

Triode Spirit 2300B – 2A3 Black Shadow



The attraction carried on by the great audio triodes with direct heating of the filament is growing more and more. Now, it is not possible to be ignorant of their qualities without being out of the High Fidelity world. Actually, 3 types are readily available covering virtually all requirements. They are the 2A3, the 300B and the 845.

Understand that they were created long time ago for the first talking movies, we must respect them in order to arrive at the musical perfection they are able to provide.

Those triodes were tyrannical with the technicians who are faced in designing an amplifier. The design around the tube must be perfect or some default will emerge and deteriorate the listening result, mainly by hum, and /or a deficiency of the bass and treble.

If the cost needs to be lowered it is easier to use the symmetrical mounting (Push Pull) which does not require the same care. Each model of the TRIODE SPIRIT line has a regulated power supply which provides a constant voltage in all circumstances on all the amplifier stages. The regulated power supply, expensive to realize for the 2A3, needs the use of 3 tubes to work properly.

Response in low frequencies.

The size and the weight of the transformer are decisive because it conditions the value of the primary inductance which must be as high as possible. The output transformer as a vital part must according be designed at its best, taking into account the finest technology, while respecting the rules of art.

The treble response.

The dynamic input capacitance (about 50 to 100pF) of the power triode requires a preamplifier stage with low output impedance - practically a power stage - able to provide current in high frequencies, in a sort forcing the output triode to accept the modulation against its will. To obtain this, we designed a completely innovative input stage; it consists of 2 tubes put in a configuration of ultra linear μ follower pentode. This stage presents the double benefit to have very low output impedance (about 100 Ohms) and a negligible distortion.

This feature is valuable because it passes on an ultimate profit: it does not change the original sound of the output triode by an inopportune compensation effect. This feature does not alter the special sound of each triode and allows making auditory comparisons really significant between tubes of different origin. For this last reason, we named this line of amplifiers "TRIODE SPIRIT" hopping to show the devoted care, the quasi religious character of our reverence for the great triodes of the past.

The « **Black Shadow** » finish requires a precious material for the making of the chassis. It is made of polished stainless steel. All the components of the amplifier are reflected on the bright chassis like in a mirror. The pleasure of the owner of such a high musicality and quality amplifier is increased by that such flattering and resistant finish.

Power Requirement	230 V 50 Hz / 117 V 60 Hz or Request
Power Consumption	200 Watts
Output Power	2x3 Watts
Input Sensitivity	400 mV
Total Harmonic Distortion	0.5 %
Vacuum tube used	2x2A3 - 2xGZ34 - 2x6Y6 - 5xEF184.6EJ7
Weight Mirror	15 Kg

LABORATOIRE

J.C. Verdier

5/7 rue d'Ormesson
93800 Epinay sur Seine - FRANCE
Phone : (33) 1 48 41 89 74
Fax : (33) 1 48 41 69 28
Web : <http://www.jcverdier.com>
Email : jcverdier@jcverdier.com

**High-End Turntables
& Vacuum Tubes
Amplifiers**