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Introduction

Your Rega **Radio 3** has been designed as a high quality source, able to reproduce a broadcast easily and effectively at a competitive price.

The **Radio 3** has been built to Rega's usual discriminating standards of reliability and quality to ensure many years of musical enjoyment with improved AM function.

A tuner's function is to oscillate along with the tiny electromagnetic vibrations that are a radio signal. The ability of a tuner to oscillate at a stable, predetermined frequency matching that of the signal - is directly related to its quality.

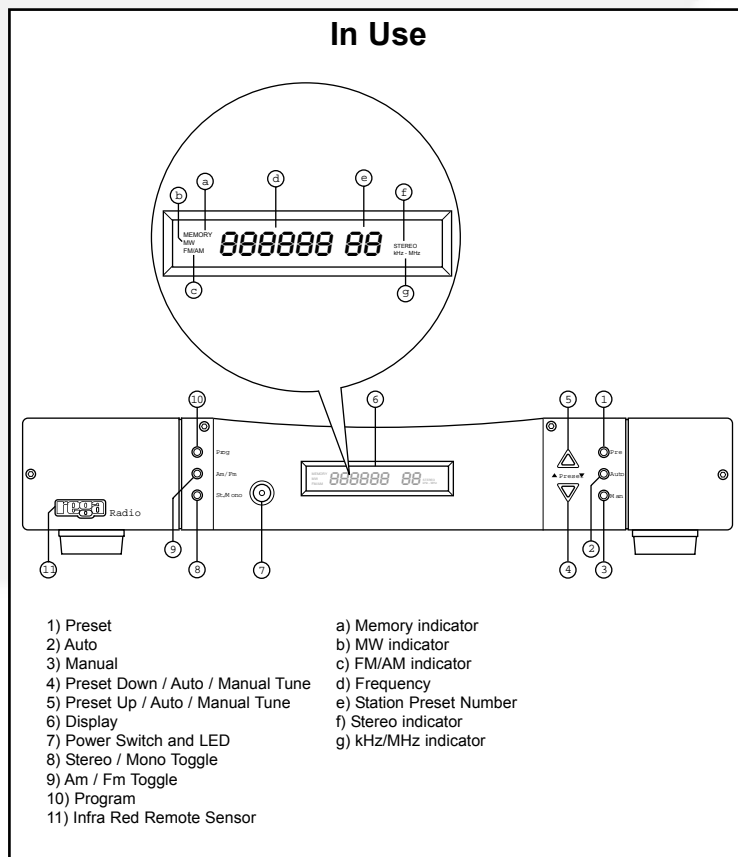
In addition to meeting this requirement, the **Radio 3** allows fine-tuning between the normal incremental steps. To fully appreciate the quality of the Rega **Radio 3** however, it's only necessary to switch on, sit back and enjoy the music.

Installation

The **Radio 3** will work well on most surfaces, such as a shelf or table, provided there is sufficient air around it to prevent overheating.

For maximum performance place unit as far away as possible from fridges, cookers, fluorescent lights etc.

Never stack Hi-fi equipment directly on top of one another.



3

9 4 3

Front Panel Switches

1) Pre-set - Selects Pre-set station mode. The switch will light to indicate the Pre-set mode is activated.

2) Auto - Selects Auto tune mode, this will enable automatic scan through the band searching for strong stations available in your area. The switch will light to indicate the Auto mode is activated.

3) Manual - Selects Manual tune mode, this will step through the FM and AM bands in steps of 25KHz & 9/10KHz respectively. The switch will light to indicate the manual mode is activated.

4) Down - Move, scan or step down in Pre-set, Auto or Manual tuning modes respectively.

5) UP - Move, scan or step up in Pre-set, Auto or Manual tuning modes respectively.

6) Display - see front panel display on Page 6.

7) Power on/off - This turns the tuner on or off. When the tuner is off, the microprocessor will stay active. If in the event of a processor hang-up or crash, the processor can be reset. This is done by turning the tuner off at the front panel, removing the mains plug from the back panel and then plugging it in again after a few seconds. This will not affect any stored data in the memory.

8) Mono - Places the tuner into Mono mode, the switch will light to indicate the Mono mode is activated. This will cause the STEREO logo on the display to go out if you are receiving a stereo signal. This can improve the audibility of certain programmes by reducing mush and background noise.

9) AM/FM - Switches between the wavebands. The FM logo will light on the display to show the tuner is in FM mode, whereas the MW and AM logo will light to show the tuner is in AM/MW (Medium Wave) mode.

10) Program - Places the tuner in Program mode, this is used in conjunction with the Up/Down and Mode switches. When active the MEMORY logo in the display will be lit.

Front Panel Display

The display will indicate the following data.

- a) Memory** - This shows the tuner is in the pre-set station or Memory Pre-set programming mode.
- b) MW & AM** - This shows the tuner is in AM mode.
- c) FM** - This shows the tuner is in FM mode.
- d) First six digits** - Shows the tuned frequency.
Note - the last digit is not displayed for reasons of clarity, for example, 100.025 will be displayed as 100.02.
- e) Last two digits** - Shows the pre-set location number.
- f) Stereo** - This shows the radio is receiving Stereo broadcast.
- g) kHz** - This shows the unit of frequency for AM/MW broadcasts. The kHz logo also performs as a 'tuned' indicator, and will light when a strong station is tuned in.
- g) MHz** - This shows the unit of frequency for FM broadcasts. The MHz logo also performs as a 'tuned' indicator, and will light when a strong station is tuned in.

Use of the Tuner

Manual Tune

Select the required waveband, either AM/FM, then press the manual button. The button will then light up, if you then press the UP or DOWN buttons you will step through the frequency band selected. The MHz or kHz logo lighting indicates a tuned station. Stereo logo will also light if the station is broadcasting in 'stereo'.

Auto Tune

Select the required waveband, either AM/FM, then press the auto button. The button will then light up, if you then press the UP or DOWN buttons you will search through the frequency band selected until the radio finds a strong signal. You can stop the search by pressing the button again. The radio will tune to stations that broadcast in stereo and mono. If the radio will not tune in to your desired station, you will need to use the manual-tuning mode.

Programming the Pre-sets

Use either Auto or Manual to tune to the desired frequency / station. Press the program button and the memory logo will light on the display, showing that you are in the programming mode. You must then choose a pre-set number to store the frequency / station in, this is done using the UP or DOWN buttons. Once you have chosen the pre-set number, press the program button once more to store the frequency / station into that pre-set.

Note: The pre-set programming will not be lost if the unit is turned off but you will need to re-select the preset number when turned back on.

Pre-set Stations

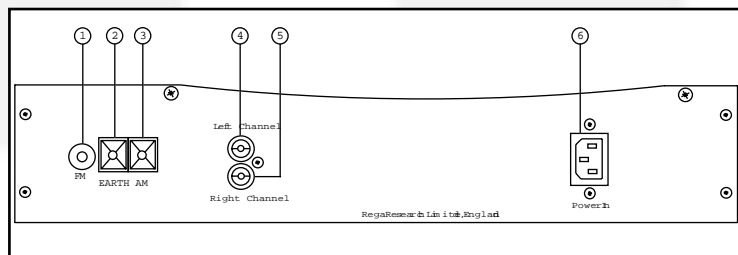
Firstly decide which band you require, either FM or AM/MW, then press the pre-set button. The button will then light and the memory logo is displayed, you should also notice that the output level drops to stop any loud pops, crackles or noise damaging your system when tuning.

By pressing the UP or DOWN buttons you will move through the pre-sets until the desired station is reached. The last two digits in the display show the pre-set number. Now that you have located your station, press the Pre-set button again to activate it. The Radio will then return to either Auto or Manual mode and increase the output level to normal.

If the frequency indicators do not light, then the signal being received is not strong enough, and you will hear 'white noise'.

Back Panel

- 1) FM aerial socket
- 2) Earth socket
- 3) AM aerial socket
- 4) Left channel coaxial input (white)
- 5) Right channel coaxial input (red)
- 6) IEC Power input



Aerial Information

The **Radio 3** needs to be connected to an aerial to work. The FM aerial socket (No.1 on 'Back Panel' page 9) is designed to accept a 75Ω coaxial cable. If a 300Ω twin lead wire is used to connect an aerial, use a $300-75\Omega$ adapter.

The very best results from the **Radio 3** will be obtained when using a multi-element aerial mounted externally.

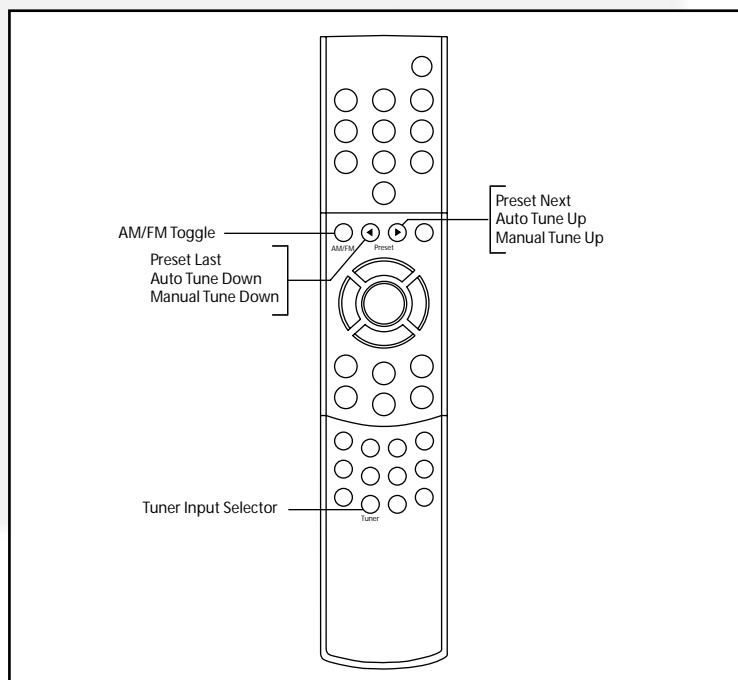
An aerial will also be needed for AM reception. This should consist of a simple single wire of 4 meters long, connected to the tuner's AM socket (No.3 on 'Back Panel' page 9) and if possible laid horizontally along its length. Try to avoid metal shelving and experiment for the best reception.

Distant AM reception can be improved* by using a 'long-wire' aerial, mounted externally, parallel to the ground. This should be a single wire, up to 30 meters long.

Further improvements may be made by connecting the earth socket (No.2 on 'Back Panel' page 9) on the Radio, to earth, via a copper plated rod driven into the ground. A substitute electrical earth, such as a cold water pipe may also prove effective.

***Please Note:** If you are close to a broadcasting aerial, the reception of local AM stations may actually be worsened by this method.

The optional Remote Control



AM/FM - toggles between the AM and FM bands of the Radio.

Pre-set - Use these two buttons to select a desired pre-set stored in the Radio memory. When these buttons are pressed the output level

will drop to stop any pops, crackles or noise damaging your system. It will return back to normal after the buttons have not been pressed for 2 seconds.

Additional Functions

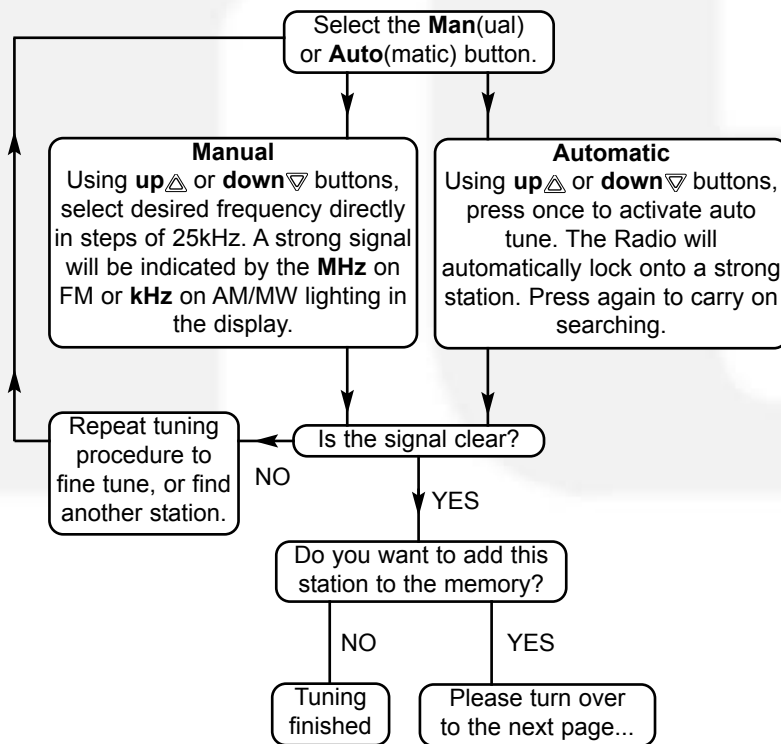
(Remote Option Only)

Having purchased your SOLAR remote, it is possible to control your radio from the comfort of your armchair.

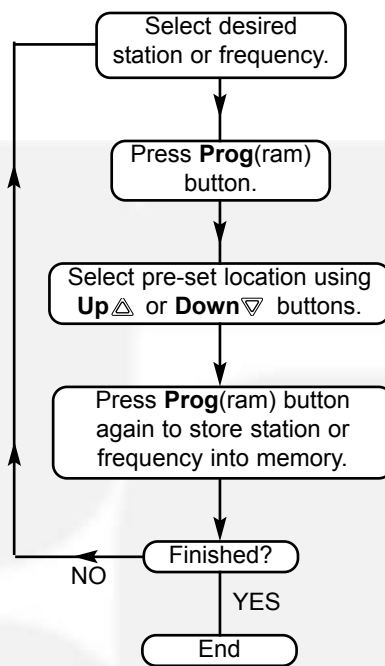
The solar allows you to switch between wavebands (AM/FM) and the pre-sets stored on your radio. However, the **Radio 3** has to be in auto or manual mode for the remote control to work.

If you are also using a complete Rega setup (remote controllable), the solar allows you to adjust the volume and input selection as well as the CD functions too.

Tuning



Programming the Pre-sets



Using the Pre-sets

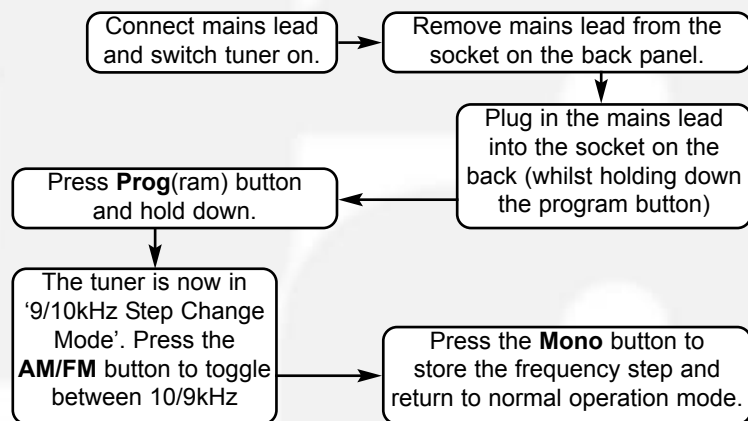
Select **Pre(-set)** button.

Use **Up**▲ or **Down**▼ buttons to select the desired preset.

Press **Pre(-set)** button again to enter the selected station.

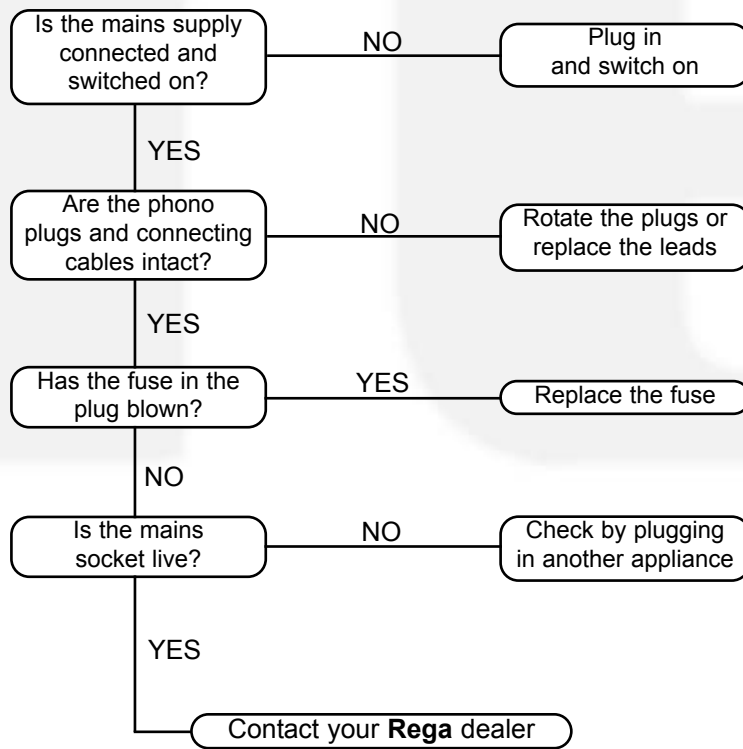
Use of the Radio in North America

In North America and Canada AM/MW the broadcast frequency steps are in 10KHz increments instead of 9KHz as found in Europe. To change from 9KHz to 10KHz, follow this procedure.

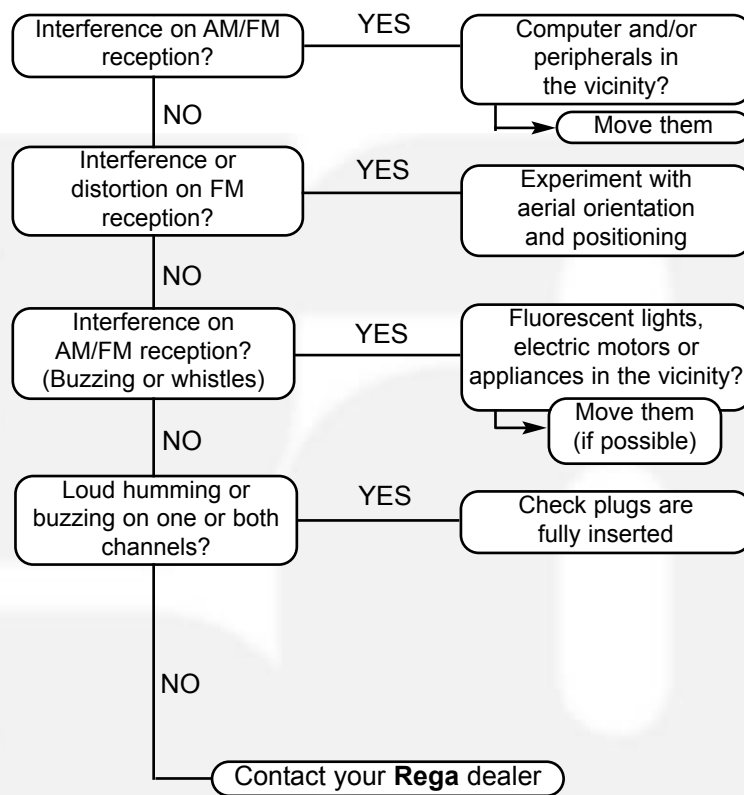


Troubleshooting

(No sound from speakers)



Reception Problems



Specifications

FM section

Input Sensitivity.

Limiting.....	2.8uV
30 dB Quieting.....	4uV
THD Mono.....	1KHz 0.08%
	6KHz 0.3%
THD Stereo.....	1KHz 0.1%
	6KHz 0.25%
Signal to Noise Ratio Bandwidth.....	30Hz to 15KHz
	Mono 81dB
	Stereo 74dB
Frequency Response.....	30Hz to 15KHz +/-0.5dB
Stereo Separation	1K 53dB
	6K 50dB
	10K 39dB

AM Section

Sensitivity.....	10mv
Signal to Noise.....	45dB
THD.....	0.5%

NEC Custom System Remote Control