SPECIFICATIONS

Frequency Response 20 Hz - 40 kHz Input Impedance 10KΩ balanced

 $10K\Omega$ unbalanced

THD + Noise <0.7% typical

Noise Floor -78 dB

Subwoofer Slope: -18 dB/Octave

Max. Subwoofer Gain: +20 dB Indicators Active LED

2: Analog VU Meters (Ref. +4 dBm)

Sub Clip LED

Input/Output jacks XLR balanced

1/4" unbalanced

Dimensions 1.75" X 6" X 19"

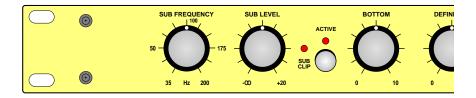
(89mm X 162mm X 482mm)

Weight 6 lbs. (2.72 Kg)

Power 120VAC (230VAC) 15VA



RP562 Stereo Tube Sonic Exciter







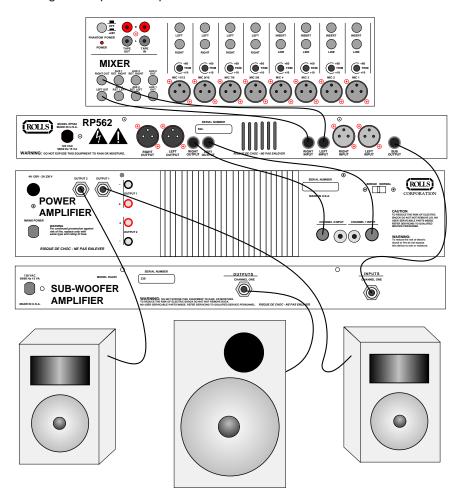
Rolls Corporation
Salt Lake City, UT
12/97

OWNERS MANUAL

STEREO CONNECTION WITH MONO SUB OUTPUT

The diagram below shows how to connect the RP562 in a stereo configuration with a mono sub-woofer output.

Again, remember to apply power to the RP562 and other devices before turning on the power amplifiers.



Thank you for your purchase of the Bellari RP562 Stereo Tube Sonic Exciter. The RP562 Stereo Tube Sonic Exciter is a two channel frequency compensation device designed to add life and animation to your sound.

WHAT IS A SONIC EXCITER, AND WHY USE TUBES?

The frequency range that a human ear can detect is roughly 20Hz to 20kHz. However, the frequency response a normal speaker can effectively reproduce is much, much less. Additionally, speakers add distortion and phase changes that make the sound different from that of the original material.

A sonic exciter restores clarity and presence to the processed signal by correcting phase changes and harmonic structure differences. In other words, it puts the components of the sound back where they belong.

Using a vacuum tube circuit in this configuration not only restores the clarity lost in previous processes, it adds warmth and a slightly compressed attribute to the program material. This addition to the sonic excitement process makes the final sound even larger, cleaner, and clearer.

All of this magic is done by the use of all-pass filtering, frequency compensated gain adjustment, and frequency compensated domain delay. What this means to you is the elements of your sound are fanned out like a deck of cards, making each sound more audible and distinct, reducing the need for high volume and radical equalizer adjustment. And because of the unique tube design, the RP562 also has the benefit of natural tube compression. This makes a more realistic and pleasing sound. Also because of the all class "A" design, there is enhanced second harmonic content, making the RP562 even more smooth and musical. This product has been designed for years of useful service. We take pride in our products and appreciate any comments you may have regarding them.

Please read the following manual carefully to ensure proper operation, and enjoy your new RP562.

INSPECTION

1. Unpack and Inspect the RP562 package

Your RP562 was carefully packed at the factory in a protective carton. Nonetheless, be sure to examine the unit and the carton for any signs of damage that may have occurred during shipping. If obvious physical damage is noticed, contact the carrier immediately to make a damage claim. We suggest saving the shipping carton and packing materials for safely transporting the unit in the future.

2. Please complete the Warranty Registration Card and return it to the factory.

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FRONT PANEL DESCRIPTION

SUB FREQUENCY: Sets the highest frequency allowed out of the Sub Woofer Outputs. This frequency is adjustable between 35Hz and 200 Hz.

SUB LEVEL: Adjusts the output level of the Sub Woofer Outputs. The level is adjustable between - infinity (off) and a gain of + 20 dB. SUB CLIP LED: When lit, this LED indicates the signal level is 3 dB below clipping and there may be distortion in the Sub Woofer circuits. ACTIVE SWITCH: Engages and disengages the RP562 process. When out, the unit is bypassed.

BOTTOM: Controls the low frequency cut/boost (flat or no cut/boost is at about 11 o'clock). There is a 0 to 1/2 turn spectrum spread from midrange to bass with this control as well as amplitude control.

DEFINITION: Controls the amount of sonic clarity and sound spread. Setting it on 0 is flat response and minimal spread, on 10 is maximum spread and definition. This is also a good setting for constant dispersion horns.

LEFT/RIGHT LEVEL LEDS: Indicates the output level of each channel. PWR LED: Indicates that the RP562 is connected to an AC outlet, and the power is turned on.

POWER SWITCH: Controls the primary power to the RP562.



REAR PANEL DESCRIPTION

POWER CORD: Provides power to the RP562 from a properly grounded ac outlet.

RIGHT/LEFT XLR OUTPUTS: Balanced outputs for connection a power amplifier.

RIGHT/LEFT 1/4" OUTPUTS: Unbalanced outputs.

LEFT/RIGHT 1/4" INPUTS: Unbalanced inputs for connection (normally) to the last device in the signal chain before the power amplifier.

LEFT/RIGHT XLR INPUTS: Balanced inputs. See above.

SUB OUTPUT: 1/4" unbalanced output for connection to the Sub Woofer power amplifier.



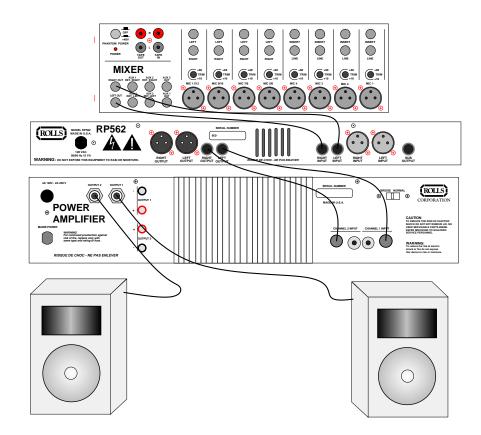
OPERATION

STEREO CONNECTION

The diagram shown below is a stereo connection for your RP562. We recommend you put the RP562 last in the signal chain. If you have an EQ or other processor after your mixer's main outputs, insert the RP562 between it and your power amplifier.

If you are connecting the RP562 into a home stereo system, insert the Sonic Exciter between your signal sources such as tuners, cassette players, CD players etc. and the power amplifier.

CAUTION: TO AVOID POSSIBLE SPEAKER OR AMPLIFIER DAMAGE, ALWAYS TURN ON THE RP562 AND OTHER PERIPHERAL EQUIPMENT BEFORE TURNING ON THE POWER AMPLIFIERS. ALSO TURN OFF THE POWER AMPLIFIERS FIRST, BEFORE TURNING OFF THE RP562 AND OTHER EQUIPMENT.



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LIMITED WARRANTY

This product is warranted to the original consumer purchaser to be free from defects in materials and workmanship under normal installation, use and service for a period of one (1) year from the date of purchase as shown on the purchaser's receipt.

The obligation of Rolls Corporation under this warranty shall be limited to repair or replacement (at our option), during the warranty period of any part which proves defective in material or workmanship under normal installation, use and service, provided the product is returned to Rolls Corporation, TRANSPORTATION CHARGES PREPAID. Products returned to us or to an authorized Service Center must be accompanied by a copy of the purchase receipt. In the absence of such purchase receipt, the warranty period shall be one (1) year from the date of manufacture.

This warranty shall be invalid if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility or an authorized Service Center, or any use violative of instructions furnished by us.

This one-year warranty is in lieu of all expressed warranties, obligations or liabilities. ANY IMPLIED WARRANTIES, OBLIGATIONS, OR LIABILITIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE ONE YEAR DURATION OF THIS WRITTEN LIMITED WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSO-EVER. Some states do not allow the exclusion or limitation of special, incidental or consequential damages so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.