



KRONOS

BLACK BEAUTY
AND HELENA

ASSEMBLY INSTRUCTIONS

THANK YOU

for purchasing an André Thériault tonearm.

It is with pride that we are the worldwide distributor of this innovative tonearm. It is in our opinion the best sounding tonearm available today. This level of performance stems from the fact that this tonearm was designed taking in consideration fundamental physics issues that had been previously neglected.

Firstly, the vertical location of the pivot point is at the level of the record groove (or very close to it). This removes a torquing force on the cantilever. It stabilizes the stylus within the groove and minimizes the negative effects of skating forces. Hence superior tracking performance is achieved without the use of anti-skating correction and thus eliminating this oscillating system.

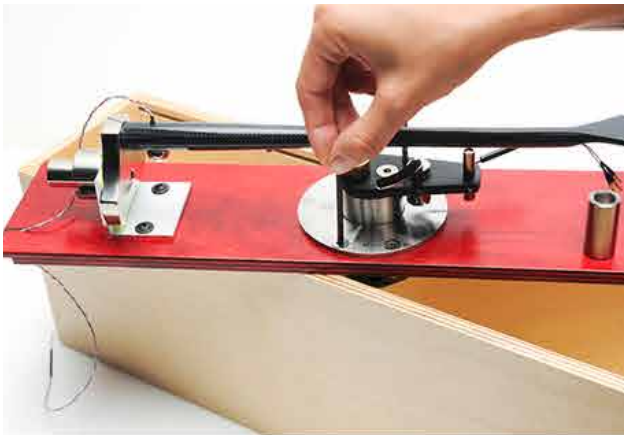
Secondly, the mass of the tonearm is optimally distributed around the axis joining the stylus contact point and the pivot point, further enhancing the tonearm stability. This mass is also concentrated as close to the pivot point as possible, reducing inertia and improving response.

Finally, the innovative construction of the dual wall carbon arm tube maximizes rigidity while minimizing mass and resonance transmissions.

It is no wonder we are proud of this design. It allies efficiency with absolute simplicity. It has all the required adjustment to get the most from your cartridge performance. Yet it retains a pure design in form and function.

Please follow the step by step instructions to assure a successful installation. And enjoy your time for music.

Louis Desjardins
Designer and CEO of Kronos Audio Products inc.



1 Remove tonearm and tonearm base from the tonearm box.



2 Connect the ground wire to the tonearm base, and then to the phono stage.



3 Remove the delrin nut from the tonearm base.



- 4** Install the tonearm base to the Sparta mounting board.



- 5** Set the base height level to the platter using the supplied protractor as a straight edge.
2 adjustments exist:
1. the base column can be unscrewed to set the base height.
2. the bearing cup can also be unscrewed for fine vta adjustments.



- 6** Tighten the delrin nut using the supplied dowel pin.



- 7** Put 2 or 3 drops of the supplied oil in the bearing cup.



8

Place the supplied protractor over the platter spindle. Place the other end of the protractor next to the bearing cup.



9

Slide the Sparta armbase so that the mounting cup fits within the circular cut of the protractor. This is a first alignment of the tonearm. It will need to be more precisely adjusted once the cartridge is installed on the tonearm.



10

Install the cartridge and adjust the tracking force by moving the counterweight on the weight shaft. Please notice that 2 shafts are supplied:

1. a lightweight shaft for cartridges from 6 to 12 grams.
2. a heavier shaft for cartridges heavier than 11 grams.





- 11 Adjust the azimuth by rotating the counterweight shaft.



- 12 **If** rotating the counterweight is **not** sufficient to adjust the azimuth, a coarse azimuth adjustment can be effected by loosening the main countershaft screw and rotating slightly the tonearm wand. Retighten the main countershaft screw.



Align the cartridge using the 2 null points on the protractor. The cartridge can be rotated by loosening the cartridge screws. A finer adjustment can be effected by slightly sliding the Sparta mounting board forward or backward.



- 13 Once the cartridge is properly aligned, fine vta can be adjusted by screwing up or down the bearing cup. A set screw at the back of the base column will lock the base in place.

Finally, verify the tracking force and azimuth adjustments.

Connect the tonearm cable to the Sparta tonearm connector plate.

TECHNICAL SPECIFICATIONS:

	Helena	Black Beauty
Shipping weight:	3kg (6.6 lbs)	3kg, (6.6 lbs)
Shipping dimensions:	43×14.5×11.5 cm	43×14.5×11.5 cm
effective length:	266.7 mm	308 mm
effective mass:	medium	medium high
overhang:	15.4 mm	13.2 mm
pivot to spindle distance:	251.3 mm	294.8 mm
maximum tracking error:	0.0159	0.0135
measured resonant frequency (9 grams, 15 units of compliance test cartridge):	9.5 hertz	8.5 hertz
cartridge weight compatibility:	7 to 16 grams	
VTA adjustments:	coarse and fine up to 1 inch	
azimuth adjustment:	coarse and fine	
bearing type:	proprietary ball and spherical mirror uni-pivot.	
arm tube characteristics:	double wall high modulus carbon fiber composite.	
outer shell:	3k 50t fibers, variable thickness an fiber orientations.	
inner tube:	uni-directional fibers. Selected wood fairings between the tubes. Hand polished cellulosic lacquer finish.	
arm lift:	hydraulic dampened	

KRONOS

TIME FOR MUSIC®

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