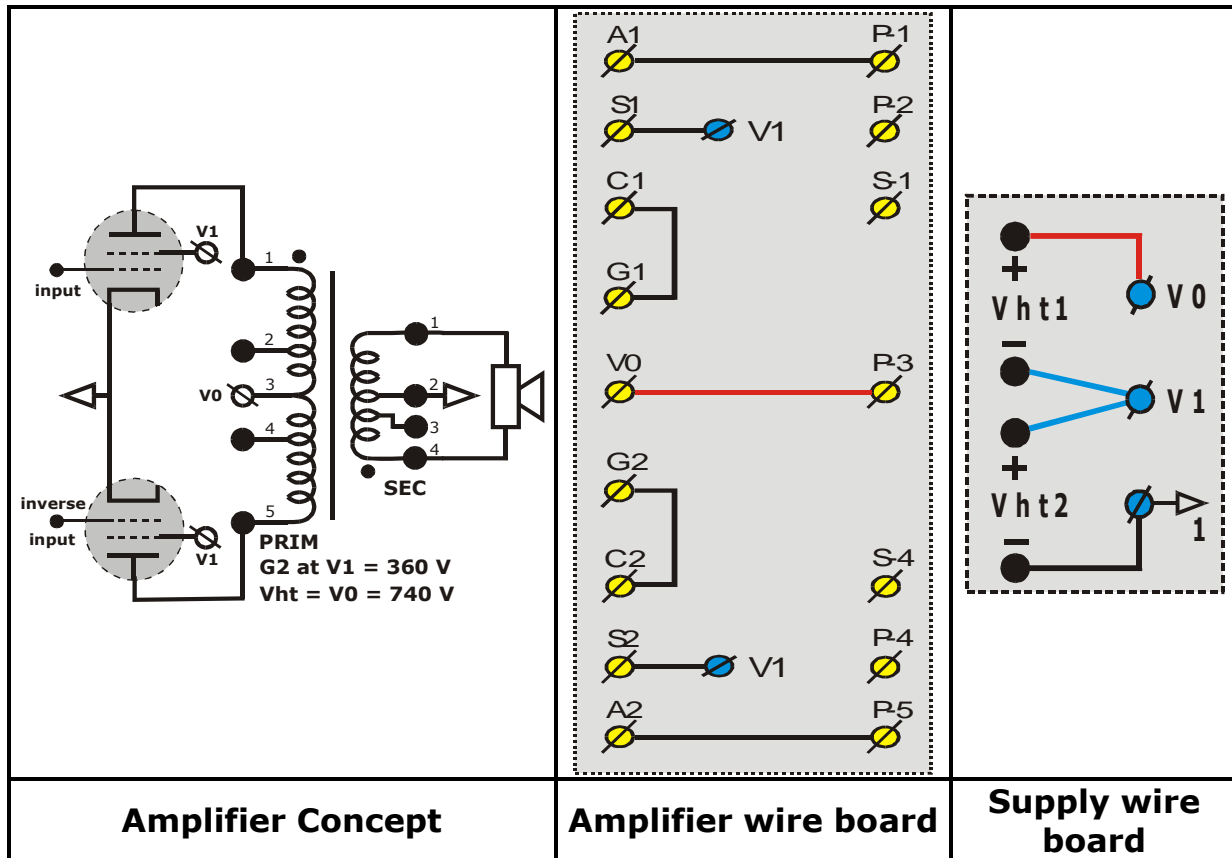


# THE VANDERVEEN PROJECT STANDARD FORM



Number, Name	19 : PP Pentode @ 740 V	Units
$I_0$ per tube	25 (EL34); 50 (EL156): see text *	[mA]
Connect $4 \Omega$ to	sec. taps 1 and 2; $Z_{aa} = 8000 \Omega$	[ - ]
P-max @ 1 kHz	78-continu, 91-peak	[Watt]
f-lowest @ P-max	24	[Hz]
-3dB freq-range	8 Hz – 20 kHz	[Hz-kHz]
A(unloaded)	147	[ - ]
A ( $4 \Omega$ loaded)	12	[ - ]
Z-out	45	[ $\Omega$ ]
DF ( $8 \Omega$ reference)	0.18	[ - ]

## Remarks:

- 1) Very powerful and dynamic amplifier
  - 2) Small damping factor, some overall negative feedback is advised
  - 3) Bass sounds uncontrolled and weak, very suitable for guitar
  - 4) Delivers a dynamic loud and not very open soundstage
- \*) The quiescent current strongly depends on the tubes used. With EL34 a good choice is 25 mA per tube. Select 40 mA with 6550 and 50 mA with EL156 or KT90 or KT99.