

THE RECORD PLAYER

RG-1 Reference Groove | **SG-1** Super Groove
Precision Record Player System



User & Setup Manual
General Use



Version 3.4



VERTERE™

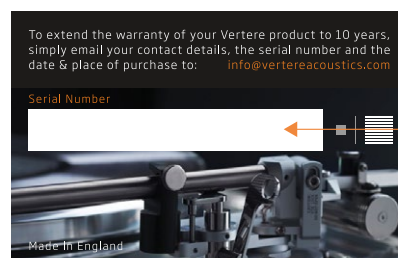
Introduction

Thank you for your purchase of the Vertere RG-1 / SG-1 Record Player. Please study these instructions carefully. Your Record Player is designed and manufactured to the highest standards and its correct installation will greatly enhance the sound quality of your record playing system rewarding you with many years of listening pleasure.

Guarantee

Your Vertere Record Player is guaranteed against any defect in materials and workmanship for a period of two years from the date of purchase. You can extend this period to **ten years** by registering your warranty on the Vertere website - vertereacoustics.com

Make a note of the serial number(s) on your warranty card for future reference - please retain the card



Serial Number(s)

This guarantee excludes:

1. Damage caused due to accident, misuse, neglect and incorrect installation, adjustment or repair.
2. General wear & tear.
3. Liability for damage or loss during transit from the retailer or purchaser to Vertere or its authorised distributor for the purposes of repair or inspection.

Carriage costs to Vertere shall be borne by the consignor.

All claims under this guarantee must be made through an authorised Vertere retailer. If equipment returned for repair to Vertere is found on inspection to comply with the product specification Vertere reserves the right to make a charge for examination and return carriage.

There are no user serviceable parts inside your record player, tonearm or motor drive components. Unauthorised servicing will void this guarantee.



Maintenance & Cautions

IMPORTANT

After clipping the arm in, placing the stylus guard on and switching the motor drive off the record player may be cleaned with the supplied micro fibre cloth or a lightly dampened soft cloth or soft brush.

Take extreme care not to damage the cartridge stylus, motor pulley or the platter.

Do not undo or tighten any of the screws which are not indicated and described as adjustable in the following pages.

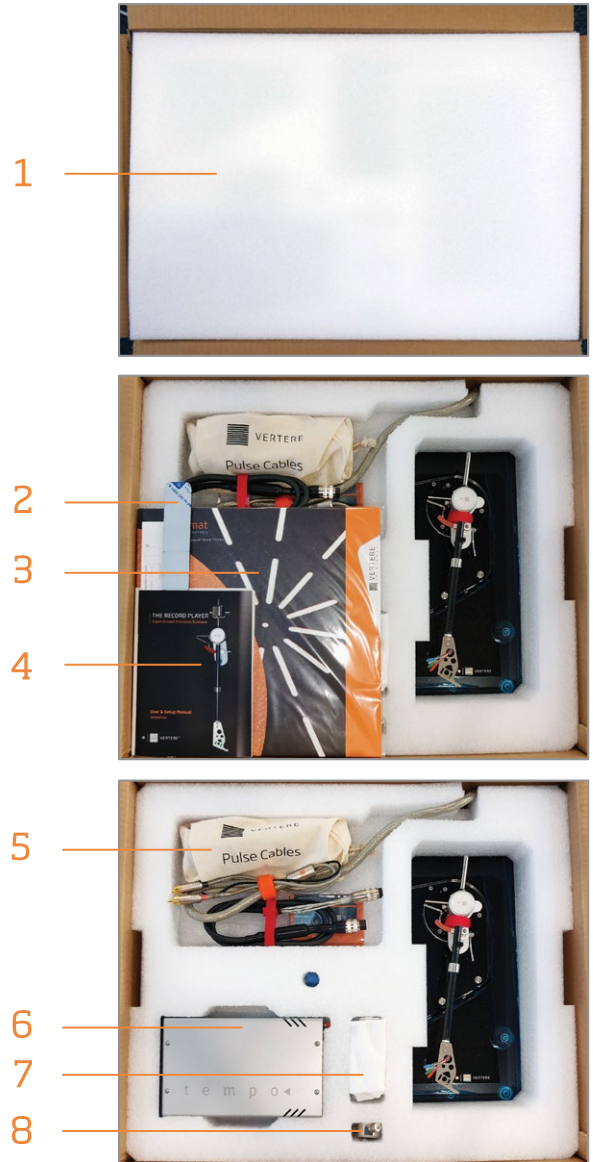
Do not apply undue force on any of the record player or tonearm/cartridge parts.

Avoid using abrasives or solvents on your record player.

Unpacking

Your RG-1 | SG-1 record player comes packed with:

- 1 Top Packing Foam Pad
- 2 In-between Plinth Cleaner Handle
- 3 Technomat
- 4 User Manuals
RG-1 | SG-1 + Tempo Motor Drive & Tonearm If Supplied
- 5 DC-1 Power Supply or AC Mains Lead Bag
DC-1 Plug-in Wall Power Supply & Mains Connectors, **H**
OR
Standard AC Mains Lead (or **Redline**), **K**
- When Supplied With **CHALLENGER**
- 6 Tempo Motor Drive - When Supplied
Factory Tuned to the Record Player Motor
- 7 Pair Of Cotton Gloves, **J** - Drive Belt, **A** -
SG Tonearm Accessories (When Tonearm Fitted)
& Spindle Cap, **F** - Spirit Level, **D**
- 8 SG-1 PTA Main Counterweight (When T/A Fitted), **G**



CONTENTS:

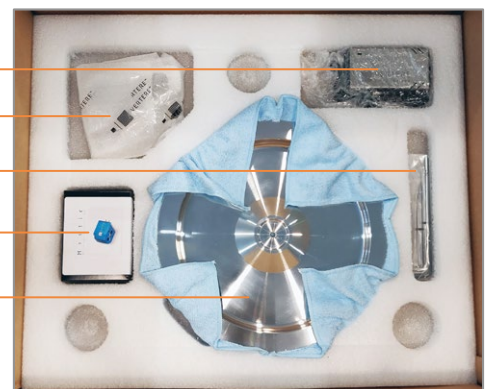
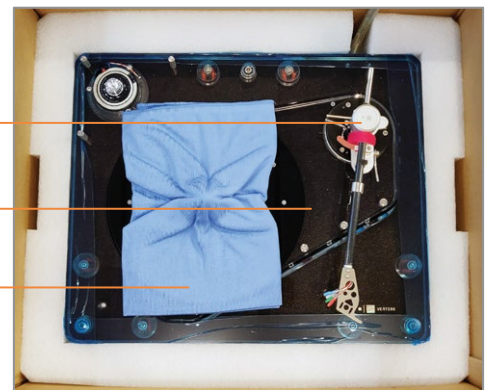
- A** Precision Drive Belt
- B** Warranty Card & Optical Cleaning Cloth
- C** Tempo Dedicated Motor Drive Link Cable
- D** Spirit Level
- E** SG-1 PTA Alignment Protractor
- F** SG-1 PTA Accessories Pack & Spindle Cap
- G** SG-1 PTA Main Counterweight
- H** DC-1 Power Supply (Incl. UK, EU, US & AU Plugs)
- J** Pair Of Cotton Gloves
- K** AC Mains Cable - Standard or **Redline**
(Incl. UK, EU, CH, US & AU Plugs)
- When Supplied With **CHALLENGER**



Unpacking - continued

- 9 SG-1 PTA Tonearm +
veRum or Redline Tonearm Cable
- When Factory Fitted
Optional:
SG HB version with HB Internal Wiring & HB Tonearm Cable
- 10 RG-1 | SG-1 Record Player - Metallic Black
Available Also In;
Clear, Pearlescent White and Champagne Finishes
- 11 Protective Micro Fibre Cloth - Positioned On the Spindle

- 12 **CHALLENGER** DC Supply
- When Supplied
- 13 Motor Cover Panel
- 14 Allen Key Set
3.0mm, 5.0mm A/F Hex & T30 Torx
(& 1.5mm, 2.0mm, 2.5mm - If Factory fitted with SG-1 PTA)
- 15 Mystic Packaging Box
- When Factory Fitted
- 16 Main Platter



Record Player Preliminary Preparation IMPORTANT

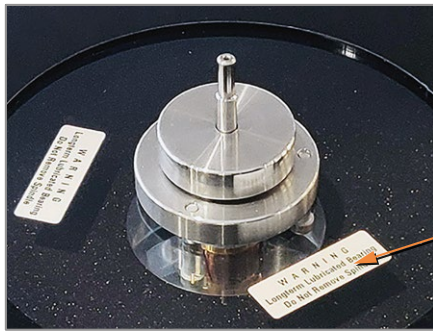
- Using the protective gloves supplied, carefully remove the Record Player and Tonearm (Where fitted) from the packaging and place on a suitable, rigid, level, equipment rack or table.
- Remove the **Tempo, Imperium** or **RG Reference Motor Drive**, as supplied with the record player and place it on another shelf on the rack or a suitable surface nearby.
- refer to its **User Manual**. **Do not** power the Motor Drive just yet.
- Remove all other accessories and cables from the packaging.
- Leave the Platter in the packaging until later.
- follow the instructions below.

Note: If at all in doubt, stop and contact your Vertere retailer, distributor or Vertere directly for advice.

Main Bearing | Platter _____ IMPORTANT

- **Do not** remove the main bearing Spindle from the main bearing Housing - ***
The record player bearing is Long-term Lubricated and would not require servicing or re-lubricating for 7-10 years.
- If the spindle is inadvertently removed it will require a qualified service personnel to re-lubricate the bearing correctly and to refit the spindle.
Contact your local Vertere retailer, distributor or Vertere for further assistance.

Note: Sub-plinth label indicating Long-term Lubrication of the bearing.



W A R N I N G
 Long-term Lubricated Bearing
DO NOT Remove Spindle

Fitting The Platter

Carefully peel off and remove the blue protective film(s) from the record player plinth.

Using the supplied gloves remove the platter, 16, from the packaging. Carefully and gently place the platter onto the spindle block.

SG-1 Platter:

Look through the spindle hole in the platter to help locate the top of the spindle and to avoid any accidental damage to the platter underside.



RG-1 Platter:

RG-1 Platter does not have a Spindle hole instead it has a Spindle Block locating pin on underside of the platter which will fit into place as the platter is positioned gently onto the spindle block.

- See opposite



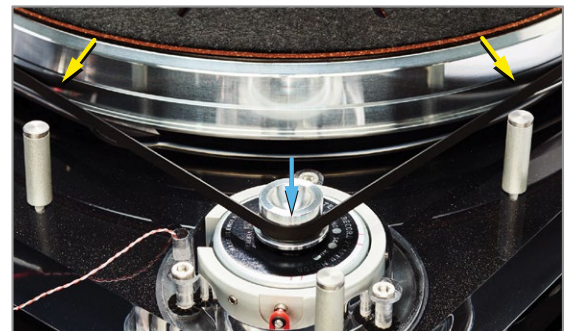
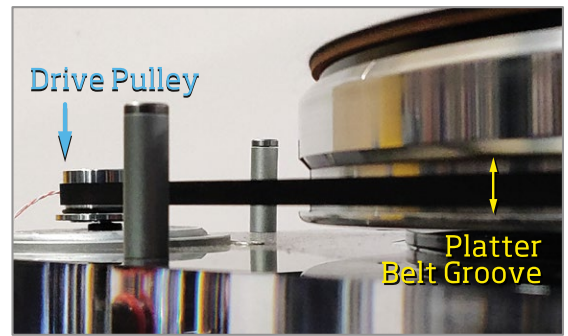
Fitting The Drive Belt

You can fit the drive belt once the platter is correctly placed and located onto the main Spindle Block.

Remove the drive belt, **A**, from the packaging and carefully place the belt around the platter belt groove and the motor drive pulley.

Gently rotate the platter by hand to ensure the belt is seated correctly in the platter belt groove and around the motor pulley.

- See opposite.



Levelling The Record Player

Using the three adjustable feet, level the record player and check the level on the Platter with the spirit level provided as shown opposite on the platter centre.

- Check on two or three positions to get an average

Be careful when placing the spirit level to avoid accidental damage to the machined surface.



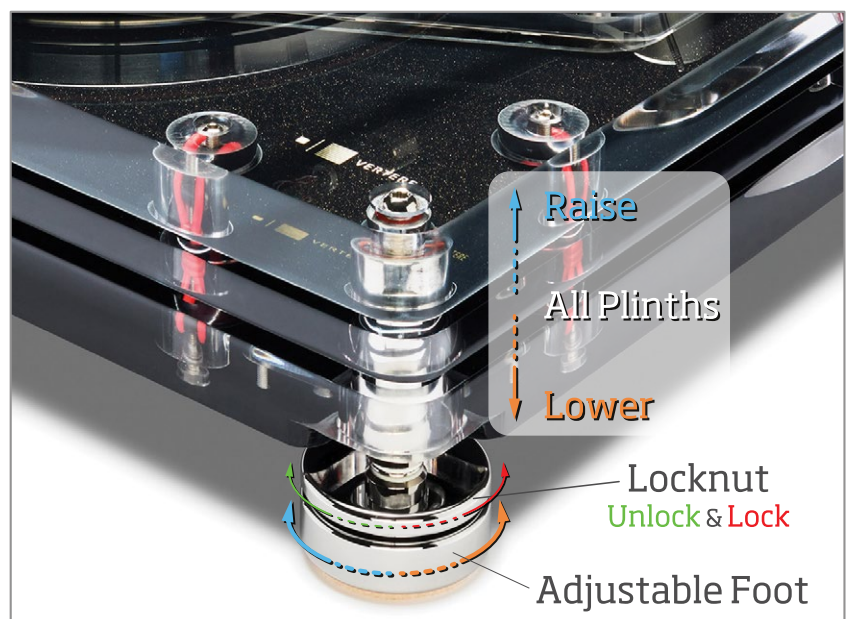
Unlock the Adjustable Foot Locknut.

Turn the foot as shown to **Raise** or **Lower** the record player (All Plinths) at that point - use all three feet as required to level the record player.

Once the record player is level, (Indicated by the spirit level), **lock** the Adjustable Foot using the Locknut as shown.

NOTE:

This adjustment only affects the entire record player level.



Relative position and gap between the plinths will remain the same as before.

Connecting the Motor Drive

Connect the Tempo Motor Drive, **6**, to the record player using the supplied dedicated Motor Drive link cable, **C**, and position it where the motor cable is not entangled or twisted.

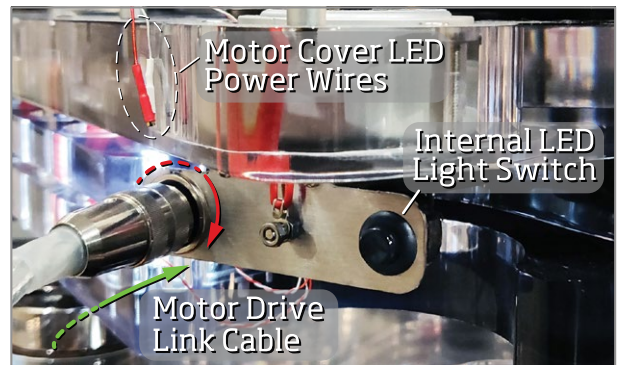
- Refer to Tempo Motor Drive User Manual

Check the motor link connectors at both ends are plugged in and screwed on fully.

Ensure the Internal LED Light Switch is **OFF**, and

that the Motor Cover LED Power Wire Connectors are in the protective polybag and that they are not touching each other or any metal part of the record player to avoid accidental short.

Plug the DC-1, **H**, power supply to the wall mains socket and the front White power LED indicator on the Tempo Motor Drive should now illuminate.



Selecting Speed & Checking The Running Of The Belt

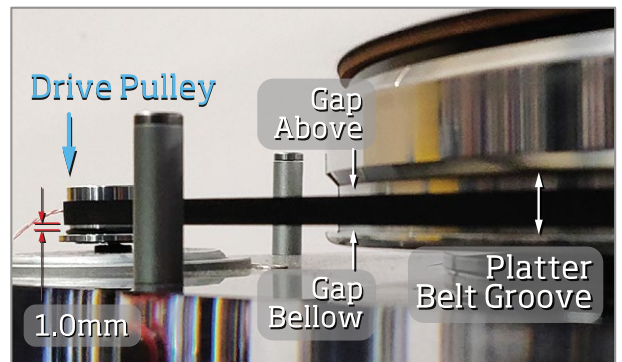
Press the speed selector button on the Tempo and the speed LED indicator should illuminate Green and the platter should start rotating at 33 rpm.

Check 45 rpm speed by pressing the speed selector button again. This button toggles between 33 & 45.

- Refer to Tempo Motor Drive User Manual

Note: The drive belt should run approximately in the middle of the belt groove on the platter, preferably a little towards the bottom part, and about 1.0mm above the black O-ring on the pulley.

- See opposite.



PLEASE NOTE

Your RG-1/SG-1 record player motor alignment would have been already set prior to testing and shipping and it shouldn't require further adjustment. However if for any reason it requires re-adjusting refer to Motor Adjustment instructions on Page 14.

Reference & Imperium Motor Drives

If you have opted for either the Imperium or the RG Reference Motor Drive for your record player then please refer their corresponding user manuals for correct installation.

Motor Cover Panel

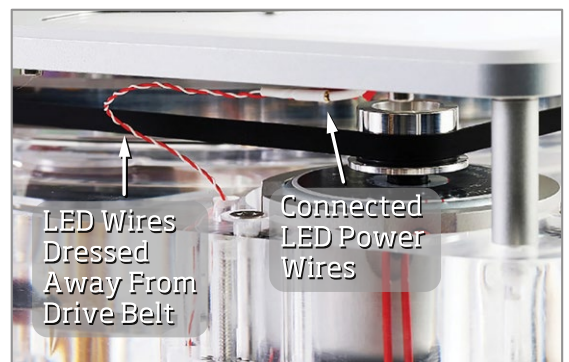
The Motor Cover Panel, 13, is magnetically attached onto its three support pillars. Before resting the cover on the pillars carefully attach the LED power wire connectors.

- Red to Red & White to White

Take care while doing this not to damage or scratch the surface of the plinth. Use the blue microfibre cloth if necessary.

Once the LED Power Wires are connected, gently place the motor cover panel onto the three pillars and it will magnetically 'click' attach and fix itself. Now push the Internal LED Light Switch ON. Record player's internal mood/motor LED light and the Motor Cover Panel light should now illuminate.

Make sure the LED power wires are carefully dressed away from the drive belt as shown opposite.



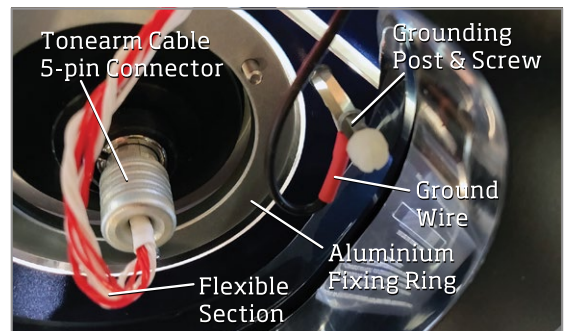
Tonearm Cable Dressing

With a factory fitted tonearm, the tonearm cable would have already been fitted and setup on the record player.

Factory fitted cables are:

Redline, **veRum Solo** or **HB**

It is important to ensure that the flexible section of the tonearm cable leading to the 5-Pin connector is plugged into the bottom of the tonearm. Also ensure that the wires are gently curved and do not interfere with any part of the Top, Mid and/or the Base plinth.



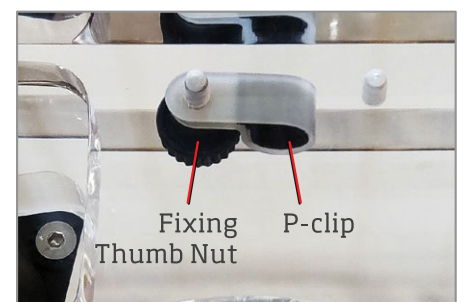
IMPORTANT: DO NOT Press the connector in fully and tightly.

This is unnecessary and will make unplugging the connector in the future difficult. If you encounter this situation, do not pull the connector out using excessive force. Instead, use a medium size flat blade screwdriver and wedge between the connector body and the bottom of the tonearm pillar and gently lever it out.

Tonearm Cable Clamp

The section of the tonearm cable where it protrudes from the record player is securely clamped to the Top plinth by a P-clip and the fixing thumb nut as shown.

This acts as a mechanical grounding point for the tonearm cable to help eliminate unwanted vibrations and disturbances from reaching the pickup part of the tonearm.



Factory fitted **veRum Solo** cable is clamped using the Vertere TA Cable Saddle Clamp as shown.

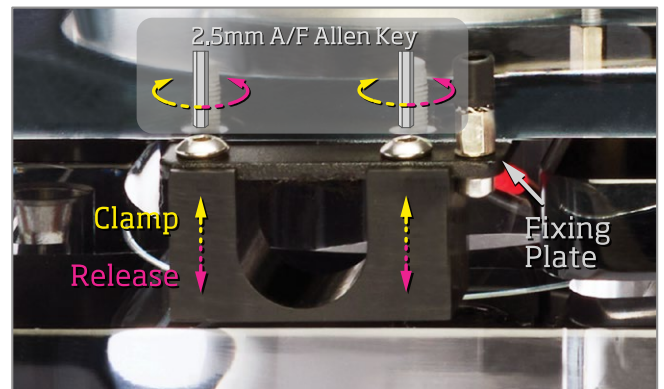
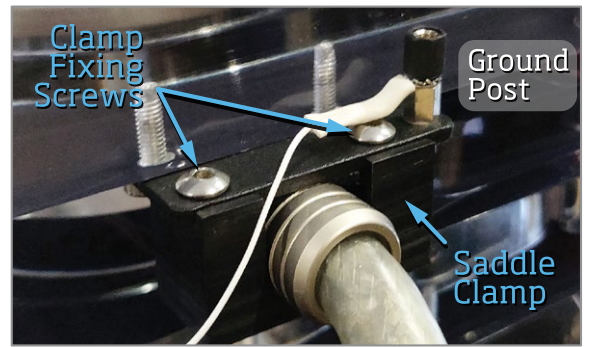
VeRum Solo's special cable barrel allows optimum clamping and grounding of the cable as shown.

The Saddle Clamp incorporates an internal earth wire to the Sub-plinth and the Main Bearing so that the tonearm ground wire can be attached externally to the Saddle Clamp's grounding post as shown.

This facilitates easy removing and reattaching of the tonearm cable.

The Saddle Clamp is adjusted as shown using the 2.5mm A/F Allen key, **14**, to release or tighten it from or onto the Fixing Plate.

The Fixing Plate is secured to the Top Plinth via two fixing screws - this plate should not be adjusted or removed.



Tonearm & Cartridge Setup

You can now fit the phono cartridge and setup the tonearm by following the tonearm and cartridge manufacturer's User Manuals.

Note: The SG-1 tonearm when factory fitted would already be set level with the platter.

Refer to SG-1 PTA user manual for full setup and alignment instructions.

Platter/Arm-board, Sub-plinth & Mid/Base Plinth Relative Levels | For Reference Only

Please note the following adjustments are often **NOT** required as record players are factory setup before shipment.

- A/B | C**
Mid/Base plinth relative to Top plinth
- D | C**
Sub-plinth relative to Top plinth
- E | D**
Platter level relative to the Sub-plinth
- F | E**
Arm-board level relative to the platter



For any adjustments refer to pages; 11, 12, 13 & 14

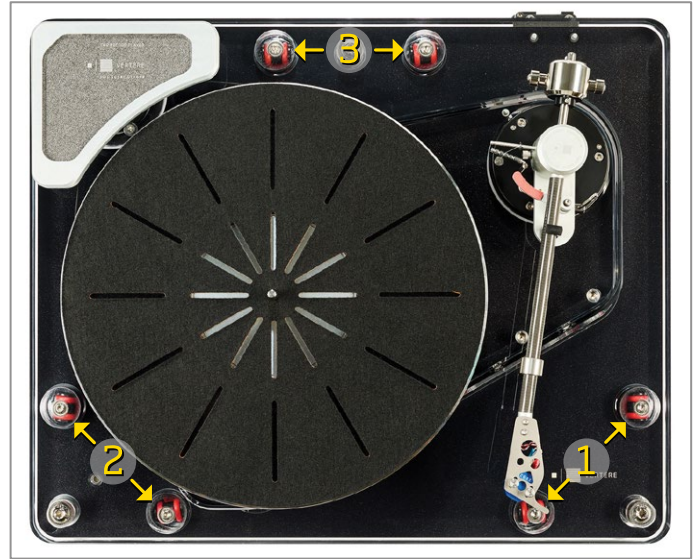
Base/Mid Plinths & Sub-plinth Adjustment

- Only if required






There are three pairs of Suspension Bobbins, 1, 2 & 3. There is a Bobbin Adjusting Screw for each assembly on the Top Plinth - as shown. These thread through the bobbins and can be used to move the suspension bobbin assembly up or down to lower or raise the Base/Mid plinths and the Sub-plinth as one assembly all together. - As illustrated.

It is important to restrict the suspension bobbins from rotating while adjusting their height and this is easily done by gently sliding an Allen key or a small screw-driver in between the suspension rings as shown in the pic.

- Be careful not to scratch the plinths.



Guide:

-  : Tighten - Raise
-  : Loosen - Lower
-  : Restrict Bobbin Rotation
-  : Similar Gap - Approx. 5-6mm
-  : Sub-plinth Level or marginally higher than Top plinth - 1.0mm



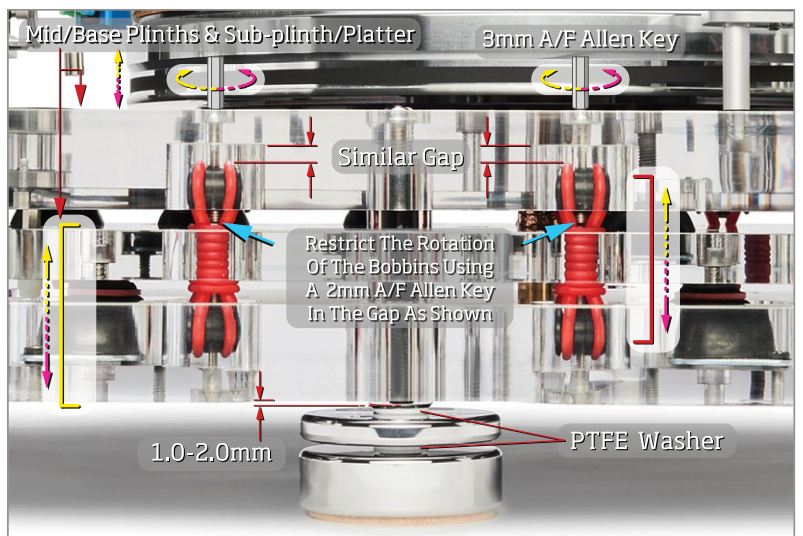
Important:

Adjust the suspension bobbins until there is at least 1-2mm gap between the underside of the Base plinth and the Foot Pillar chamfer.
- As indicated on the image.

Note:

Adjust the suspension bobbins in pairs to ensure Similar Gap (clearance) above each pair.
- As indicated on the image.

* Mid/Base Plinth Gap is factory set and cannot be adjusted.



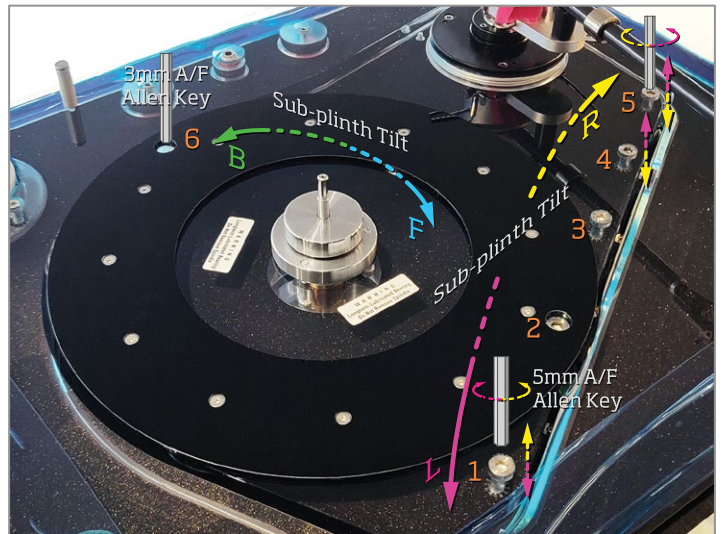
Sub-plinth Adjustment - Only if required

There are six fixing bolts that also allow changing the Sub-plinth tilt and level.
- As indicated.

Sideways Tilt & Level

Only fixing bolts **1**, **4** & **5** are required to tilt the sub-plinth in the directions **L** and **R**.

Tightening these bolts by a fraction will **lower** the sub-plinth at those positions while **undoing** them by a fraction will **raise** the sub-plinth at those positions. This tilts the sub-plinth sideways (**L** and **R**). See opposite.



Front/Back Tilt & Level

Screw no. **6** however, cannot be used for sub-plinth tilt adjustment in the same way as **1**, **4** & **5**.

This screw links the sub-plinth directly to the de-coupler under it, so tightening or undoing the screw will neither affect the tilt nor the level - it will simply thread up and down without any level change. For any required adjustment, this screw should first be undone until the screw disengages from the de-coupler thread.

Undo no. **6** screw very slowly until you can hear the thread make a **clicking sound**.
- Stop immediately once you hear the click.

Direction B

To tilt Backwards continue to undo the screw and lower the sub-plinth at this position.

With every click the level will drop down by 1mm.

Once the required level/tilt is reached then begin to tighten the screw by **2 to 4** turns to re-engage its thread with that of the de-coupler which will link the two together again.

Note: Just undoing or doing up this screw does not affect the sub-plinth level or tilt.

Direction F

To tilt Forwards however, the procedure is different to that of the backwards tilt.

First ensure that the screw has fully disengaged from the de-coupler thread by gently lifting the sub-plinth off of the de-coupler. If you can, then the screw has disengaged fully but if not, then undo the screw slightly further to get it to disengage. Once the screw has fully disengaged then lift the sub-plinth off by the amount that it should be raised and hold it in that position. While keeping the sub-plinth in that position, begin doing the screw up until it starts engaging with the de-coupler thread. Check the tilt/level is ok and if so continue doing the screw up for **2 to 3** more turns.

If not then repeat the above procedure but this time hold the sub-plinth higher or lower as required for the correct tilt/level and re-check. - Repeat until the tilt/level is correct.

Arm-board Rotational Alignment

RG-1/SG-1 Arm-board has three fixing screws, **1, 2 & 3** as shown. These engage with the Lower Aluminium Arm-board Fixing Ring and allow rotational alignment adjustment. Slightly loosen these to allow rotation of the arm-board as shown. Once the correct alignment is achieved, tighten the screws to secure the arm-board to the sub-plinth.

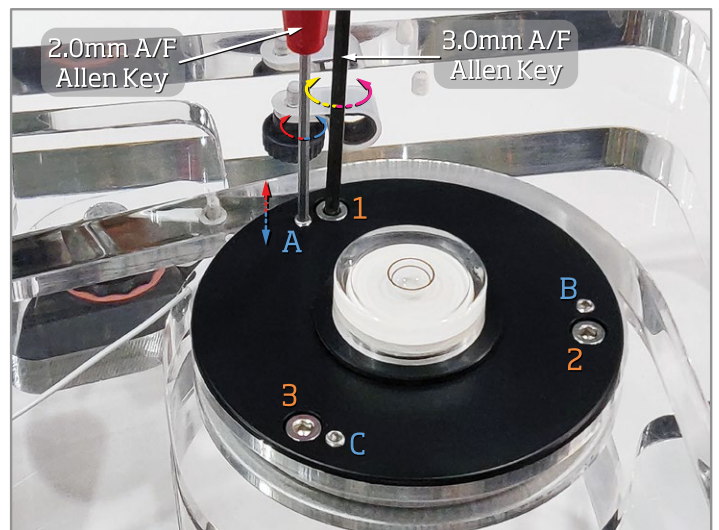


Arm-board Azimuth Adjustment





In addition to the fixing screws there are three Azimuth Adjustment Screws, **A, B & C** as shown opposite.

The Azimuth Adjustment Screws, **A, B & C** are threaded into the arm-board and press against a stainless steel Trust Ring directly under the arm-board. Arm-board azimuth adjustment is thus provided by raising or lowering the arm-board at that location when these screws are tightened or loosened accordingly as shown opposite.

First slightly loosen the arm-board fixing screws **1, 2** or **3** to allow raising or lowering of the arm-board at those points. Now using the Azimuth Adjustment Screws, **A, B** or **C** adjust the arm-board azimuth as required.



Quick Guide

-  : Loosen arm-board fixing screw
-  : Tighten arm-board fixing screw
-  : Arm-board Up at that point
-  : Arm-board Down at that point

First ensure the Platter is level using the record player feet. Next check and adjust the Arm-board Azimuth until it is level with the Platter.

Once the correct azimuth is set, gently tighten the fixing screws - DO NOT over tighten.




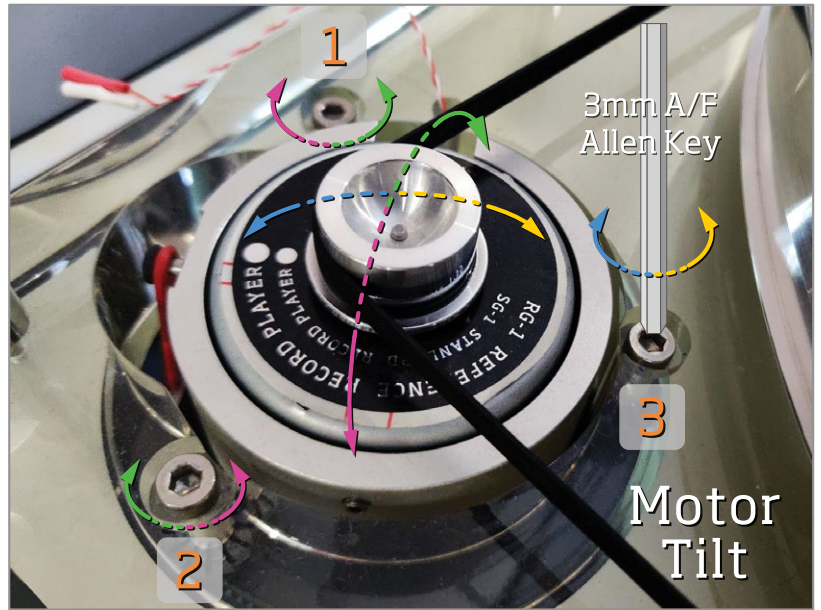
IMPORTANT: Arm-board Alignment & Azimuth are factory set - readjustment would only be required if the arm-board has been removed for fitting the tonearm.

Belt Running Position

The three Motor Assembly fixing bolts (1, 2 & 3), as shown, are also used to fine-adjust the alignment of the motor which determines the running position of the drive belt on the motor pulley.

Quick Guide

-  : Belt Position Up on Pulley
-  : Belt Position Down on Pulley



Adjustment Procedure

Gently tightening any of these bolts will move the motor body up at that point while gently undoing of the bolts will consequently lower the motor body at that point - See Motor Tilt above

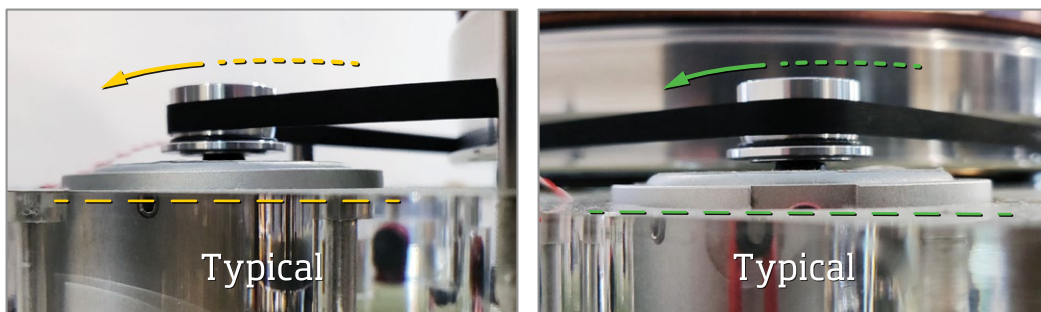
By tilting the motor body using bolts 1 & 2 such that the motor body is slightly lower at bolt position 1 will move the running position of the belt Down on the pulley.

Similarly moving the motor body up at bolt position 3 will have the same effect of lowering the running position of the belt.

The opposite of the above two adjustments will move the belt position Up on the pulley.

Note:

The Motor Tilt should always be slight and generally no more than a few degrees.



It is also **very important** that none of the fixing bolts have been undone to the point of being loose or excessively tight.

There should always be a reasonable amount of tightness to ensure the Motor Assembly is firmly secured to the top plinth and it is not 'floating' off of the plinth.

Platter Alignment Adjustment

- Only if required

The three Main Bearing fixing bolts **1**, **2** & **3** as shown, are also used to fine-adjust the alignment of the Platter if required.

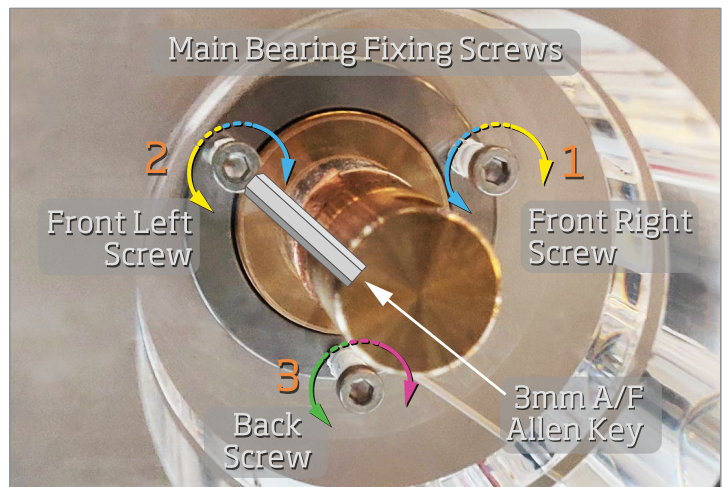
Fixing bolts **1** & **2** adjust the **Left/Right** alignment and bolt **3** adjusts the **Front/Back** alignment.

By slightly tightening bolt **1** and slightly undoing bolt **2**, the platter will tilt in the direction **R** and by slightly tightening bolt **2** and slightly undoing bolt **1**, the platter will tilt in the direction **L**.

Correct alignment is when the gap between the underside of the platter on the Left and Right is equal. Now apply the same process to achieve an equal gap Front and Back by slightly tightening or undoing bolt **3**.

Note:

These bolts should be reasonably tight do not over-tighten if more tilt is required then undo the opposite side bolt(s) to achieve the correct alignment.



If you have any queries or question regarding this user manual or the procedures outlined, please contact your authorised Vertere retailer, Vertere distributor or Vertere directly.

Cleaning In-between Record Player Plinths

Use the supplied In-between Plinth Cleaner Handle & the Optical Cleaning Cloth to clean in-between the plinths. - As shown.

Simply pass half of the cloth through the slit and wrap it around and gently slide the cloth into the gap between the plinths. The cloth could be slightly dampened to help remove any dust or dirt.





For Full List Of Accessories & Upgrades Visit
www.vertereacoustics.com

