



OWNER'S MANUAL

Almost 30 years ago Great American Sound Co. introduced the original legendary Son of Ampzilla amplifier designed by James Bongiorno. Many tens of thousands were produced and sold. The popularity of this product enamored it with a kind of mystic reputation in that most believed that this amplifier had a smoothness & openness akin to the very best tube amplifiers yet retained the detail and “punch” of the best of the solid state amplifiers. As a matter of fact, the vast majority of these units are still in use today, which speaks volumes about the sonic performance and the product reliability.

After leaving GAS Co. James Bongiorno founded a new company called Sumo, with the intention of furthering the state of the art yet again. The resulting Sumo amplifiers were the very first, and up to now the only ones, to employ a concept called the full differential, full complementary, balanced bridge. And as of this date, no other company or designer has yet been able to figure out how to make this concept work.

Spread Spectrum Tech. Inc. proudly introduces the 2nd in a new series of amplifiers, the first being the Ampzilla2000, and now its prodigy, the Son of Ampzilla2000. Compared to the original Son of Ampzilla (Actually there really is no comparison) the new Son is the third generation of concept design after the original SAE-GAS designs. Firstly, it is completely balanced input to output with full four quadrant differential push-pull feedback from both sides of the speaker. Secondly, each channel has twice as many power transistors as the original (and they are bigger ones too). Thirdly, the new Son is all servo controlled whereas the original was not. Fourthly, the power supply has 3 times more capacity than the original. Indeed, the power transformer in the new Son is rated at 2000VA with totally independent windings and power supplies for each channel. Finally, as an improvement over its bigger brother, the input single ended to balanced convertor has been totally eliminated wherein the new son uses automatic switching to select either balanced or unbalanced inputs. Therefore, there is no need for a switch to select between the two.

The power supply capacity is exactly the same as in the Ampzilla2000. In addition, our unique grounding procedure insures absolutely no ground loops and the lowest wide band noise ever seen in a power amplifier. No other amps in the universe are even close.

The circuit design of the new Son reflects the attitude that “if it ain’t broke, don’t fix it”. In other words, the design is very traditional with more detail to refinements instead of exotic new circuitry. Since specifications of performance do not necessarily relate to the sonic performance, we are dispensing with these parameters. Needless to say, most good amplifiers have low distortion, wide bandwidth, and flat frequency response. In general, this doesn’t tell you much. The new Son has all these good qualities too. However, in the area of noise

performance, like the Ampzilla2000, the new Son has no equal in this universe. Wide band noise is less than 20 microvolts at the output (80kHz filter). This correlates to less than ½ microvolt at the input which is lower than virtually every PHONO stage input made on earth. Since most listening is done at very low power levels, noise modulation is of paramount importance.

The nominal power output of the new Son is more than the original i.e. 100 watts/channel into 8 ohms and that's somewhat conservative. In addition, the new Son will drive virtually any load in existence (no it won't drive ½ ohm loads and be happy). The smooth distortion characteristics of the Son are reminiscent of many fine tube amplifiers and therefore we call our new design -----

TUBISTOR

We believe that this new amplifier combines the best sonic virtues of both tubes and solid state without making any compromises. Smoothness and not harshness: detail rather than vagueness: solid low end power rather than muddiness & mush. For those of you who don't need monster power, the new Son might be a choice for your consideration.

US Retail price---\$3250.00 Retail prices will be higher outside the US.

Visit our web site for performance graphs and much more information including awards, show photos, history, white papers and our other products.

ADDITIONAL FEATURES

Combo input jack---accepts either balanced XLR or mono phone jack for automatic switching between balanced & unbalanced signals. 2 gold plated phone plugs supplied.

Input impedance--- 33kOhms on each leg of balanced inputs
33kOhms for mono (unbalanced input)

Dual peak LEDs

All input and output connectors are gold plated

Gain --- Balanced inputs, 40X, +/- .707VRms for 100 watts
Unbalanced inputs 20X, 1.414VRms for 100 watts

100,000 ufd. Of power supply capacitance in twin supplies isolated for each channel.

Front end voltage amplifier power supplies completely regulated.

All 14 Gauge steel chassis construction, powder coat finish.

Circuit breaker power switch.

Turn on surge relay.

Amplifier weight—52 pounds, shipping weight—62 pounds.



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DO'S AND DON'TS

Do not spill liquids on the amplifier. It is allergic to liquids.

Do not under any circumstances try to parallel or series connect the output terminals or connect the output terminals to each other in ANY combination.

The amplifier is **ALREADY** a balanced bridge and CANNOT be further bridged. Do **NOT** under any circumstances use any kind of a common connection between either inputs and outputs OR to the chassis. This will cause fuse

blowing and/or destruction of the internal grounding resistors which will necessitate return to the factory for service.

Do not plug in input and/or output cables while the amplifier is on.

Be extremely careful with the 18K gold plated escutcheon on the front panel. It is easily marred and scratched. If you want to keep it protected, then leave the protective covering on.

The Son amplifier has no fan and therefore requires adequate ventilation. DO NOT obstruct the airflow over the heat sink fins.

In order to prevent possible vibration, do not place the amplifier on a hard solid surface or hard shelf. Use a piece of indoor/outdoor carpet (or similar material) as a cushion.

WARRANTY

The Son of Ampzilla2000 is warranted against all manufacturing defects for a period of 5 years, limited. SST INC. will provide free of charge all parts and labor. Customer will assume all shipping charges.

An RMA is mandatory for all returns.