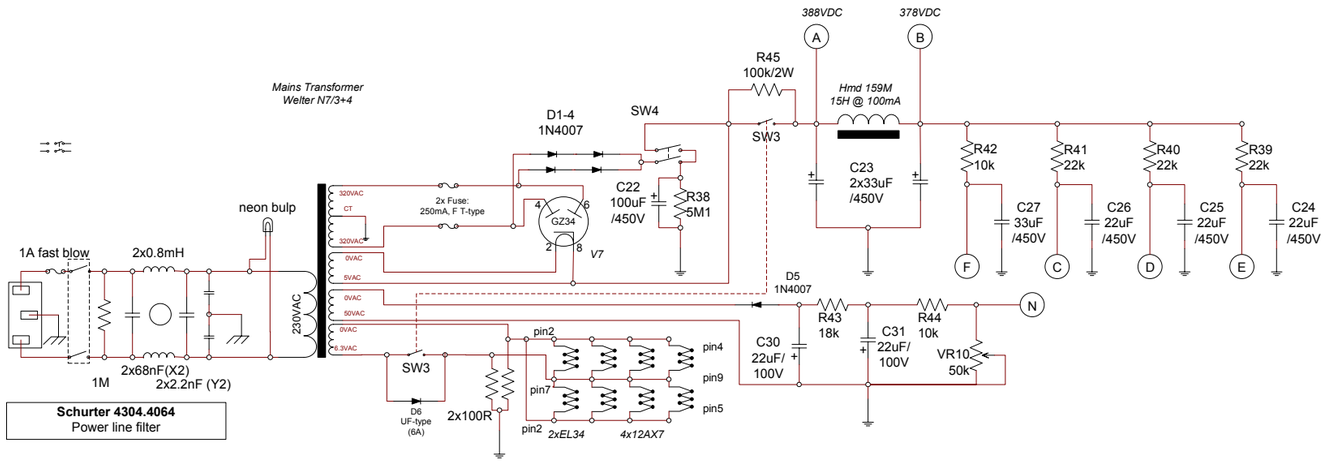
BadHotSnake

A BadCat HotCat 30HD Clone

Martin Dohrau, CH-8143 Stallikon

Version 1.3 Freitag, 4. April 2008





Change Log:

- Pin V7.4 renamed to pin V7.8 and pin 7.8 to pin V7.4; [V1.3]

Modification in comparison to the original schema (Mr.Class A)

→ **Fuses on secondary**: two slow-blow type fuses between tranny and rectifier section according to valvewizard.com. It safes primarily the mains transformer from severe failures in the cas of shorts within the HT circuitry

→ **Improvements on Standby-Switch (SW3):** According to valvewizard.com recommendation, SW3 does affect HT and heater supply. On the HT-side, the switch is, bypassed with a bleeding resistor, in order to minimize huge peaks while turning on. On the heater supply side, the voltage will be lowered approx 40-50%. This should increases the lifespan of valves dramatically.

20080316_Badhotsnake_Ver01.3.vsd

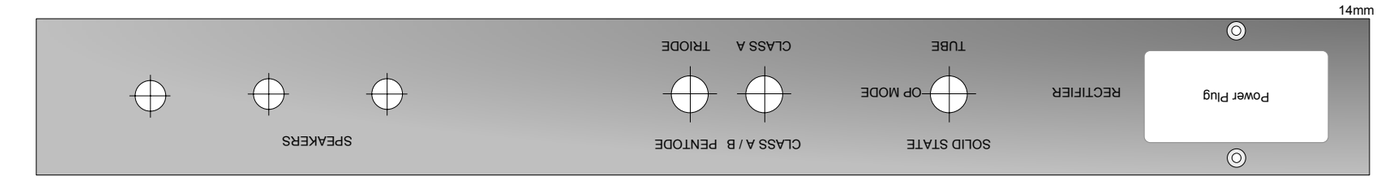
Poweramp and PSU

A BadCat HotCat 30HD Clone

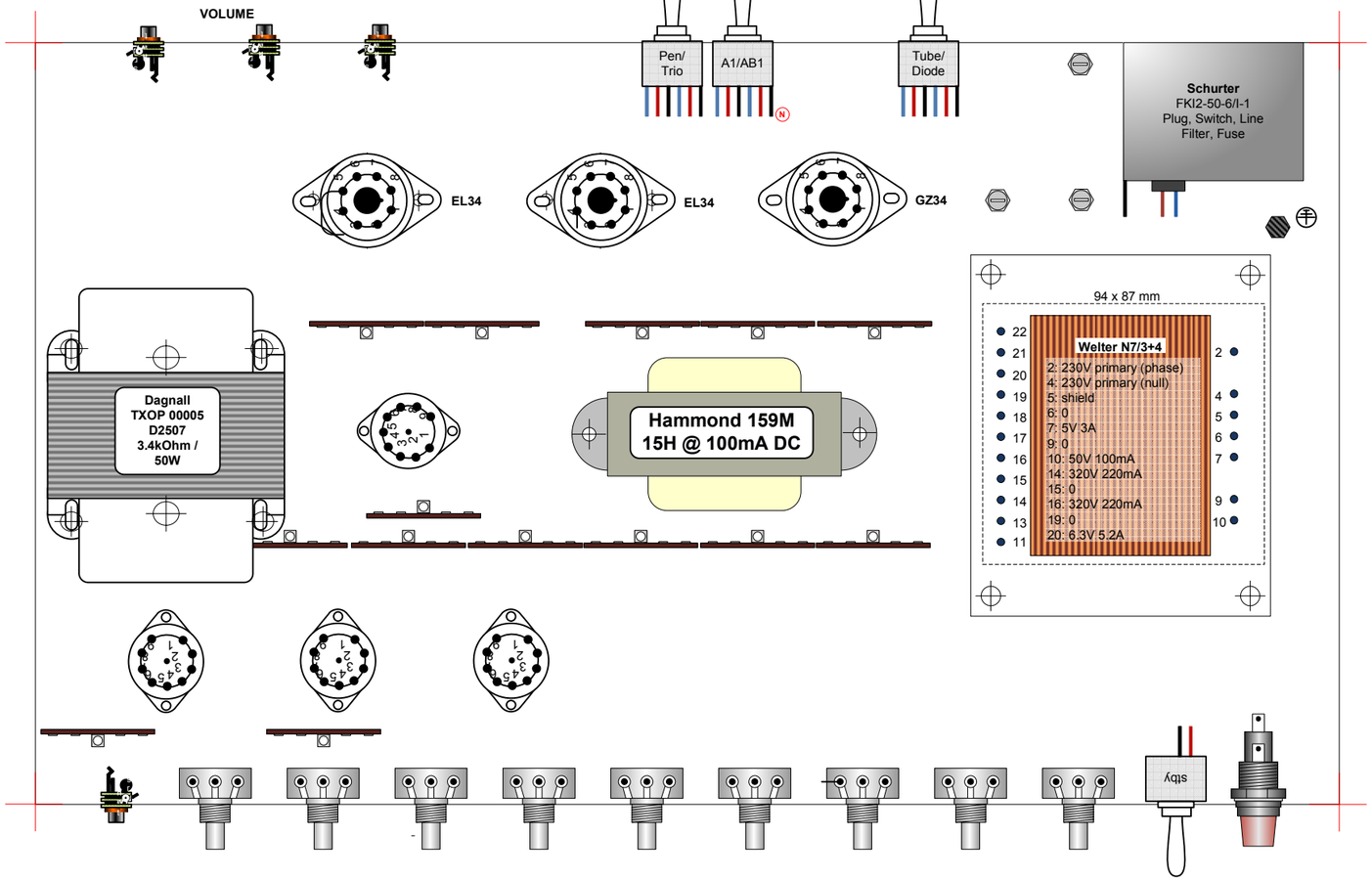
Martin Dohrau, CH-8143 Stallikon

Version 1.3 Freitag, 4. April 2008

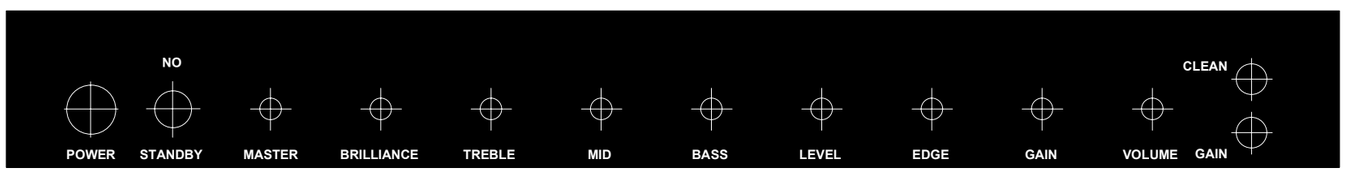
Rear Panel



Chassis



Front Panel



VOLUME GAIN EDGE LEVEL BASS MID TREBLE BRILLIANCE MASTER STANDBY POWER

Bottom

Chassis Hammond
AL1444-30
435x254x51cm

Scriber Template

20080316_Badhotsnake_Ver01.3.vsd

BadhotSnake

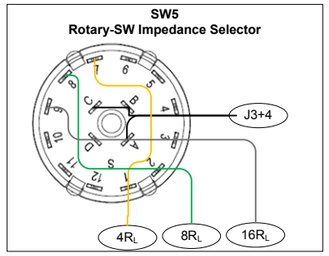
A BadCat HotCat 30HD Clone

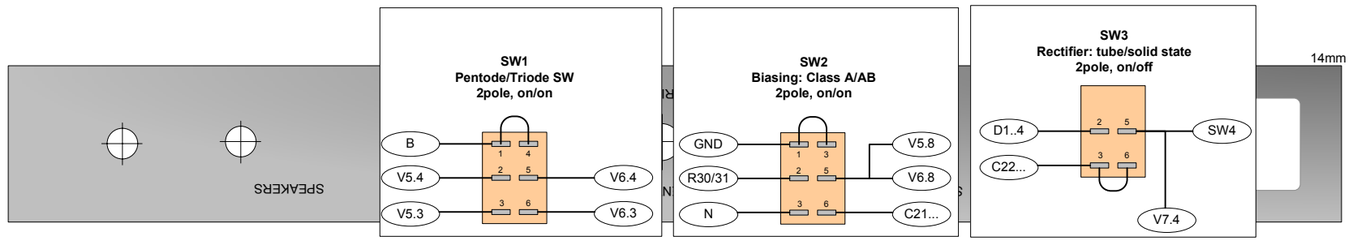
Martin Dohrau, CH-8143 Stallikon

Version 1.3 Freitag, 4. April 2008

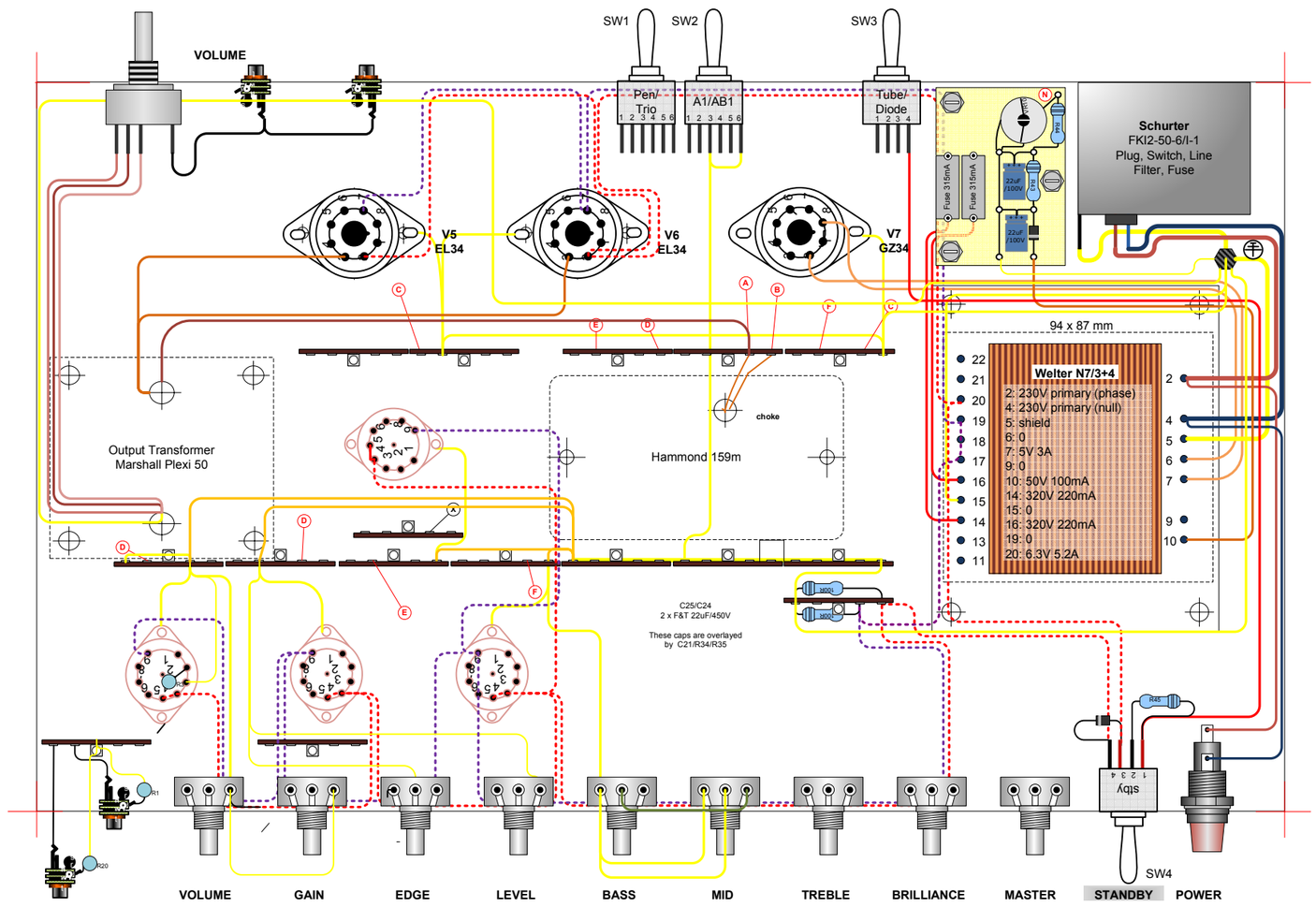
Heater+Bias+Mains+OT

Rear Panel

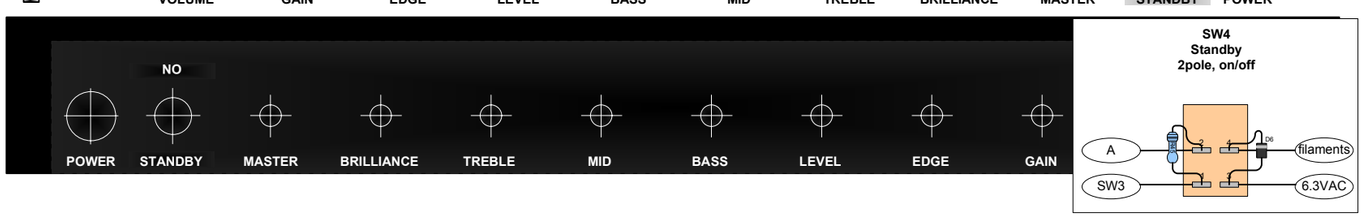




Chassis



Front Panel



Layout::
Bottom View

Front:
perspective as mounted

Note:
Unfortunately i've started to drillthe rear panel the wrong way around. Therefore the layout is now directed similar to Mr.ClassA's amp.
As a consequence the front is mirrored because the chassis is mounted on the bottom of the amp cabinet

Chassis Hammond
AL1444-30
435x254x51cm

Bottom

20080316_Badhotsnake_Ver01.3.vsd

BadhotSnake

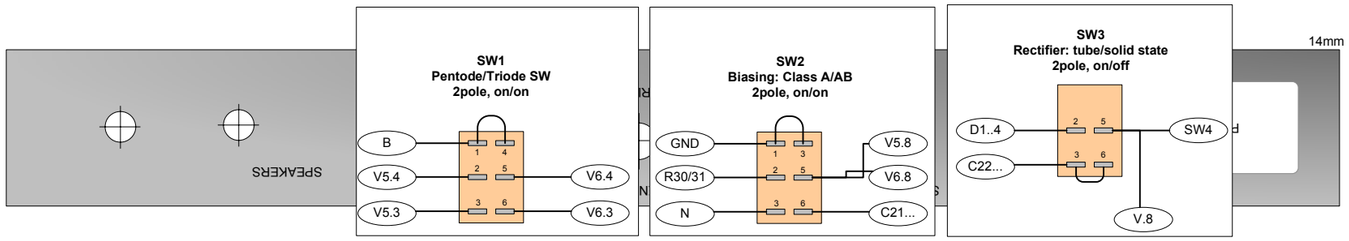
A BadCat HotCat 30HD Clone

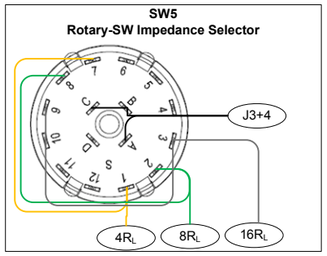
Martin Dohrau, CH-8143 Stallikon

Version 1.3 Freitag, 4. April 2008

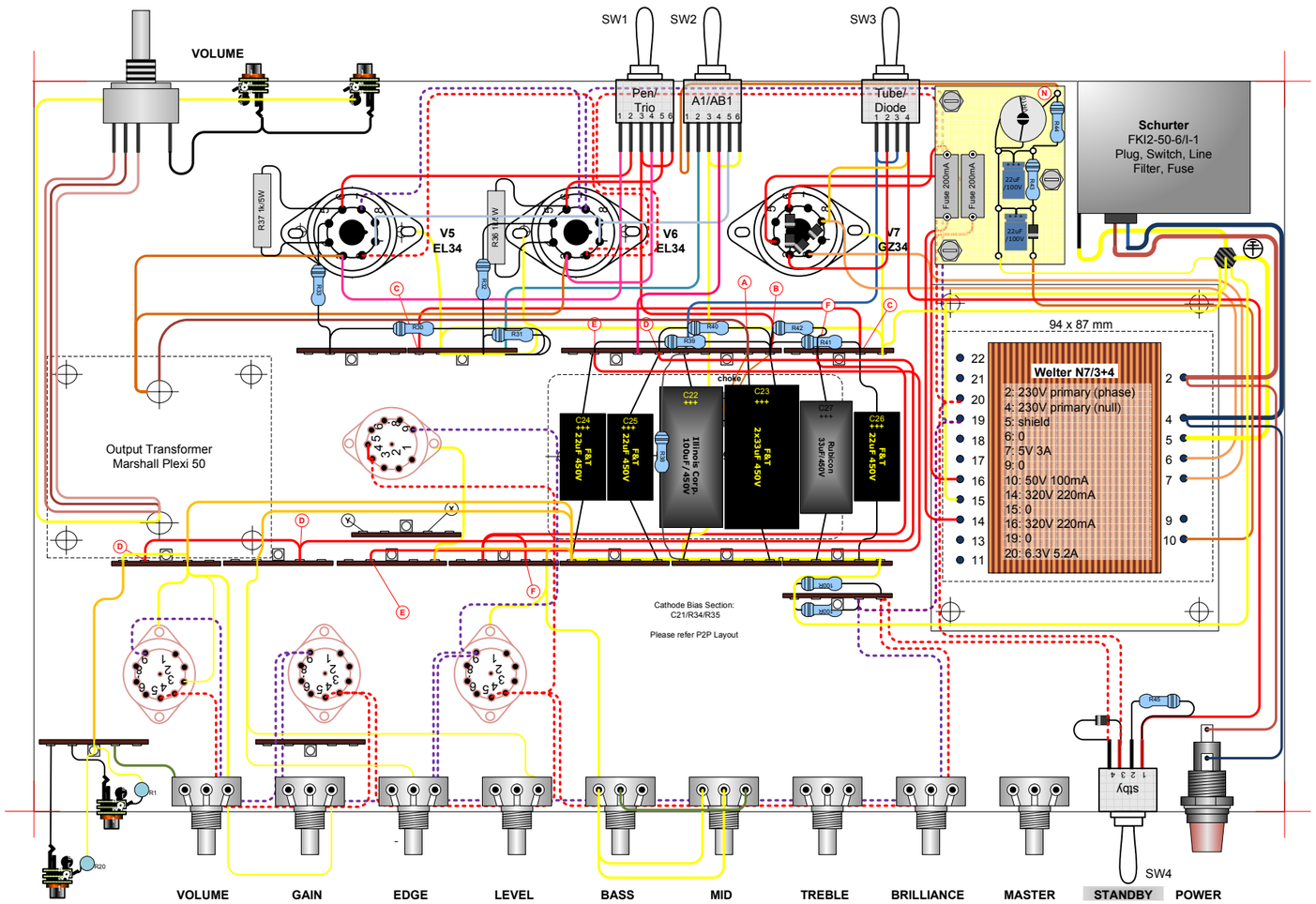
HT PSU+PWR Amp

Rear Panel

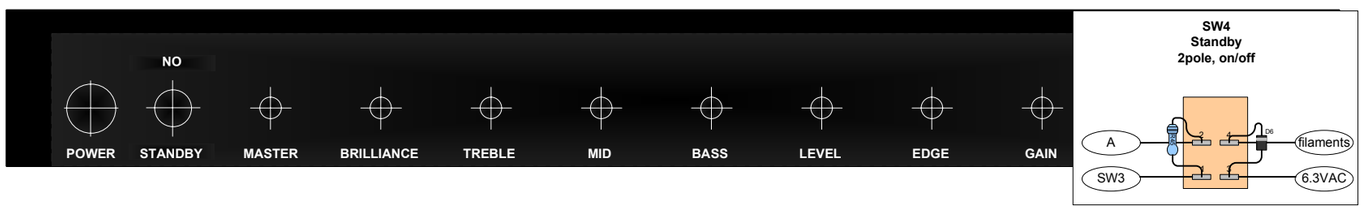




Chassis



Front Panel



Layout::
Bottom View

Front:
perspective as mounted

Note:
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As a consequence the front is mirrored because the chassis is mounted on the bottom of the amp cabinet

Chassis Hammond
AL1444-30
435x254x51cm

Bottom

20080316_Badhotsnake_Ver01.3.vsd

BadhotSnake

A BadCat HotCat 30HD Clone

Martin Dohrau, CH-8143 Stallikon

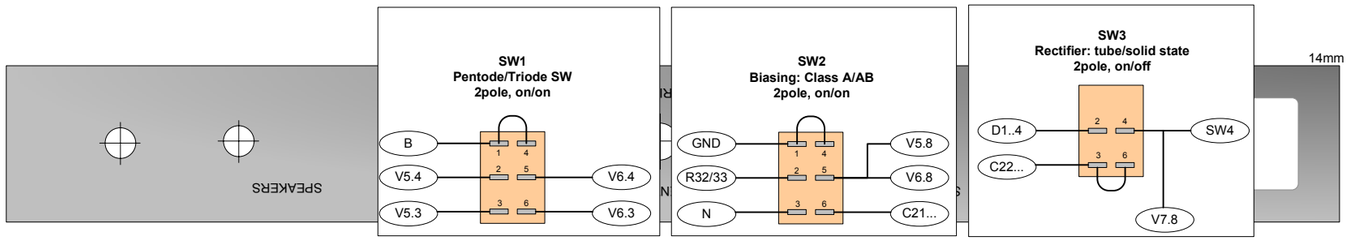
Version 1.3 Freitag, 4. April 2008

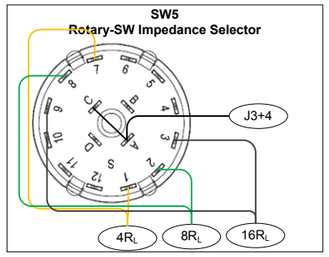
Change Log:

- Various parts are now rearranged as implemented [V1.3]
- tube socket rewired (pin 7.4→7.8 and 7.8.→7.4), [V1.3]

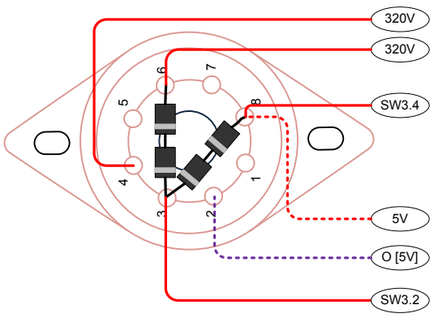
P2P LAYOUT

Rear Panel

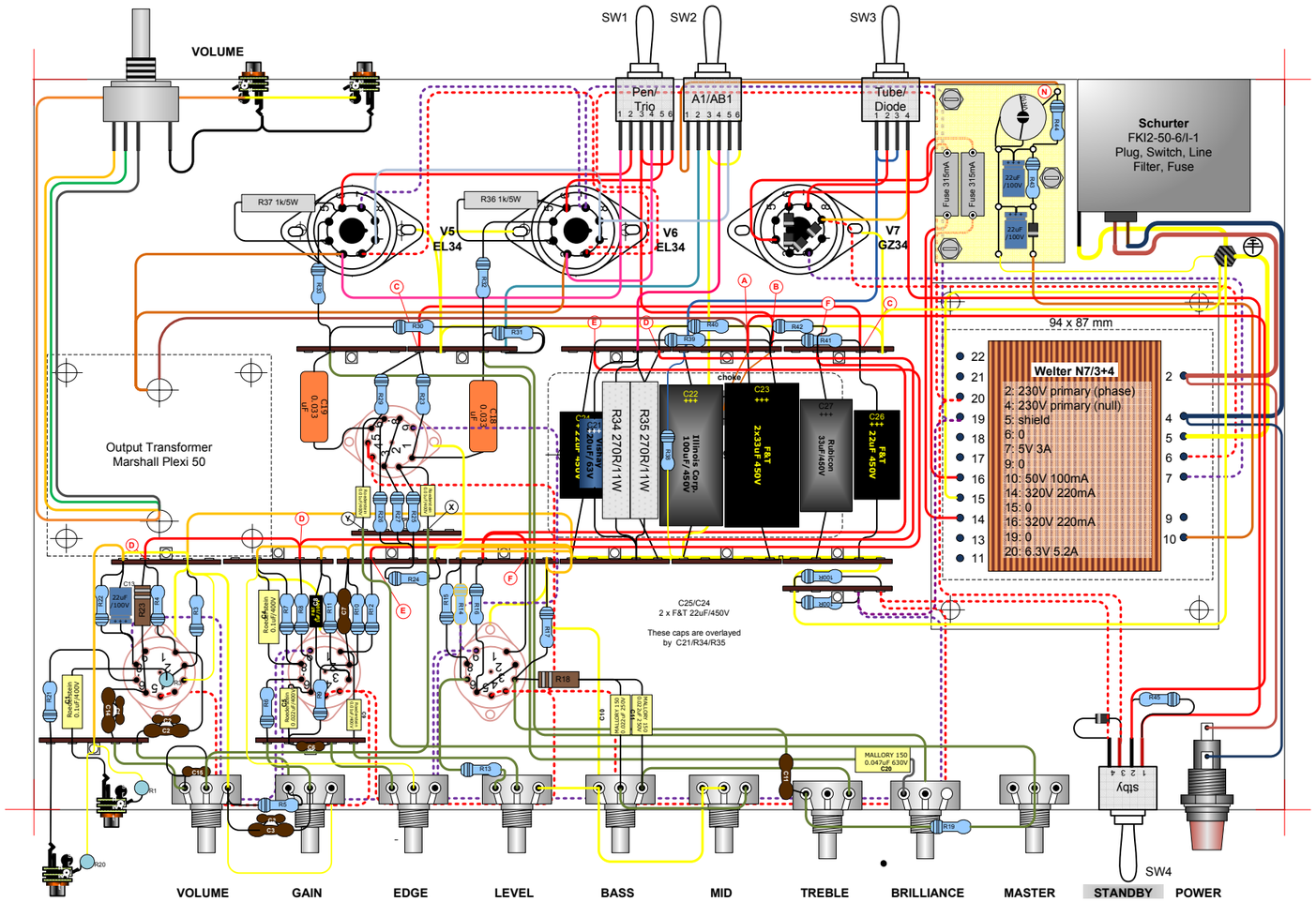




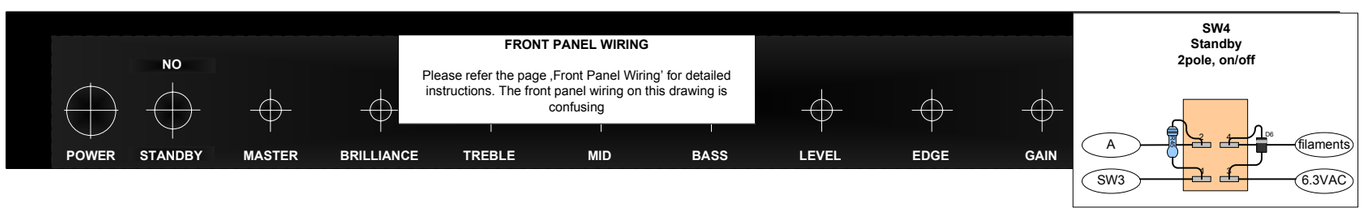
Detail on Tube Socket V7



Chassis



Front Panel



Bottom

Layout::
Bottom View

Front:
perspective as mounted

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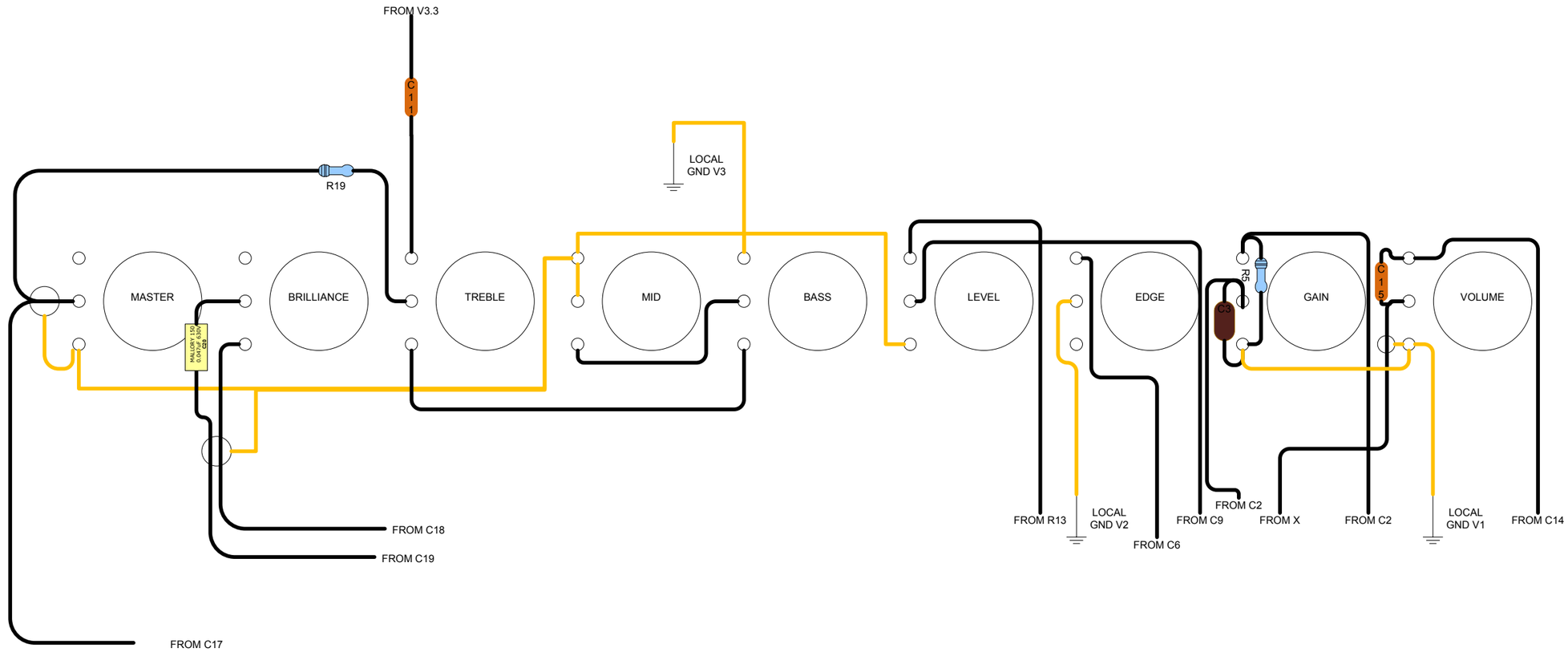
Chassis Hammond
AL1444-30
435x254x51cm

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BadHotSnake

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Front Panel Wiring



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