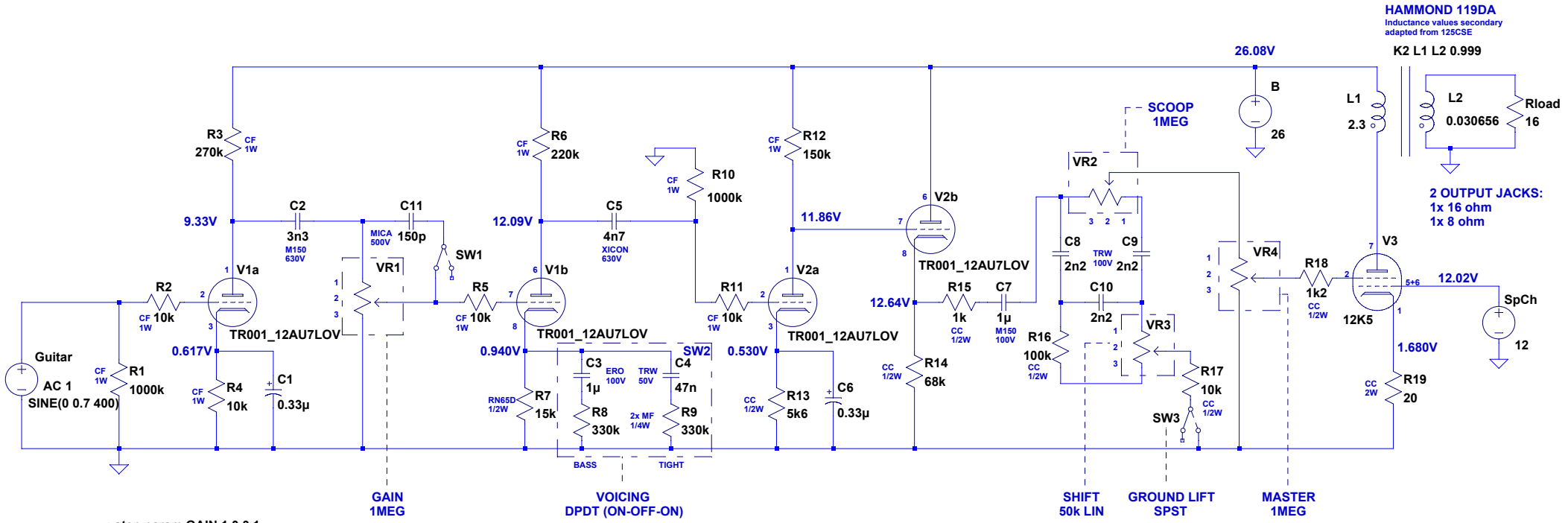


GAIN POT

```
;.step param GAIN 1 0 0.1
.param GAIN 0.5
```

TONE

```
.param BRIGHT 0 ;1=bright switch on
.param LIFT 0 ;Ground lift switch
.step param SCOOP 0 1 0.1 ;wiper
.param SHIFT 0 ;Shift wiper
;.step param SHIFT 0 1 0.1 ;Shift wiper
```

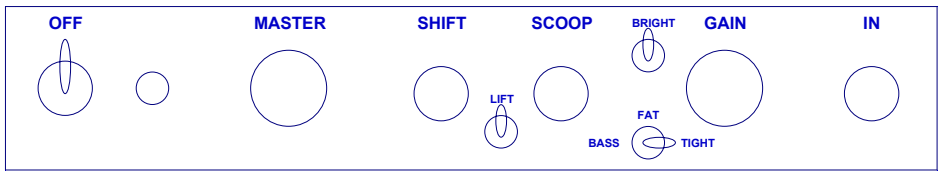
MASTER

```
.param MVOL 0.2
```

SIMUL

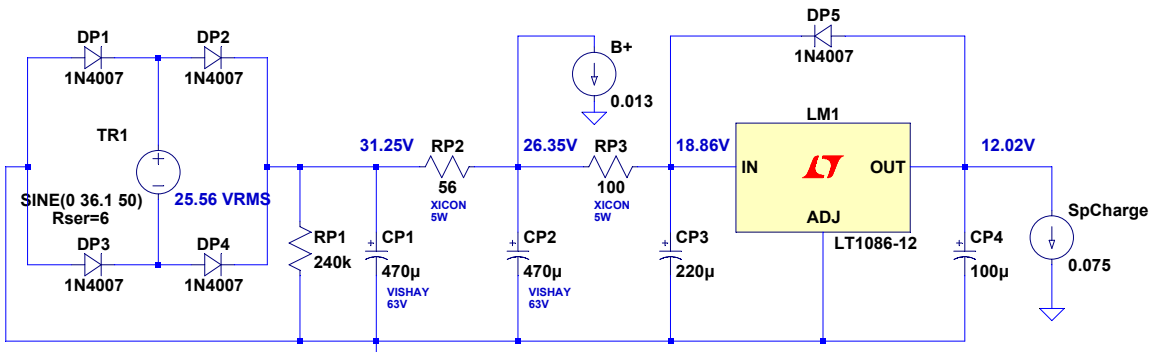
```
.ac dec 10 10 20k
;tran 25m
```

FRONT PLATE



POWER SUPPLY + SPACE CHARGE GRID

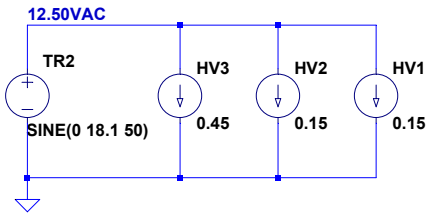
TR1: 220VAC - 24VAC / 10VA (0,42A)



Currents calculated from experiment values

HEATER AC SUPPLY

TR2: 220VAC - 12VAC / 20VA (1.66A)



MODIFICATIONS:

1- Only carbon comp resistors after 2nd stage
2- Only carbon film resistors in first 2 stages
3- Tone stack after cathode follower
4- Reduced first coupling cap C2 to 3n3
5- Added a 1k resistor R17 at output of CF
6- Added bright switch for clean playing
7- Removed bypass cap 12K5

PROJECT: 12K5 SE - AMP		
DESIGN TITLE: TEST CIRCUIT FINAL VERSION BEFORE BUILD		
AUTHOR: Laurent	DRAWING NUMBER	REV: 3F
DATE: 2014.05.21	SIZE: A4	SHEET: 1 of 1

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