

# Troubleshooting

**WARNING** There is the RISK of a FATAL ELECTRIC SHOCK when your REDGUM Subwoofer Amplifier is exposed.

\*\*\*\*\*

When turning the power "on", a slight 'pop' may be heard from your loudspeakers. This is normal and will not damage them. After the power is turned "off", the REDGUM Subwoofer Amplifier will continue to operate until the reservoir capacitors are exhausted. During this time period, odd sounds may be heard - they are also normal and will not harm your speakers.

\*\*\*\*\*

The REDGUM Subwoofer Amplifier plate can become quite warm when music is being played. This is normal and will not damage the Subwoofer Amplifier.

\*\*\*\*\*

### ON Switch Settings:-

Subwoofer Amplifier turned on and playing:

Power is "on" = red light

If the Subwoofer amplifier will not power up, check the fuse where the power lead plugs into the IEC socket. Part of the socket 'pops' out to reveal the fuse. (there is a spare in the body of the holder. If the fuse blows as soon as the switch is operated the subwoofer plate will require service work. Note: There are no user - serviceable components on the plate, so please check your warranty terms and arrange to have the Subwoofer Amplifier plate serviced only by qualified personnel.

# Specifications:

Warranty (DIY purchasers only): 1 Year  
Power Output: RGSW3 - 300RMS 8ohms  
500RMS 4ohms

Frequency Response:  
(Relative to 20Hz/0db) minus 3db points are 1Hz,  
adjustable from 20-200Hz

Electronic Crossover:  
Variable from 20Hz to 200Hz at 6db/octave

Damping Factor:  
8ohm load - 800  
4ohm load - 400  
2ohm load - 200

Signal to noise (output stage): >110db

Signal to noise (overall): >85db

Slew Rate: 35v / uS

Input impedance: 10k ohms (matches 1k to 50k)

# Warranty Registration

**Valid for Do-It-Yourself purchasers only.**

Note:- This warranty is void once the REDGUM Subwoofer Amplifier plate is installed as a component part of a product made by another manufacturer. If you purchased a complete Subwoofer unit, contact your dealer or the Subwoofer manufacturer for any problems that occur while the unit is under warranty.

### Complete for Warranty Registration:

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zip code \_\_\_\_\_

Country \_\_\_\_\_ Date of purchase \_\_\_\_\_

Place of purchase \_\_\_\_\_

Model No. \_\_\_\_\_

Serial No. (if any) \_\_\_\_\_

**Fax this page to the REDGUM Audio factory at  
+613 9897 1399**

or Email details (incl. S.N.) to  
<[warranty@redgumaudio.com](mailto:warranty@redgumaudio.com)>



[redgumaudio.com](http://redgumaudio.com)  
[warranty@redgumaudio.com](mailto:warranty@redgumaudio.com)



**Operating Instructions for  
REDGUM Subwoofer Amplifiers  
Model RGSW3**

**CE Made in Australia** N1450

By

**REDGUM Audio Pty Ltd**  
Factory 3 - 25 Clarice Road  
Box Hill South 3128 Australia  
ABN 45 093 132 515

# Operating Instructions for your REDGUM Subwoofer Amplifier

The ON rocker switch is on the front panel.

In the ON position an internal LED will show a red glow. The glow can last several minutes after switch-off, as the large storage capacitors can take some time to discharge.

The REDGUM Subwoofer amplifier is designed to be left 'on' when not in use, so that it is at operating temperature immediately when required. The long-term power consumption, is only around 5watts – less than the standby power of other auto-switch-on subwoofers!

On first 'power-up' after initial installation, it is wise to keep the LEVEL control at minimum until your system is operating normally, then slowly advance the LEVEL control until the bass 'fills out'. Be careful not to over-do it, the addition of a subwoofer should be subtle, not furniture rattling! Once this level is set, the overall bass will follow the volume control of your receiver/processor.

The PHASE switch allows you to 'invert' the signal. (Switch Down: The output of the subwoofer plate is 'in phase' with the input to the plate. Switch Up: INVERT or 'out of phase') Depending on the design of your processor/amplifier, and physical placement of the subwoofer, you may need to set the PHASE switch to the INVERT position. This can be checked whilst listening after your subwoofer is set up and operating. Switch the PHASE switch to invert (UP) and check for added 'bass extension' – lower, not louder! If there is no noticeable difference, then your speaker setup positions are not phase critical. If this is the case, the PHASE switch can be left in either position.

The XOVER control controls the frequency at which the subwoofer begins to contribute to the bass. This is not "rocket science" and is not critical!, it is more like 'how much salt does it take to make the soup taste right'. Feel free to experiment, but probably use your 'midpoint', (unless you have access to acoustic test equipment capable of measuring accurately to, and below, 20hz!)

## Plate Installation

Your REDGUM Subwoofer amplifier is designed and manufactured so it can be directly installed into the wall of a subwoofer cabinet. The plate is not sealed and so a sub-enclosure should be constructed to prevent air leakage from the subwoofer cabinet.

If wished, the REDGUM Subwoofer amplifier can be set up separate from your subwoofer cabinet, but be aware that dangerous voltages are accessible on the rear of the plate, so it must be protected/enclosed in such a way that these voltages are inaccessible to small children or pets.

**\*THIS IS AN IMPORTANT SAFETY CONCERN\***

## Speaker Connections

Make sure that your REDGUM Subwoofer Amplifier is disconnected from mains power before making any connection to speaker terminals. Failure to do so may result in an electric shock and/or damage to the amplifier.

There are 2 heavy speaker cables attached to the Subwoofer Amplifier plate, one red and one black. The RED is POSITIVE and connects to the Positive terminal on your subwoofer driver. (This positive terminal will be marked with a '+' sign, or a coloured dot of paint.)

Before turning on the power, check that wiring terminations look neat and that no loose strands of wire are touching another terminal. Failure to make neat connections may result in poor sound or amplifier damage.

## Input Connections

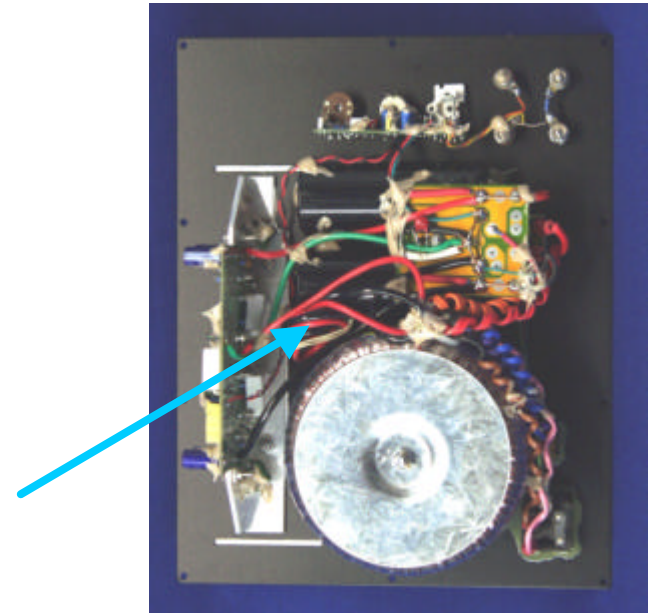
Connect either, or both of the input sockets on your REDGUM Subwoofer plate to the connector marked Subwoofer on your receiver, pre-amp or processor.

OR:

You can also connect the REDGUM Subwoofer plate's input sockets directly to your unit's pre-amp output, as the REDGUM Subwoofer Amplifier has all the necessary filtering to operate from a 'full range' source.

The 'volume' outputs of these connections can vary widely so it is advisable to keep the LEVEL control on your REDGUM Subwoofer Amplifier initially at zero. Then, when your system is playing normally, find a reasonable starting volume for the subwoofer by advancing the LEVEL control very slowly.

If the available level is far too high or too low, the subwoofer can be internally adjusted to suit your system. Consult your dealer or contact REDGUM Audio Pty Ltd for information on how this can be set.



## WARNING!

Always check that your REDGUM Subwoofer Amplifier is disconnected from mains power before making any input connections to your other equipment.

Failure to do so may result in an electric shock and / or damage to both the REDGUM Subwoofer Amplifier and your other equipment.