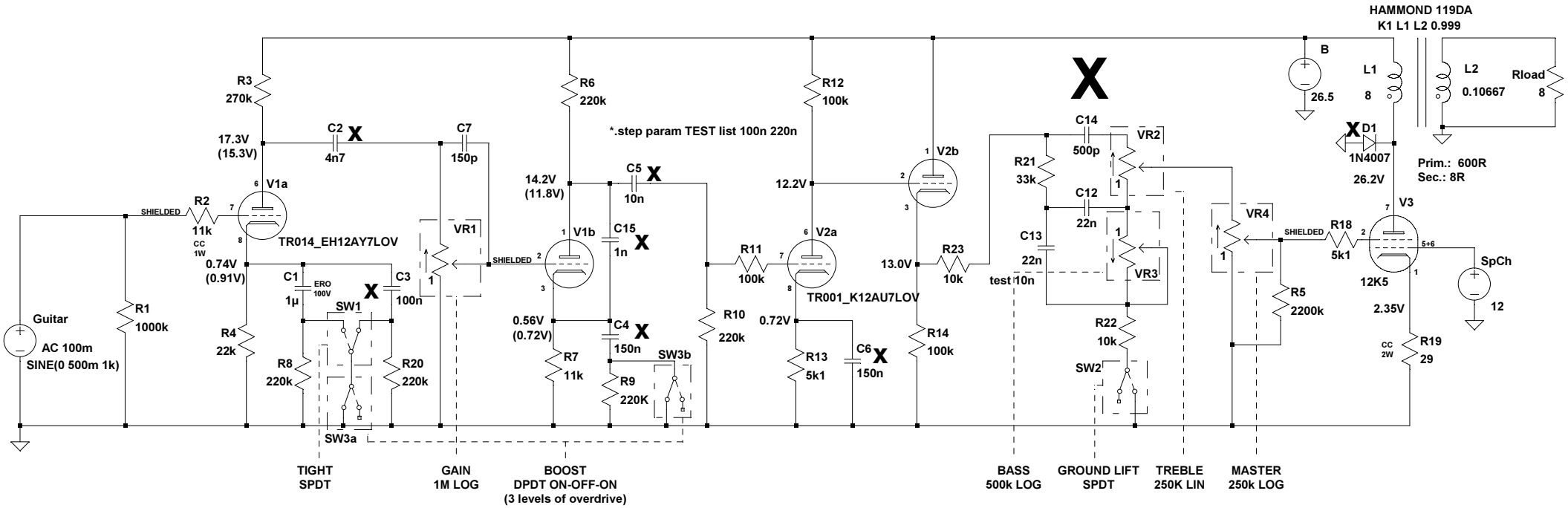
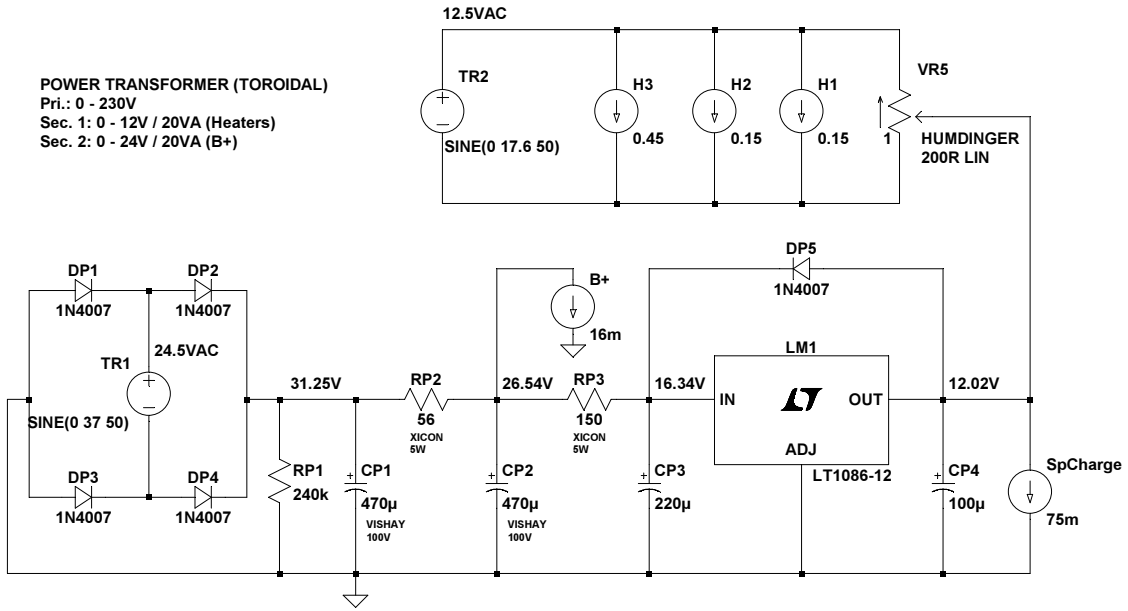


POWER SUPPLY

IN: 233 VAC

POWER TRANSFORMER (TOROIDAL)
Pri.: 0 - 230V
Sec. 1: 0 - 12V / 20VA (Heaters)
Sec. 2: 0 - 24V / 20VA (B+)




```
.ac dec 20 100 10k
SIMUL   ;tran 4m
        ;op

GAIN    .param GAIN .5

MASTER  .param MVOL .5

        .param BOOST 1; 1=ON
        .param TIGHT 0 ; 1=ON
TONE    .param LIFT 0; Bypass=1
        .param TREBLE 0.5
        *.STEP param TREBLE 0 1 0.5
        .param BASS 0.5
        *.STEP param BASS 0 1 .5
```

TUBING:
V1 = EH 12AY7 (12AU7)
V2 = EH 12AU7
V3 = GE 12K5

MODIFICATIONS:
1- TB tonestack
2- Bypass caps
3- Coupling caps back to original
4- OT protection

Measured output power:
CLEAN max. 20mW @ 16R
MAX OUT 110mW @ 16R

ALL RESISTORS CARBON COMPOSITION 1/2W
ALL COUPLING CAPS VISHAY MKT1813 400V
UNLESS SPECIFIED

MEASUREMENTS:
- Performed after 5' heat up
- 16 Ohm load resistor
- No input signal
- GAIN & VOL turned to zero
- 100mVpp@1kHz for output measurement

PROJECT: 12K5 SE - AMP		
DESIGN TITLE: FINAL CIRCUIT		
AUTHOR: Laurent	DRAWING NUMBER	REV: 3R
DATE: 2015.09,25	SIZE: A4	SHEET: 1 of 1

--- D:\Loisirs\Guitare\Projects\#3-12K5-SE\12k5_V3R.asc ---