

information is found in Application Note AN7.

To compare a measurement from Scheme 1+2 with Scheme3, you need to compensate the measured results with half the heater voltage.

For instance the same 300B tube at 300Volts 60mA, will need -58V Grid in Scheme 1, but -55.5V in Scheme 3. This is a small difference for tubes with a relatively large grid Voltage, such as 300B, or even 300B-XLS at -100V. However, this becomes a large difference for tubes such as 20B, and even more for tubes as 30B which have only a few Volt grid bias. So if you experience another bias of the tube, as expected by the factory test data, often the explanation is found in the different test schemes.

Revisions Date Name Name: **APPLICATION NOTE AN08** Attention: **Grid Voltage Measurement Methods** Date Name Drawn 27.10.2012 JW You may publish this page, but only unchanged and with our company as source. AC and DC heated Dipl. Ing. Jac van de Walle Any form of commercial use needs our written permission Page: Copyright www.jacmusic.com **MUSIC** JAC Music Company * Horber Steige 25 * Sulz * Germany Drawing Nr.: 1 of 1

SCHEME 3

Heater Voltage

-2.5V

Grid Voltage

Grid Voltage

SCHEME 1

+2.5V

Grid Voltage

Heater Voltage

SCHEME 2