



ASSEMBLY INSTRUCTIONS

THANK YOU
for purchasing the Kronos turntable.

The Kronos has been designed to produce the best sound reproduction possible from a vinyl record. It is built without compromise for this single purpose. It is a state-of-the-art hand built instrument. Each Kronos is individually constructed, assembled and tested to ensure years of musical enjoyment.

It is important that you take the time to read this manual before assembling, installing and operating your Kronos. Assembly is simple, provided you follow all the necessary steps. Leveling of the turntable is particularly important.

Once this is done, you will find the Kronos 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. Make sure you use a quality protractor to properly align the cartridge.

Please keep in mind that your Kronos will need to settle for its first few days of operation. The self-learning speed guidance system will calibrate itself with use. After a few hours it will attain speed more quickly with a minimum of fluctuation. The micro-processor controlled speed adjustments are deliberately done in a slow and deliberate manner. This use of minimal power reduces motor induced vibration and hence optimum musical enjoyment.

Enjoy.

Louis Desjardins
Designer and CEO of Kronos Audio Products inc.



- 1 Place the turntable base on a solid audio rack or turntable shelf. Please avoid shelving made of granite or glass, as these materials resonate and amplify vibrations coming from the speakers in the audible frequency range.



- 2 Using the 4 adjustable feet and the supplied level,



level the turntable base left to right...



...and front to back. A bubble level can also be used, but is not as precise as the line level in your kit. Make sure all 4 feet touch the shelving to avoid rocking of the base back and forth.



- 3 Clean all turntable parts using the Kronos cleaner. The Kronos is finished in a luxurious brushed nickel. Wipe on the cleaner and let it dry, the finish will remain bright and clean. **Avoid using cleaner on the platters where the belts contact.** A glass cleaner is a better cleaner in that case.



- 4 Insert the supplied 4 spacer rings. This will simplify assembly of the Kronos.



- 5 Place upon the rings the second level deck assembly.



- 6 Install the silver colored bearing well using the supplied 10-32 socket head screws. **Do not over tighten.**



- 7** Add 8 ml. of Kronos bearing oil. **Make sure the bearing shaft is oiled.** A syringe is included in your kit to facilitate this process.



- 8** Place the bearing ball on top of the bearing shaft. **Make sure it does not fall in the bearing well.** The bearing ball for the lower platter is made of steel, and is silver in color.



- 9** Carefully deposit the balancer platter (the one without the spindle) onto the bearing shaft. **The platter should rotate freely.** If it does not, remove the platter and make sure the ball is on top of the bearing shaft.



- 10** Install the 3 belts onto the motor pulley and pick up pulley. **Make sure no grease or oil contact the belts.** If this happens, the belts can be cleaned using regular glass cleaner.



- 11 Place the third deck upon the second deck assembly.



- 12 Slide in the 4 leg caps, making sure the socket head screws glide into their respective holes. Wiggle everything a little, the caps should find their way flush against the deck.



- 13 Tighten the socket head screws. **Do not over tighten.**



- 14 Install the gold colored bearing well using the supplied 10-32 socket head screws. Do not over tighten. Add 8 ml. of Kronos bearing oil. **Make sure the bearing shaft is oiled.** Place the bearing ball on top of the bearing shaft. **Make sure it does not fall in the bearing well.**



- 15** Carefully deposit the top platter (the one with the spindle) onto the bearing shaft. **The platter should rotate freely.** If it does not, remove the platter and make sure the ball is on top of the bearing shaft.



- 16** Install the top pick up pulley. Grease the pulley shaft and also grease the shoulder of the shaft assembly. Insert the pulley. **Do not over grease.** Once every 6 months or so, the pulley can be removed, cleaned (along with the shaft) and re-greased. This will insure better speed stability. Install the 3 belts as in step 10.



- 17** Install the tone arm board specified for the particular tonearm you will be using. **Install your tonearm using a proper protractor and make adjustments.**



- 18** Remove the white leg spacers by cutting the tie wraps. Keep the spacers in a safe place, you will need them if you need to move the Kronos, or if you need to disassemble it for transport. Additional tie wraps have been supplied for such an eventuality. **It is very important that the Kronos not be moved without installing the white spacers. Failure to do so could damage the speed sensors located left of the platters.**



- 19** Level the suspended turntable by loosening the screws at the top of each leg (through the hole at the center top of leg caps). Level the turntable left to right and front to back. Tighten the set screws securing the leg caps to the leg shafts



- 20** Connect the female end of the 2 pico cables to the motor base. Be careful as there is a **3 pin cable** and a **4 pin cable**.



- 21** Connect the male end of the 2 pico cables to the power supply. Be careful as there is a **3 pin cable** and a **4 pin cable**. Connect the power supply to the AC mains. The power supply AC input voltage is set at the factory to either 110 volt or 220 volt. **If a change of AC input voltage is required, please contact us so that you can ship back the power supply for a voltage change and re-calibration.**



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Turn on the power switch on the power supply. The turntable display will light on, and indicate 00.0. **Place and hold** two fingers flat on the touch sensitive sensor, on the left of the LEDs. The display will flash from 00.0 to 33.3. The platters will start rotating. Correct speed will be attained in approximately 30 seconds. It could take a little longer the first few times, as the system will need to calibrate itself. Placing two fingers on the left again will turn off the turntable, and the display will read 0.00.



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Once the turntable is moving, placing two fingers to the right of the LEDs will toggle from 33.3 rpm to 45 rpm. Again, this operation may take a little longer in the beginning as the system calibrates.



TECHNICAL SPECIFICATIONS:

dimensions:	22 in (W) x 14 in (D) x 11 in (H) 56 cm (W) x 36 cm (D) x 28 cm (H)
weight:	90 lbs / 41 kg
crate dimensions:	25 in (W) x 17 in (D) x 15 in (H) 64 cm (W) x 43 cm (D) x 38 cm (H)
shipping weight:	120 lbs / 55 kg
rotational speed:	33.3 rpm and 45 rpm
power supply:	dual channel pure class A linear DC
ac voltage input:	110V or 220V factory set
dc voltage output:	0 to 5 volt, dual cpu controlled, factory calibrated
dc transmission:	pico 3 pin cable
transmission:	pico 4 pin cable
motors:	2432 precious metal brushes dc motors (qty 2)
motor mounts:	delrin enclosure, height adjustable
speed guidance system:	2 continuous open feedback loops
sensors type:	2 optical diode I/O and 2 motor tachymeter
correction cycle:	60 times /rotations. 0.1% max. 0.05% min.
monitoring:	twin real time speed LED display
command input type:	1 capacitance sensor on/off (left) 1 capacitance sensor 33/45 (right)
tonearm length:	9 inches to 12 inches (229mm to 310mm)
platters type:	composite layers and encapsulated, balanced
platter weight:	28 lbs (13kg) / platter
drive:	2 silicone/ viton 1.8 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:	grounded heat hardened tool steel
ball type:	ceramic top platter, precision steel lower platter
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

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