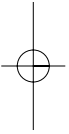
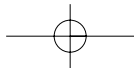
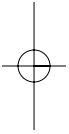




P7

Rega Research Ltd, England www.rega.co.uk





P 7

Mission Statement

Rega's philosophy is to make high quality products at sensible prices, as a means of reproducing music as faithfully as possible. Rega is committed to the design and development of new and existing products, both in hi-fi and other areas, that will perpetuate Rega's values of quality and value for money.



Contents

Introduction..... 1

Design Innovation..... 2-4

Power Supply and Turntable
setup..... 4-9

Caring for your P7..... 10

Hints and Tips..... 11

Owner's log Book

1)

Owner.....

Date.....

Where Purchased.....

2)

Owner.....

Date.....

Where Purchased.....

3)

Owner.....

Date.....

Where Purchased.....

Thank you for purchasing our product. We
hope it offers you many hours of musical
enjoyment!

Introduction



Your Rega P7 has been designed to be effective, easy to use and above all - to reproduce music better than any other turntable. We have omitted all the usual gimmicks and genuinely concentrated the manufacturing costs on the high quality components and design necessary to reproduce records accurately.

For example: a complex sub-chassis suspension is normally necessary to reduce motor noise. However they are difficult to maintain and degrade performance. Rega have designed a unique phase adjustable power supply which eliminates motor vibration at source and therefore eradicates the need for a suspension.

Rega's design skill and the use of extremely high quality components ensure that your turntable will perform at its optimum. The tips we give here may help to give you maximum musical enjoyment and ease of use for many years.

Design Innovation:

Tonearm

The P7 has a new tonearm, the RB700, improving greatly on the previous model, the RB600. The aluminium tube has been specially coated in a unique finish and the entire bearing housing has been redesigned and is now manufactured to even higher tolerances.

The tonearm tube itself (which is a one piece silicone/aluminium casting) is very rigid, whilst being low mass. The tonearm assembly is concentrated around precision, hardened stainless steel, miniature ball races of the highest quality. The bearings fit on to ground shafts and into the tonearm using interference fits. This means that no adhesive is required and therefore none of the associated (component - adhesive - component) losses in rigidity prevail. It is fitted to the plinth by a 3-point fixing which is CNC machined out of a single solid block of Stainless steel. This provides the strongest most rigid base structure possible for the tonearm and causes less stress on the plinth and the RB700's bearing housing, and therefore the least possible resonance.

The RB700 tonearm is designed to make cartridges work harder, maximising the cantilever acceleration and travel as much as possible with the utmost accuracy within the cartridge body thus providing new levels of information.

Hints and Tips

- 1) Mount the turntable on a rigid, level surface. A light shelf or turntable support (such as our own) screwed to a wall or in an alcove is ideal. Avoid mounting on hollow or heavy cabinets or anything mounted on a wooden floor.
- 2) Try to keep the lid closed while playing the records. This will prevent dust falling on to the records and make cleaning unnecessary. There may also be a sonic improvement.
- 3) Don't use any record cleaner that works while the record is playing or any cleaners that use water or solvents. If you keep your records stored in their sleeves, avoid touching the playing surfaces, play with the lid down and **keep all water and fluids away**, cleaning should not be necessary. Don't worry about visible dust on the record surface, the stylus brushes this aside and any that collects on the stylus can be easily blown away. In general, record cleaning is overdone and one should not believe all the claims made by record cleaner manufacturers.
- 4) Leave the turntable running during a record playing session. Switch on before the session and only switch off after you have finished. Use the electronic speed control to change speeds.
- 5) Don't lift the centre hub out from the main bearing. The bearing is factory assembled with a film of special thick lubricant. If the centre hub is removed this film may be disturbed.
- 6) Rega turntables are designed to optimise performance for music reproduction and therefore no compromises have been made to give quick start times. The normal time taken for full speed to be reached is between 5-10 seconds.
- 7) The arm earth (or ground) is automatically connected through the arm cable screening. No other earthing should be necessary.
- 8) Save the original packing in case you ever need to transport the turntable.
- 9) Don't use any polishes on the turntable or lid. To clean or dust, wipe gently with a soft cotton duster (slightly damp only if necessary).
- 10) Always deactivate the power supply before disconnecting the turntable.

Should you experience any problem with your turntable or wish to enquire about servicing please contact your Rega dealer.

Caring for your P7:

Service

To keep your P7 working perfectly, please ensure that your turntable is returned to a Rega trained dealer for servicing at the recommended interval periods (2000 hours playing time).

Transporting your P7

Should you need to transport your P7, to avoid any possible transit damage, the following recommendations must be followed.

1. Remove tonearm balance weight and secure the arm in its rest with tape or covered wire. This will ensure no sudden or violent movement is transmitted to the delicate bearings.
2. Remove ceramic platter. When removing, hold down the metal hub at the same time as lifting the platter on each side. When removing or replacing, ensure it is done evenly to avoid chipping to the platter.
3. NEVER place your P7 upside-down or on its side. This would allow oil in the hub/bearing assembly to leak and cause speed and or wear problems.
4. If you have to ship your turntable or use a carrier, use ALL the original packaging. If in doubt ask your dealer.

Platter

The platter is produced from a ceramic oxide powder which is compressed, fired and diamond ground to size. (Because this platter is as stiff and hard as sapphire, the only improvement that can be made would be to make it from diamond.) This is a first in the industry at volume production levels. Even so, each platter takes many hours to produce. Expensive detail design ensures it only sits on three points on the centre hub. We have also used new techniques to achieve better speed stability of the turntable by using ceramic weights to provide a flywheel effect to the platter.

Plinth

The new P7 plinth is made from an even lighter material than the original Planar which again offers advantages over its predecessor. The plinth is of a skeletal design. This allows the mass to be reduced and the rigidity increased in comparison to a solid section construction. All organic materials used in the production of the plinth and surround are obtained from sustainable sources.

Motor

The motor is a high specification, P9 24V twin phase synchronous unit controlled by Rega's unique and innovative TT PSU power supply. The motor drives the computer-numerically-controlled (cnc) machined pulley and sub platter/hub-bearing assembly via a twin belt drive. Two belts are used so that any small inaccuracies in one belt will be cancelled out by the second, giving unusually low levels of wow and flutter.

Interconnects

We have used the highest quality purpose designed high current power and phono connectors and low noise, wide bandwidth interconnect cable. These are genuine professional products and are the best available for the job. Do not attempt to fit any other wires or cables.

Power Supply

The compact TT PSU uses exactly the same high stability crystal locked low distortion sine wave generator as is used in the heart of the P9 power supply. This, along with an efficient drive amplifier fed from a stabilised DC power supply, generates a 24V AC balanced signal of less than 0.05% distortion, which is completely un-affected by any changes in the mains/line voltage and conditions. This then drives the improved Rega anti-vibration circuit, which is situated beneath the turntable.

The speed change is achieved by changing the frequency of the drive voltage; this is because the speed of the platter and motor is directly proportional to the motor drive frequency. A relay switches in the required phase compensation & anti vibration circuit to eradicate motor vibration to a minimum at both speeds.

The recommended tracking force can now be applied by means of the tracking force control - always use a force which corresponds to the upper limit of the cartridge makers recommended range.

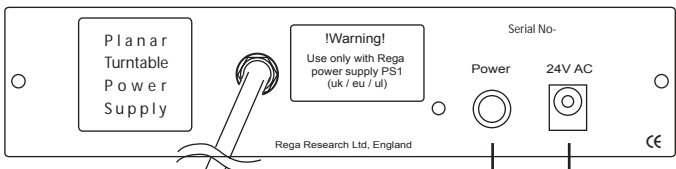
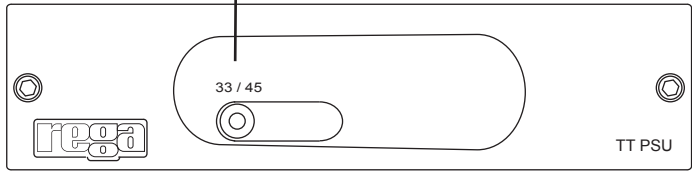
Set the bias adjustment slider to the same number as the tracking force control.-
I.e. 1.5 g tracking force = 1.5 on the bias slider.

Your turntable is now ready to use.

TT PSU:

Red - Power's on, and 33 rpm selected
Green - 45 rpm selected

Turntable speed control

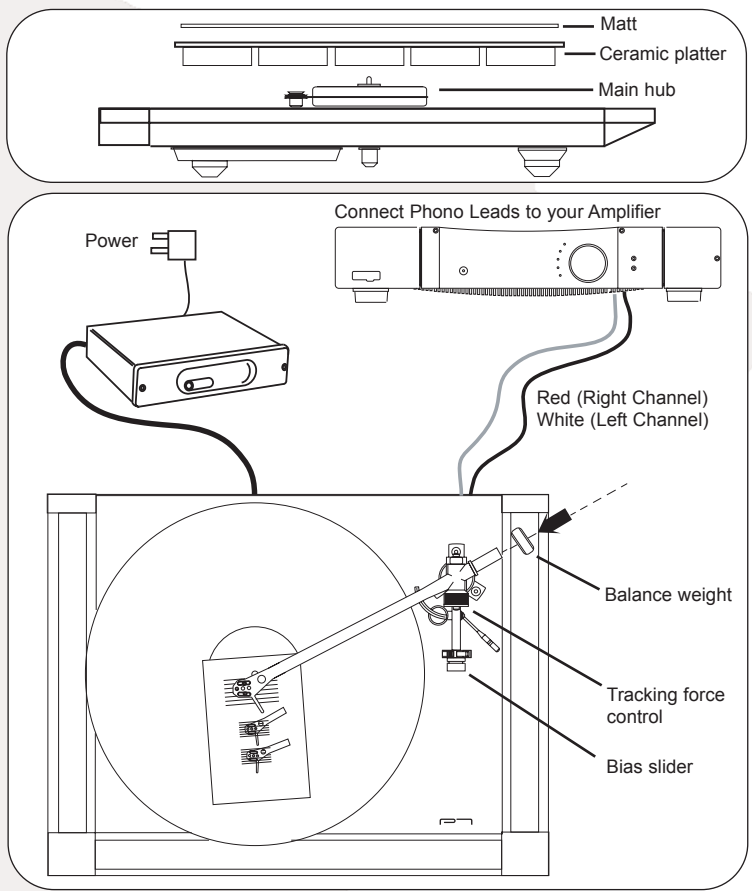


Connect to turntable

On/Off Switch

Connect to Rega PS1 24V transformer.

Turntable:



Turntable

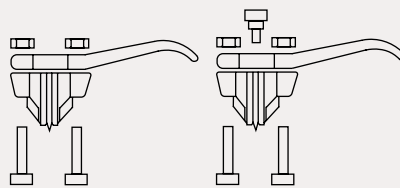
Set tracking force.

Fit the cartridge to the tonearm (this should have been done by your hifi dealer!).

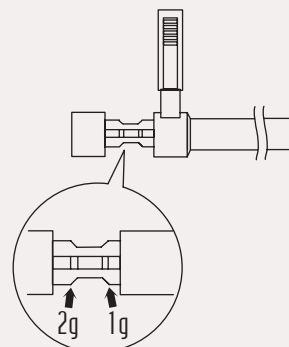
Note: If you are going to use another manufacturer's cartridge, please be aware that they may use deeper bodied cartridges than our own. It may be necessary to add our "Rega Arm Spacers" to obtain correct VTA (Vertical Tracking Alignment). 2mm, 4mm and 10mm sizes are available and a sleeved arm nut is supplied for use with 4mm and above. The spacers simply sit underneath the arm raising it to the required height.

See page 7 for Turntable diagrams.

With the cartridge fitted using the alignment protractor supplied, ensure that the tracking force control and bias adjustment slider is set to zero. Slide the balance weight along its shaft until the stylus is "floating" just 1mm clear of the record. It is worth noting, that the tonearm will drift back to the bias housing; this is perfectly normal due to its virtually frictionless bearings.



Blue: LH Earth	Red: RH Signal
Green: RH Earth	White: LH Signal



Bias adjustment

Grooves on the bias shaft indicate bias weight in Grams. When fully extended, bias adjustment is at 0g. Push in to the first mark for 1g and to the second for 2g.

Power Supply/Turntable setup:

The tips we give here will help to give you maximum musical enjoyment and ease of use for many years.

Carefully remove the turntable from the packaging.
Place the turntable on a flat surface, (see hints and tips).

Ensure the tonearm interconnects are connected to your amplifier (switch amplifier off first).

Connect TT PSU to the mains using the lead supplied.

Connect the turntable power interconnect from the PSU to the turntable.
Make sure the mains transformer is plugged in and connected to the PSU -
switch on.

Push the power button on the back of the PSU to turn on:
When the power supply is switched on, the front power L.E.D. switch will light up red. This also indicates that 33 rpm is selected. To deactivate 33 rpm press the button inwards, this will turn the L.E.D. to green and will have selected 45 rpm. To deactivate 45 rpm press the button again and the L.E.D. will return to red re-selecting 33 rpm.

To switch off at any time, simply press the power switch on the TT PSU.