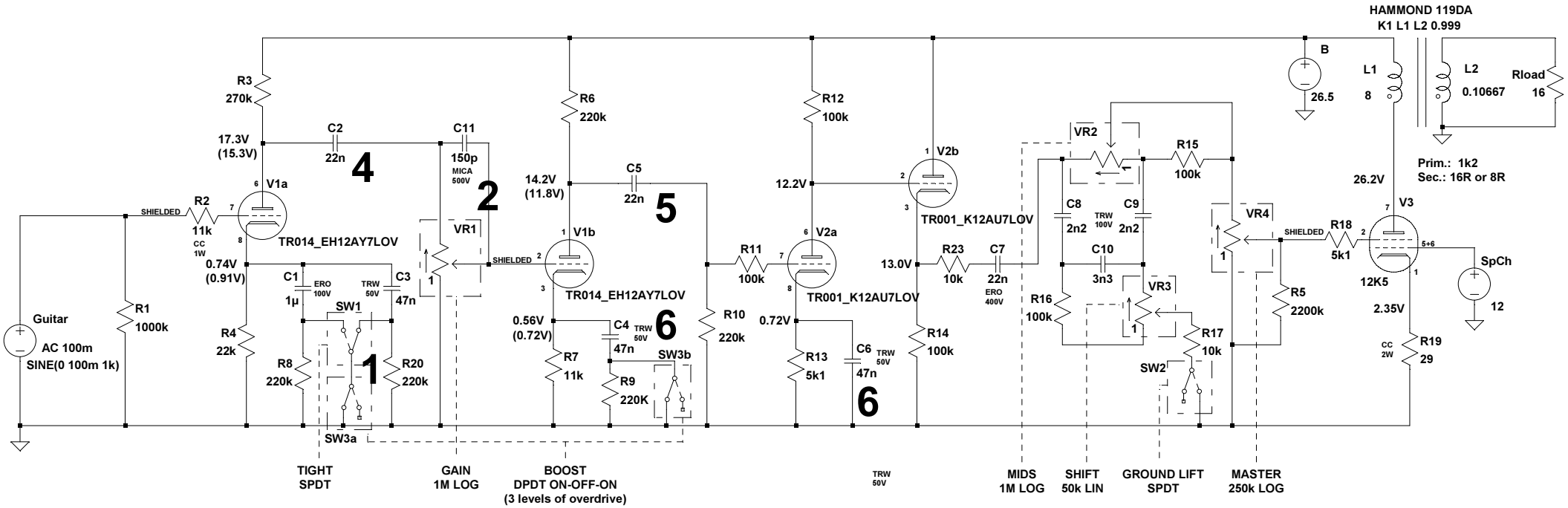
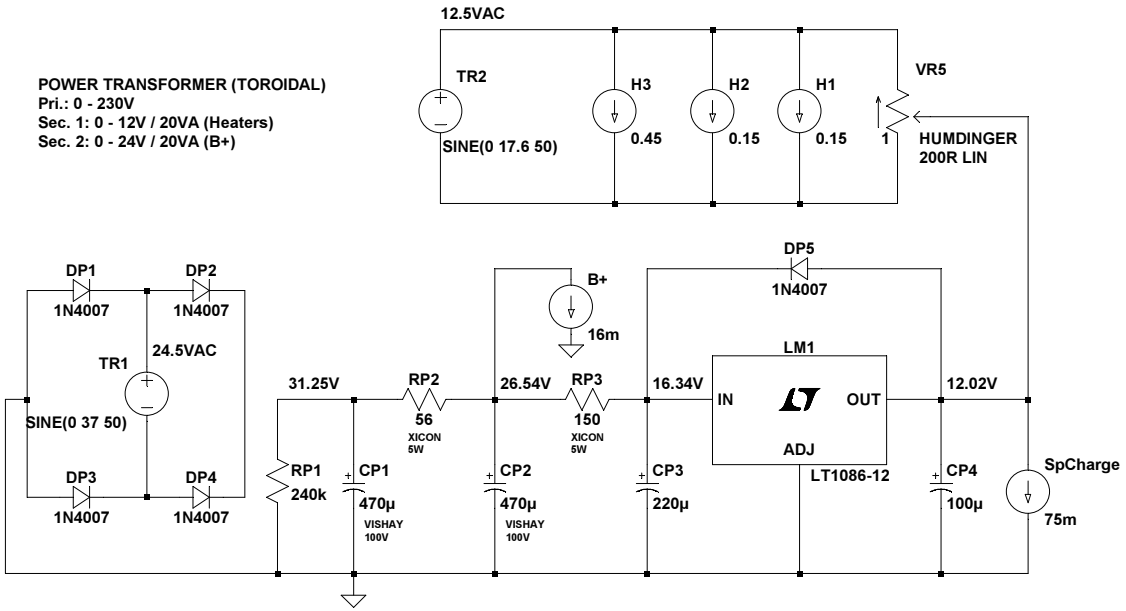


POWER SUPPLY

IN: 233 VAC

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




```
.ac dec 10 10 20k
SIMUL   ;tran 8m
        ;op

GAIN    .param GAIN .5

MASTER  .param MVOL 1

        .param BOOST 1; 1=ON
        .param TIGHT 0; 1=ON
TONE    .param LIFT 0; Bypass=1
        .step param MIDS 0 1 .1 ;wiper 0=cut
        .param SHIFT 0.4 ;Shift wiper
```

MODIFICATIONS:

1- 1st stage bypass cap concept
2- Removed bright switch
3- 12AY7 as V1 tube
4- C2 raised from 4n7 to 22n
5- C5 raised from 10n to 22n
6- C4 & C6 reduced from 220n to 47n

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

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

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: FIRST AMP		
AUTHOR: Laurent	DRAWING NUMBER	REV: 3Q
DATE: 2015.03.27	SIZE: A4	SHEET: 1 of 1

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