

RSE261

Dual Sonic Exciter

(with SCE Processing)



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THE ROLLS SONIC EXCITER - SCE PROCESSING

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

All of this magic is achieved with our proprietary Spectrum Correction Encoding (SCE) Processing. SCE Processing is the use of all-pass filtering, frequency compensated gain adjustment, and compensated frequency 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.

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 PRE-PAID**. 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.

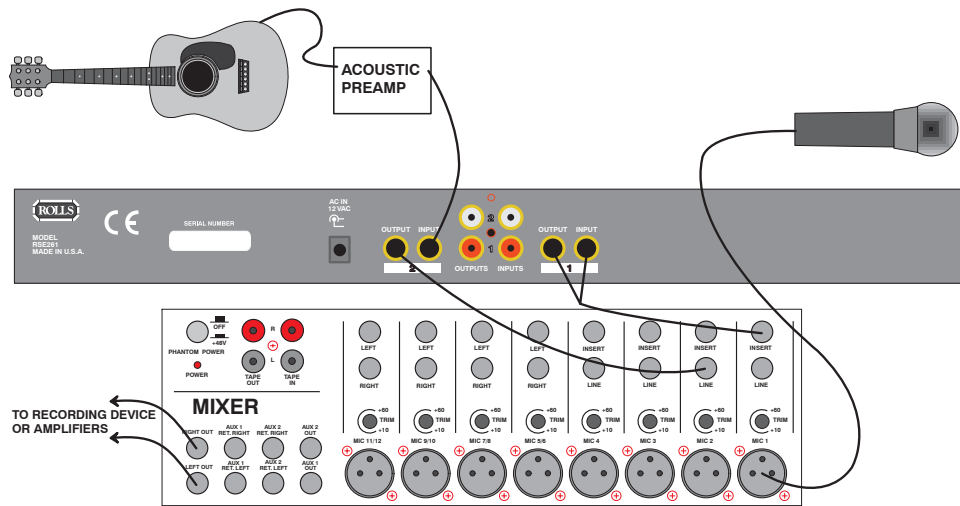
This warranty shall be invalid if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility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

DUAL MONO OPERATION

Shown below is a connection example for using the two-channels of the RSE261 in a Dual Mono or independent channel configuration. Each channel's input and output jacks need not be matched. For example, the 1/4" Input jack may be used while using the RCA output for that channel.



Thank you for your purchase of the Rolls RSE261 Dual Sonic Exciter. 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. The RSE261 takes your program material and adds new life, clarity, and three-dimensionality to your sounds.

Please read the following manual carefully to ensure proper operation, and enjoy your new RSE261.

INSPECTION

1. Unpack and inspect the RSE261 box and package. 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.

SPECIFICATIONS

Frequency Response:	20Hz to 40kHz
Input Impedance:	10KΩ balanced 10KΩ unbalanced
THD:	0.007% typical
Hum & Noise:	-84 dB
Indicators:	Power LED 2: Clip LEDs
Max Output:	+18 dB
Overload light thresh:	+15 dB
Input/Output jacks	1/4" unbalanced RCA unbalanced
Dimensions:	
Weight:	
Power:	12VAC, Rolls PS12 Adapter included

FRONT PANEL DESCRIPTION

NOTE: The following descriptions are for both channels.



ACTIVE SWITCH: Engages and disengages the RSE261 process. When out, the effect 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 mid-range to bass with this control as well as amplitude control.

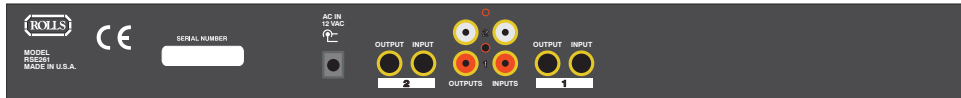
DEFINITION: Controls the amount of sonic clarity and sound spread. Setting it on 0 is flat response and minimal spread, on 10 is maximum spread and definition. This is also a good setting for constant dispersion horns.

CLIP LED: Indicates circuit overload in the channel.

PWR LED: Indicates that the RSE261 power supply is connected to an AC outlet, and the power is turned on.

POWER SWITCH: Controls the primary power to the RSE261.

REAR PANEL DESCRIPTION



AC IN: Connect to the included Rolls PS12 12 Volt AC adapter.

CH 1 - 2 , 1/4" OUTPUTS: Unbalanced outputs.

CH 1 - 2 , 1/4" INPUTS: Unbalanced inputs for connection (normally) to the last device in the signal chain before the power amplifier.

RCA INPUTS: Unbalanced inputs.

RCA OUTPUTS: Unbalanced outputs.

OPERATION

STEREO CONNECTION

The diagram shown below is a stereo connection example for the RSE261. We recommend you put the RSE261 last in the signal chain. If you have an EQ or other processor after your mixer's main outputs, insert the RP261 between it and your crossover and/or power amplifier.

If you are connecting the RSE261 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 RSE261 AND OTHER PERIPHERAL EQUIPMENT BEFORE TURNING ON THE POWER AMPLIFIERS. ALSO TURN OFF THE POWER AMPLIFIERS FIRST, BEFORE TURNING OFF THE RSE261 AND OTHER EQUIPMENT.

