

DG-1S dynamic groove Installation Guide



VERTERE™

Version 1.3

DG-1S Installation Guide

1. Start Here

Congratulations on your new record player. The DG-1S dynamic groove will provide you with many years of impeccable performance and help bring you as close to your music as possible.

Installing and setting up your DG-1S is described in the following pages predominantly pictorially, however before the pictures begin, we must ask you to read some statutory Important Safety Instructions followed by some critical installation "Do's and Don'ts".

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Do not submerge the equipment in water or liquids.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
8. Do not defeat the safety purpose of the polarised or grounding-type plug. A polarised plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
9. Protect the power cable from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
10. Do not unplug the unit by pulling on the cable, use the plug.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cable or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. The appliance coupler, or the AC Mains plug, is the AC mains disconnected and shall remain readily accessible after installation.
15. Adhere to all applicable, local regulations.
16. Consult a professional engineer when any doubt or questions arise regarding a physical equipment installation.

2. Do's & Don'ts

- **Always lift or lower the platter vertically when removing or replacing it. Do not allow it to tilt.**
- **Always ensure the Tonearm transit Screw is fitted when installing a cartridge.**
- **Always ensure the Tonearm Transit Screw is removed before using the record player.**
- **Never remove the Main Bearing Spindle.**
- **Never remove the Tonearm from the Record Player when fitting a cartridge.**
- **Never remove the Tonearm from the Record Player when adjusting the vertical tracking angle (VTA).**
- **Never Stretch the Drive Belt.**
- **Always remove the counterweight and platter when transporting the record player.**

IMPORTANT

In case of any unresolved issues following set up of your DG-1S record player, please contact your authorised Vertere retailer, local Vertere distributor or Vertere directly for more assistance.

Please Note

DG-1S Setting Up Videos are available on Vertere website to assist you in the setup.

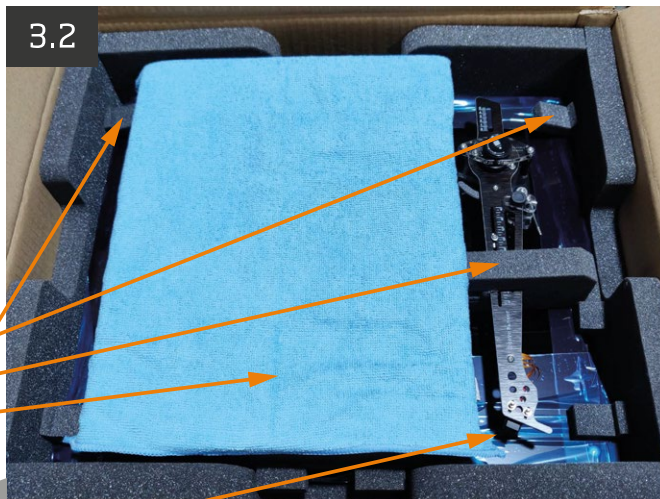
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3. Unpacking 1



3.1

After opening the cartons and removing the Top protective card, carefully lift out the dust cover with its protective clear bag and place it to one side.

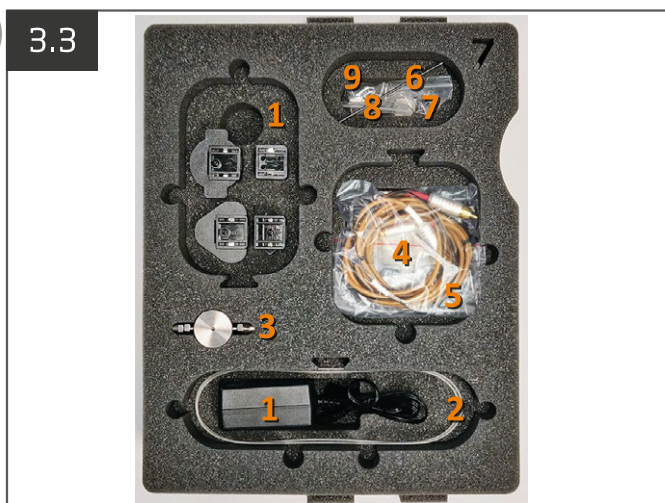


3.2

- DG-1S Plinth protection foam (x4).
- Tonearm Beam protection foam.
- Top Tray (Includes accessories).

Carefully lift out and remove the Top Tray and place it to one side.

IMPORTANT: Keep clear of the cartridge to avoid any damage to the stylus while removing the Tray.



3.3

Carefully lift and put away the cleaning cloth and check its contents.

NOTE

The contents of the Top Tray remain the same even if the packaging layout/shape is different.

Standard items and components

- DC-1 Mains Power Supply**
(Including alternative Mains Socket Plugs)
- Drive belt**
- Tonearm Main Counterweight**
- Vertere Stylus Balance**
(One AAA Battery required - **Not** supplied)
- D-Fi Stereo Interconnect Cable and Ground Wire**
- Allen Key (2mm A/F)**
- Spirit Level**
- Additional Counterweight Nut (2nd one)**
- Lid Hinge Mounting Bars**

Packages

Magneto Package

- Vertere Magneto MM cartridge fitted**

Redline Package - No Cartridge

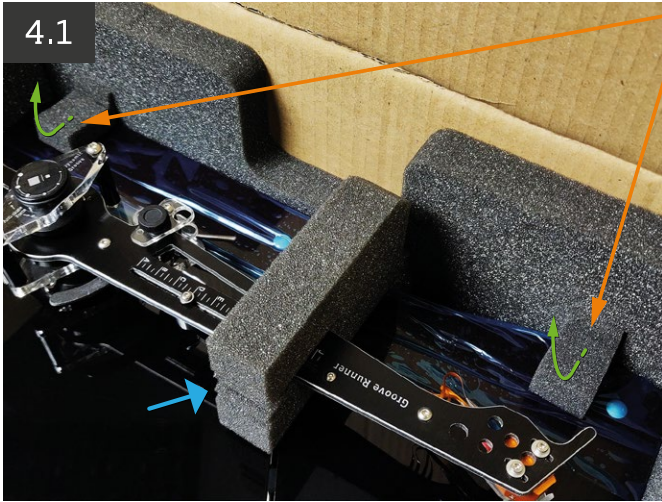
- Redline Stereo Interconnect and Ground Wire**
(Replaces the original D-Fi cable)
- Vertere Technomat (7mm Hole)**
- Vertere Iso-Paws (3 Pack)**

Sabre Package

- Vertere Sabre Hi-End MM cartridge fitted**
- Redline Stereo Interconnect and Ground Wire**
(Replaces the original D-Fi cable)
- Vertere Technomat (7mm Hole)**
- Vertere Iso-Paws (3 Pack)**

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4. Unpacking 2



4.1

Remove the four Plinth protection foams.

NOTE: Leave the tonearm beam protective foam in place for now.

IMPORTANT:

Do not remove the cartridge stylus guard and keep the tonearm beam and the cartridge/stylus safe from any accidental damage.

Lift out the DG-1S and carefully rest it on its left side on the foam inside the carton to gain access to the underside as shown. Take care not to damage the motor pulley.

Using a small coin carefully loosen the transit screw only until it disengages and is free to be removed. **DO NOT** push the transit screw into the chassis.

The safety washer prevents the transit screw assembly inadvertently falling inside the chassis. The tab prevents the transit screw aluminium support pillar from rotating while removing or replacing the transit screw.

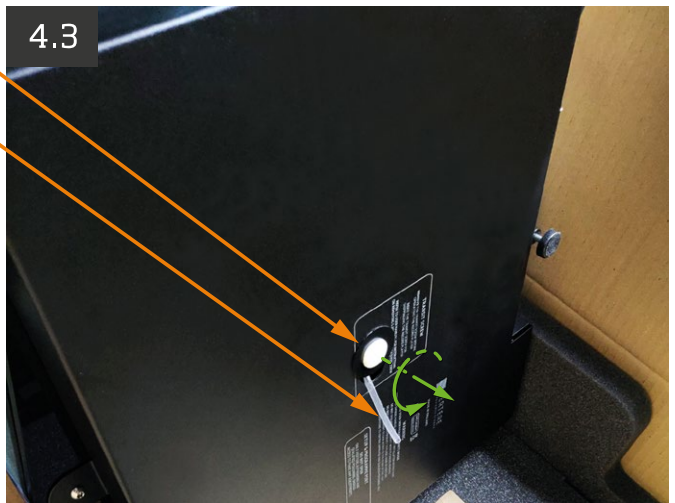
With the transit screw removed the sub-plinth is now unclamped and its suspension freed.

DO NOT push down the sub-plinth by force as this could cause damage to the suspension elements.

Now carefully place the DG-1S on a suitable table or equipment rack and remove the tonearm beam protective foam.



4.2



4.3



4.4



Remove the protective card and lift the platter from the carton.

Unpacking is now complete and you are now ready to proceed to the next installation stages.

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5. Assembly

Warning!

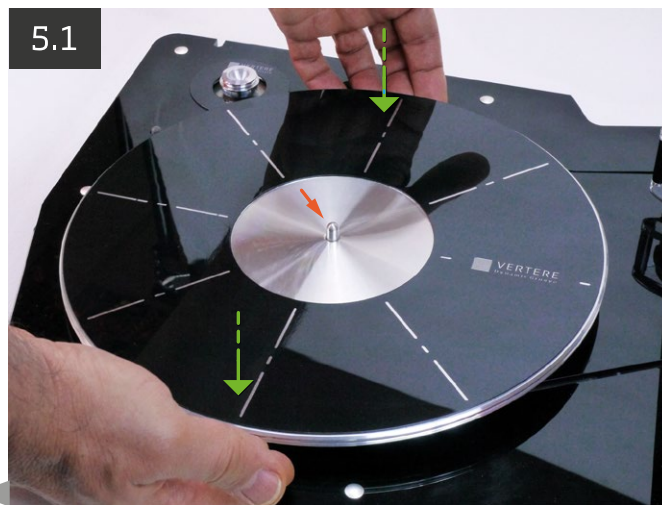
NEVER PULL THE PLATTER SPINDLE OUT OF THE BEARING HOUSING

The platter bearing is long-term lubricated for noiseless and reliable operation and requires no maintenance.

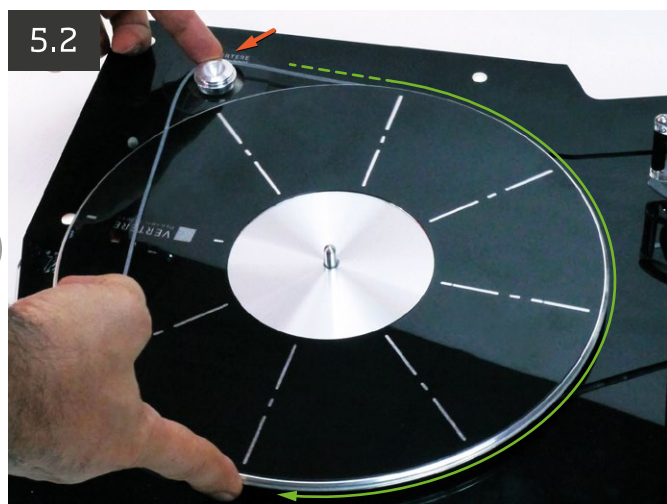
ALWAYS remove the platter by lifting vertically to avoid inadvertently withdrawing the bearing spindle.

If the bearing spindle is inadvertently removed, DO NOT attempt to refit it. The procedure requires specialist tools and materials

Lower the platter gently onto the bearing spindle. Keep the platter horizontal as it is lowered.

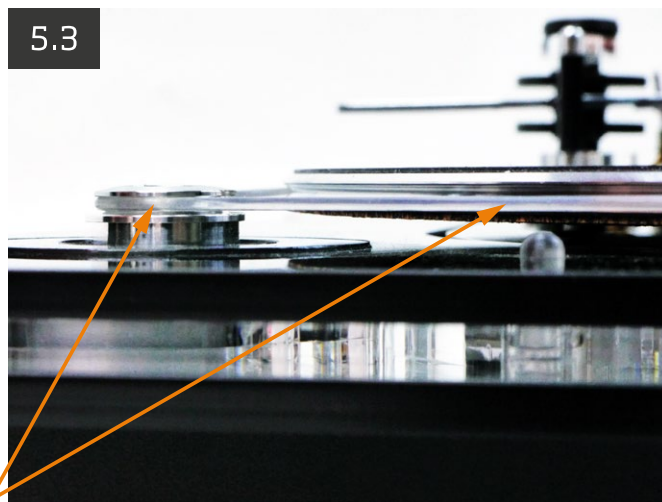


5.1



5.2

Hook the drive belt onto the pulley keeping it in place with your finger and slowly feed it around the platter as shown.



5.3

Check that the drive belt is located correctly in the pulley and platter grooves.



5.4

Use the three adjustable feet to level the record player. Check levelling using the spirit level supplied placed on the centre machined area of the platter as shown. (Take Technomat off if fitted)

Careful when placing the spirit level to avoid accidental damage to the machined surface. (Use a small, flat, piece of tissue paper placed under the spirit level to help protect the surface if necessary)

DG-1S adjustable feet are fitted with 'acoustic' felt on the underside to interface with the support surface for enhanced performance and allow easy positioning and levelling of the record player.

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6. Tonearm Setup

Your Attention Please

A DG-1S supplied without a fitted cartridge would still have, Anti-skate, Azimuth and VTA set at the factory for a typical height and mass cartridge with a tracking force of between 1.8g - 2.3g.

Further adjustment of those settings may **NOT** be necessary. Simply fit your cartridge following the steps set out in Cartridge Fitting & Setup section.



Front Weight

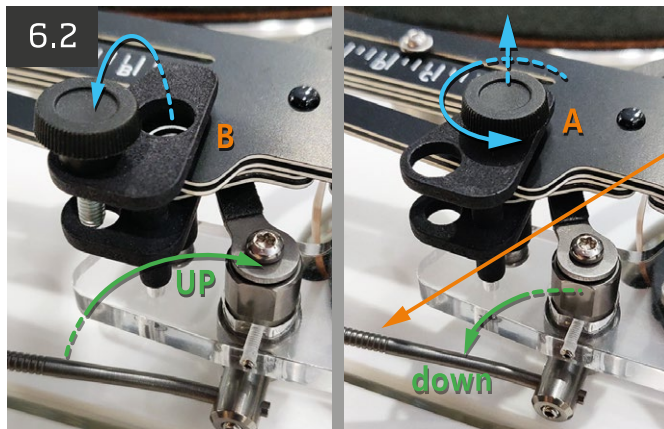
A transit screw is fitted to the tonearm.
* Do Not remove this screw yet *

Important Note

The Counterweight must be fitted and recommended tracking force for the cartridge set before lowering the stylus onto the platter or the record.

First fit the Main Counterweight, close to location '4', with its Warning Label facing the back of the tonearm.

One (or both) of the supplied counterweight nuts would have already been fitted to it for azimuth and cartridge weight compensation - **DO NOT REMOVE.**



Unscrew the tonearm transit screw and place it in the parked position.

NOTE:

When the transit screw is fitted to secure the tonearm, the Lift/Lower arm should be positioned down (A). When the transit screw is removed and placed in the parked position (B), move the Lift/Lower arm up ready for operation.

SAFETY TIP

Check the initial tracking force setting with the stylus guard in place and avoid accidental damage if the initial force is too high for the cartridge.

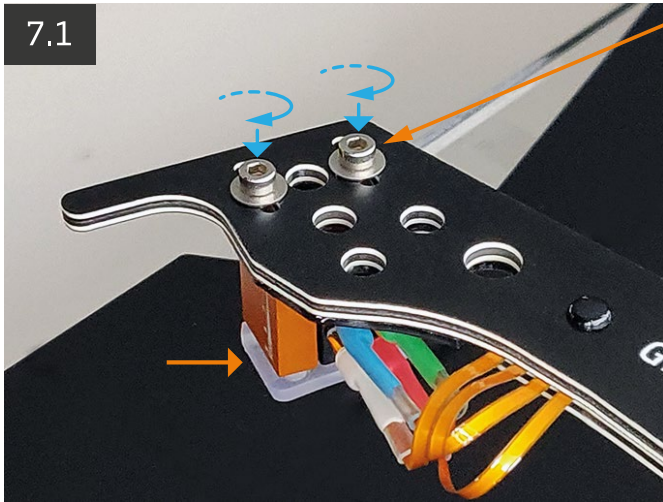
Use the stylus balance supplied to check the tracking force as shown. Adjust the position of the main counterweight until the force is within 0.25g of the recommended value.

Finally use the front weight to fine adjust the tracking force to the recommended value.



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7. Fitting A Cartridge



7.1

With the tonearm transit screw and the cartridge stylus guard in place, carefully push the cartridge tags onto their corresponding colour coded cartridge pins. **DO NOT** use pliers to push the tags onto the pins.

Use the supplied cartridge fitting washers to help spread the load and avoid compressing the tonearm beam/head-shell when tightening the fixing screws.

Always follow cartridge manufacturer's instruction for fitting the cartridge to the tonearm.

* Do not tighten the fixing screws just yet *

Slide the cartridge body forward and back until the stylus tip is directly below the front edge of the tonearm as shown (⊕) Keep the cartridge as square and parallel as possible to the front edge.

Now gently tighten the fixing screws but only until the cartridge body is reasonably secured to the tonearm head-shell. Do Not fully tighten yet.



7.2

IMPORTANT

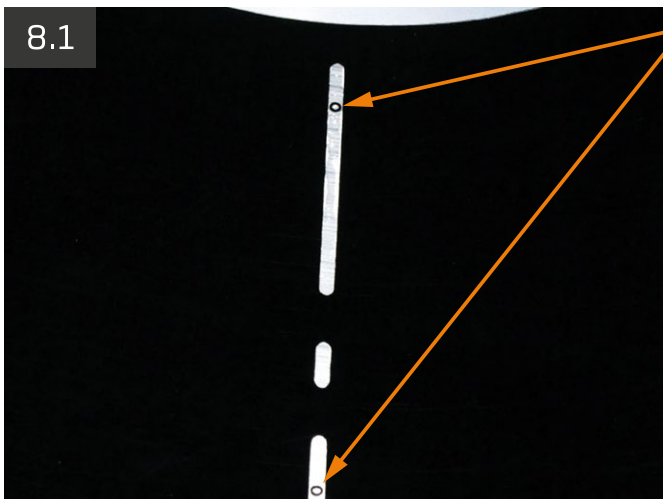
The main counterweight must now be fitted and recommended tracking force for the cartridge set before proceeding any further.

Refer to section: 6. Tonearm Setup

With the counterweight fitted and the recommended tracking weight set, follow the steps below for final cartridge adjustments:

- A. Final cartridge alignment & fixing
- B. Vertical Tracking Angle adjustment (VTA)
- C. Checking & verifying the cartridge azimuth

8. Final Cartridge Adjustments

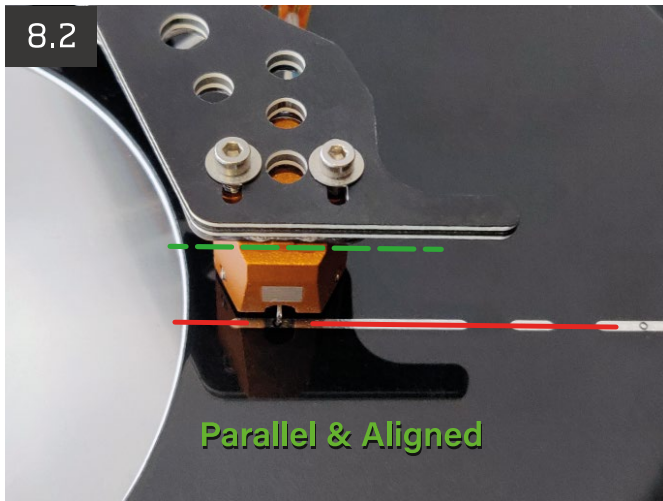


8.1

Two cartridge alignment points are printed on the platter mat on the line directly opposite the Vertere logo.

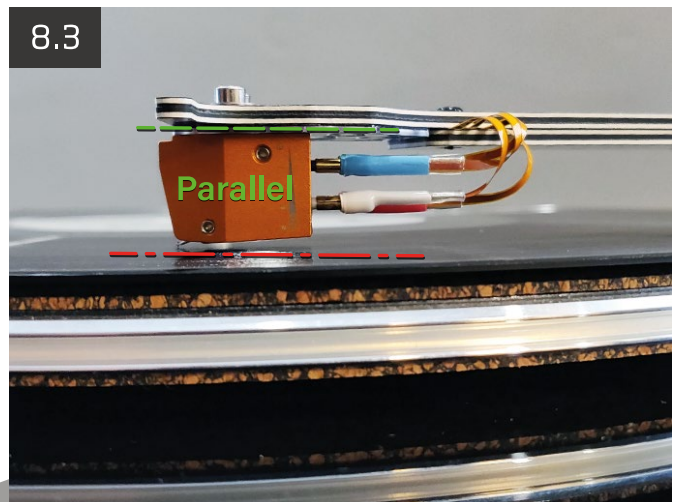


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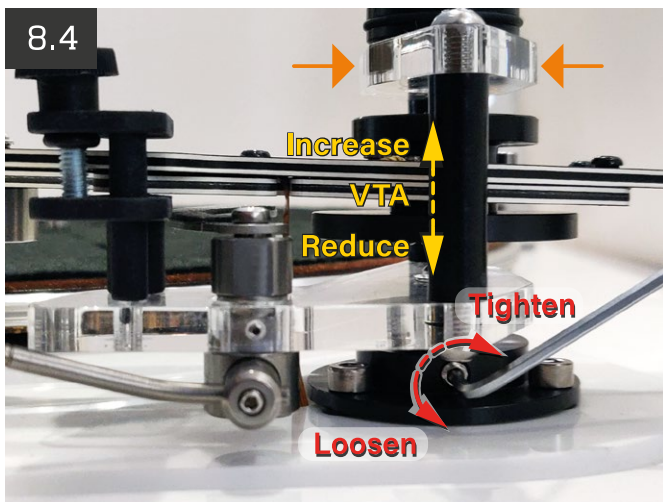
When the stylus is positioned on either of the alignment points, the cartridge and the front edge of the head-shell should align with the line as shown.

If required, move the cartridge to adjust until aligned. Once aligned, fully tighten the cartridge fixing screws. Careful Not Over Tighten.



Your Attention Please 👁️
Anti-skate, Azimuth and VTA are set at the factory for a typical height and mass cartridge with a tracking force of between 1.8g - 2.3g. Further adjustment of those settings may **NOT** be required.

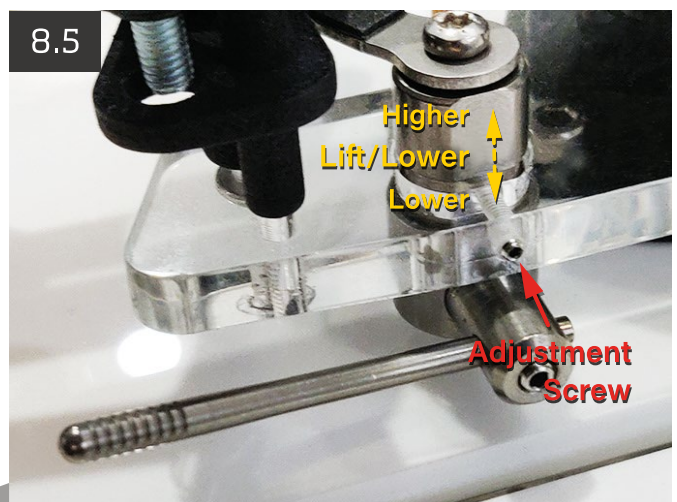
Adjust the Vertical Tracking Angle (VTA) so that the cartridge body is parallel to the record surface.
If using a Technomat, make sure it is in place before placing the record on.



If VTA adjustment is required, use the supplied 2mm Allen Key and follow the instructions below.

Carefully hold and support the tonearm while gently loosening the tonearm pillar fixing screw to free the arm to be moved up or down to increase or reduce the VTA.

Move the arm up and down by small amounts, 1mm at a time, and recheck the VTA. When the VTA is correct tighten the pillar fixing screw.



In the unlikely event where more or less clearance is required between cartridge and the record use the Lift/Lower Fixing Screw to raise or lower the Lift/Lower mechanism. Generally no more than 0.2-0.5mm of adjustment is required to achieve the desired clearance.

IMPORTANT

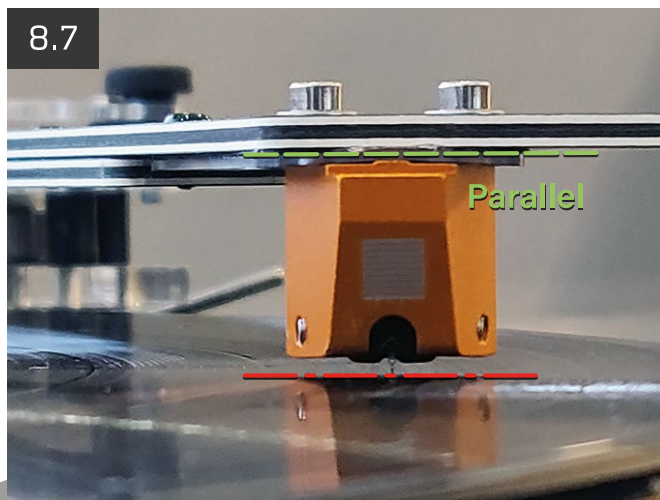
DO NOT over tighten this screw to avoid damaging the Acrylic tonearm support plate.

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After final cartridge alignment and VTA adjustment, re-check the tracking force to ensure it is set to the recommended value.

Adjust if required using the front adjustment weight.



Check & verify the cartridge Azimuth.

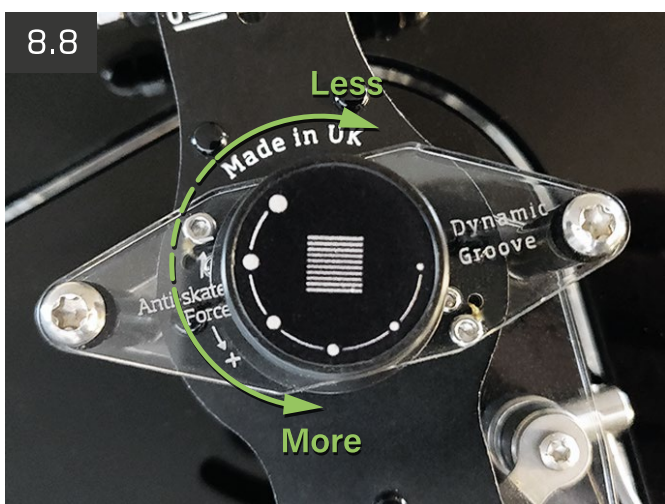
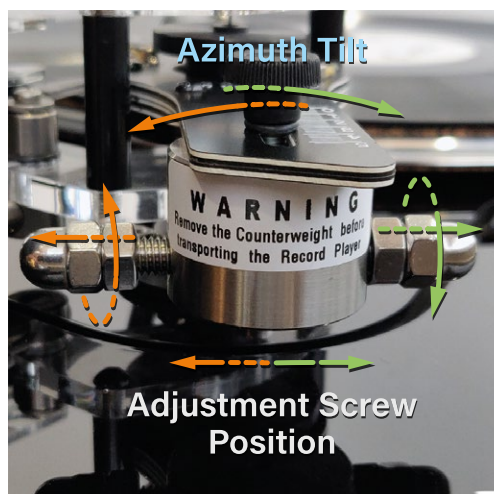
Fine Azimuth Adjustment:

Use the Main Counterweight Screw to move the centre of gravity of the Counterweight which will in turn alter the Azimuth of the tonearm as shown.

In case of any issues:

DO NOT attempt to adjust or correct any part or component of the tonearm.

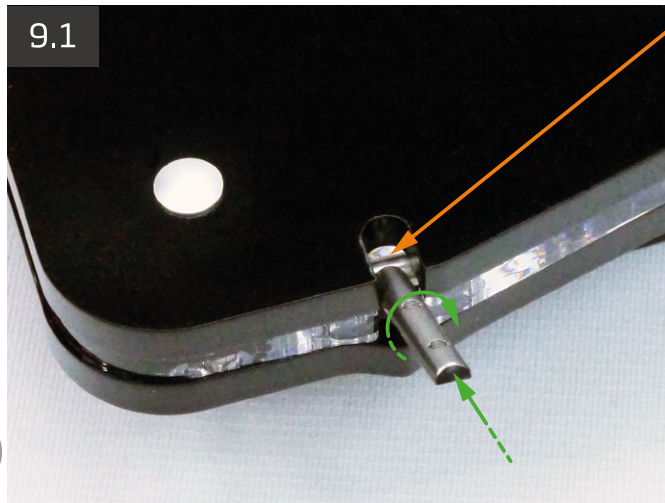
Contact your authorised retailer, local distributor or Vertere directly for more assistance.



If necessary, you can adjust the Anti-skate Force using the adjustment dial on top of the tonearm. Note the dial requires reasonable force to rotate. Turn by half a dot position at a time to adjust.

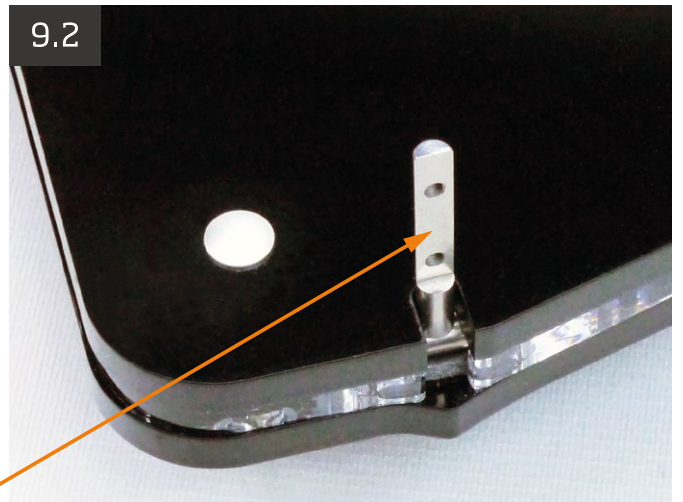
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9. Fit The Lid



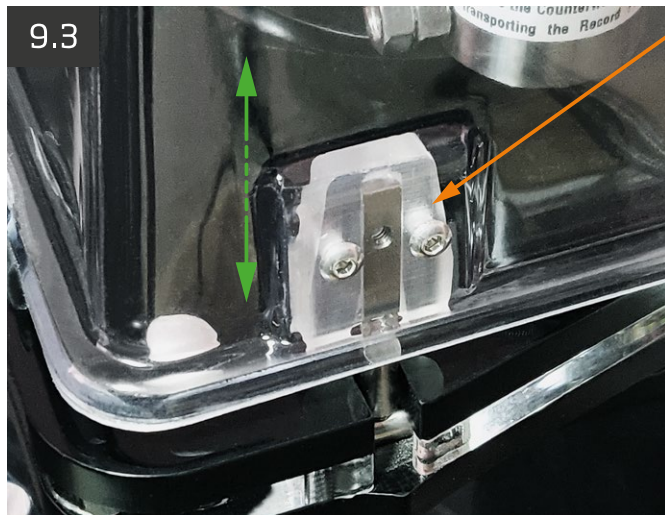
9.1

Locate the two lid hinge bar mounting holes: one each side of the record player. Screw a hinge mounting bar into each hole. Just one is shown in the image here.



9.2

Ensure that the hinge mounting bars are oriented with their flat section facing downwards. Raise the hinge mounting bars to the vertical position - as shown.



9.3

Carefully position the lid hinge blocks onto the hinge bars and gently push the lid down until the hinge bars are fully in position. To remove the lid simply hold it from both sides and gently slide the hinge blocks off the hinge bars.



Lid hinge block

10. Control and Illumination



10.1

Standby and speed control button
Green 33 rpm
Red 45 rpm



10.2

Speed Control

Connect DC-1 power supply. DG-1S will switch on in Stand-by

Short press the button to select 33 rpm. Green illumination.

Toggle

Press the button again to select 45 rpm. Red illumination.

Press and hold the button for 1.5 secs to stop and return to Stand-by

White Light Illumination Modes

In Stand-by

Press and hold the button

Single Red Flash
MODE 1

Let go

White Light

Always On

Keep holding

Double Red Flash
MODE 2

Let go

White Light

On in Stand-by

Keep holding

Triple Red Flash
MODE 3

Let go

White Light

Always Off

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11. DG-1S Packages

Magneto Package

1. Vertere Magneto MM cartridge fitted
2. D-Fi Stereo Interconnect and Ground Wire
3. Vertere Electronic Stylus Balance



As above plus the following

Redline Package - No Cartridge

1. Redline Stereo Interconnect and Ground Wire
(Replaces the original D-Fi cable)
2. Vertere Technomat (7mm Hole)
3. Vertere Iso-Paws (3 Pack)



Sabre Package

1. Vertere Sabre Hi-End MM cartridge fitted
2. Redline Stereo Interconnect and Ground Wire
(Replaces the original D-Fi cable)
3. Vertere Technomat (7mm Hole)
4. Vertere Iso-Paws (3 Pack)



12. Upgrades



CHALLENGER

Dedicated DC power supply with AC mains cable
(Replaces the original plug-in-wall DC-1 power supply)



CHALLENGER | Redline

Dedicated DC power supply with AC mains cable
(Replaces the original plug-in-wall DC-1 power supply)

Redline AC mains cable



VERY IMPORTANT

When using the **CHALLENGER** to power the DG-1S, the **Ground wire** of the interconnect cable should be **disconnected** from the DG-1S ground terminal unless there is a hum when it is disconnected.



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

Mystic Moving Coil Cartridge
s a b r e HD Moving Magnet Cartridge
Magneto Moving Magnet Cartridge

PHONO PREAMPLIFIER

PHONO-1 MkII L

ANALOGUE INTERCONNECT CABLES

PULSE-HB
PULSE-veRum
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

