

REDGUM Audio

AM/FM Stereo Tuner

Model RGT1



Owner's manual

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Why REDGUM?

The river red gum is Australia's most widespread and recognised tree, and it produces a wood that is truly unique. It yields the second hardest timber in the world, and this strength saw its widespread use in the railway lines that sprang up to connect the rapidly expanding colonies of early 20th century Australia. Its resistance to termites also made it the natural choice for building foundations, and to this day it continues to support some of our most historic structures.

The river red gum can be found on most river banks in mainland Australia, where its roots tap into water stored in the sands and its leaves provide food for the indigenous wildlife. Its presence is synonymous with the Australian outback, at once a symbol of life sustaining water and the struggle against a harsh climate. When conditions turn dry, the red gum will adapt by shedding huge branches from its trunk in an effort to conserve moisture. As anyone familiar with camping in the Australian bush will tell you... don't ever pitch your tent underneath a red gum tree!

A celebrated part of our culture, it has perhaps been made most famous through the landscape paintings of Hans Heysen and Ronald Bull.

And while it was in wide use throughout Australia's history, it was not until the invention of the carbide saw that it was possible to cut the wood accurately. And only then could the real beauty of this unique hardwood be unveiled.

When polished it reveals a deep red lustre, highlighted by an intertwining and tightly packed grain structure. Fine irregularities add to this beauty, and it is highly sought after as a decorative wood for these unique aesthetic properties. No two pieces of red gum will match exactly, and this is as it should be. Like our products, each piece is outstanding and unique.

Now that you've heard the story of the Australian river red gum, it's time to listen to your very own REDGUM. We've carefully selected and lovingly crafted each piece before coupling it to some of the finest audio engineering that money can buy. The results? Stunning! Trust us, you won't believe your ears.

Unpacking

Carefully unpack and inspect your new tuner.

In the carton there should be:

- ~~///~~ an Owners Manual
- ~~///~~ AM loop aerial and FM wire aerial (white)
- ~~///~~ RCA Audio lead
- ~~///~~ the tuner itself.

If there is any damage to the tuner, contact your dealer immediately. It is a good idea to keep the shipping carton and packing materials, as they can be used to protect your tuner whenever you need to move it again in the future.

If you need to repack your tuner at a future time, replacement packaging is available from REDGUM Audio at a nominal charge.

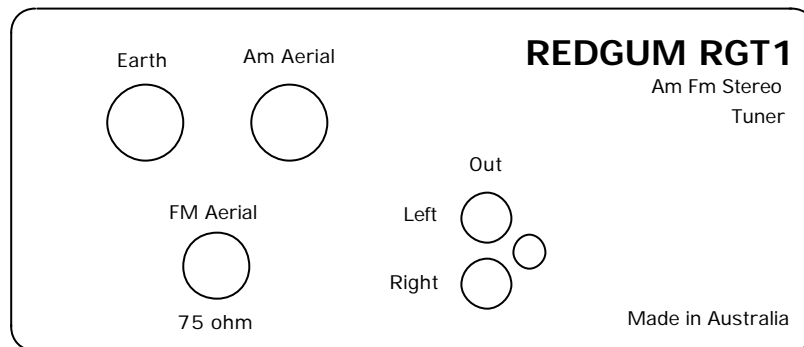
Contact REDGUM Audio Pty Ltd via the website.

Connecting your tuner to your amplifier

For safety reasons, always ensure that your tuner and other components are turned off and disconnected from mains power before making any connections. Failure to do so may result in an electrical shock and/or damage to your equipment.

Audio Hook-up

The Left and Right Out sockets shown on the rear of the tuner should be connected to your amplifier input sockets marked 'Tuner'. (Or any other high-level input sockets (not phono)).

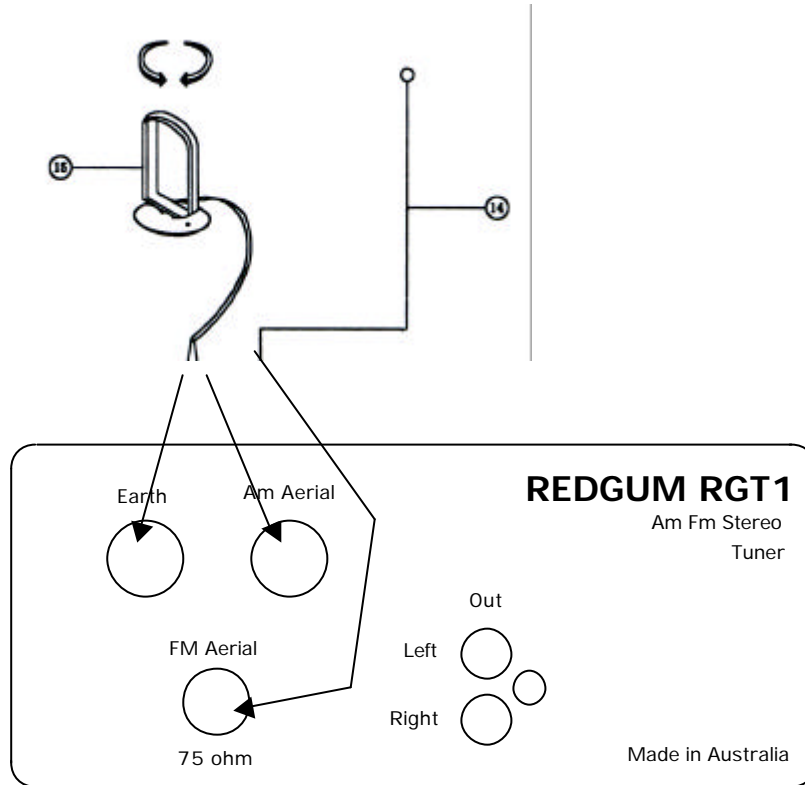


Follow the steps below to connect your tuner to your amplifier. Using the supplied RCA lead.

Step	Action
1	Connect the: <ul style="list-style-type: none">right-out tuner socket to the respective right-in on the amplifier;andLeft-out tuner socket to the respective left-in on the amplifier.
2	Ensure that all connections points are clean, and that all connections are secure. Check that wiring terminations look neat and that no loose strands of wires are touching any other terminals. Failure to make neat connections may result in poor sound.

Aerials

This REDGUM Tuner is the highest quality AM/FM tuner. The Quality of the sound that you hear will depend entirely on how good your aerial/ installation is! This is true for AM as well as FM transmissions.



Follow the steps below to connect your AM and FM Aerials to your tuner.

Step	Action
1	Connect the: <ul style="list-style-type: none">Loop antenna (15) to the Earth and AM Aerial terminals;andthe FM aerial (14) to the 75ohm FM aerial connection socket.
2	Ensure that all connections points are clean, and that all connections are secure. Check that wiring terminations look neat and that no loose strands of wires are touching any other terminals. Failure to make neat connections may result in poor sound.

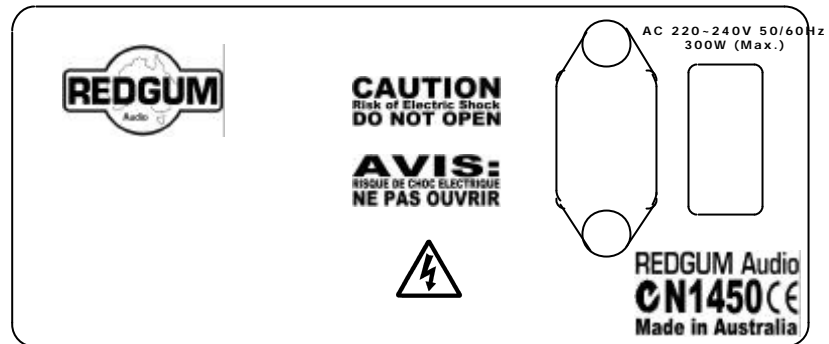


Note

Always keep the power cord away from the antenna.

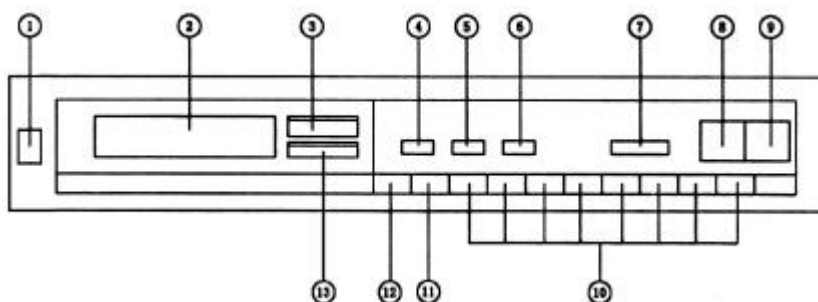
Power Supply

Your REDGUM tuner comes with an IEC 3 pin power socket. This should be connected to your mains supply by a suitable power cord. If a power cord is not supplied, a suitable cord can be easily obtained from your local computer shop.



How to use your REDGUM Tuner

At the front of your tuner is an on/off switch, and several push buttons. These are used to turn the amplifier on and off, and to select the many functions. They are listed below.



- 1 – Power on/off switch: Rocking down will turn the power on.
- 2 – Display: Channel, band and frequency information.
- 3 – Signal Strength: AM or FM signal strength is shown.
- 4 – ST/MO: Use this button to select between stereo and mono.
- 5 – FM: Press to select the FM Band
- 6 – AM: Press to select the AM Band
- 7 – Display: Press this to display and enter the time mode.
- 8 – Down/Hour: Press this to set the Hours on the clock or move the tuning frequency down.
- 9 – Up/Min: Press this to set the Hours on the clock or move the tuning frequency up.
- 10 – Memory Locations: These are the preset buttons for stored stations – FM(1-16) AM(1-8)
- 11 – ME/Set: Hold this button and press the desired memory location to store station presets. OR Hold this button and press the Hour/Min buttons to set the clock.
- 12 – PS: Press this button to search the memorised stations
- 13 – Stereo: This lights when stereo mode is selected. (If signal is 'noisy', selecting Mono will improve the quality.)

Turning the tuner on and off

Your tuner utilises a rocker switch as the on/off control.

Flick the switch on the front panel to turn the tuner on and off. This is the preferred method, as the muting circuits will operate correctly causing less startup and shut down noises.

Also you can safely turn the tuner on and off by using the rocker of the Circuit Breaker switch (marked Reset/Off) at the rear of the chassis. In this case, rocking the switch to the 'Reset' position will turn the tuner on. Alternatively, you can safely turn the tuner on and off from the power point when the Circuit Breaker switch is in the 'Reset' position.



Note

Always make sure that the volume on the amplifier is turned down before turning on your tuner, to protect your equipment.

Basic operation

Select the broadcast band (AM or FM) using the BAND selector button

Manual tuning can be done by pressing the UP or DOWN keys on the front panel

To automatically find stations, press the UP or DOWN button and hold for more than 1 second. The tuner will 'scan' looking for strong signals, and will stop when detected. This procedure can be repeated as necessary.

To lock stations into memory, first select the station by the above method, then press and hold the ME/SET button and press the desired memory location. (this will replace the existing memory with the new station)

By repeating this procedure you can preset a combined total of 16 FM and 8 AM stations. (These presets will be kept in memory by an internal backup battery if the power fails)

Presetting Clock Mode

Press DISPLAY button to enter clock mode. To set the time, press and hold the SET button, then press DOWN/HR to adjust the hour digits and UP/MIN to set the minute digits.

Achieving the best sound from your tuner

This section is provided to offer some general assistance to those seeking to get the very best performance from their tuner. You will be surprised by just how much improvement can be had by experimenting with a few simple factors. The following advice is based on our own years of trial and error, and we hope that checking through it makes a positive difference to the sound of your system.

Where to put your aerials

AM aerial position

The AM loop aerial is directional, so rotating it will dramatically change the quality of AM reception. The assembly can be stood on a shelf, or on the top of the tuner itself.

FM Aerial

The FM aerial should be installed as high as possible. The FM aerial is also directional and the sound quality can be dramatically improved by correct orientation.

For the best possible reception, you should consider the professional installation of an 'in roof' FM antenna. REDGUM can supply a suitable FM antenna for this purpose. There are TV aerial professionals who have test equipment to optimise your aerial installation. (Use the white pages to locate a local person.)

Why do I hear sounds when turning my tuner on and off?

You can expect to hear sounds from your loudspeakers when turning your REDGUM tuner on and off. Usually, you will hear a slight 'pop' sound when turning on, and a similar sound when turning off. These sounds are caused by electrical energy increasing and decreasing within the amplifier. They are a sign that your tuner is operating normally, and are not a cause for concern.

Your listening room

Strange as this may sound, the room itself will have a profound affect on how your audio system responds. In fact, many experts consider the room to be as important to the sound as any other component in your system!

Did you ever notice how it's difficult to talk in some restaurants because you can't hear each other over all the other conversations going on around you? Yet another similarly sized restaurant is perfectly suited to intimate romantic murmuring. The difference lies in the surfaces around you. Here is a simple test – go into your bathroom and clap your hands; then clap them again in a room with carpet, curtains and other soft furnishings. Notice the difference? In a room with many hard reflective surfaces sound waves bounce around a lot before dying out. Not even the most expensive stereo in the world is capable of sounding good in such a challenging acoustic environment.

When it comes to your listening room the same principles apply. Wooden floorboards, polished concrete and slate tiles are all highly reflective surfaces. In a room without curtains or other wall furnishings the sound may be overly 'bright' or aggressive.

Similarly, it is possible for a room to be too 'damped' or absorptive. Where there are no reflective surfaces at all the sound may seem 'dead' or lacking in energy.

Luckily for us, most household rooms are a combination of the two. And, generally speaking, a combination of the two will bring about the best results.

Too many hard surfaces?

If your room is too 'bright', try placing a large rug on the floor between your listening position and the speakers. Or hang some soft furnishings from the walls.

Too many soft surfaces?

If your room is too damped, try removing some of the soft furnishings from the walls or rugs from the floor.

Managing the bass

Sometimes, low frequency waves can also bounce around and cause problems in a listening environment. This may be the result of the shape

of the room, or the materials it is constructed from. Large pieces of furniture in a room can often help to break up these 'standing waves'.

While few of us will feel the need to redesign a room to improve its sonic properties, sometimes a small change, like placing a rug on the floor, can make a big improvement to the sound.

Other helpful hints

Corrosion and sound system terminals

Atmospheric corrosion can build up on speaker cable and interconnect terminals over time. Should this occur, removing and re-inserting wires and cables will improve the contact and hence the quality of signal transmission. Always remember to turn off all equipment before connecting or disconnecting any wires or cables.

Placement of components in your sound system

Lots of fresh air is important to the health of your electronics. The louder you play your music, the more important it is to ensure that components receive adequate ventilation. Amplifiers, in particular, will generate a lot of heat. Placing the amplifier at the top of the stack, and ensuring adequate ventilation, will help to ensure that heat can be dissipated as it should.

Troubleshooting

The following troubleshooting guide is designed to assist you in identifying and rectifying any problems you may experience with your tuner.

Symptom	Likely cause	Recommended action
No sound	The tuner is not turned on, or is not connected to the power outlet	Check that the tuner is plugged into the power outlet, and turned on
The sound of a particular station is poor	Lack of signal	Make sure that the aerial is oriented correctly to maximise this station
Stereo signal is 'hissing'	Low FM signal	Switch to mono or improve the aerial system
Station presets are lost when the tuner is unplugged for a day or two	Backup battery has failed. (the internal rechargeable battery should hold the memory for 30 days or more without power, and last in excess of 5 years)	Send the tuner in for service to replace backup battery. Or leave the tuner plugged into the mains power at all times.

If the problem cannot be resolved by any of these recommended actions you should make certain that the problem lies with the tuner, as malfunction within other components may also be the cause of the symptoms. You can do this by borrowing an amplifier and speakers that you are certain are working, and replace your normal components with these to test the tuner in isolation. If the problem persists, please see your local REDGUM Audio dealer.

Circuit breaker

Additional protection for your equipment is built into the tuner in the form of a Circuit Breaker. Found on the rear panel of the chassis, it is a rocker switch with RESET and OFF positions. (See also section – Turning the tuner on and off.)

In the (unlikely) event of a power overload or an internal malfunction, the Circuit Breaker on the rear will activate ('trip'). The switch will automatically rock to the OFF position, and a red light will be seen inside the rocker.

In the case of a power overload, rocking the switch to the RESET position will turn on your tuner again. When reset the red light will turn off and you will hear a 'thunk' sound as the tuner powers up.

However, in the event of an internal malfunction, resetting the switch will not be possible. When the switch is rocked to the RESET position, it will instantly flick back to the OFF position, and the red light will stay 'on'. Should this occur, the tuner will need professional service.

If in any doubt whatsoever, please consult your dealer.

Specifications

RGT1

AM FM Stereo tuner

AM Section:

Tuning frequency range	522-1611 KHz Steps 9KHz
Distortion:	<7%
Sensitivity:	< 6.0mV/m
Signal to Noise:	> 36dB
Frequency Response:	80Hz – 4KHz

FM Section:

Tuning frequency range	87-108MHz Steps 50KHz
Distortion:	<7%
Sensitivity:	<20uV
Signal to Noise:	> 46dB
Frequency Response:	20Hz – 20KHz
Antenna Impedance:	75 Ohms

Other Specifications:

Audio Output:	500mVrms
Output Impedance:	100 Ohms
Supply Voltage:	240V (+ - 20%) 50Hz
Power Consumption:	10Watts
Memory Capacity:	24 Stations (AM – 8) (FM – 16)
Cabinet Finish:	solid Red Gum wood fascia, powder-coated 1.6mm steel chassis
Dimensions:	420mm (W) x360mm (D) x96mm (H)
Weight:	5.6 kg (tuner alone)

Warranty

REDGUM tuners are warranted to be free of defects in material and workmanship, subject to the following conditions, for FIVE (5) years from the date of purchase by the original owner. Warranty claims must be accompanied by proof of purchase, including date.

This warranty is subject to the following conditions and limitations: -

This warranty is void and inapplicable if the tuner has:

- not been used in accordance with the instructions contained in the manual;

- been subject to misuse or abuse, one example of which would be damage consistent with aerial terminals being hooked to another electrical source;

- been modified, repaired or tampered with by anyone not specifically authorised in writing to do so by REDGUM or its agents;

- been damaged by accident, intent, neglect or transportation.

Should the product be faulty, the owner is liable for the cost of freight to the nearest REDGUM repair agent, or the factory. Should the product be found to be without fault, the owner will be liable for the return freight also.

Warranty Registration

Complete for warranty registration:

Name

Address

City

Zip/Post Code

Country

Date of purchase

Place of purchase

Model No

Serial Number (if any)

Fax this page to the REDGUM Audio factory at +61 3 9897 1399

Alternatively, you may email the details (including serial number) to
warranty@redgumaudio.com