



TURNTABLE
PERPETUAL

ASSEMBLY INSTRUCTIONS

DS Audio Optional Spindle

THANK YOU

for purchasing the Kronos Perpetual Turntable.

The Kronos Perpetual has been designed to deliver the highest level of musical performance from your vinyl records. Every aspect of its design has been optimized without compromise for one purpose: to reproduce music with exceptional accuracy, stability, and realism. It is a state-of-the-art hand-built musical instrument. Each Kronos is individually crafted, assembled, calibrated, and tested to ensure years of musical enjoyment.

The Kronos counter-rotation system is unique and protected by patents.

It is important that you take the time to read this manual before assembling, installing, and operating your Kronos. Assembly is straightforward, provided you carefully follow each step. Proper leveling of the turntable is particularly important, as well as ensuring that all ground connections are installed correctly for optimum performance.

Once this is done, you will find the Kronos Perpetual will not require frequent adjustments as it is a very stable platform. Of course, mandatory care must be given to setting up the tone arm and cartridge, as in any other turntable.

We recommend using a Kronoscope RS or Discovery RS tonearm to optimize your vinyl playback performance. For tonearm installation and setup, please refer to the appropriate Tonearm Assembly Instructions.

Please keep in mind that your Kronos Perpetual will need a short settling period during its first days of operation. During this time, the suspension and drive system will stabilize, allowing the turntable to reach its optimum performance. The microprocessor-controlled speed control operates in a slow and deliberate manner, using only the minimum power necessary to maintain precise rotational speed. This design minimizes motor-induced vibration and ensures the highest level of musical enjoyment.

Thank you for choosing KRONOS Audio.

Enjoy.

A handwritten signature in black ink, reading "Louis Desjardins". The signature is fluid and cursive, with the first name "Louis" and last name "Desjardins" clearly distinguishable.

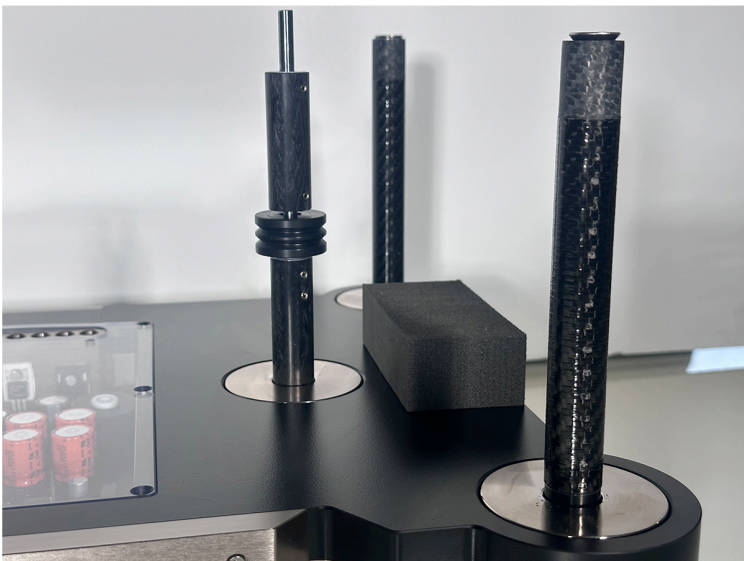
Louis Desjardins
Designer and CEO of Kronos Audio Products inc.



1

Install the PERPETUAL base on your equipment rack.

Ensure the unit is positioned on a stable and level surface before proceeding



2

Please make sure the spacer foam is in place over the base of the PERPETUAL.

The spacer foam must remain in position until the upper assembly is installed.
(Step 19)



If you are installing PERPETUAL with the SCPS-P

3

Connect the 6 PIN control cable to the rear panel of the PERPETUAL.

please make sure the cable connector properly **CLICK-IN** .



4

Press the power selection button located to the left of the power switch.

This button must be engaged when operating PERPETUAL with the SCPS-P



If you are installing PERPETUAL
without the SCPS-P

5

Connect the **3 PIN** power cable to
the rear panel of the PERPETUAL.

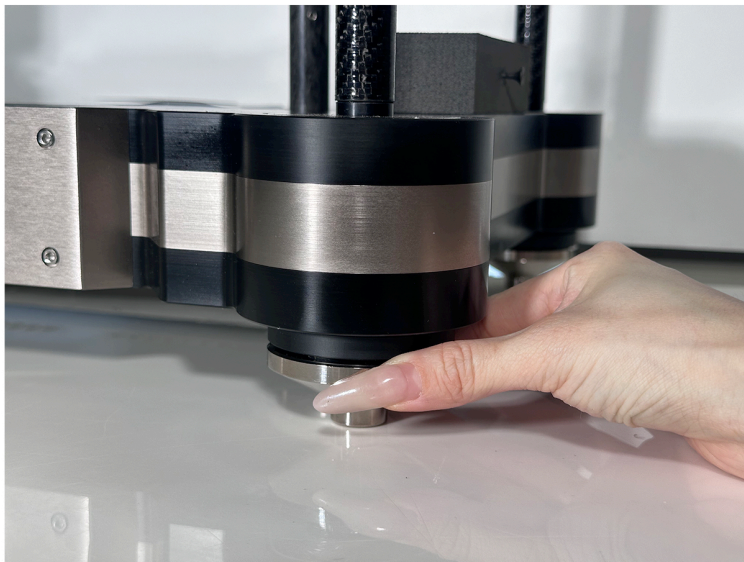
Please make sure the connector is fully
inserted and properly **CLICK-IN**
before proceeding.



6

Press the power selection button
located to the **right** of the power switch.

The button must be in **RIGHT** position to
enable the internal power supply.



7

Adjust the level of the PERPETUAL
base by unscrewing/screwing the
4 adjustable feet.

Rotate the feet as required until
the base is approximately level.



8

Use the supplied precision level to verify
the PERPETUAL base is perfectly level.

Check the level in multiple positions
and make further adjustments to the feet
if necessary.



9

Install the bottom plinth onto the PERPETUAL base.

Lower the bottom plinth **carefully** and evenly into position.

Ensure the orange O-rings inside the suspension tubes remain correctly seated during installation.



Make sure the spacer foam remains in place between the PERPETUAL base and bottom plinth during installation.

DO NOT REMOVE THE SPACER FOAM until instructed later in the assembly process.

They will be removed in step 19



10

Add 10 ml of BEARING OIL to the bearing cup well.

Please ensure a small amount of oil is also applied to the bearing shaft.



11

Place the bearing ball on top of the bearing shaft.

PLEASE MAKE SURE THE BALL DOES NOT FALL OFF THE SHAFT.



12

Install the bottom platter onto the bearing shaft.

Lower the bottom platter carefully into position and **PLEASE MAKE SURE THE PLATTER IS FULLY SEATED ON THE SHAFT.**

PLEASE MAKE SURE THE BALL DOES NOT FALL OFF THE SHAFT.

The platter should rotate freely if the bearing ball remains correctly seated.



13

Install 2 belts onto the motor pulleys and the passive pulleys.

Please make sure the belts are properly seated in the pulley grooves and **are not crossed.**

Rotate the platter by hand and verify smooth operation.



14

Place the top plinth onto the bottom plinth as shown below.



15

Tighten the 8 set screws on the coupling tubes.

Please ensure all set screws are securely tightened.



16

Add 8 ml of BEARING OIL to the bearing cup well.

Please ensure a small amount of oil is also applied to the bearing shaft.

(Same as step 10)



17

Place the bearing ball on top of the bearing shaft.

PLEASE MAKE SURE THE BALL DOES NOT FALL OFF THE SHAFT.

(Same as step 11)



18

Install the top platter onto the bearing shaft.

Lower the top platter carefully into position and PLEASE MAKE SURE THE PLATTER IS FULLY SEATED ON THE SHAFT.

PLEASE MAKE SURE THE BALL DOES NOT FALL OFF THE SHAFT.

(Same as step 12)



19

Remove the foam spacing blocks on the right and left side.



20

Remove the top motor cover.

This will permit you to install the drive belts.



21

Put some vaseline grease (supplied) on the passive pulley shaft and the ceramic washer as per photo.

This is a very important step.



22

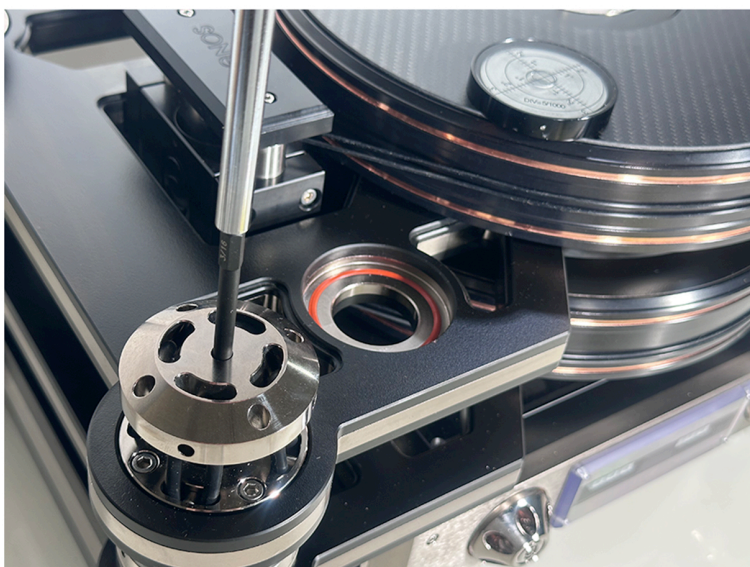
Install 2 drive belts onto the motor pulley and the passive pulley.

Please make sure the belts are properly seated in the pulley grooves and **are not twisted or crossed.**



23

Reinstall the top motor cover.



24

After installing the tonearm, verify that the plinths are level.

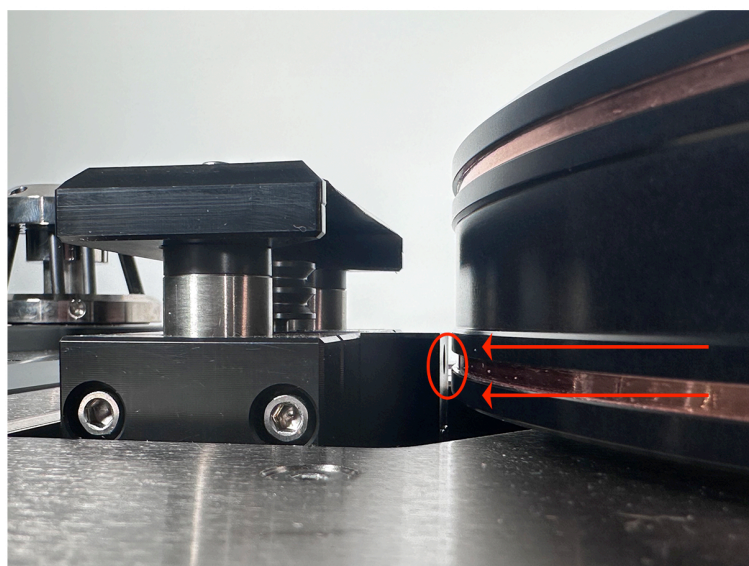
If necessary, adjust the suspension using the adjustment screws shown below.

First screw down the level adjustment screws. Raise **3 out of 4** screws to complete the leveling of the top plinth.

Note: Place the supplied level directly on the top plinth or preferably on the top platter



This adjustment was completed at the KRONOS factory. Minimal adjustment should be necessary.



25

Sensor Height Verification

The **copper ring of the platter** should be **aligned** with the **optical sensor** located in the motor assembly.

Adjustment is only required if the alignment has been disturbed.

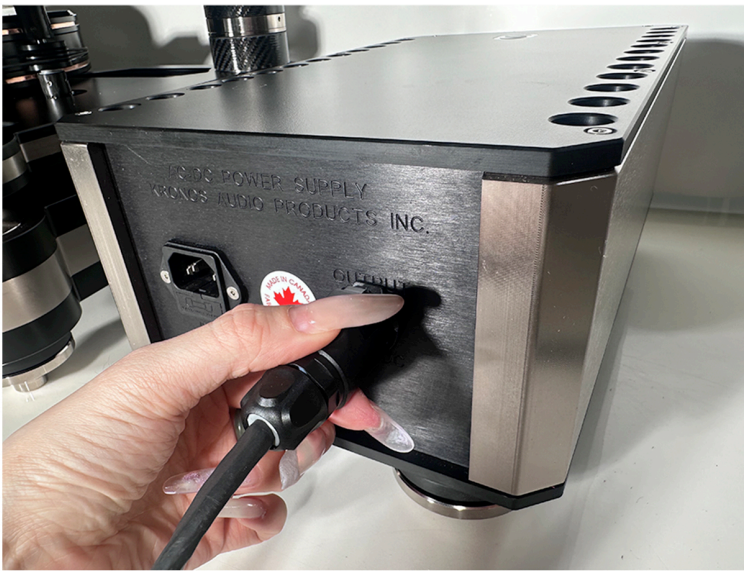
This adjustment is performed and verified at the KRONOS factory. If the alignment is no longer correct, it has most likely been affected during the leveling process, as raising the top plinth may slightly alter the sensor alignment.

26

Connect the DC power cable to the proper connector.

If using the SCPS-P, connect the cable to the rear panel of the SCPS-P.

If not using the SCPS-P, connect the cable to the rear panel of the PERPETUAL power supply.



27

Connect the grounding cable to the rear panel of the PERPETUAL.



If using a KRONOSSCOPE or RS tonearm, use the 3.5 mm jack-to-jack grounding cable shown on the left.

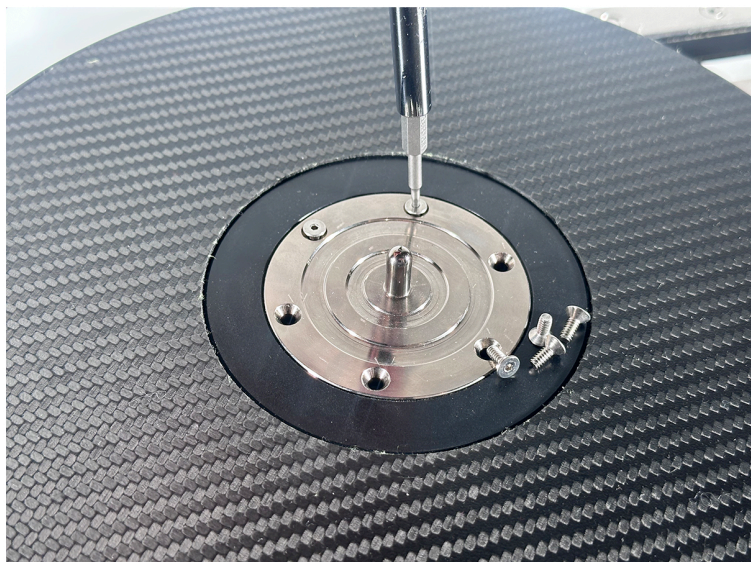
If using any other tonearm, use the 3.5 mm jack-to-terminal grounding cable shown on the right.

The grounding cable will be connected to the tonearm grounding point during final assembly.



Left:
3.5 mm Jack-to-Jack Ground Cable
(for KRONOSSCOPE and RS tonearms)

Right:
3.5 mm Jack-to-Terminal Ground Cable
(for all other tonearms)



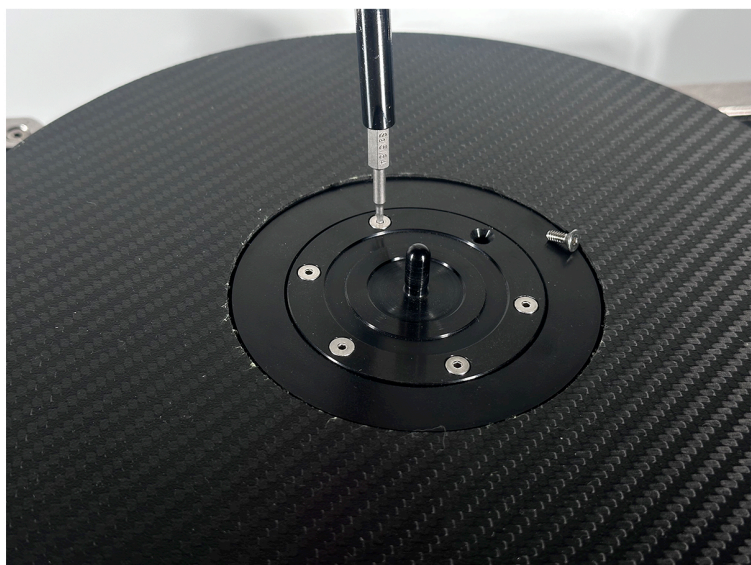
Optional DS Audio Optional Spindle Installation

Note: Install the DS Audio Optional Spindle **only** when using the DS Audio Centering Device. Please contact your authorized KRONOS distributor for availability.

A

Remove the original spindle

Remove the original spindle by loosening and removing the six retaining screws.



B

Install the DS Audio Optional Spindle

Do not overtighten the retaining screws. Tighten them only until the spindle is securely seated.



28

Install the record weight

Place the record clamp onto the installed spindle

Note: The supplied record weight **is not** intended to function as a record clamp.

KRONOS **does not** recommend the use of clamping weights with the Perpetual turntable.



29

Connect a high-quality AC power cable to the power supply.

Connect a high-quality AC power cable to the AC inlet on the rear panel of the power supply.



30

Connect the AC power cable directly to a grounded wall outlet.

The AC power cable should be connected **directly to** a properly grounded wall outlet.

Avoid using power conditioners, power regenerators, isolation transformers, or active grounding systems, as they may affect the performance of the turntable.



31

Front Panel Controls

A — LED Display ON/OFF

Rotate **A** to turn the LED display on or off.

B — Speed Selection

Rotate **B** to switch between 33 $\frac{1}{3}$ rpm and 45 rpm.

TECHNICAL SPECIFICATIONS:

rotational speed:	33.3 rpm and 45 rpm
tonearm length:	9 inches to 12 inches
dimensions (inches) :	24.5 in (W) x 15 in (D) x 10.5 in (H)
dimensions (cm) :	62 cm (W) x 38 cm (D) x 27 cm (H)
turntable weight :	115 lbs / 52 kg
power supply weight :	25 lbs / 11 kg
SCPS-P weight :	23 lbs / 10.5 kg
crate dimensions (inches) :	24.5 in (W) x 17 in (D) x 10.5 in (H), 27.5 in (W) x 17.5 in (D) x 15.5 in (H)
crate dimensions (cm) :	62 cm (W) × 43 cm (D) × 33 cm (H) 70 cm (W) x 44.5 cm(D) x 40 cm (H)
shipping weight:	180 lbs / 82 kg
power supply:	dedicated external low-noise linear DC power supply
ac voltage input:	110V or 220V factory set
dc voltage output:	0 to 5 volt, dual mono cpu controlled, factory calibrated
drive system:	dual counter-rotating platter architecture
motors:	DCX precious metal brushes dc motors (qty 2)
motor mounts:	delrin enclosure, height adjustable
speed guidance system:	2 continuous open feedback hall effect
sensors type:	2 optical diode I/O and 2 motor tachymeter
speed accuracy:	adaptive closed-loop monitoring system
correction cycle:	60 times / rotation. 0.1% max., 0.05% min.
platter type:	composite layers with copper and encapsulated, balanced
platter weight:	17 lbs (7.7 kg) / platter
drive:	2 silicone/viton 2.3 string belts / platter
compensation pulley:	teflon and chrome steel bearing
lubricant:	petroleum grease
service interval:	3 months (clean and re-grease)
main bearings:	dual hydraulic isolated inverted sleeve and ball
shaft type:	ground heat-hardened tool steel
ball type:	precision ceramic
lubricant:	8 ml variable viscosity synthetic oil
service interval:	5 years (clean and re-oil)
suspension:	full floating top suspended
elastomers:	317 o-rings, viton/silicone proprietary mix

KRONOS

TIME FOR MUSIC®

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