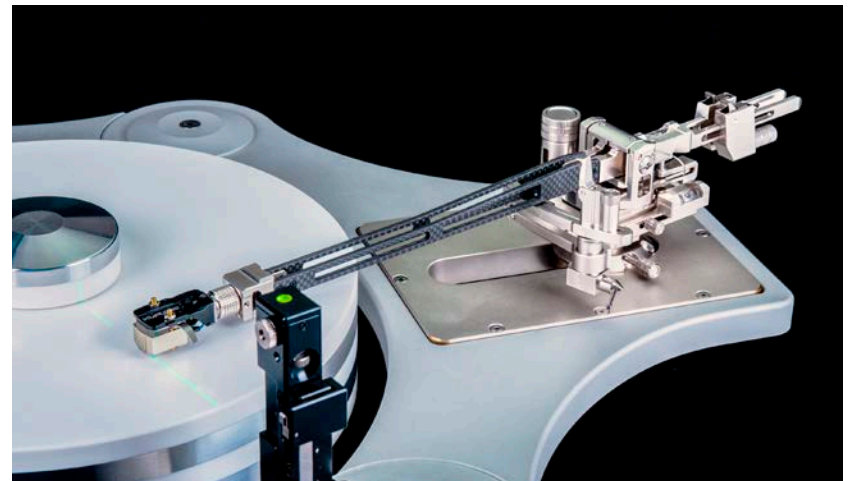


KLAUDIO™
www.klaudio.com

KLAUDIO™



KD-ARM-MP10/12

Tangential Tonearms

User's Manual


English v1.4

GENERAL PRECAUTION


Please read this manual carefully before using your Klaudio product.

ABOUT SIGNS


Throughout this document, critical information is highlighted in gray-colored boxes. The following symbols are intended to help prevent any situation which may cause personal injury and/or damage to equipment:



WARNING: Indicates a potentially hazardous situation which, if not avoided, could result in personal injury or be life-threatening.



CAUTION: Indicates a potentially hazardous situation which, if not avoided, may result in damage to equipment or property.



PROHIBITED: Indicates a prohibited action.

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CONTACT INFORMATION

Customer Support: tech@klaudio.com
Web: www.klaudio.com
Address: 2840 W Valley Hwy N, Ste. 101, Auburn, WA 98001, USA
Phone: +01 253-249-7813



CAUTION: This product contains a Class IIIa laser. Do not look directly into the beam, point the laser toward any person or vehicle, dismantle the laser, or view it with optically telescopic devices.

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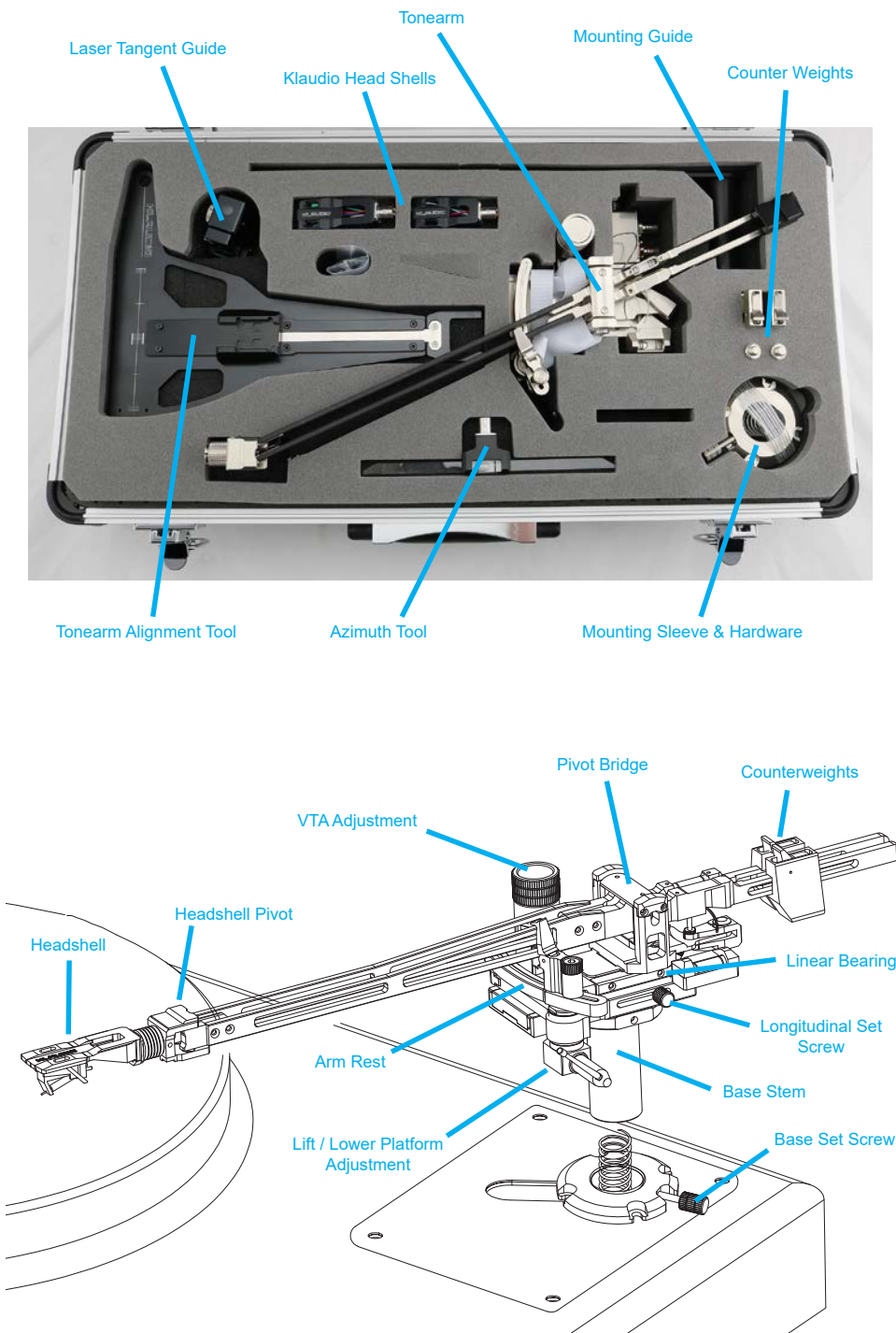
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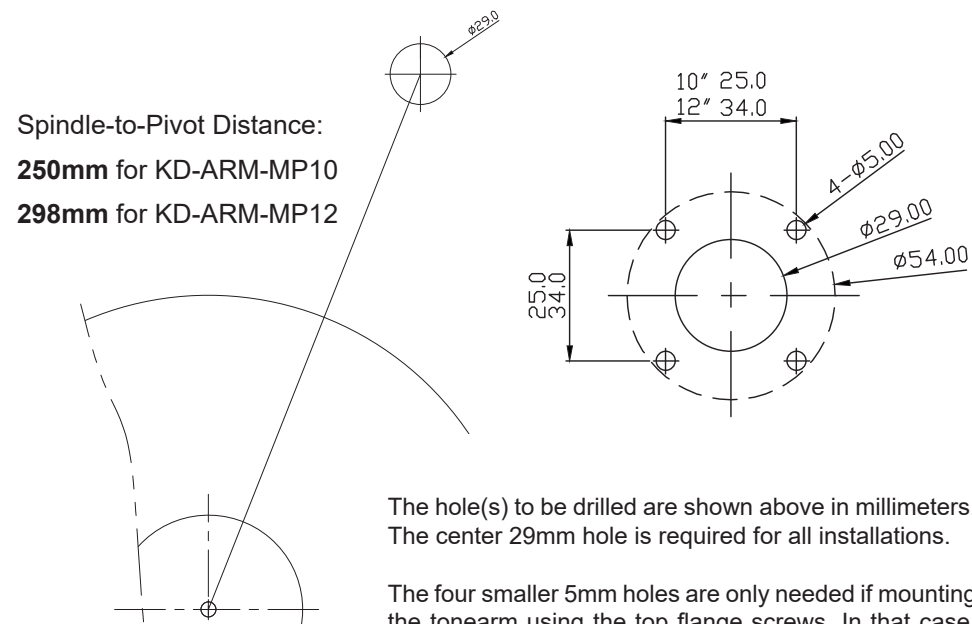
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Chapter 1: Base Mounting

1-1 Measure mounting points. The tonearm spindle-to-pivot distance depends on your Klaudio tonearm model. For KD-ARM-MP10 (10.5-inch effective length), this distance is 250mm. For KD-ARM-MP12 (12-inch effective length), it is 298mm.

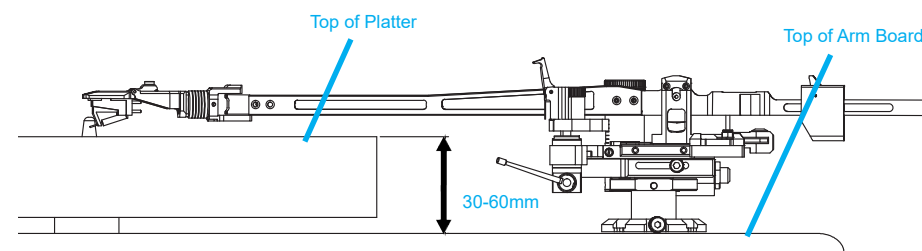
The center point for the 29mm mounting hole should be centered as illustrated below:



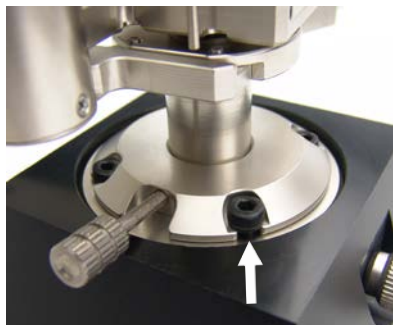
The hole(s) to be drilled are shown above in millimeters. The center 29mm hole is required for all installations.

The four smaller 5mm holes are only needed if mounting the tonearm using the top flange screws. In that case, they are 25mm apart for KD-ARM-MP10, and 34mm apart for KD-ARM-MP12.

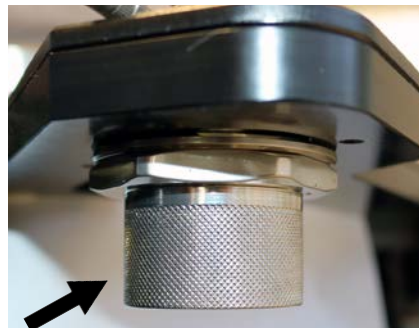
The optimal height range between the top of the platter to the arm board is 30-60mm. VTA will not be as configurable with heights outside of this range.



1-2 Decide on mounting method. The tonearm can be installed using screws (not included) in the top flange, or the included threaded stem nut beneath the table.

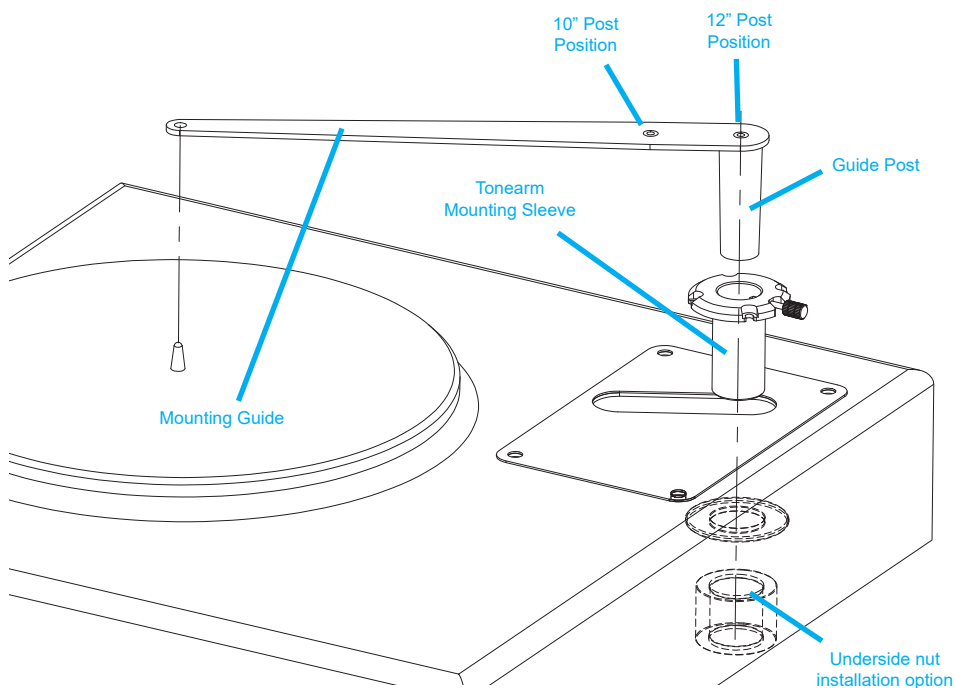


Above-armboard flange screw option
(screws not included)



Below-armboard stem mounting nut option

1-3 Use mounting guide to install tonearm sleeve. Use the mounting guide to position the tonearm sleeve for installation. Attach the guide post to the designated position for a 10" or 12" tonearm length. The opposite end hooks onto the turntable spindle.

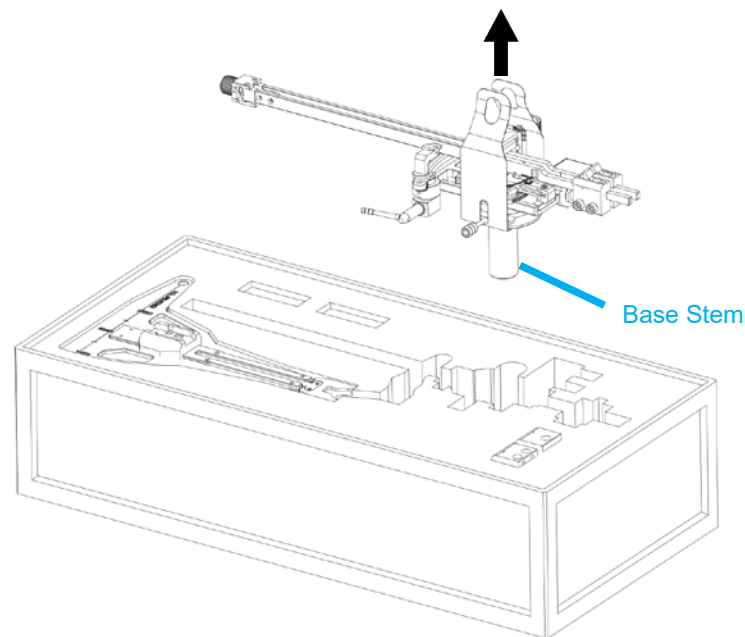


Complete sleeve mounting by installing either the top flange screws or underside stem nut (Options 1 or 2).



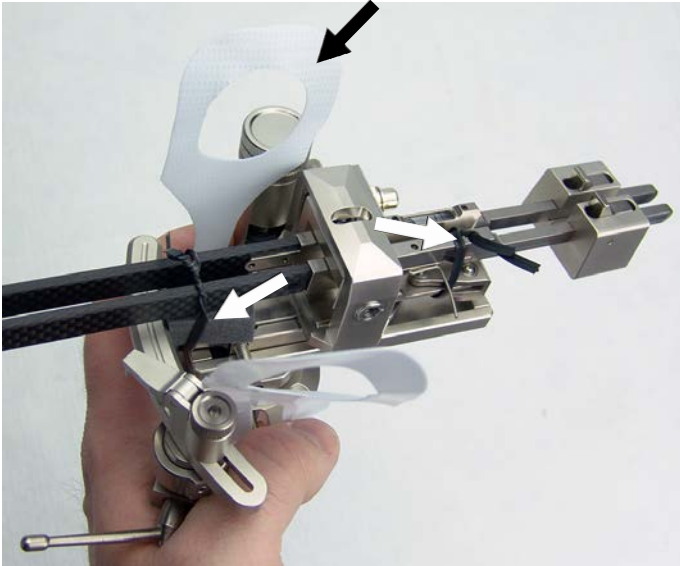
Carry the tonearm exclusively by its base stem. Do not handle the tonearm by its pivot bridge, pivot points, or linear bearing structure to avoid damaging these very precisely machined and calibrated parts.

1-4 Remove tonearm from case. Carefully remove the tonearm from its foam packaging by lifting the temporary plastic handle strap.



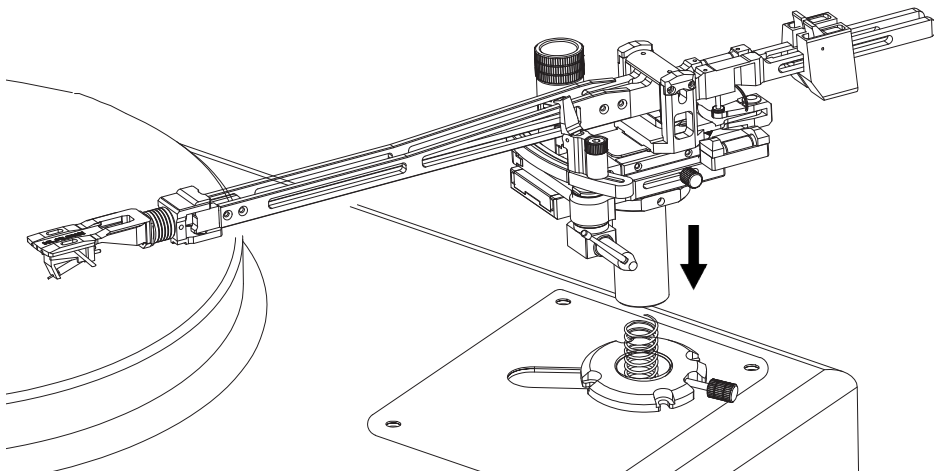
Chapter 2: Coarse & Orientation Setting

1-5 Remove packaging material. Carefully remove all packaging material from the tonearm. This may include a plastic handle strap and any wire ties or foam pieces.



Carefully remove all packaging material

1-6 Mount tonearm to arm board. With the tonearm sleeve prepared, insert the spring followed by the tonearm.



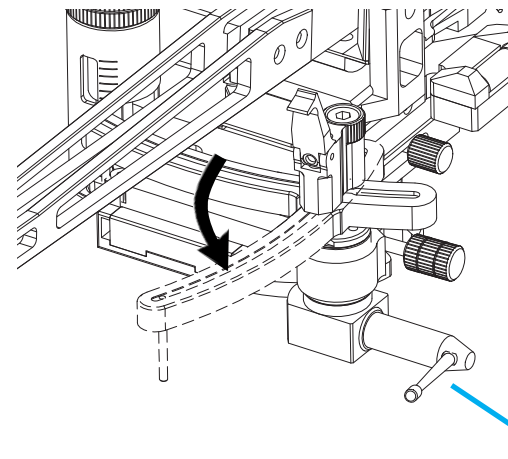
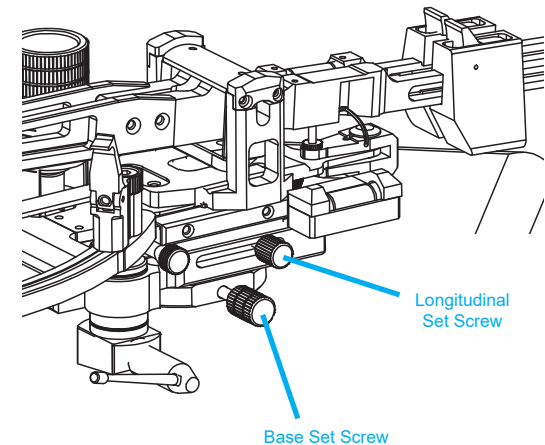
2-1 Attach cables. It is advisable to connect the RCA and Ground wires to the tonearm at this time before length adjustment.



2-2 Loosen lower base set screw.

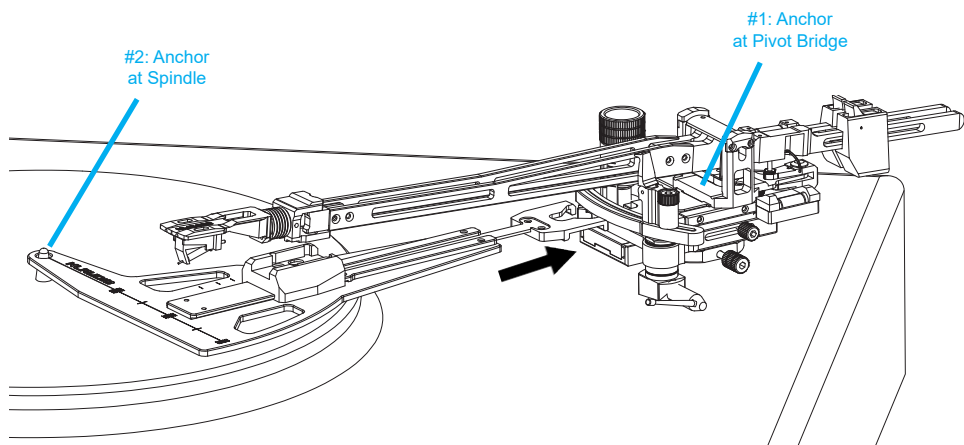
Note: Whenever replacing the cartridge in the future, repeat steps 2-3 through 2-8, then continue onto 3-2.

2-3 Loosen upper longitudinal set screw.

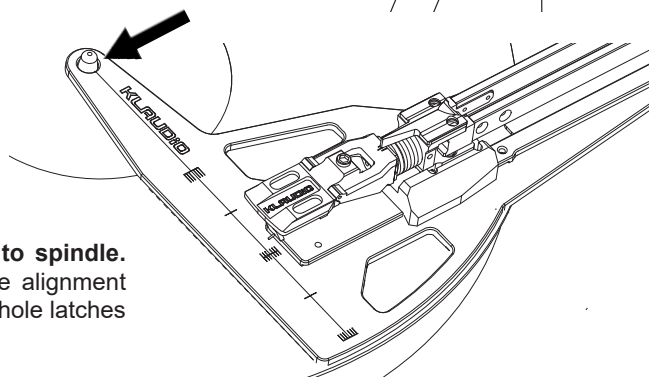
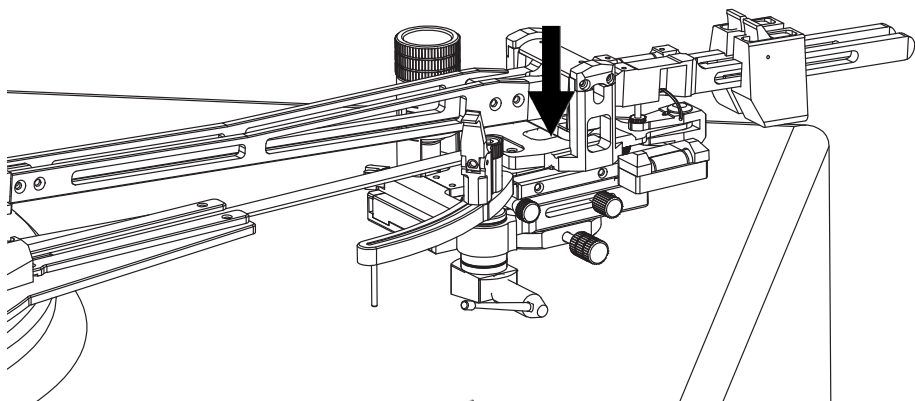


2-4 Rotate the arm rest. Temporarily swing the arm rest out of the way for the alignment process.

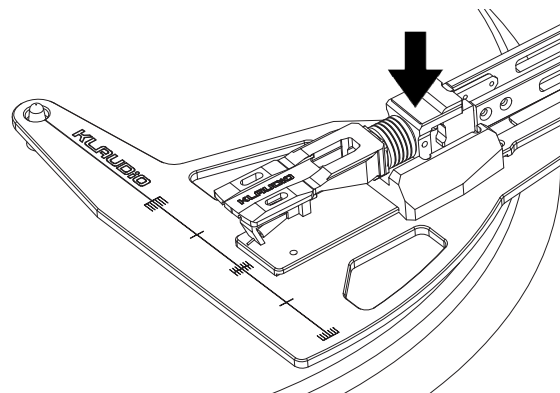
2-5 Install alignment tool. The included alignment tool is used to configure the tonearm's course (height) and orientation angle. The tool is anchored to the pivot bridge (#1, small end), then extended to the platter spindle (#2, large end).



2-6 With the tonearm slightly inclined, hook alignment tool to pivot bridge. Hook the small end of the alignment tool to the bottom of the pivot bridge (just below the arm itself). Make sure both prongs fit securely.



2-7 Attach alignment tool to spindle. Extend the larger half of the alignment tool so that the tab's circular hole latches onto the spindle.

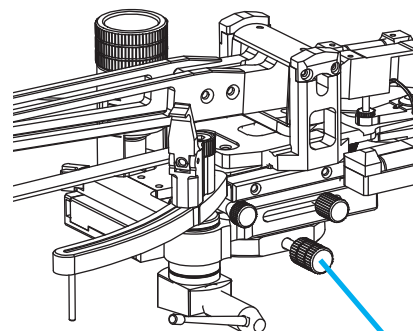
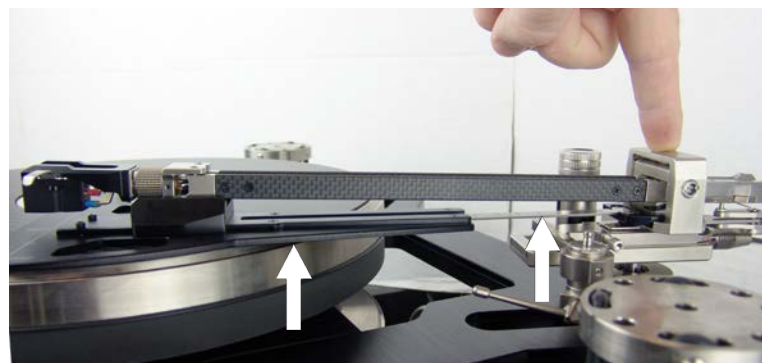


Headshell Pivot Should Rest in the Alignment Tool

2-8 Install head shell and rest tonearm in alignment tool. Install your preferred head shell and cartridge onto the tonearm for needle alignment.

The headshell pivot should rest in the sliding receptacle of the alignment tool. Adjust the tonearm counterweights to assist with this if needed (described later).

2-9 Level alignment tool to set tonearm coarse. Gently push down on the pivot bridge until the alignment tool is flat against the platter. If necessary, adjust the VTA beforehand to assist with this (usually 10% or higher).



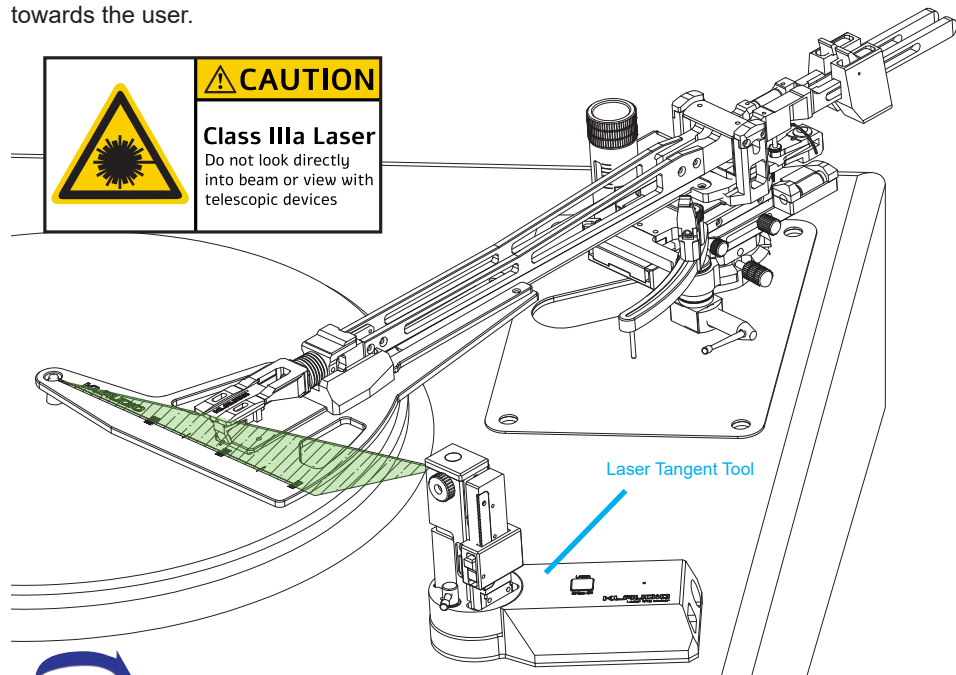
Base Set Screw

2-10 Tighten lower set screw by hand. When the alignment tool is level, tighten the base set screw gently by hand.

Chapter 3: Needle Alignment, Horizontal Leveling

3-1 Position laser tangent tool. The laser tangent tool serves to illuminate the tangential line after the alignment tool is removed.

The laser should be placed on the turntable so that it projects lighting along the tangent line. For safety reasons, it should be angled AWAY FROM THE USER towards the turntable spindle. Do not place the laser tangent tool on the far side of the turntable with lighting towards the user.



The laser tool has a variety of controls to rotate the projection head and adjust the laser angle. When aligned properly, the laser beam should illuminate the stylus when the needle is over the tangential line.

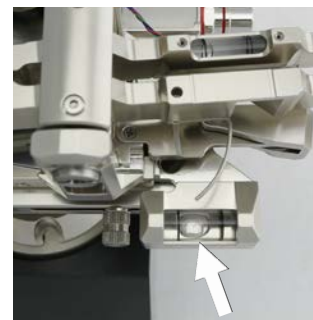
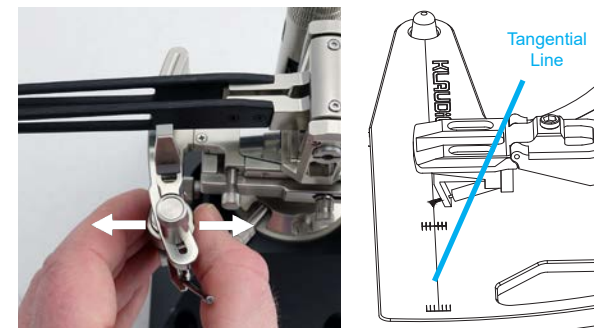
The laser will illuminate continuously if powered through its micro-USB port and with the rear toggle switch selected for "AC".

When the laser is powered by its internal battery, the toggle switch should be on "BATT". This activates the laser for 30 seconds each time the top side's "LASER" button is pressed.

Charge the internal battery by connecting a micro-USB cable to a 5VDC power source until the top red LED turns off.



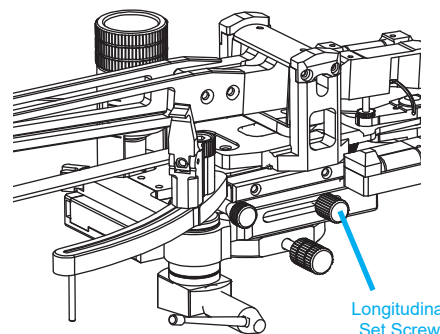
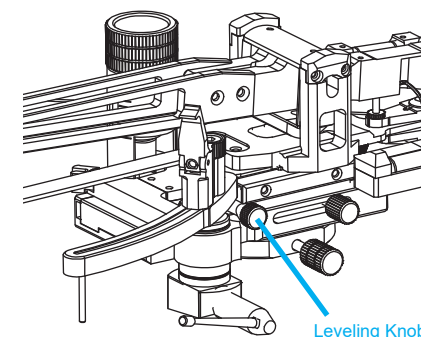
3-2 Align needle to tangent line. Move the arm rest base (tonearm length adjustment) until the stylus needle is directly above the tangential line indicated on the alignment tool.



3-3 Check base with bubble level. Horizontal leveling of the tonearm is important for countering horizontal drift of the head shell.

Use the lower integrated bubble level. If horizontal leveling is off, the turntable or tonearm base should be checked for level and flush installation.

3-4 Adjust level with knob, if needed. Slowly adjust the leveling knob (clockwise or counter-clockwise) until the bubble level indicates good horizontal alignment.



3-5 Tighten upper set screw, then remove alignment tool. Once the needle is aligned, tighten the longitudinal set screw gently by hand.

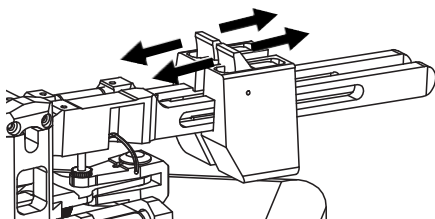
Remove the alignment tool and rotate the arm rest to its normal position.

Chapter 4: Counter-Weight Adjustment

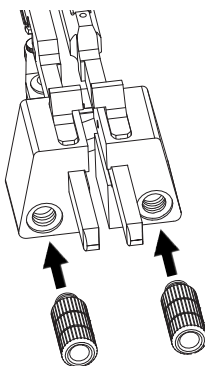
4-1 Weigh cartridge and balance arm. The tonearm can now be balanced for your head shell and cartridge. Use a weight scale on the platter like a traditional tonearm.

There are two counterweights on the tonearm. They should be moved loosely in tandem (parallel).

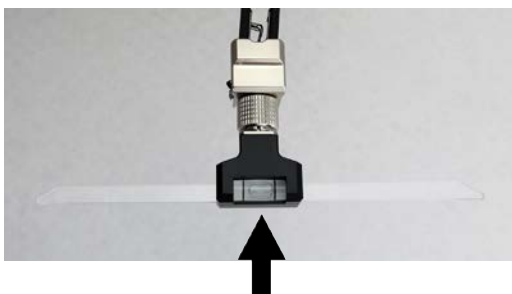
The counterweights are moved by pulling both top levers and sliding the weights along the tonearm.



If additional weight is needed, add both threaded posts to the rear of the counterweights.



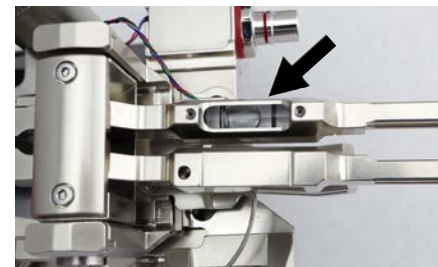
Chapter 5: Miscellaneous



Confirm azimuth by using test head. Use the included test head piece to verify azimuth. The connector angle can be adjusted slightly by gently rotating it.

Reference integrated bubble level for VTA. When adjusting VTA, the tonearm's integrated bubble level should be referenced.

Do not adjust the bubble level's screws. They are pre-calibrated.

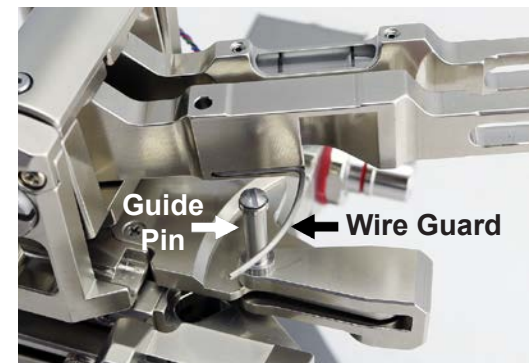


Adjust platform arm. The platform adjustment lever can be rotated to a more convenient position by temporarily loosening its set screw. Rotate the lever and retighten the screw at the desired position.

Reposition guide pin, if needed.

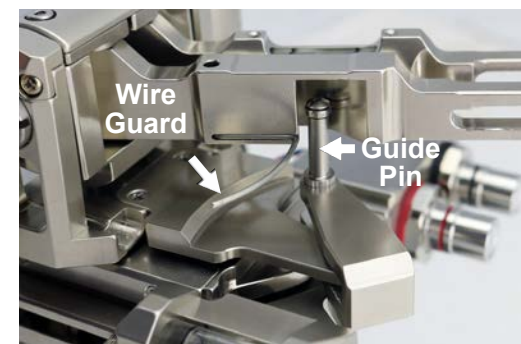
The tonearm's guide pin should always stay behind the wire guard or hidden within its channel in the tonearm.

If the guide pin gets relocated in front of the wire guard, the tonearm can not move properly. Follow the below instructions to fix this:



Incorrect Guide Pin Position (In Front of Wire Guard)

1. Rotate the arm rest out of the way.
2. Swing the tonearm off the platter.
3. Lightly push down on the head shell. This will lift the rear of the tonearm.
4. Move the guide pin back into position.
5. Return the arm rest to its original position.



Correct Guide Pin Position (Behind Wire Guard)

Limited Warranty

Klaudio ("Klaudio") warrants each new tonearm product against defects in materials or workmanship for a period of two years from the date of purchase, and agrees to repair or replace any defective Klaudio system without charge. Shipping costs are non-refundable.

This warranty is non-transferable. All warranty claims must be accompanied by the original proof of purchase.

THIS WARRANTY DOES NOT COVER DAMAGE RESULTING FROM ACCIDENT, MISUSE OR ABUSE, LACK OF REASONABLE CARE, SHIPPING DAMAGE, MODIFICATIONS, THE AFFIXING OF ANY ATTACHMENT NOT PROVIDED WITH THE PRODUCT, OR LOSS OF PARTS .

Use of chemical cleaning agents or liquids will void this warranty. Klaudio will not pay for warranty service performed by a non-authorized repair or diagnostic service and will not reimburse the consumer for damage resulting from warranty service performed by a non-authorized repair service. No responsibility is assumed for any special incidental or consequential damages due to a defective Klaudio product.

In order to obtain warranty service, contact our RMA department for information. The product must be shipped postage prepaid to an authorized Klaudio service location. It is suggested that, for your protection, you return shipments of product by insured mail, insurance prepaid. Damage occurring during shipment is not covered by this warranty. Shipping costs are non-refundable. No other warranty, written or oral, is authorized by Klaudio.

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