



ASSEMBLY INSTRUCTIONS

THANK YOU
for purchasing the Kronos Sparta turntable.

The Sparta 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 Sparta 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 Sparta. 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 Sparta 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 Sparta 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** Remove Sparta from crate. Put Sparta on a solid surface. Do not remove the styrofoam spacer blocks at this moment.



- 2** Remove the suspension caps by loosening the screws using the 5/32 spanner.



- 3** Remove top plate and set aside.



- 4** Adjust level of base using the 4 adjustable feet and the level located in the base.



- 5** Fill the oil well with 8 ml of Kronos oil. Make sure to put oil on the bearing shaft. Do not use any other oil type. Do not overfill.



- 6** Place the bearing ball on the top of the shaft. Make sure the ball stays in place.



- 7** Install carefully the lower platter. Make sure the platter spins freely. If it does not, the ball might have fallen from the top of the shaft. If in doubt, remove platter and start again.



- 8** Install belt using the top groove of the pulley.



- 9** Reinstall the top plate and reinstall the suspension caps by tightening the screws using the 5/32 spanner.



- 10** Repeat the steps 6, 7 and 8 to install the top platter.



- 11** Install the arm board. The arm board can slide to adjust the arm alignment.



- 12** ONCE THE ARM IS IN PLACE: remove the styrofoam spacers. Adjust the top plate level using the adjusters through the center of the suspension caps.



- 13** Lock the suspension caps by tightening 2 set screws between the suspension o-rings, as shown.



- 14** Connect the control cables on the Sparta. There is a 3-pin connector and a 4-pin connector.



- 15** Connect the control cables to the power supply, again being careful to connect the 3-pin and the 4-pin connectors at their rightful location. Connect the strobe cable using the RCA connector.



- 16** Turn on the power supply. The platters will start rotating.



- 17** Speed can be selected using the 33/45 toggle switch.



- 18** The strobe can be used to adjust the playback speed. To change the speed, the adjustment toggle switch must be depressed toward the + or -. Each click of the toggle will change the speed in small steps.



- 19** ONCE THE SPEED IS SET: Push the memory switch **up and down** to keep setting in memory. You need to do this for both **33 and 45**. Once set, the system will remain calibrated until a new adjustment is made and memorized. The speed will remain set even if the power supply is disconnected.

TECHNICAL SPECIFICATIONS:

dimensions:	20 in (W) x 14 in (D) x 11 in (H) 51 cm (W) x 36 cm (D) x 28 cm (H)
weight:	70 lbs / 32 kg
crate dimensions:	24 in (W) x 32 in (D) x 16 in (H) 61 cm (W) x 81 cm (D) x 41 cm (H)
shipping weight:	95 lbs / 43 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, 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 capped aluminum tubes
speed guidance system:	continuous open loop feedback, user speed adjustable
sensors type:	optical diode I/O top motor tachymeter
correction cycle:	60 times /rotation. 0.15% max., 0.05% min.
strobe:	cpu generated 120 Hz with LED output
tonearm length:	9 inches to 10.5 inches (229 mm to 267 mm)
platters type:	composite compressed phenolic/aluminum, balanced
platter weight:	27 lbs (12kg) / platter
drive:	1 silicone/viton 2.3 string belt / platter
main bearings:	dual hydraulic isolated inverted sleeve and ball
shaft type:	grounded heat hardened tool steel
ball type:	precision steel
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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