



Thanks for Buying The Wand Master Unipivot Tonearm®

The best tonearm in the world will sound like the worst if it is badly set up.
 These instructions will help you achieve great performance with your tonearm.
 Installation videos may be accessed via www.thewandtonearm.com or the QR code



The Wand Tonearm has been meticulously designed using computer modeling and refined by listening. All attention has been focused on maximizing musicality, this you never grow tired of.
 The Wand Tonearm, musical magic!

**Best Design Awards
 Winner 2016**

Your Tonearm

Serial Number	Your arm was hand built for you by;	Date

Designed and hand-made in Aotearoa / New Zealand by design **build** listen Ltd.
 P.O.Box 5415, Dunedin 9058, New Zealand Ph / Fax; +64-3-4773817

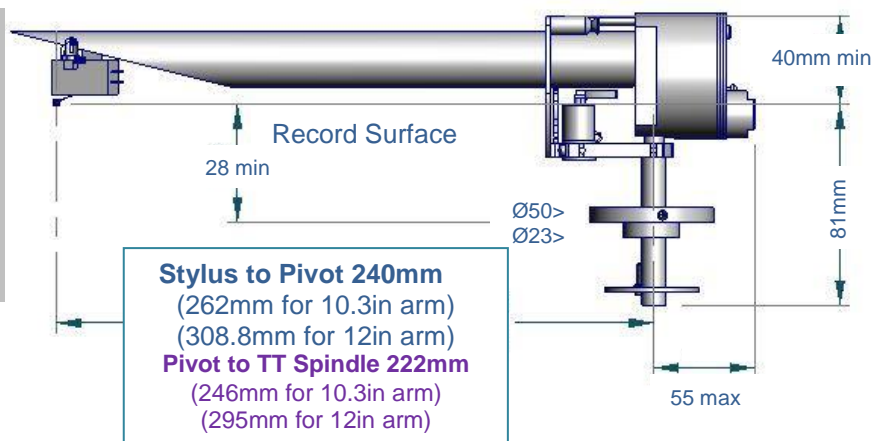
Features of The Wand Master Tonearm

- Big diameter (22mm) carbon-fibre tube is 4x stiffer than a normal diameter arm.
 - Ergonomic cueing via tip of arm or damped cueing mechanism.
 - Laser sintered titanium headshell and great termination of arm vibrations.
 - Defined contact bearing. Low friction while maintaining energy transmission.
 - Medium effective mass suits most cartridges. (13.5g for 9in, 15g for 10.3in, 16g for 12in)
 - Drop in replacement for Rega geometry arms (~240mm). *SME, Technics, Linn & Lenco mount options.*
 - Silver/Copper hybrid wire with captive female RCA/phono plugs
 - Thread / weight type antiskate.
 - Standard Baerwald alignment (*with consideration given to real world inner groove dimensions*).
 - Vibration shunt (damping trough)
-and it looks really cool! Winning Silver at the 2016 BEST Design Awards

The Wand dimensions & data; Check the arm will fit on your turntable before you start.

Data;

- Weight =0.75kg (0.8kg for 12in)
- Effective mass of arm = 13.5g (15g for 10.3in, 16g for 12in)
- Warranty; 2 years (*Note; shipping cost to us is the responsibility of the sender.*)



Check what we have sent you ;

Supplied	Picture	Sent	Check	Supplied	Picture	Sent	Check
Grease (In a tube)	Below	1		M5 screws (2 diff.)	C1	2	
Cartridge Screws	A2	2		M4 screw	G3	1	
Cartridge Spacer	A4	2		Ortofon Balance	D2	1	
Protractor	B1	1		Arm Lift Assembly	E1	1	
Spindle Assembly	B4	1		Anti-skate weight	E3	1	
Hex Keys	B4	3		Silicone Oil	E5	1	

Check what tools you need;

Tools you need (Not supplied)	Check
Drill; 6mm (or 1/4")	
Drill; 24-25mm (1")	
Small flat bladed screwdriver	
Pozi or Philips Screwdriver	
Long nose pliers or tweezers	

Maintenance; Re-grease the bearing tip occasionally with the grease supplied. (Touch tip in grease as shown >)

Problem Solving; If the arm is not performing well;

- Check the stylus is clean.
- Check the cartridge tracking weight.
- Check the wires are not pushing the arm sideways.

Notes;

- Don't ship the turntable with the arm on the spindle.
- Black and silver metal parts may be lightly oiled to keep them looking good. (Do in humid climates)
- With our continuous improvement program the parts shown here may be slightly different from yours.



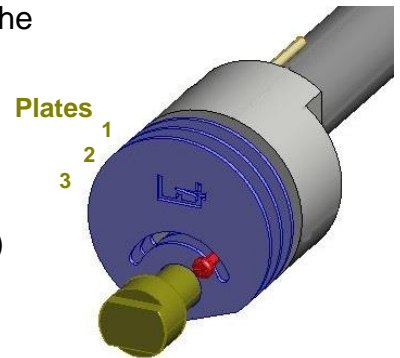
THE WAND
UNIPIVOT TONEARM

www.thewandtonearm.com
© Feb 2017 design build listen Ltd. v15

Fitting & Balancing the Cartridge

Step 1; Rough Balance

- Three plates are fitted to the arm as shipped. This is fine for the majority of cartridges.
- But if your cartridge is light (<6g) you will probably only need one plate.
- If your cartridge is heavy (>8.5g) it is likely you will need three or more plates.
- Extra plates can be ordered for really heavy cartridges (>11g)
- The smaller square edged plate can be used to give an intermediate step and on its own for light cartridges.



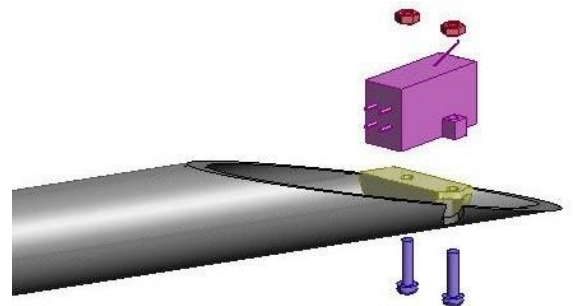
Step 2; Attaching the cartridge

Where possible use the supplied Aluminium M2.5 screws unless;

- Your cartridge has tapped holes (*use screws supplied with cartridge*).
- You need more mass. *Either for a very light weight cartridge or a very low compliance cartridge.*

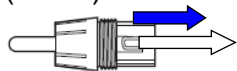
WARNING; Be careful, cartridges are easily damaged.

- Use your stylus guard.
- Screws should be done up firmly but not over-tightened.
- We cannot be liable for damage to the cartridge either in installation or use.

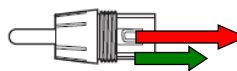


Step 3; Attach the Leads to the cartridge

Left (Black)

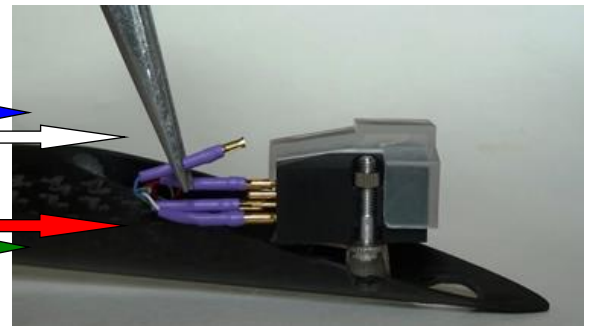


Blue=Left Ground
White=Left + / Hot



Red=Right + / Hot
Green=Right Ground

Right (Red)



Cartridge Spacer Option;

You have been provided with a small metal plate with two holes. This may be put between the cartridge and the arm in three circumstances;

- If the cartridge is too light to balance
- If the cartridge suits a heavier arm (This spacer adds 2g) *eg; Denon DL103*
- If the cartridge is short or touches the carbon fibre when installed.

A 5g weight is available as an option, just ask.

B

Drilling the Mounting Hole for The Wand Tonearm

Rega hole is ok(9in)

Step 1; Check rear & side clearance to the turntable lid

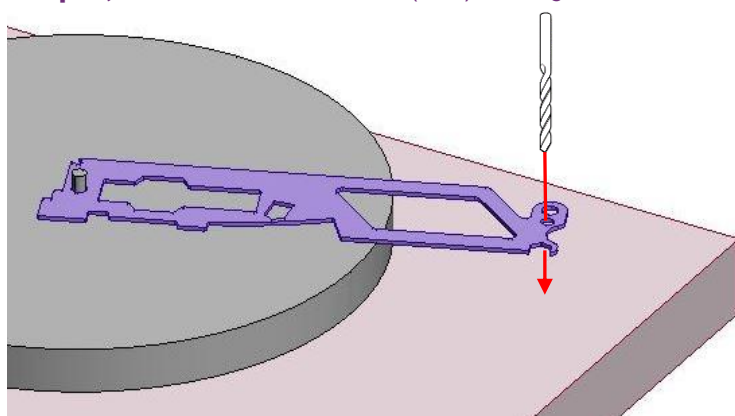
You need at least 50mm / 2" from the centre of the hole to the side or back of the lid

Note; The protractor you receive may be different from the below (as they are being updated).

Shown at right top to bottom; 9in / 12in

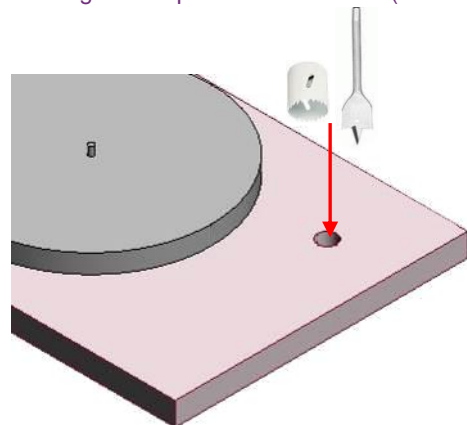


Step 2; Drill 6mm Pilot hole (1/4") Through the smaller hole.

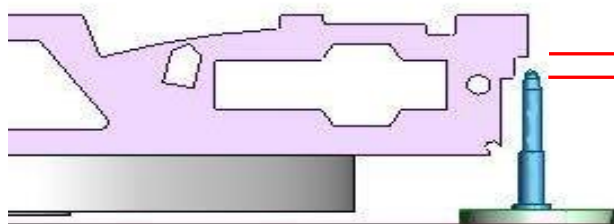


Step 3; Drill 23- 25mm hole (1") Use 6mm hole as guide for drill (from Step 2 above)

Existing holes up to 28mm are fine. (Contact us about holes 28mm to 48mm which can be made to work)



Step 4; Set arm height. Put the spindle in the round plate (The black lever unlocks clockwise but it will still be firm to fit) Sit the protractor on the playing surface. Adjust the height as below. Lock the spindle with the hex key in the side hole as below.



-Arm at +2 degrees

-Arm level (nominal)

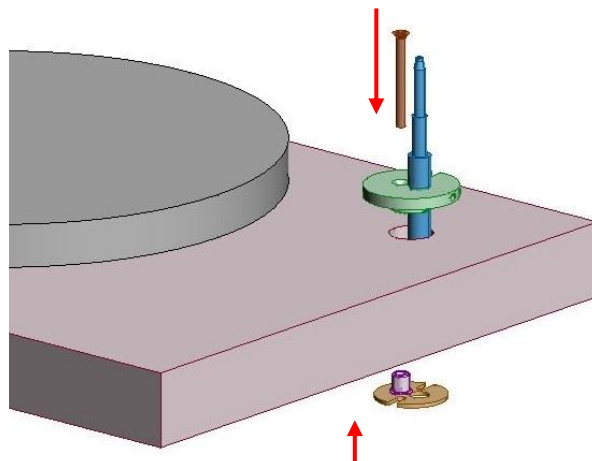
Note; We suggest starting with the arm level. Later adjust upwards by ear. 2 degrees up may be good. This exact height depends on many factors. (See; P29 "SRA, VTA & My Sonic Lab" by Michael Fremer **Stereophile** June 2010)

< Hex
Key
here

c Fitting The Wand Tonearm Mount

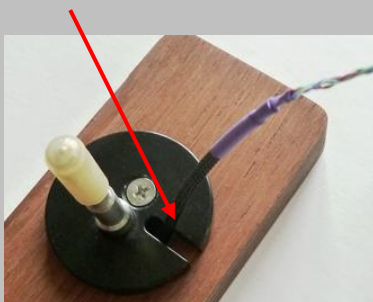
Step 1; Feed the bolt down to the boss on the clamping plate and do up loosely (but not tighten yet).

- Two screw lengths are provided for different plinth thickness.
- The lower clamping plate may go either way up.



Note; If you wish to pass the RCA / Phono plugs through the plinth you will need to feed them through the slot at this stage. See below

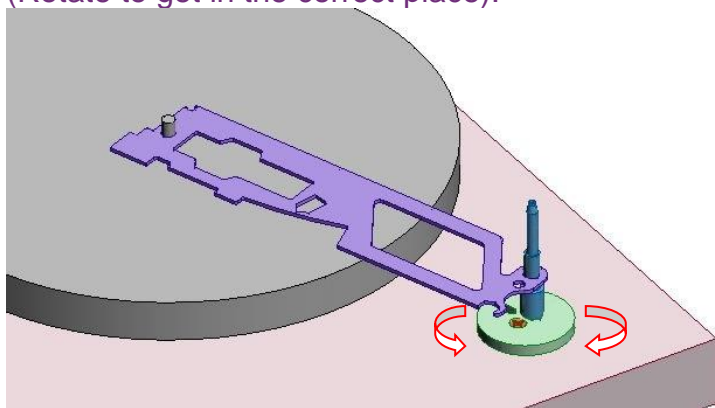
But we don't recommend doing this on initial installation as it is easier to lift the arm off for adjustment. Get it running first.



Step 2; Remove rubber transit cap.



Step 3; Position mount using protractor. (Rotate to get in the correct place).



Step 4; Tighten to clamp. Use supplied hex key



Hint; Cueing with The Wand Tonearm

We suggest using the side of your finger. Rather than trying to grip the tip.



Other Protractor systems;

If using another brand of protractor. The centre of the pivot is aligned with the shoulders of the main body.

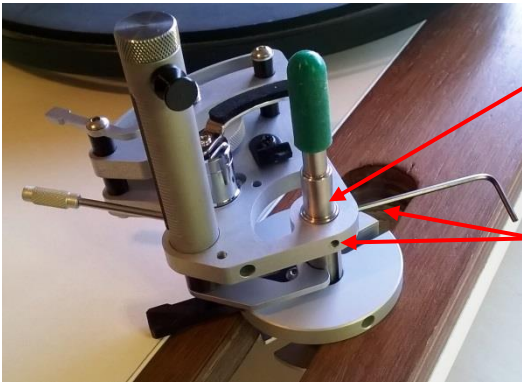
THE WAND
UNIPIVOT TONEARM

www.thewandtonearm.com
© Feb 2017 design build listen Ltd. v15

D

Fitting the Arm Wand & Setting Overhang

Step 1; Add Armrest

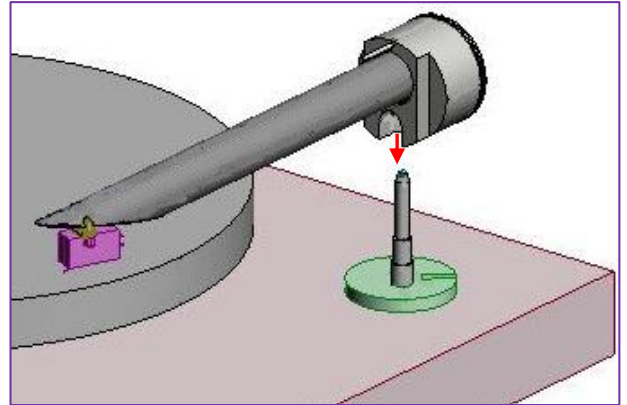


Align to level with the step in spindle.
Adjusting this slightly affects the rest height of the arm)

Lock with small hex key (Two screws)

Step 2; Place arm on Mounting IMPORTANT!

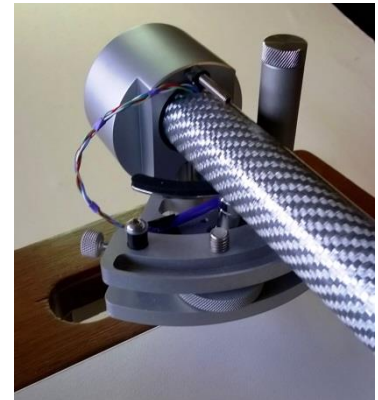
Make sure the turntable plinth is level at this point.
(armrest omitted for drawing clarity here)



Step 3; Guide cables.....

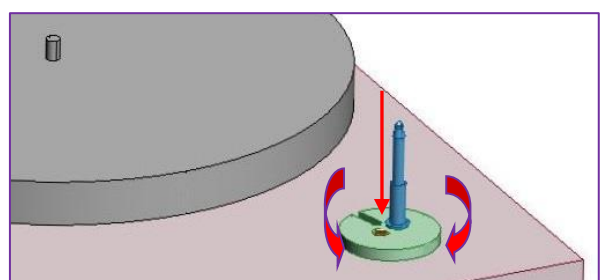
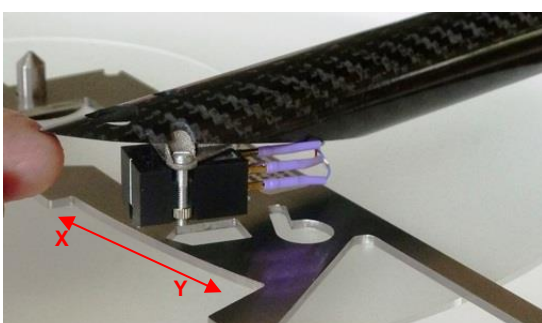
(See also Page G)

Feed the purple part of wire into the black P-Clip, Slide to thicker section, so it forms a loop.



Step 4; Overhang setup.

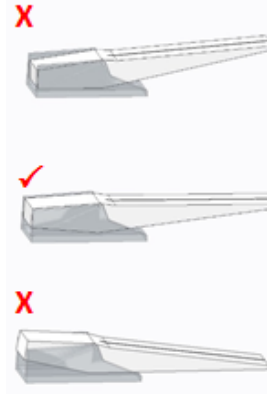
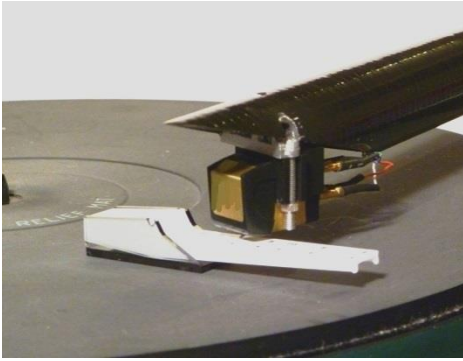
- A) Swing the protractor and arm round so the stylus is above the arc XY
NOTE; To avoid damage to the stylus, do not let it touch the protractor (hold slightly above)
 B) Swing above the arc X-Y. If it doesn't align at either end then
 C) Loosen the screw (below right) and rotate until it aligns through the whole arc.



E Vertical Balance & Sideways Balance (VTA & Azimuth)

Step 1; Vertical Balance (Tracking weight, as recommended by your cartridge maker.)

Use supplied balance scale (15mN = 1.5g etc)..... and rotate the rear bolt to set fine balance.



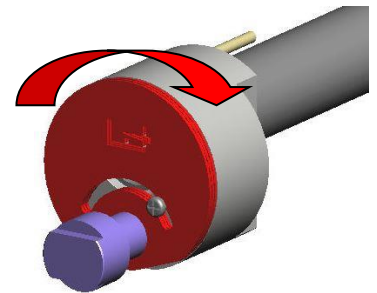
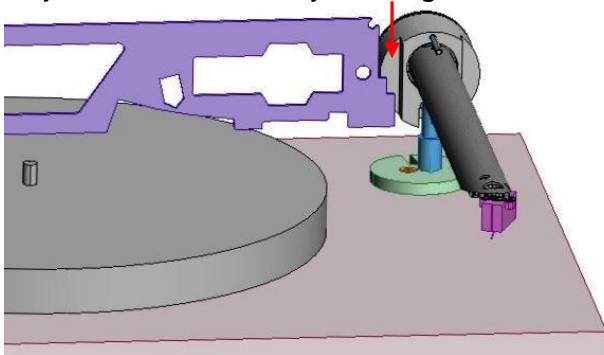
Too light; Wind bolt in or take off a plate if the bolt is right in (see section A1). Lift the arm off the scale when doing this.

Correct; Back part is level

Too heavy; Wind bolt out or put on a plate if the bolt is right out (see section A1). Lift the arm off the scale when doing this.

Step 3; Side Balance (Azimuth); Aim; To have the stylus standing vertical in the groove (Viewed from the front). Use protractor as below.

Adjust side balance by moving the rear balance plate as below (Shown as red)

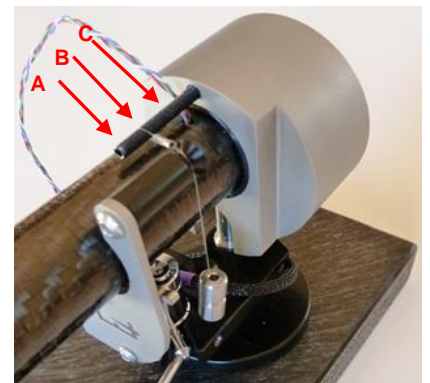


We also recommend: 'Fozgometer' or 'Adjust Plus' tools

Step 3; Add antiskate force; (Approximate only, refine by ear or test record as desired.)

Hint; To stop the loop slipping towards the body you can slide the rubber plug along the rod.

Tracking Weight / g	Position A-C (below)
< 1.0g	No Weight
1.0-1.6	C
1.6-2.2g	B
>2.2 g	A



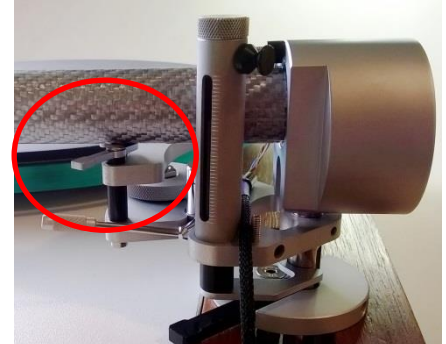
Step 4; Plug into amplifier.

Red into Right, Black to Left & green wire to green earth post (If no earth post, try attaching to amplifier chassis)

Our wiring is low capacitance so some cartridges maybe better with more.

Enjoy!

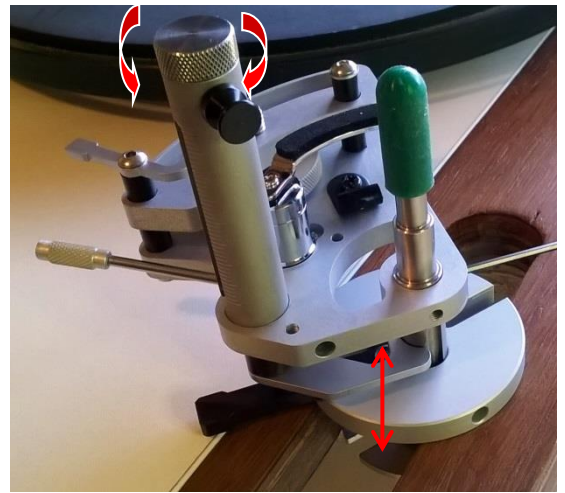
Arm Catch: The arm may be latched when parked, as below. (Left unlatched, Right latched)



F VTA (Vertical Tracking Angle) Adjustment

It is assumed you have got the spindle at roughly the right height (see Page B Step 4)

Twist the knurled dial anticlockwise to wind the 'fork' down till it touches the mounting plate.

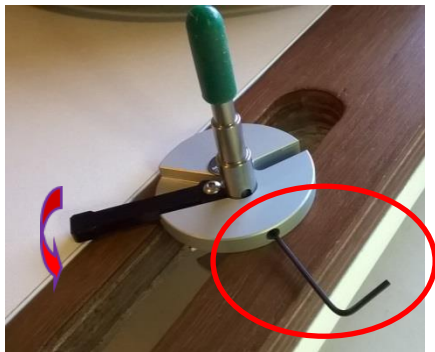


Step 2; The main spindle has two separate locking mechanisms

- Hex key

- Black Friction lock lever (Unlocks clockwise)

Release them both



Step3; Twist the knurled dial to adjust VTA Lock. Use the friction lock if you frequently adjust VTA or the Hex key (more rigid) if you are happy with one setting.

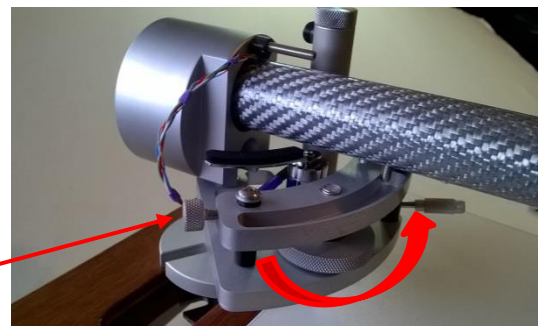
Using the Vibration Shunt; Your Wand Master Series has been provided with a Vibration Shunt. While this may also be seen as an 'arm damper' the thought behind this naming is that this is designed to 'shunt' vibrations from the arm using a silicone oil trough. Using this system and taste dependent, it may be easily raised and lowered.

Step 1; Fill Start using the lower viscosity (smaller number), fill to 2/3 the depth of the trough.



Step 2; Engaging the Vibration Shunt. With the arm in place, raise the trough by turning the knurled dial clockwise. Raise it till the threaded rod on the underside of the arm is just in the silicone. Listen!

To disengage, just wind the trough down. Once you have found a position you like, the trough may be locked in place using the lock nut on the inside end.



If you want to change oil (or remove it) use a cotton bud and paper towel.

THE WAND®
UNIPIVOT TONEARM

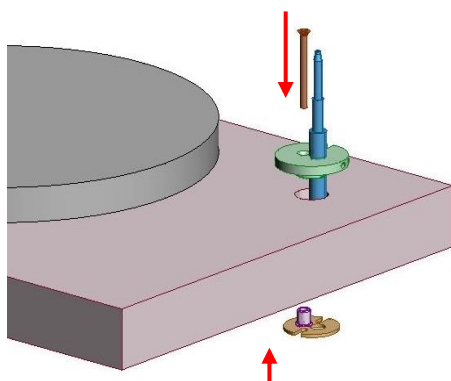
www.thewandtonearm.com
© Feb 2017 design build listen Ltd. v15

G Mounting the Plugs on the bottom of the spindle (Optional)

Step 1; Disassemble the Plug Clamp



Step 2; Feed the plugs through the mounting hole Then fit the top / bottom mounts, feeding wires through the slots. Add bolt and do up.



Step 3; Use the supplied 4mm Bolt to secure the plugs to the shaft.



