

THE RECORD PLAYER

Super Groove II Pathfinder Tonearm

SG **II** PTA

User & Setup Manual

General Use



Version 1.0

Introduction

Thank you for your purchase of the Super Groove II Pathfinder Tonearm. Please study these instructions carefully. Your SG Tonearm 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 Super Groove II Pathfinder Tonearm 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 Super Groove II Pathfinder Tonearm.

Unauthorised servicing will void this guarantee.



Maintenance & Cautions

IMPORTANT

After clipping the arm in, placing the stylus guard on and switching the amplifier off the tone arm may be cleaned with a lightly dampened soft cloth or soft brush.

Take extreme care not to damage the cartridge stylus, anti-skate weight/thread or the tone arm tri-pivot bearing by applying excessive force on any of the parts.

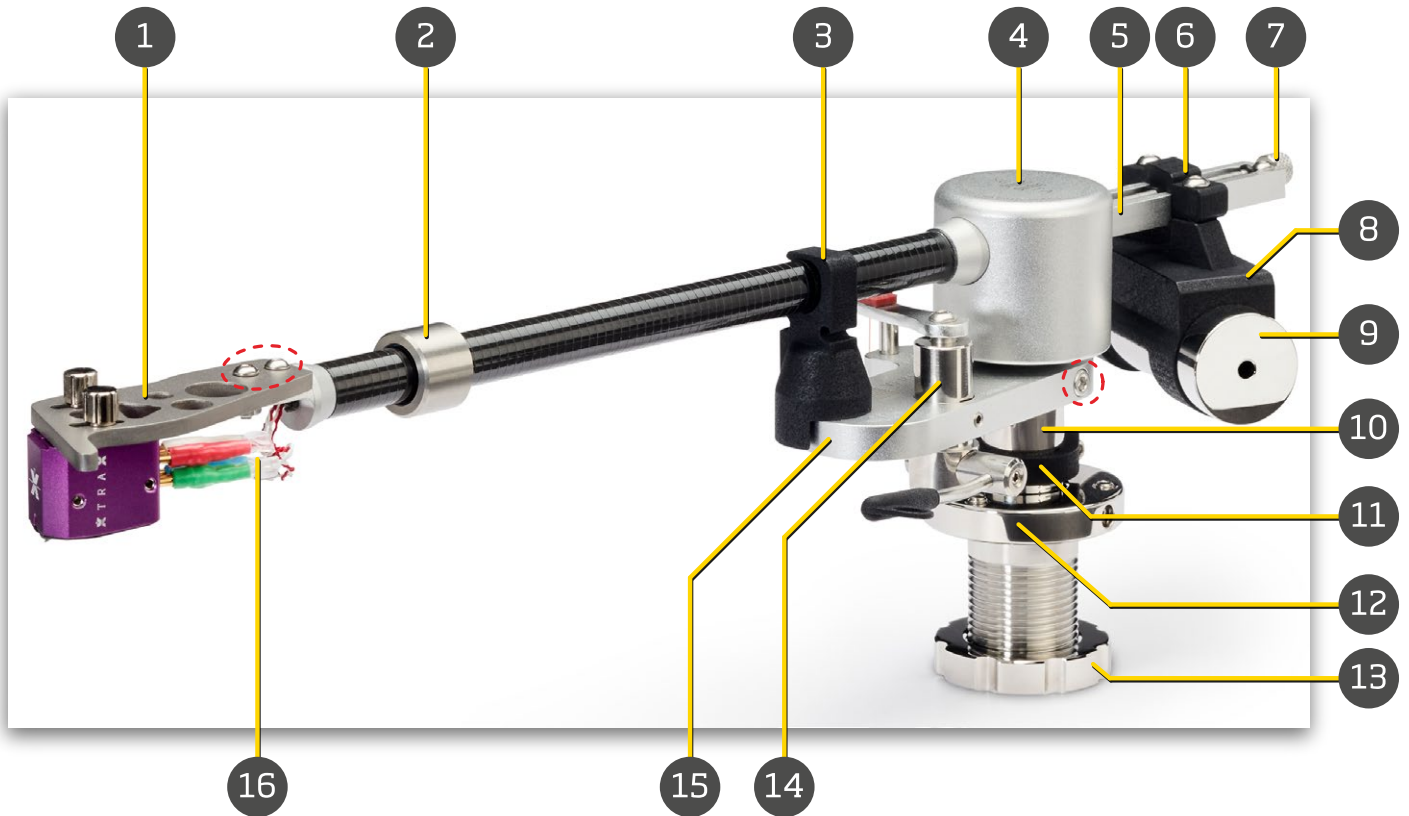
Do not undo or tighten any of the screws which are indicated as 'Not User Serviceable Part' in the following pages.

Do not apply undue force on any of the user adjustable screws or parts.

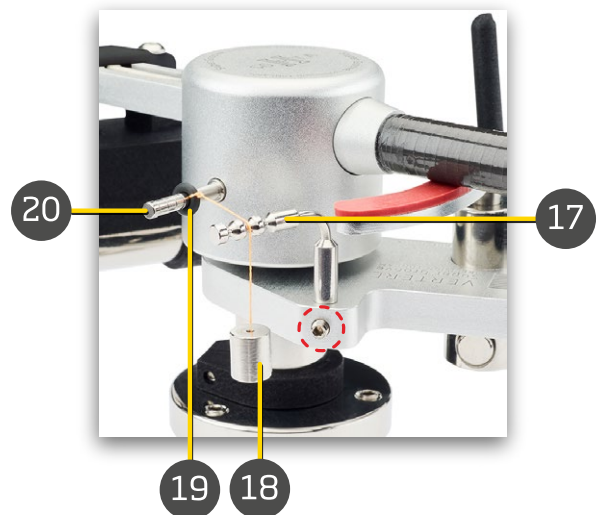
Avoid using abrasives or solvents on your Super Groove II Pathfinder Tonearm.

Overview

- 1 SG-II Titanium Head-shell
- 2 Effective Mass & Fine Tracking Force Adjustment Ring
- 3 SG-II Arm Clip - Arm Clip Transit O-ring Clamp
- 4 Main Bearing Yoke



- 5 Counterweight Main Beam
- 6 Counterweight Carrier
- 7 Counterweight Adjustment Screw
- 8 Main Counterweight
- 9 Counterweight End Disc (x2)
- 10 Tonearm Main Pillar
- 11 VTA Indexing Clamp
- 12 Tonearm Pillar Mount
- 13 Pillar Mount Fixing Nut
- 14 Lift/Lower Mechanism
- 15 Lift/Lower Plate
- 16 HB Lead Wires & Gold Plated Cartridge Tags
- 17 Anti-skate Bar
- 18 Anti-skate Weight
- 19 Anti-skate Adjustment O-ring
- 20 Anti-skate Rod



DO NOT undo or adjust These Screws

Unpacking

Your Super Groove Pathfinder Tonearm comes packed with:

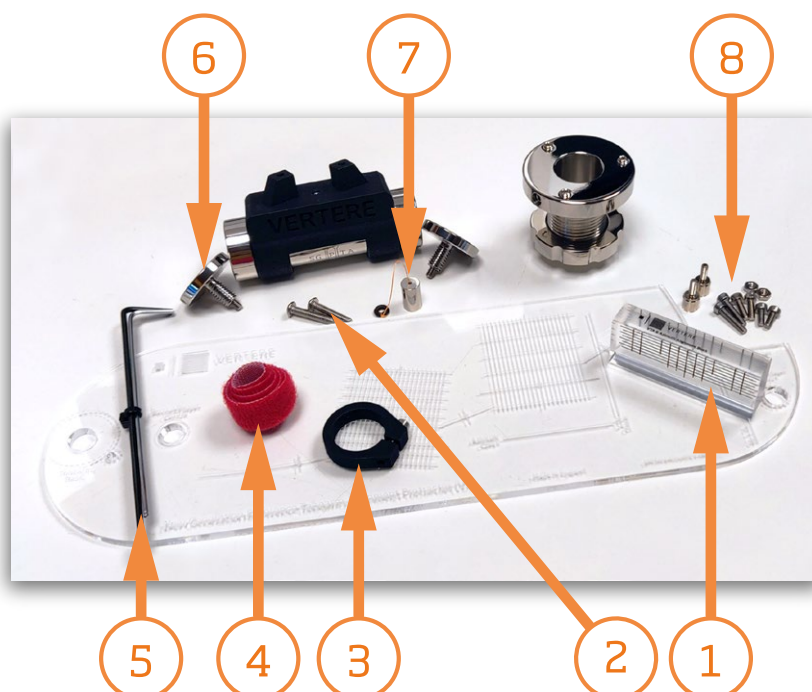
Main Packaging Case

1. SG-II Main Tonearm
2. SG-II Pillar Holder & Fixing Nut
3. SG-II Main Counterweight Fitted with Heavy Adjustable End Discs
4. SG-II Tonearm Accessories [See Below](#)
5. SG-II Alignment Protractor
6. Optical Cloth & Warranty Card



Accessory Pack

1. Azimuth Block
2. Counterweight Fixing Screws
3. VTA Fixing Collar
4. Transit Protection Velcro Strap
5. Allen Key Set; 2.0 & 1.5mm
6. C/W Light Adjustable End Discs
7. Anti-skate Weight Block
8. Cartridge Fixing Screws
Includes a pair of Vertere Stainless Cartridge Fixing Thumb Screws



Tri-Pivot Bearing Transit Protection

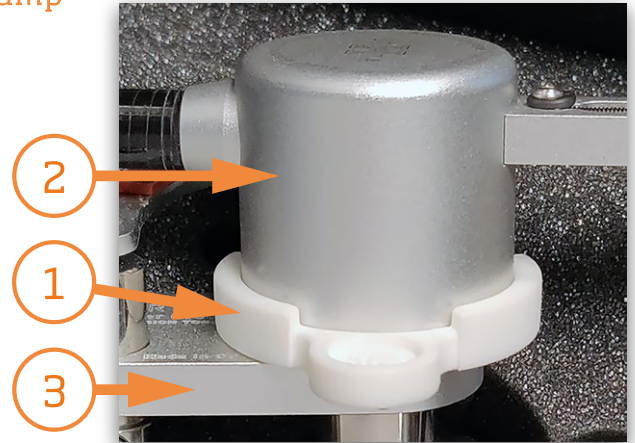
IMPORTANT

After removing the arm from its packing tray, observe the Bearing Protection Restraining Clamp, 'Penguin', placed and clipped into position in between the Main Bearing Yoke and the Lift/Lower Plate.

'Penguin' Bearing Protection Restraining Clamp

1. 'Penguin' Bearing Protection Restraining Clamp
Fitted in between the Main Bearing Yoke & The Lift/Lower Plater
2. Main Bearing Yoke
3. Lift/Lower Plate

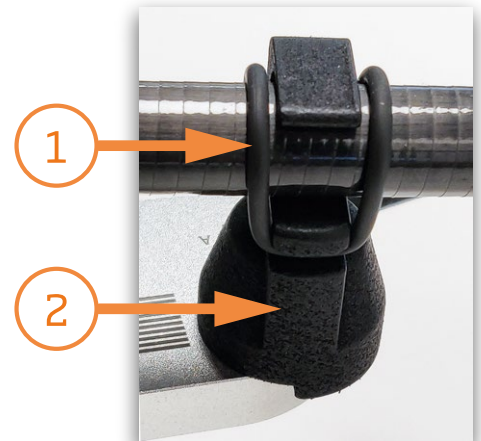
The 'Penguin' lifts and separates the tungsten carbide bearing point from the three silicon nitride balls to avoid any potential damage to the tonearm's precision bearing during transit.



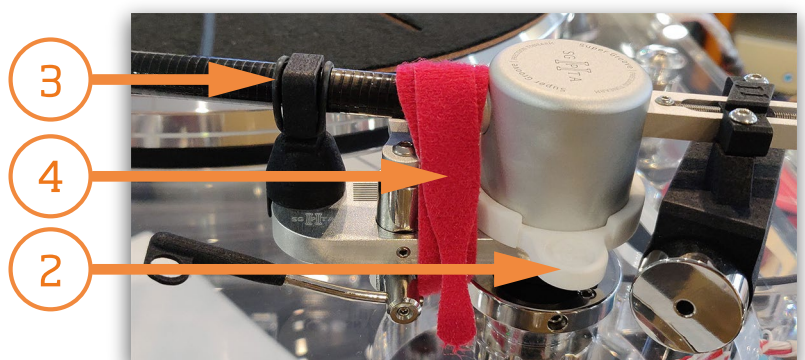
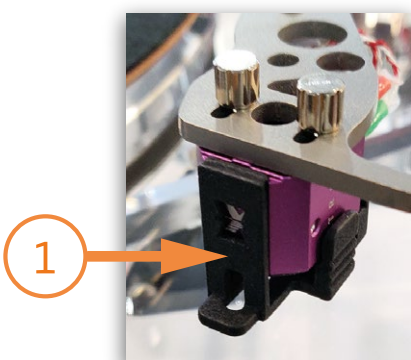
Arm Clip Transit O-ring Clamp

1. Arm Clip Transit O-ring Clamp
Fitted tightly and securely in position
2. Arm Clip

NOTE: The 'Penguin' & Arm Clip O-ring should always be fitted to protect the Tonearm Bearing from accidental damage while fitting the VTA Fixing Collar or the Cartridge and especially when fitting the tonearm into the arm Pillar Holder



Shipping | Transit Protection Detail



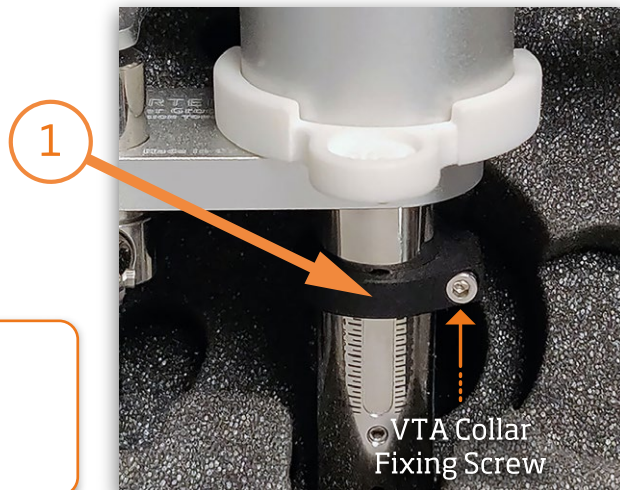
IMPORTANT Whenever the record player fitted with the SG-II & Cartridge is to be shipped, the Stylus Guard - 1, the 'Penguin' - 2, the Arm Clip O-ring - 3, & the supplied Velcro Protection Strap - 4, must first be fitted and then the Counterweight removed to protect the Tonearm & the Cartridge.

VTA Fixing Collar

1. VTA Fixing Collar

Fit the VTA Collar loosely onto the Arm Main Pillar before you start mounting the tonearm.

Observe orientation; It's best to fit the collar as shown with its fixing screw head on the same side as the pillar grid to allow easy access when setting up the tonearm and the VTA Collar.

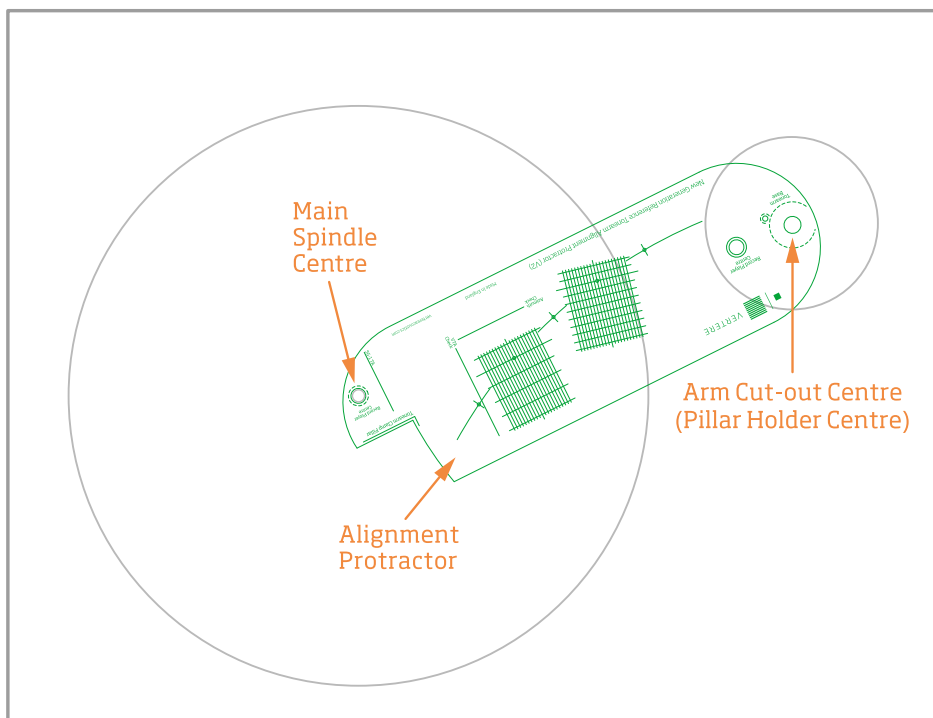


IMPORTANT

DO NOT yet fit the Main Counterweight until the tonearm is securely fitted into the Arm Pillar Holder on the Record Player

Fitting Instructions Of The SG-II Tonearm To Arm-boards & Plinths

To fit your SG-II TA to an arm-board of a turntable, other than a Vertere, follow these instructions. Your SG-II tonearm pillar holder should be fitted at 222.5mm from the main spindle centre. Using the tonearm alignment protractor, mark the centre of the arm pillar cut-out. Arm pillar holder cut-out hole diameter is 23mm. Use a suitable drill/cutter to cut this hole.



Please note any Roksan or Rega cutout arm-board may already be suitable for your SG-II tonearm.

Vertere **MG-1/RG-1/SG-1** record players can all be supplied with the correct tonearm cutout Simply fit the arm pillar holder to the arm-board or the **Sub-plinth** in the case of **MG-1** as per following instructions

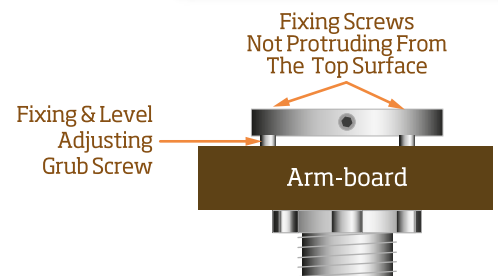
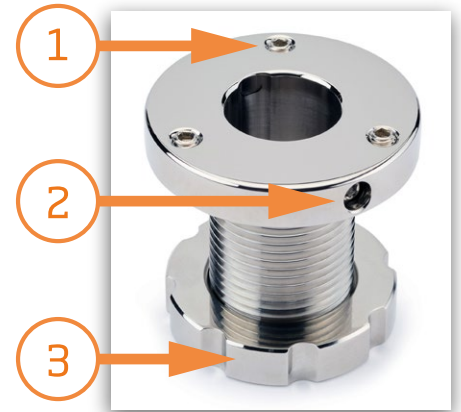
Fitting The Arm Pillar Holder

Make sure the three fixing grub screws are slightly loose and **below** the top surface.

This will help with placing a spirit level on the top for alignment.

The screws will later be used to align the Pillar Holder with the platter and fix it firmly to the arm-board.

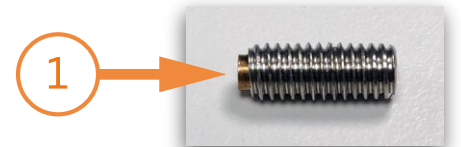
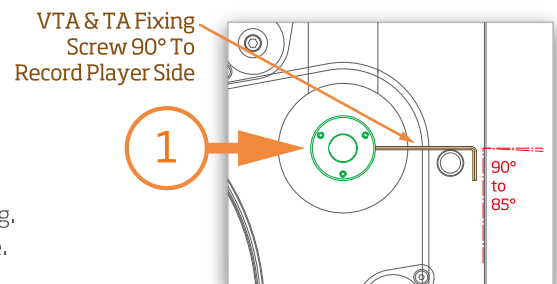
1. Level Adjusting & Pillar Fixing Screw (x3)
Ensure these are fitted approx. 1mm below the pillar top surface. The screws will protrude from the underside and will sit on the Arm-board or the Sub-plinth - in the case of MG-1.
2. Main Tonearm Pillar Fixing & VTA Adjustment Screw
3. Tonearm Pillar Holder Fixing Nut



Arm Pillar Holder Orientation

Make sure the pillar holder VTA adjustment and Fixing Grub Screw is 85°-90° to the side of the record player - as shown.

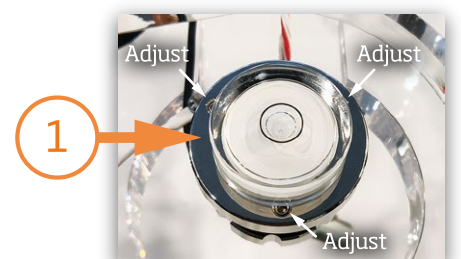
1. Arm Pillar Holder
Ensure correct orientation before Level Alignment & Final Fixing. This ensures the tonearm Lift/Lower Plate is parallel to the side.
1. VTA Adjustment & Tonearm Pillar Fixing Screw
Ensure this screw is the original and that it has not been replaced - This screw has a special Brass tip.



Arm Pillar Holder Levelling With The Platter

Levelling the Arm Pillar Holder with the platter ensures correct starting position of the tonearm regarding the headshell azimuth - Use the 3 Fixing Screws.

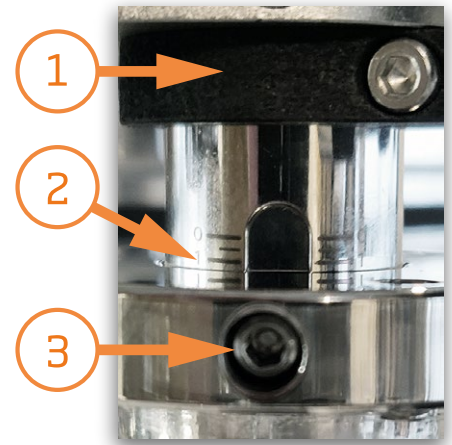
1. Level The Record Player
Using a good quality Spirit Level and place it on the platter as shown. Adjust the record player feet until the platter is level.
1. Level The Arm Pillar Holder
Now place the Spirit Level on the Pillar Holder Top to check its level. Gently adjust the 'Low' side by slightly tightening the screw near it. This will bring that side up a little and if necessary loosen the opposite two screws very slightly to lower the other side. Keep adjusting by small amounts until the Pillar Holder is level with the Platter.



SG-II Pathfider Tonearm Installation

With the pillar holder VTA adjustment Fixing Grub Screw sufficiently undone, fit the tonearm pillar into the pillar holder and gently tighten the Fixing Grub Screw with the Pillar initially between grid mark 1 & 3 - as shown.

1. VTA Fixing Collar
Loose and positioned towards the top - As shown
2. Main Tonearm Pillar
Initially positioned between marking 1 & 3 - As shown
3. Main Tonearm Pillar Fixing & VTA Adjustment Scw
Tighten after positioning the tonearm in place



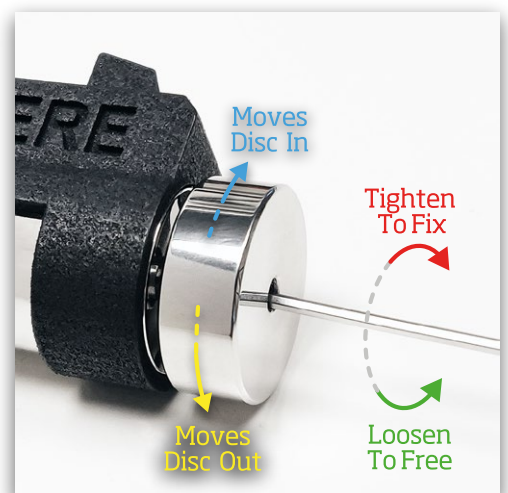
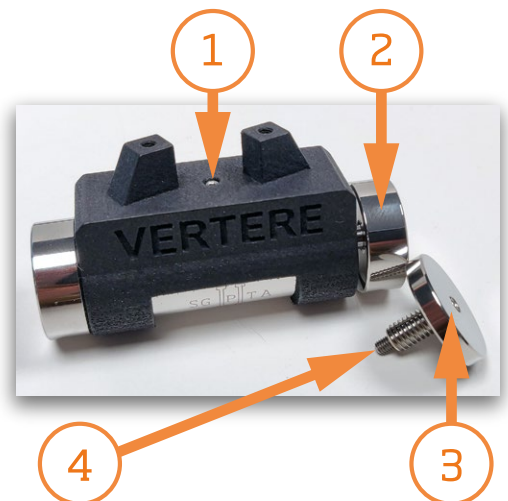
IMPORTANT

At this point the tonearm tube should be secured in the Arm Clip & the 'Penguin' fitted before attaching the Counterweight assembly

Installing The Counterweight

Before attaching the Main Counterweight to the tonearm CW Carrier check that the two End-weight Discs fitted are suitable to the cartridge weight you are using.

1. Main Counterweight Block Fixing Screw
This screw has to remain tight to inhibit the Main CW Block from moving - **DO NOT** Loosen
2. Counterweight End Disc, Heavy (x2) - Fitted
Pathfinder tonearm is supplied with these two heavy end discs fitted - Suitable for cartridges 8.0g and above
3. Counterweight End Disc, Light (x2) - Supplied
Replace with these Light End-weight Discs if your cartridge is below 8.0g
4. Counterweight End Disc Locking Screw
When loosened, the End Disc is unlocked and can easily be screwed IN or OUT allowing for Azimuth adjustment. After the adjustment the locking screw should be tightened. You may need to recheck the azimuth and fine adjust again.



NOTE

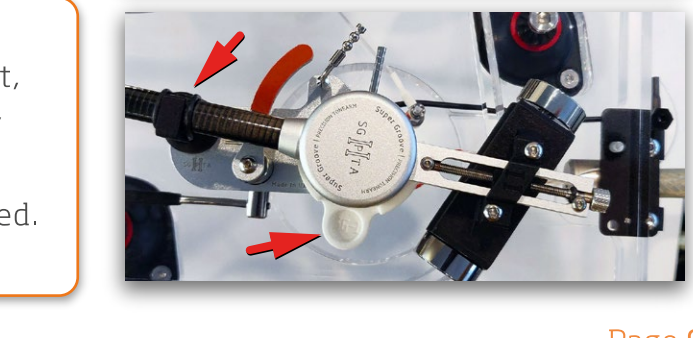
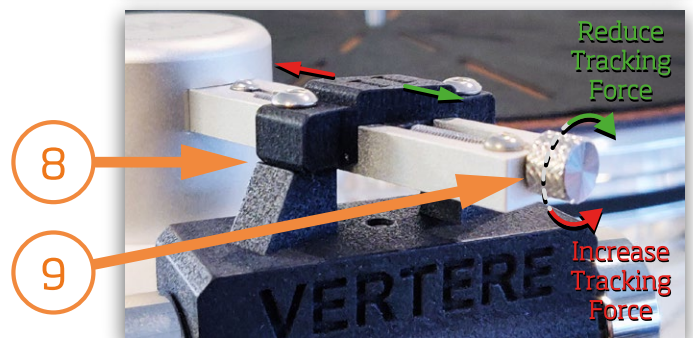
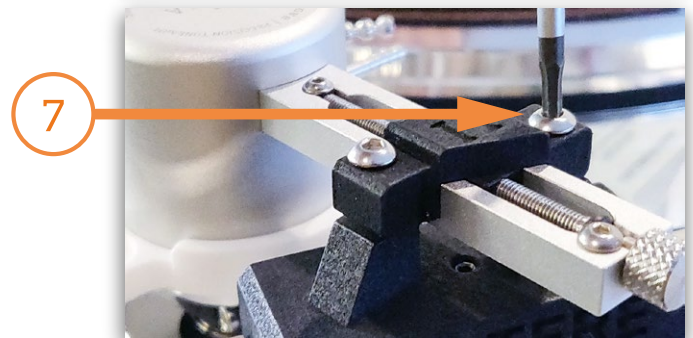
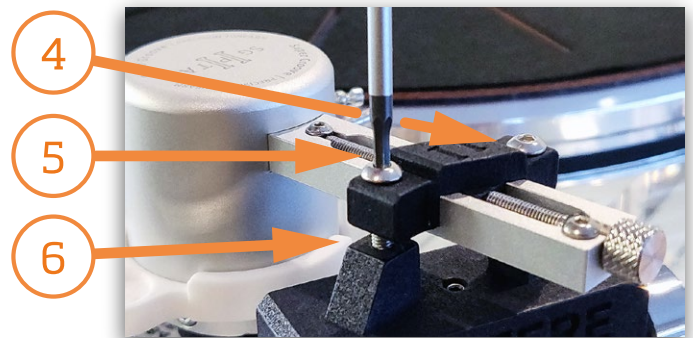
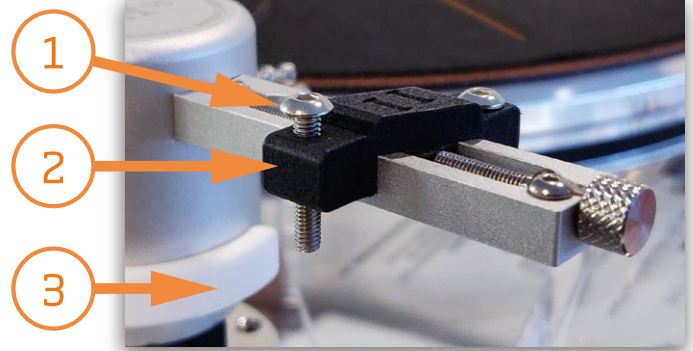
To free the End Disc, use the 1.5mm A/F Allen Key supplied and undo the Locking Screw marginally. Hold onto the Allen Key while adjusting the End Disc IN or OUT. This keeps the Locking Screw only marginally undone. Tighten the Locking Screw after the azimuth is adjusted - as shown opposite - See Cartridge Installation & Alignment -

Installing The Counterweight

Remove the Main Counterweight assembly from the packaging case along with the Counterweight Carrier Fixing Screws.

Make sure the 'Penguin' is fitted in place before attaching the Main Counterweight to the tonearm CW Carrier.

1. Counterweight Carrier Fixing Screw (x2)
These screws must be fitted to the carrier to assist fixing the Main Counterweight.
2. Counterweight Carrier
3. 'Penguin' - Fitted In Place
This prevents accidental damage to the Bearing Point and Tri-pivot Silicon Nitride Balls.
4. Carrier Fixing Screw Alignment
Ensure both Fixing Screws are lined up with the Main CW corresponding Fixing Holes.
5. 2.0mm A/F Allen Key - Supplied
Alternate between the two screws to avoid cross threading and damaging the Fixing Holes.
6. CW Fixing Holes
The screws should fit and turn with little force.
7. Fixing CW To Carrier - Continued
Alternate between the two screws and screw in each screw a few turns at a time.
8. CW Fitted To Carrier
Stop once the CW & Carrier are fully in contact.
Do Not over-tighten these screws to avoid damage.
9. Counterweight Adjustment Screw
This is used to adjust Tracking Force to the desired value.
As shown, Clockwise would Reduce the Tracking Force while Anticlockwise would Increase it.



IMPORTANT

Ensure, when fitting the Counterweight, the tonearm bearing transit protector, the 'Penguin', & the Tonearm Clip Transit O-ring are fitted to secure the tonearm and to keep its bearing protected.
- As shown opposite -

Fitting The Cartridge

Initial Preparations

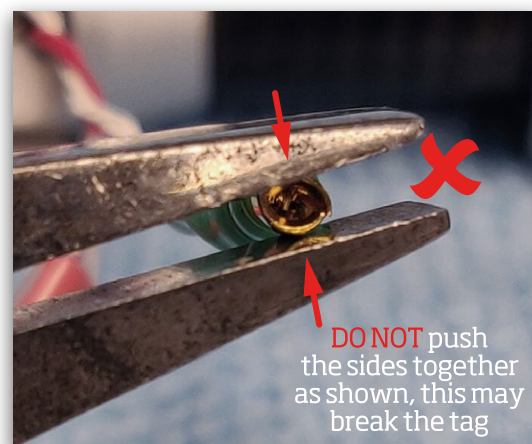
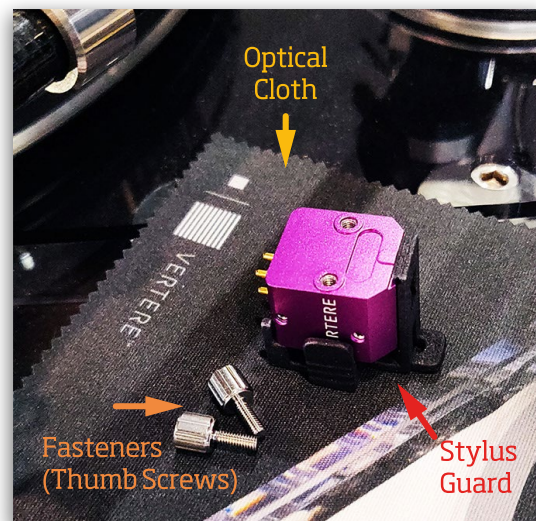
Place the optical cloth supplied just under the tonearm headshell to protect the record player plinth as shown.

Now carefully place the cartridge with its stylus guard fitted and its relevant fixing fasteners on the cloth;
- Supplied Thumb Screws or other....

Vertere bespoke Gold plated Cartridge Tags on the HB internal wiring have already been adjusted to ensure optimum contact with the cartridge pins.

Always fit these tags by holding the colour coded insulating part with your fingers and gently pushing them onto their corresponding cartridge pins. **Never** use pliers to fit or remove the tags as undue pressure may cause permanent damage to the tags and the wiring

If for any reason the tag contacts seem to be open, here you should use a small pair of pliers and as shown gently close them together diagonally. It is important that the two sides are Not pushed together straight as this could damage or break one side of the contact - See below

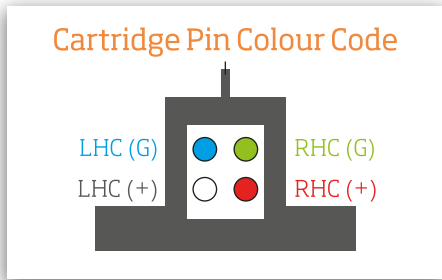


NOTE
If any of the tags is broken or damaged please contact your Vertere Retailer, Distributor or Vertere directly to seek assistance.

Connecting The Cartridge

With the internal wiring tags adjusted, gently fit, one at a time, each channel's colour coded tag onto the corresponding cartridge pin using your fingers - See opposite

- Observe the colour coding as different cartridges may not use the same 'positions'.

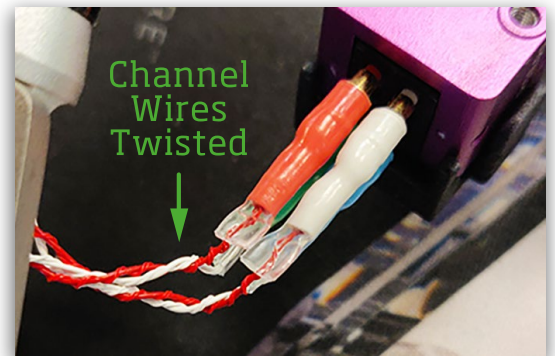
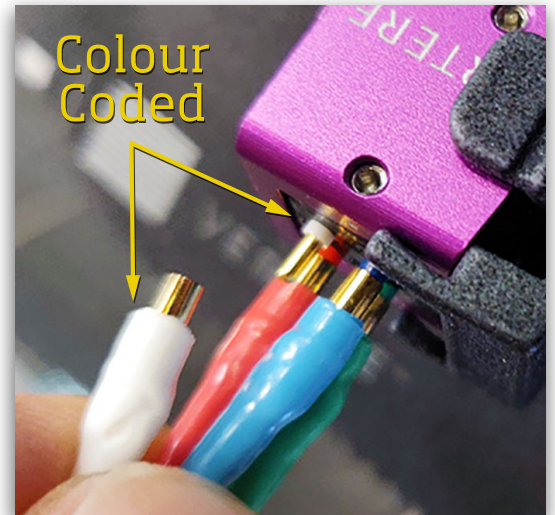


For best performance keep the Left & Right channel wires twisted together as supplied - See opposite.

- You can rest the cartridge on the cloth once these wires are attached.

NOTE

Exercise care when handling the internal wiring of the tonearm to avoid accidental damage while connecting the tags to the cartridge pins.



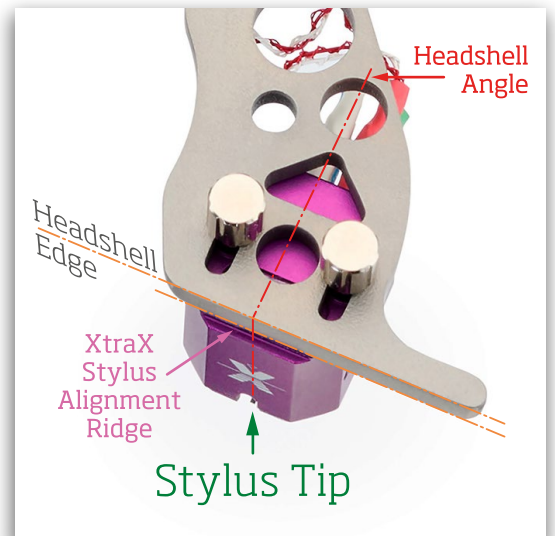
Fitting The Cartridge To The Headshell

Use the supplied high quality stainless steel Vertere Thumb Screws or cartridge fixing screws, and nuts if required to mount the cartridge onto the headshell but do not fully tighten the screws just yet.

The stylus tip should be set directly below the front edge of the headshell and the body of the cartridge should be aligned parallel with headshell angle as indicated.

This way the alignment and the overhang would be almost done and ready to be checked using the supplied alignment protractor and adjusted.

Stylus Tip in-line and immediately below the Headshell Edge - as shown



Releasing The Arm From Its Transit Protection

Removing The 'Penguin'

Support the Main Bearing Yoke by holding it with one hand while gently but firmly pulling out the 'Penguin' from under the bearing yoke by the other hand, disengaging it from the tonearm pillar and removing it - as shown opposite

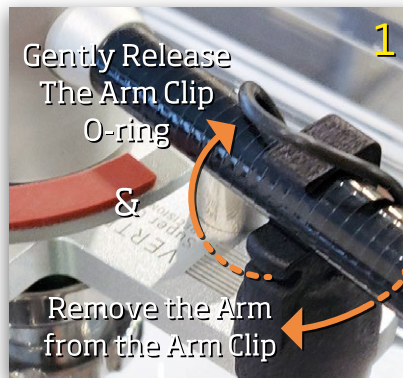
The 'Penguin' should also be kept safe in the main packing case for future use when transporting or shipping the arm.



Releasing The Arm Clip O-ring

Now gently unclip the Arm Clip Transit O-ring by pulling it out of the arm clip hook.
- as shown opposite

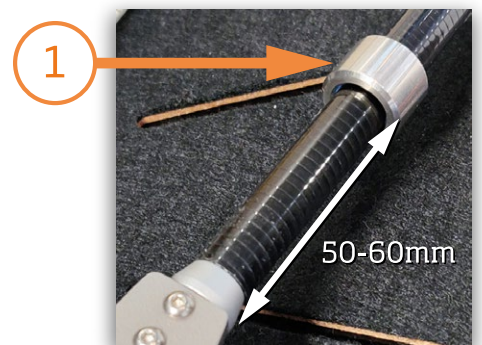
The O-ring should be placed over the arm clip or removed and placed in the main packaging case for future use.



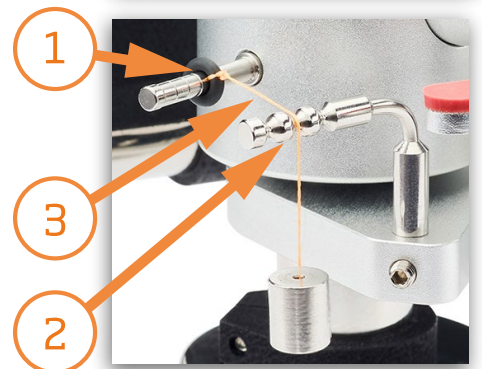
Provisional Setting Of VTA, Azimuth & Tracking Force

With the Counterweight and Stylus guard fitted proceed as follows;

1. Move the Fine Tracking Force Adjustment Ring approximately 50-60mm away from the Headshell.
- as shown opposite



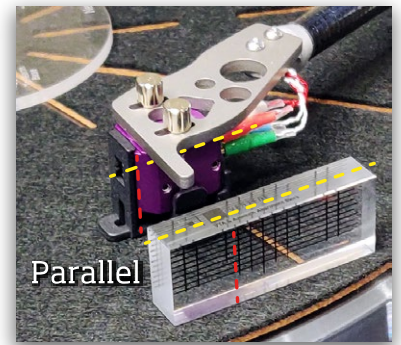
1. Fit the Anti-skate Weight and position it as shown. Initially position the O-ring between the first and the second notch from the Main Yoke.
2. Run the Thread over the middle position.
3. Rotate the O-ring until the thread is parallel to the tonearm.



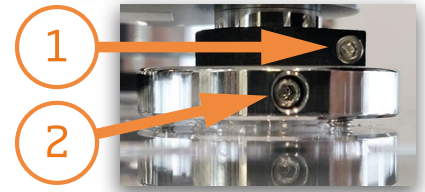
Initial Setting of Cartridge VTA

Place the cartridge with its guard fitted onto the Record Mat as shown - the stylus will be safe and close to where it would be on a Record.

Place the Azimuth Block supplied and as shown and adjust the Tonearm Pillar Fixing Screw until the headshell is parallel to the block - use the grid lines for reference

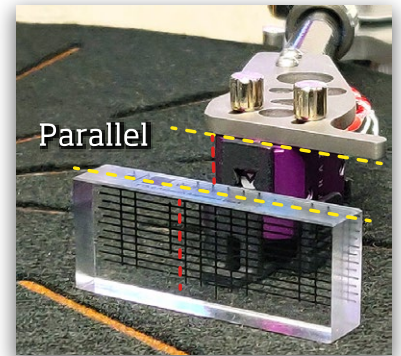


1. VTA Indexing Clamp Fixing Screw
Initially this screw should be loose in order for the VTA Indexing Clamp to be free to move Up & Down on the Main Pillar while adjusting the VTA.
2. VTA Adjustment & Tonearm Pillar Fixing Screw
Loosen to adjust the VTA, up or down, and then tighten to fix the tonearm pillar in position - Do not fully tighten yet



Initial Setting of Cartridge Azimuth

Now place the Azimuth Block in front of the headshell as shown and utilising the CW End Discs adjust the Azimuth until the headshell is parallel to the block - use the grid lines for reference

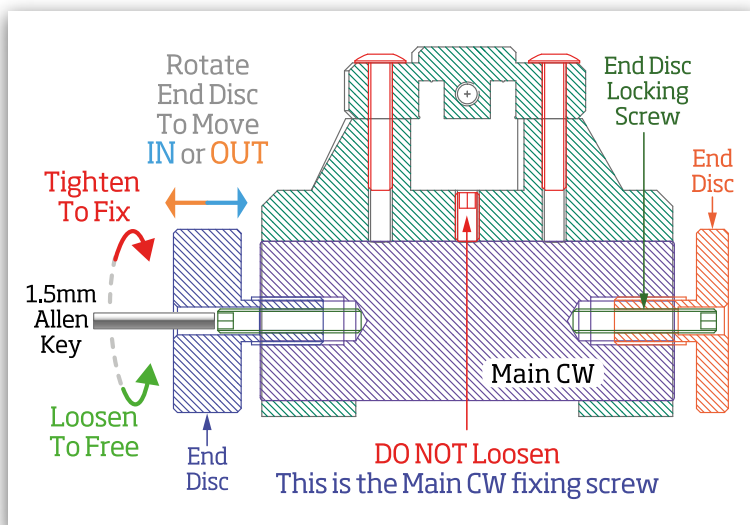
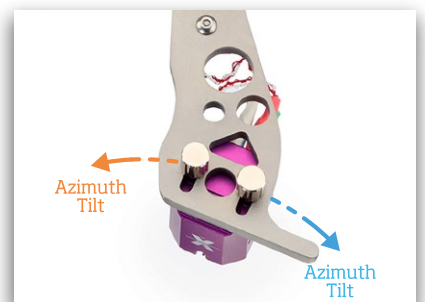
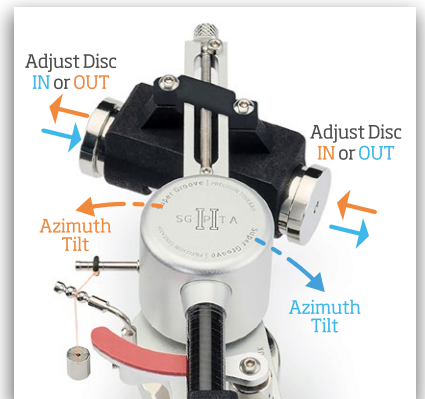


Follow the adjustment instructions below;

Using the 1.5mm Allen Key supplied, marginally undo the End Disc Locking Screw to free the End Disc.

Now hold onto the Allen Key while adjusting the End Disc. Rotating the End Disc **OUT** will tilt the Headshell **DOWN** at that side, while rotating it **IN** will tilt the Headshell **UP** at that side.

- as shown below



Initial Setting of Cartridge Tracking Force (Weight)

It is important to use a stylus balance that is accurate and that measures the Tracking Force close to record height.

Use the Veretere Electronic Stylus Balance or equivalent and place it on the record player mat. Carefully remove the stylus guard and place it somewhere safe.

With the Lift/Lower up, remove the arm from the arm clip and place the stylus over the measuring platform of the balance. Switch the balance On and lower the stylus onto the platform and check the tracking force.



NOTE

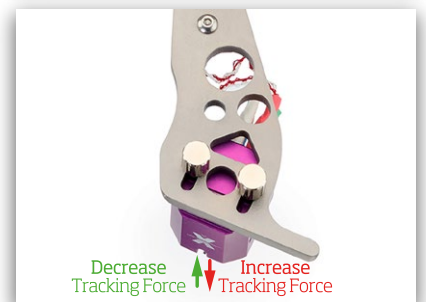
Do not leave the stylus on the platform if the reading is higher than the recommended tracking force as this could damage the cartridge.

Using the Counterweight Adjustment Screw set the Tracking Force of the cartridge in accordance with manufacturer's instructions - Repeat the above until the tracking force is within the recommended range.

- See opposite

Initially leave the Fine Tracking Force Adjustment Ring, on the arm tube, at 50-60mm from the headshell.

Later this ring will be used to fine-tune the tracking force and also assist with the arm/cartridge resonance - This will be discussed in **Final Adjustments & Alignments** section.



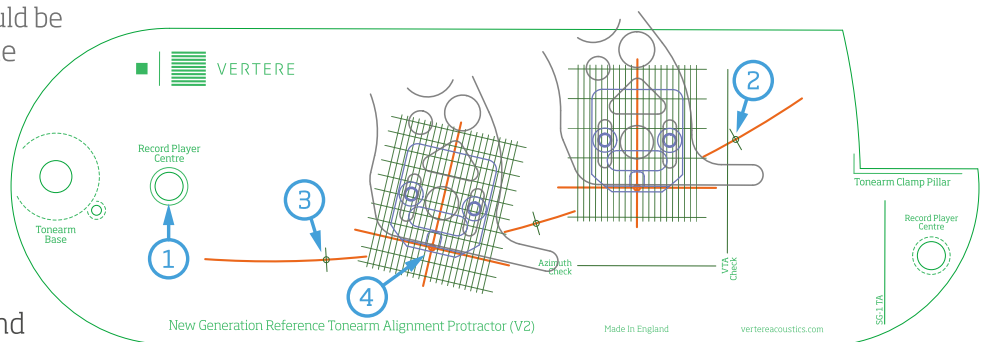
Final Check, Adjustment & Setting Of Cartridge Alignment

1. Place the supplied Veretere Tonearm/Cartridge Alignment Protractor onto the Record Player Spindle.
2. Lower the stylus onto the Protractor and line up the Orange Arc with the tip.
3. Now lift the arm and lower it near position 3 and check if the stylus is on the arc or Ahead or Behind.

If Behind, the cartridge should be repositioned **forward** in the headshell.

If Ahead, the cartridge should be repositioned **backwards** in the headshell.

4. Now place the stylus on position 4 (Crosshair, ⊕) and check the cartridge Alignment.



Adjust the alignment using the cartridge fixing screws until the cartridge/Cantilever are 'square' with the grid.

- See above

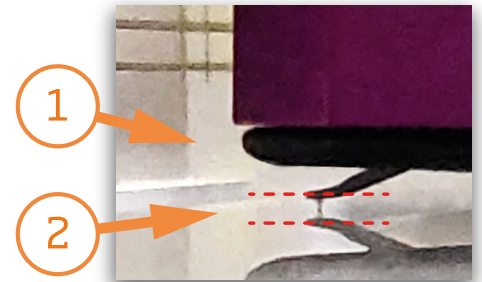
Fine Adjustment & Setting of Cartridge VTA

Using a Vertere cartridge, and most other high quality cartridges, place the stylus onto the Alignment Protractor in front of the Crosshair of the first grid that is nearer the edge of the platter.

The Cartridge VTA would already been set as shown opposite.

Now using the camera of a smartphone on 6x-8x magnification check the Cantilever/Stylus interface with the Protractor.

1. Alignment Protractor - Approx. 180g Record Thick
2. Cantilever/Stylus are parallel to the protractor surface.
Use the VTA fixing screw (As used previously) and raise or lower the tonearm pillar marginally eachtime until the Cantilever/Stylus are parallel to the Protractor surface.
Use the reflection as shown opposite to assist.



IMPORTANT

Always lift the arm off the protractor and move it back into the armclip before carrying out any adjustment of the tonearm pillar using the VTA Fixing Screw.

Fine Adjustment & Setting of Cartridge Azimuth

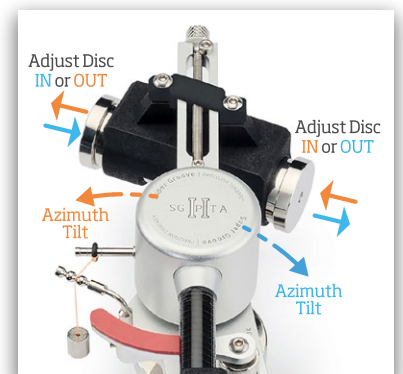
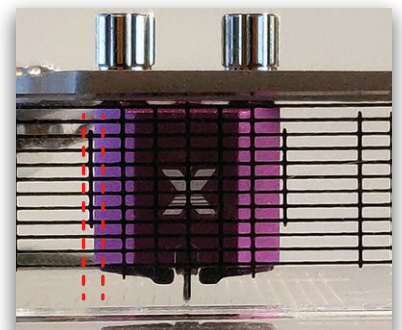
The Cartridge Azimuth should already been set quite accurately.

This time place the stylus onto the Alignment Protractor on the Crosshair of the second, inner grid - [Position 4](#) on [Page 14](#)

Again using the camera of a smartphone on 6x-8x magnification check the Cartridge/Headshell against the supplied Azimuth Block gridlines to ensure the cartridge is perpendicular to the protractor surface - As done previously.

Utilising the Counterweight End Discs adjust until the azimuth is correctly set - Refer to [Page 13](#)

- as shown opposite



IMPORTANT

Always lift the arm off the protractor and move it back into the armclip before carrying out any adjustment of the CW End Discs and ensure the Locking Screw is then tightened before rechecking the azimuth as the screw position will marginally affect the azimuth.

Fine Adjustment & Setting of Cartridge Tracking Force while Fine Tuning the Arm/Cartridge Resonance

The SG-II Pathfinder Tonearm benefits from having an adjustable Effective Mass - From approx. 9g - >20g

This provides adjustability of Arm/Cartridge Resonance that is critical in ensuring correct dynamic operation of the tonearm with the cartridge that is fitted to it.

Cartridge/Arm Resonance should ideally be in 8 - 12Hz range, placing it above Record 'Warp' frequency and below any Audio-band signal.

NOTE

The **Higher** the Effective Mass the **Lower** the Frequency
The **Lower** the Effective Mass the **Higher** the frequency

Contributors to the Arm/Cartridge Resonance

1. Main Counterweight
The closer to the Bearing Yoke the Lower the Effective Mass & the Higher the Resonance Frequency
 2. Fine Tracking Weight Adjustment Ring
The closer to the Bearing Yoke the Lower the Effective Mass & the Higher the Resonance Frequency
 3. Cartridge Fixing Screws
The Heavier the Fixing Screws the Higher the Effective Mass & the Lower the Resonance Frequency
1. Fine Adjustment Ring Position Range
The Adjustment Ring can be positioned close to the Headshell or the Bearing Yoke.

Using the Counterweight & the Fine Adjustment Ring and set the Resonance Frequency

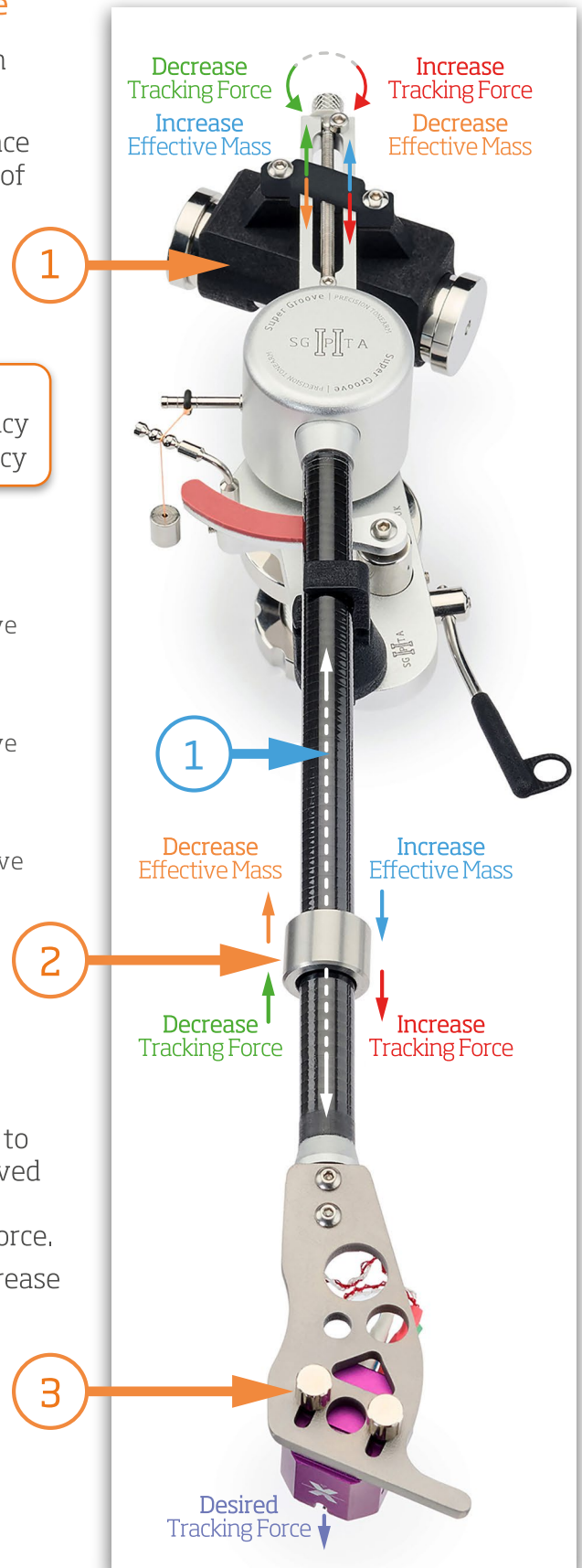
For a Desired Tracking Force moving the Ring closer to the Headshell requires the Counterweight to be moved away from the Bearing Yoke. This will increase the Effective Mass while providing the same Tracking Force.

The opposite will reduce the Effective Mass and Increase the Resonance Frequency.

NOTE

Use a suitable Test Record to assist in setting the Arm/Cartridge Resonance to be within 8 - 12 Hz.

For more information contact your Vertere Retailer, Distributor or Vertere.



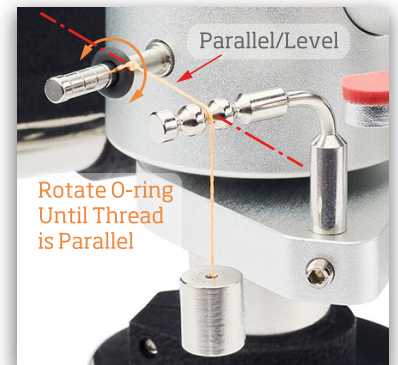
Fine Adjustment of Tonearm Anti-skate Force

Recheck the Anti-skate Weight/Thread assembly is still positioned as per the procedure on Page 12 - If not, readjust as required.

The Anti-skate Rod has 4 groove positions where the O-ring position increases the Anti-skate Force towards position 4 (2.5-3.5g Range) and reduces it towards position 1 (1.0-2.0g Range).

- as shown opposite

Position the Anti-skate O-ring to correspond to **approximately** the Tracking Force of the cartridge fitted - fine adjust about the position For Vertere Cartridges, for example XtraX, this is position 2.



NOTE

The O-ring does not need to be positioned exactly on a groove
The grooves are for reference only - treat as continuous

Anti-skate 'Curve' Adjustment

The Anti-skate Bar has 3 runner groove positions over which the Thread/Weight runs & slides over - 1, 2 & 3

- as shown opposite

Anti-skate Curve

Thread Runner Position	Anti-skate Force relative to record groove
1	Increasing on the Lead-in to the Run-out
2	gradually becoming
3	Increasing on the Run-out to the Lead-in



NOTE

It is generally better to have the Anti-skate Force slightly increasing from Run-in to Run-out groove

Note:

It is important to move 'Up' the Thread/Weight runner position when the O-ring position is moved 'Up' to increase the Anti-skate Force.

This will ensure that the Force also keeps increasing towards the Run-out groove - as shown.



If required check that the anti-skate force is set correctly by using a suitable Test Record.

Fine Adjustment of Cartridge Tracking Force

Recheck the Tracking Force (As per procedure on Page 14) to verify that it is still within the recommended range and readjust as required.

This initial recommended setting is a good starting point for most cartridges tracking between 1.9g - 2.2g.



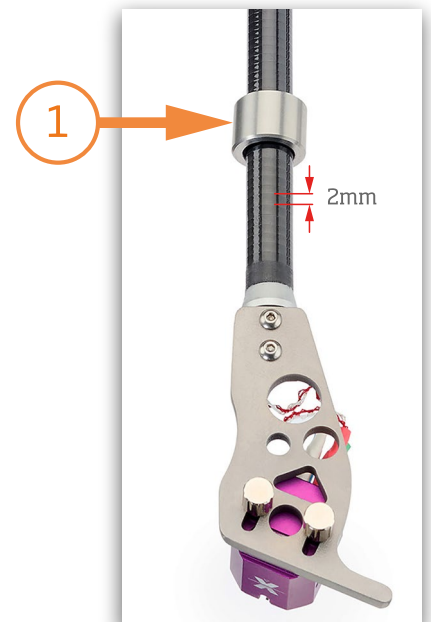
Tracking Force - Why a Range ?

This range is generally where the pressure created by the Tracking Force, in relation to cartridge's contact area, is absolutely safe and shouldn't cause any damage to the cartridge or the groove.

Somewhere within this range the **Moving Coil** (or the **Moving Magnet**) part of the generator will be positioned **symmetrical** in the **Magnetic Field** (or the **Coil Field**) thus operating in the best position providing the optimum performance from the generator.

1. Fine Tracking Force Adjustment Ring

Marginally move the Adjustment Ring towards the Headshell to increase the Tracking Force and away from the Headshell to reduce it.



Arm-tube Wrap-lines are approximately 2mm apart.
- as shown opposite

Move the Adjustment Ring by less than $\frac{1}{4}$ of this gap.
- Less than 0.5mm to increase or reduce the Tracking Force.

This should adjust the force by approximately 0.02g at a time.

Using a well recorded vocal piece check how 'natural', 'open' and with real presence the voice sounds.

Start in the middle of the recommended range and increase or reduce the force, a couple of increments at a time, and check if the performance improves or worsenes.

The objective is to home in onto the optimum setting.

Do Not exceed beyond the recommended Tracking Force range
- Minimum or Maximum values

Verify by checking the results using other Records.

Final Checklist

Once the Pathfinder Tonearm and the Cartridge have been fully set up, carry out these last steps to ensure VTA Indexing Clamp and the Lift/Lower mechanism are set correctly and make note or take photos to keep a record of the Anti-skate O-ring/Thread & Fine Tracking Force Adjustment Ring final positions.

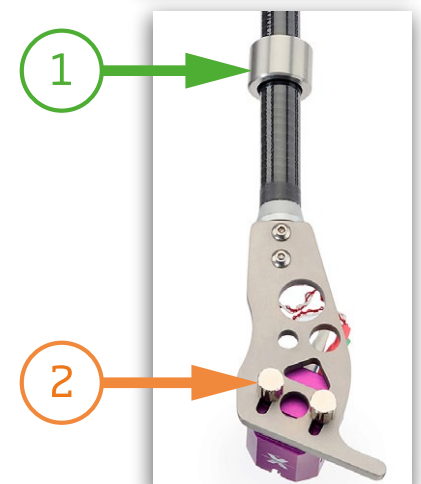
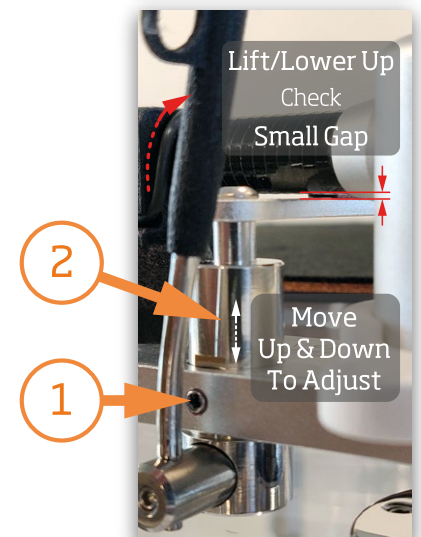
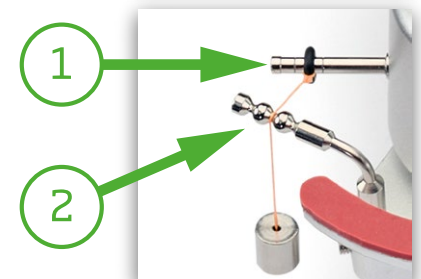
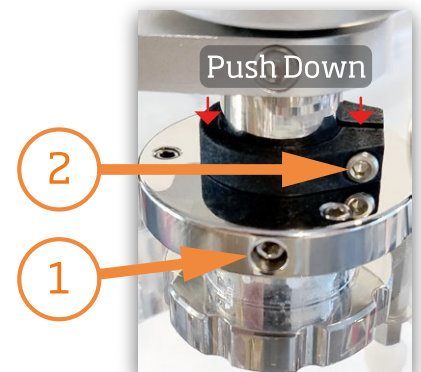
- see opposite

1. TA Pillar Fixing Screw
Check the Fixing Screw is tightened
2. VTA Indexing Clamp
Carefully push down on the Clamp to seat on the Pillar Holder & tighten its Fixing Screw - Use the supplied 2mm Allen Key
Indexing Clamp facilitates refitting the tonearm correctly
1. Anti-skate Adjustment O-ring Position on the Rod
Make a record of the position & Orientation of the O-ring on the Rod
Best take a photo using your smart phone.
2. Anti-skate Thread/Weight Position on the Runner Bar
Make a record of the position of the Thread on the Runner Bar
Best take a photo using your smart phone.
1. Lift/Lower Mechanism Adjustment & Fixing Screw
Use the Fixing Screw to allow vertical adjustment of the Lift/Lower
2. Lift/Lower Mechanism Main Body Cylinder
With the arm-tube in the arm-clip, move the Lift/Lower arm up and check the gap between the top of the metal arc and the bottom of the arm-tube. Adjust the Lift/Lower Cylinder Up or Down until the gap is about 0.5-1.0mm
Recheck the lowering & lifting of the Cartridge/Stylus
- Readjust if required
1. Tracking Force Fine Adjustment Ring Position
Make a record of the position of the Ring on the Armtube
Best take a photo using your smart phone.
2. Vertere Cartridge Fixing Thumb Screws
Carefully check these are finger tight - tight

NOTE

If you have any questions, queries or any issues with setting up of the tonearm and/or the cartridge contact your authorised retailer, distributor or Vertere for clarification and further instructions

Thank you for choosing Vertere
Enjoy the music with your new Pathfinder tonearm





VERTERE™

RECORD PLAYING SYSTEMS

RG-1 Reference Groove Record Player
 SG-1 Super Groove Record Player
 MG-1 MkII Magic Groove Record Player
 DG-1S Dynamic Groove Record Player

MOTOR DRIVES

RG-1 Reference Motor Drive
 imperium Precision Motor Drive
 Tempo Precision Motor Drive

TONEARMS

Vertere Reference Tonearm New Gen.
 SG-1 PTA HB Tonearm PULSE-HB Internal Wiring
 SG-1 PTA Tonearm Standard PULSE Internal Wiring

PHONO CARTRIDGES

X T R A X Moving Coil Cartridge
M y s t i c Moving Coil Cartridge
D A R K HD Moving Magnet Cartridge
s a b r e HD Moving Magnet Cartridge
M a g n e t o Moving Magnet Cartridge

PHONO PREAMPLIFIER

PHONO-1 MkII L

ANALOGUE INTERCONNECT CABLES

PULSE-HB
 PULSE-**v e R u m**
 PULSE-**Redline**
 D-Fi
 RCA, XLR Balanced, DIN & 5-Pin Tonearm

SPEAKER CABLES

PULSE-HB
 PULSE-XS Reference
 PULSE-XS
 PULSE-**Redline**
 7mm, 4mm Banana & Spade - Single Ended Or Bridged Balanced

DIGITAL INTERCONNECT CABLES

PULSE-HB
 PULSE-**Redline**
 D-Fi
 USB TypeA, TypeB, Mini, Micro, Ethernet RJ45
 COAX-75 Ohm RCA & BNC, AES/EBU Balanced XLR

MAINS POWER CABLES & DISTRIBUTION

PULSE-HB, PULSE-HBS
 HB MAINS DISTRIBUTION BLOCK & PULSE-**Redline**
 UK, EU, US: IEC & IEC 20A

RECORD PLAYER SUPPORT

STAGE-1 REFERENCE ISOLATION PLATFORM

EQUIPMENT SUPPORT

STAND-1 REFERENCE EQUIPMENT SUPPORT

