

# ROKSAN



**User manual**

# ARTEMIS

**ANALOGUE**

Congratulations on your purchase of the ROKSAN Artemiz Precision Pick-up Arm. This tone arm is designed and manufactured to the highest specification and rigorously tested to offer you many years of trouble-free pleasure.

Your Artemiz Pick-up Arm is the support behind your phono cartridge. It is also the link between the cartridge and the turntable and thus the record. Its correct installation, set-up and operation will have a profound influence on the sonic performance of the entire record playing system.

Please read the contents of this manual thoroughly. It will help you to understand your Artemiz better and enhance your musical experience.

This manual is divided into the following sections:

- Introduction
- Caution
- Installation
- Operation
- Troubleshooting
- Guarantee
- Specifications
- Notes

## **UNPACKING**

Included in the packing of your Artemiz Pick-up Arm you will find:

- One Roksan High Definition Tone arm Cable HDC-02T
- One Intelligent Counterweight with No. 2 weight block
- One Tone arm Fixing Clamp & Washer
- One VTA Thumb Nut
- One Arm Clip & fixing screw
- One Stylus Balance
- One Finger Lift
- Set of Allen Keys (1.27, 1.5, 2.0 & 2.5mm A/F)
- Set of Non-magnetic stainless steel SHC cartridge nuts and bolts (10mm & 16mm long)
- One information pack, Artemiz Alignment protractor and warranty card

After removing these items please retain **all** packing materials. Correct packing is necessary for future transportation of your Artemiz Tone arm.

## **MAINTENANCE**

After switching the amplifier off and placing the stylus guard on, the tone arm may be cleaned with a lightly dampened soft cloth or soft brush.

**Avoid using abrasives or solvents.**

**\*\*\* Take care not to damage the cartridge stylus, anti-skate spring/thread or the tone arm bearings.**

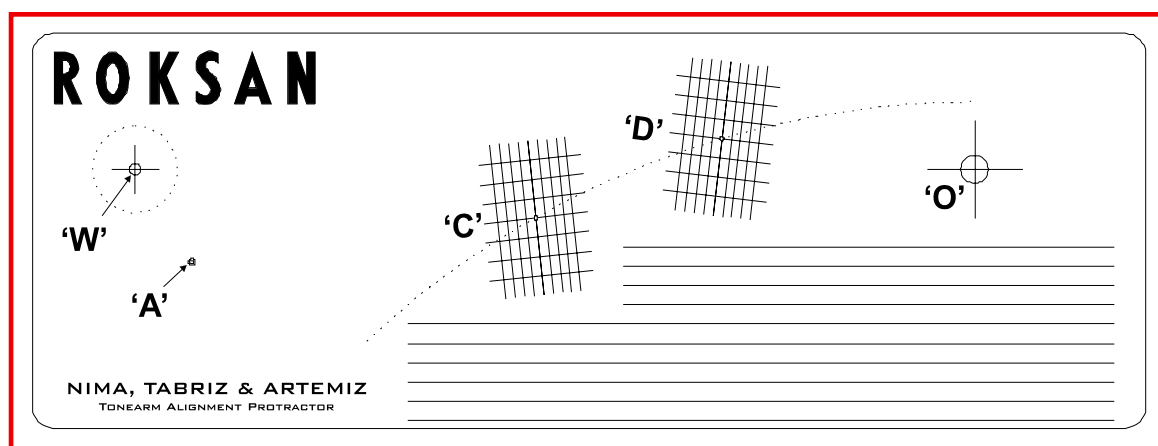
The Artemiz Precision Pick-up Arm incorporates several unique design features and manufacturing techniques. It is important to observe the following to avoid any damage and to ensure optimum performance.

**IMPORTANT**

**DO NOT** attempt to adjust the 'static' free play of the Artemiz Pyramid Bearing Assembly  
**Careful not to exert undue force on the bearings (e.g. tightening cartridge fixing bolts while the tone arm is mounted to the record player)**  
**Careful not to bend or damage the anti skating spring assembly**  
**DO NOT** lower the Pick-up Arm/cartridge without the intelligent counter weight fitted and the tracking force approximately set

**INSTALLATION**

The Artemiz Pick-up Arm is a precision measuring device. It is constructed from solid aluminium alloys and whilst robust, should be handled with care. Although simple to fit and use, the Artemiz has several unique features not found on other Pick-up Arm, and these features need to be correctly understood in order to obtain the best results.

**ARTEMIZ ALIGNMENT PROTRACTOR**

**IMPORTANT:** The Unique unipivoted 'intelligent' counterweight should always be fitted to the arm whenever lowering the stylus onto the record. Failure to do so could permanently damage your cartridge and your records.

**To fit the Artemiz on a turntable with blank or un-drilled arm board.**

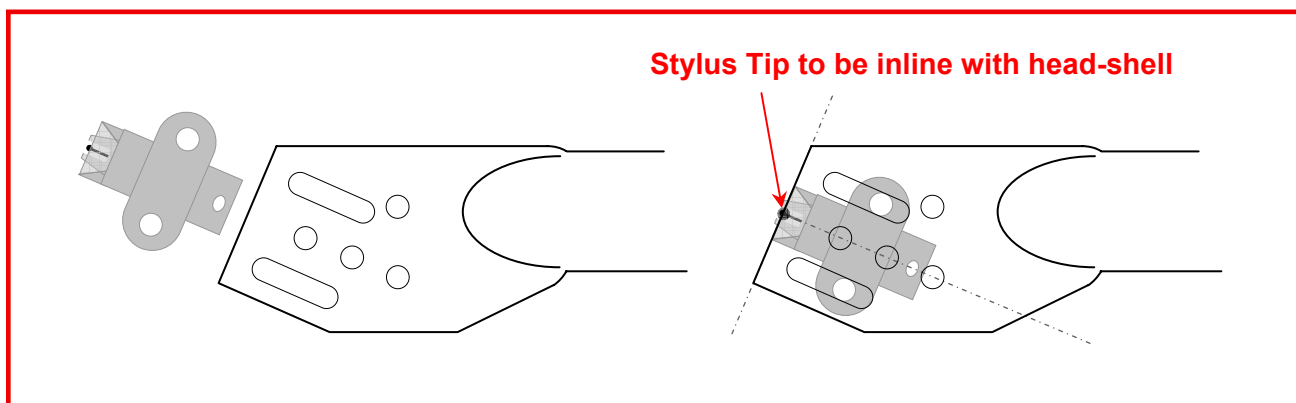
The Artemiz requires a circular cut-out 22-23mm in diameter and its location relative to the centre spindle is found as follows:

- 1) Locate the 'O' on the protractor over the centre spindle of the turntable platter.

- 2) Select a convenient location for the arm fixing hole and mark a point on the arm board directly below the point marked 'W' on the protractor using a sharp point. It may be helpful if you pierce this point on the protractor first.
- 3) Use a small suitable drill, approximately 3mm in diameter, to drill a pilot hole in the arm board first. Do not attempt to drill the full size hole in one go as you could damage the arm board.
- 4) Use a M22 (22mm diameter) circular-hole saw or a suitable cutter to drill/cut the arm-mounting hole.
- 5) Clean away any rough edges left by the hole saw before fitting the arm.
- 6) At this point it is advisable to fit the cartridge to the Artemiz. Carefully remove the arm from its packing by holding the Main Yoke taking care not to damage the anti-skate spring and thread. Using the high quality stainless steel M2.5 socket cap screws and nuts supplied, mount the cartridge to the head-shell but do not fully tighten the screws just yet. Take care to connect the cartridge tags correctly in accordance with the cartridge manufacturer's instructions. Be especially careful with the internal wiring of the Pick-up Arm when connecting to the cartridge pins or fly leads.

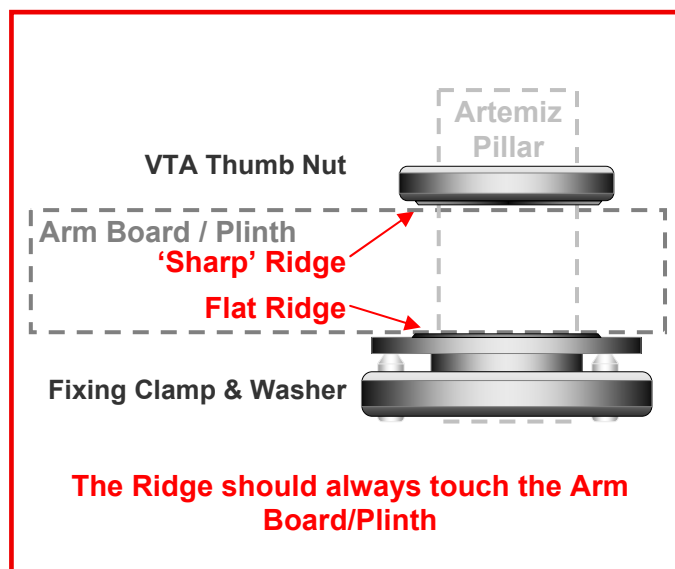
**It is important not to pull the tags off the cartridge pins.**

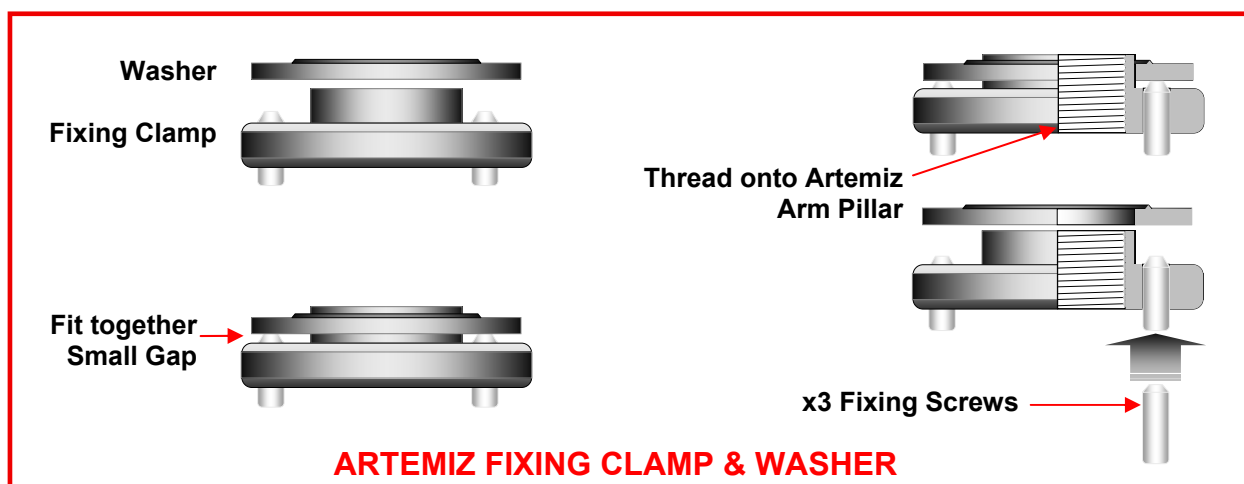
The stylus tip should be set directly below the front edge of the head-shell and the body of the cartridge should be aligned parallel with the side edge or the central row of holes. This way the alignment and the overhang should be almost perfect and ready just to be checked using the protractor.



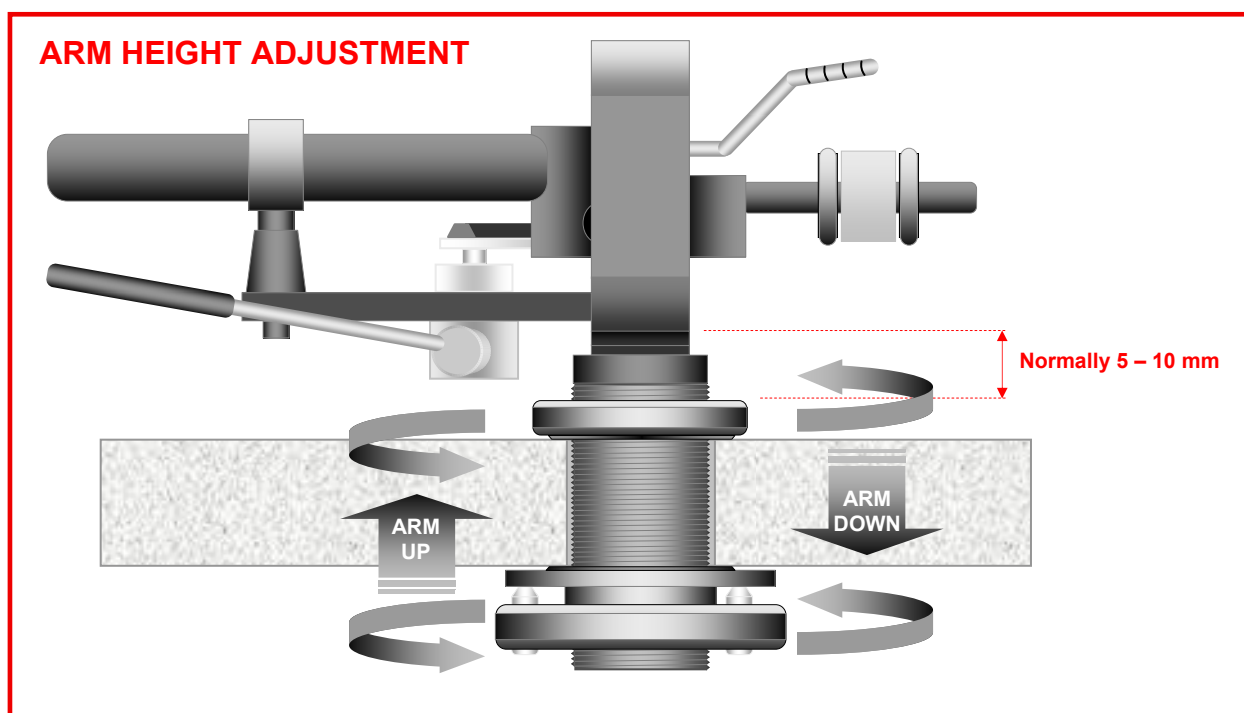
When mounting the Artemiz, the arm board/plinth is sandwiched between the VTA thumb Nut on the top and the Fixing Clamp & Washer underneath. It is important that the circular Ridges on the Thumb Nut and the Washer face the arm board.

- 7) Remove the VTA Thumb Nut from the packing and fit to the Artemiz Arm Pillar as shown below.





- 8) Place the Arm Pillar into the cut-out and adjust the VTA thumb Nut and roughly set the height of the arm.
- 9) Screw the Fixing Clamp & Washer, from beneath the arm board, onto the Arm Pillar until finger tight.  
*Note the circular ridges face the arm board*

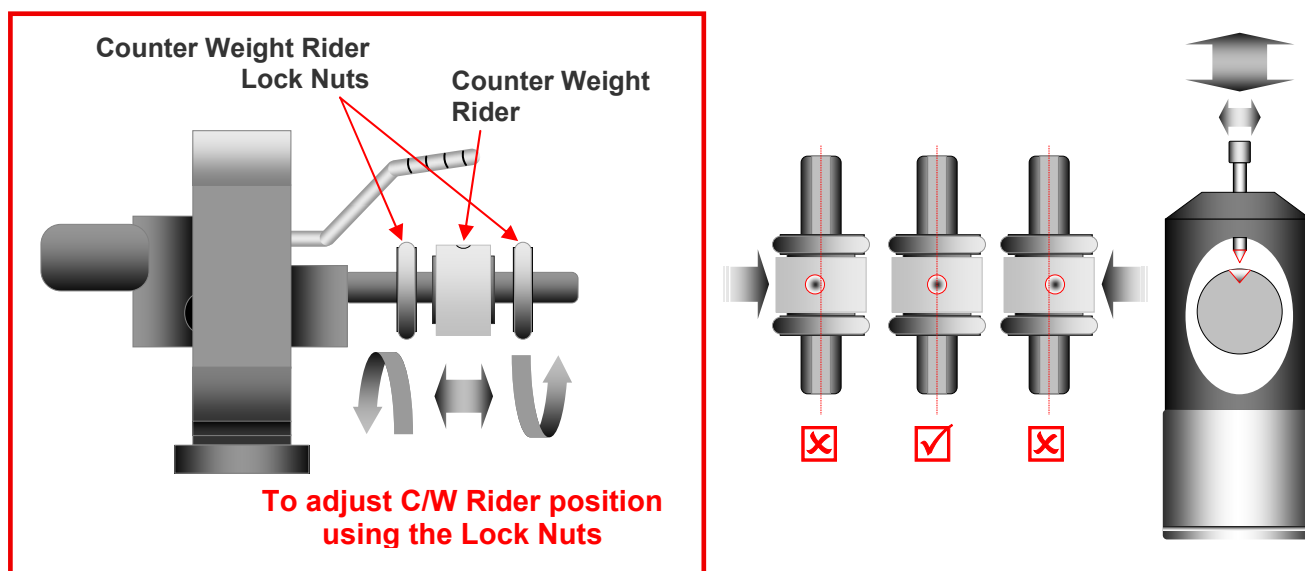


### **NOTE**

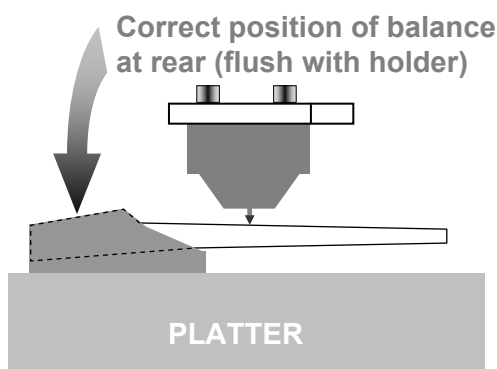
Final VTA adjustment would be done after setting the tracking force and checking cartridge Alignment

10) Initially, roughly set the tracking force by fitting the main counterweight assembly with the spike positioned into the concave recess on the counterweight rider. Before placing the counter weight onto the rider, ensure the spike recess is in the 'middle' at the top (*See below*).

\*\*\* To increase the tracking force rotate the Lock Nut closest to the bearing assembly, clockwise from the rear, slide the counterweight rider and assembly along the stem and rotate the other Lock Nut clockwise to take up the slack. To decrease the tracking force, reverse this process. When the desired tracking force is achieved tighten both black Lock Nuts finger tight.



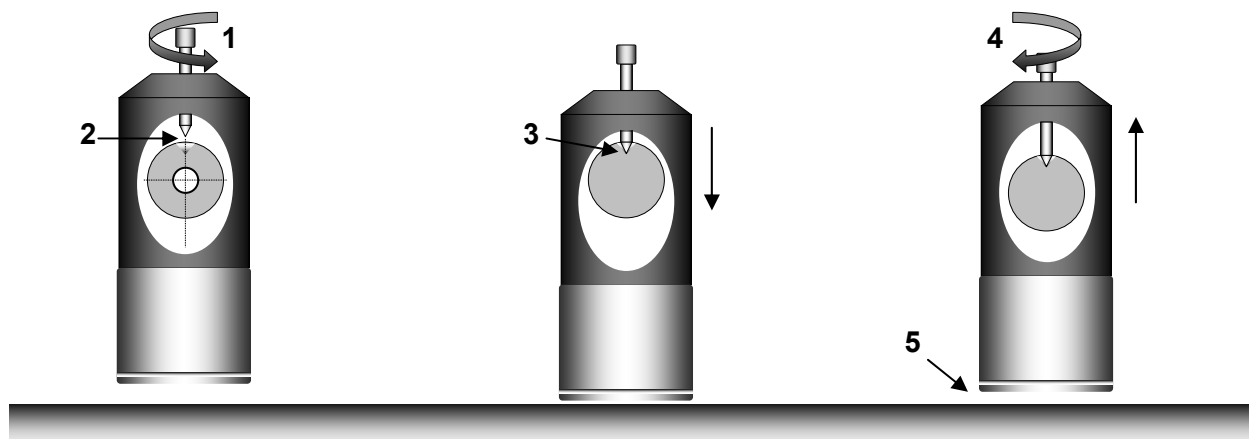
**Note:** The 'Intelligent' counterweight decreases tracking force as the arm rides up a warp and increases the force as it descends, thus the tracking force can only be set with the gauge at record surface height. THIS IS VERY IMPORTANT. (Remove the turntable mat and place the gauge on the outer platter to achieve the correct height; see below)



**DO NOT rest the stylus for too long on the stylus balance with excessive tracking force**


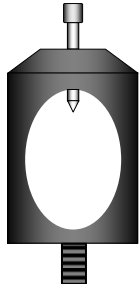



Place the stylus balance on the platter and remove the stylus guard and check the tracking force by gently lowering the stylus in the groove over the desired tracking force marker (Note: **10mN = 1.0g**).

To change the tracking weight, lift the stylus away and clear of the balance and gently adjust the counterweight as described above to achieve the desired tracking force. (**Always set the tracking force according to cartridge manufacturer's specification**)



- 1 UNDO PIVOT SCREW TO ALLOW THE INTELLIGENT COUNTER WEIGHT TO FIT OVER THE C/W RIDER
- 2 ENSURE THE RECESS ON THE RIDER IS IN THE MIDDLE OF THE C/W PEG AND LINE UP THE SPIKE END WITH THE RECESS ON THE RIDER
- 3 PLACE THE SPIKE END INTO THE RECESS
- 4 SCREW THE PIVOT IN AND OBSERVE THE CLEARANCE UNDER THE C/W FROM THE TURNTABLE TOP
- 5 ENSURE THERE IS SUFFICIENT CLEARANCE DURING CUEING OF THE TONE ARM WITH THE COUNTER WEIGHT ASSEMBLY ABLE TO PIVOT AND MOVE FREELY

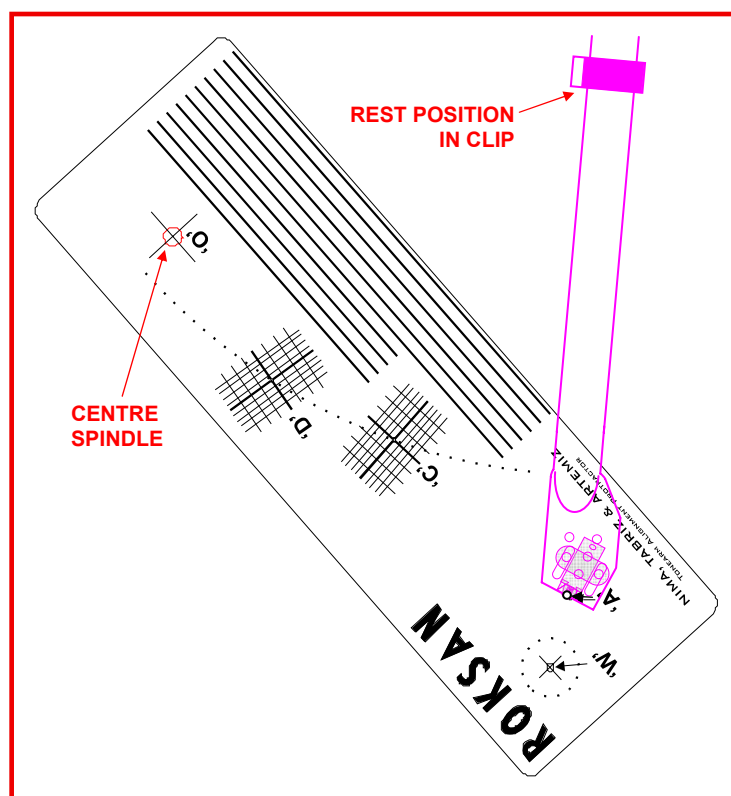
The Artemiz is supplied with the No.2 Counter Weight Block as standard which accommodates most cartridges. For special requirements, there are other Blocks available. See below

	<b>No. 1</b> <b>80g</b>	<b>Standard</b>		<b>Counter Weight Frame</b>
	<b>No. 2</b> <b>90g</b>	<b>Heavy (ARTEMIZ)</b>		
	<b>No. 3</b> <b>80g</b>	<b>Restricted Height</b>		
	<b>No. 4</b> <b>10g</b>	<b>To Add To No. 3</b>		
			+ No. 1 Counter Weight	_____80g
			+ No. 2 Counter Weight	_____90g
			+ No. 3 Counter Weight	_____80g
			+ No. 3 + No. 4 C/W	_____90g
			+ No. 3 + No. 4 + No. 4	_____100g <b>etc.</b>

- 11) Place the protractor, with the hole marked 'O', over the Centre spindle of the turntable platter.
- 12) Rotate the protractor and adjust the ARTEMIZ (with the arm in its rest position in the arm clip) until the Cartridge Stylus is over the point marked 'A'. See *below*:

The alignment of the arm in its rest position is important otherwise the anti-skate system may not operate correctly.

When the Artemiz is correctly positioned, it would be at a slight angle to the side of the record player.



Tighten the fixing clamp & washer from the underside of the arm board to ensure the arm would not rotate when the arm is unclipped and re-clipped during cartridge alignment.

**Note:** When positioning and tightening the fixing clamp & washer, hold only the main yoke of the arm where the vertical pillar is attached. **Do not** hold the lift/lower platform or the arm tube. (This will avoid any damage to the bearings etc.)



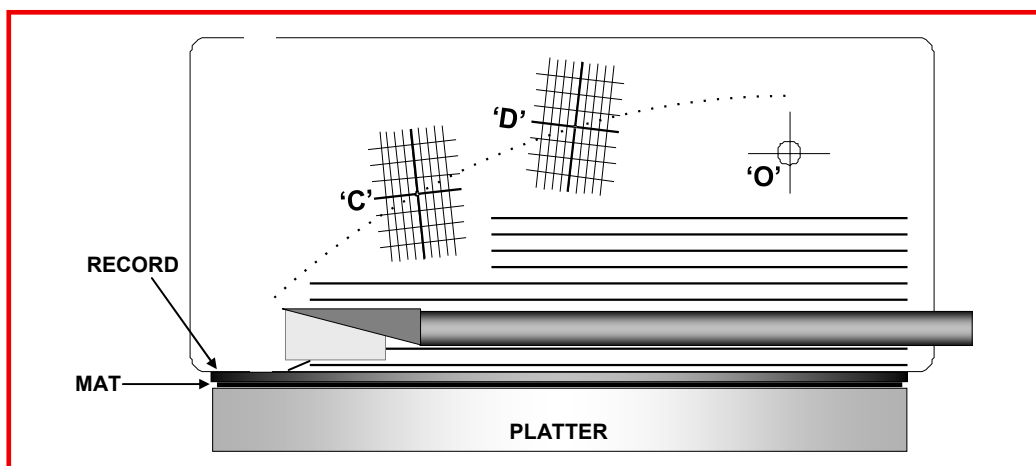
With the arm correctly positioned the cartridge can now be aligned. Make sure that the counterweight is in position to prevent damage to the cartridge.

- 13) With the counterweight fitted, the alignment of the cartridge should now be checked on points 'C' AND 'D' on the protractor. Move the cartridge along the slots in the head-shell if necessary, forwards and back until the cartridge body aligns perfectly with the lines on the protractor. Move the arm towards the centre-spindle and the stylus should follow the dotted line (This ensures the correct over-hang).
- 14) Now tighten the cartridge bolts finger tight to prevent the cartridge from moving.

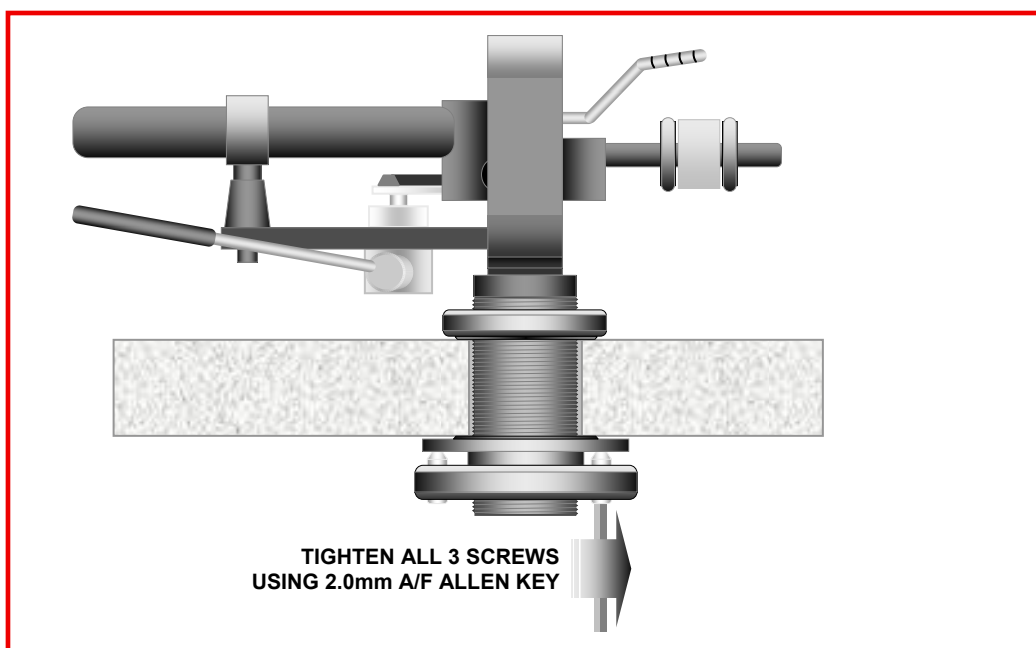


- 15) When you have achieved perfect alignment the cartridge bolts can be finally tightened. The bolts can only be tightened while the arm is on the record player as long as you **do not** exert excessive force which could cause damage to the arm and its bearings. You can hold the arm tube and gently tighten the bolts with the Allen key provided. If in any doubt, the arm (or arm board and arm) should be removed to tighten the cartridge bolts. **Do not** over tighten the bolts as you can damage the head-shell and cartridge body.
- 16) If the arm was removed for tightening the cartridge bolts, it should now be returned to its position and the alignment of point 'A' and the over-hang rechecked.

- 17) Place a record on the turntable platter with the mat in place. Use the parallel lines marked on the protractor to ensure the arm is parallel to the record surface. Adjust the VTA thumb Nut and the Fixing Clamp & Washer to achieve the correct VTA.
- 18) Once the correct VTA is achieved, the fixing clamp & washer could screws can be fully tightened.  
**Important:** Please note the arm alignment in its rest position against point 'A'.



**Note:** For super fine line stylus profiles, such as the Roksan Shiraz, the arm should be parallel or just very slightly raised at the back for optimum results.

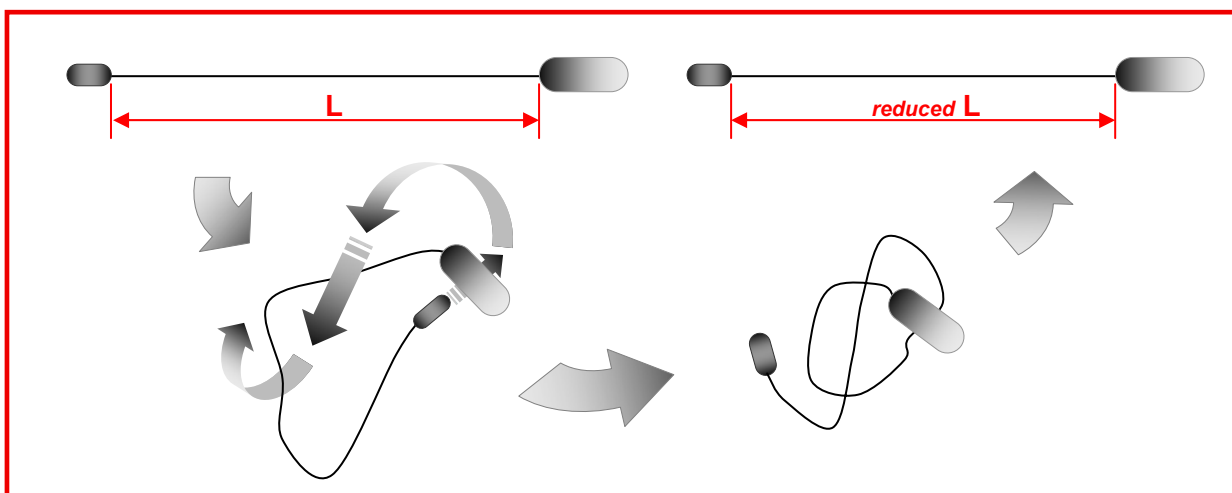
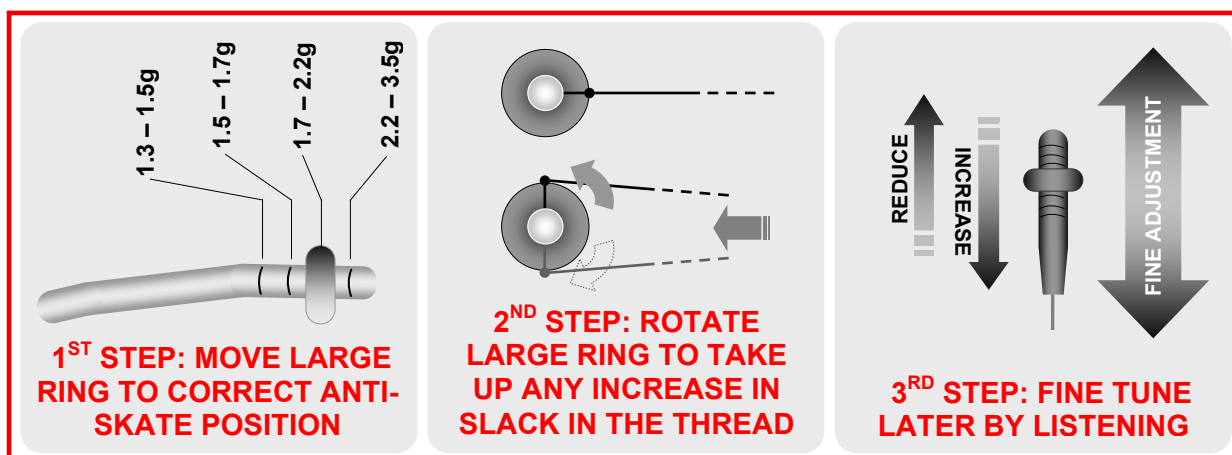


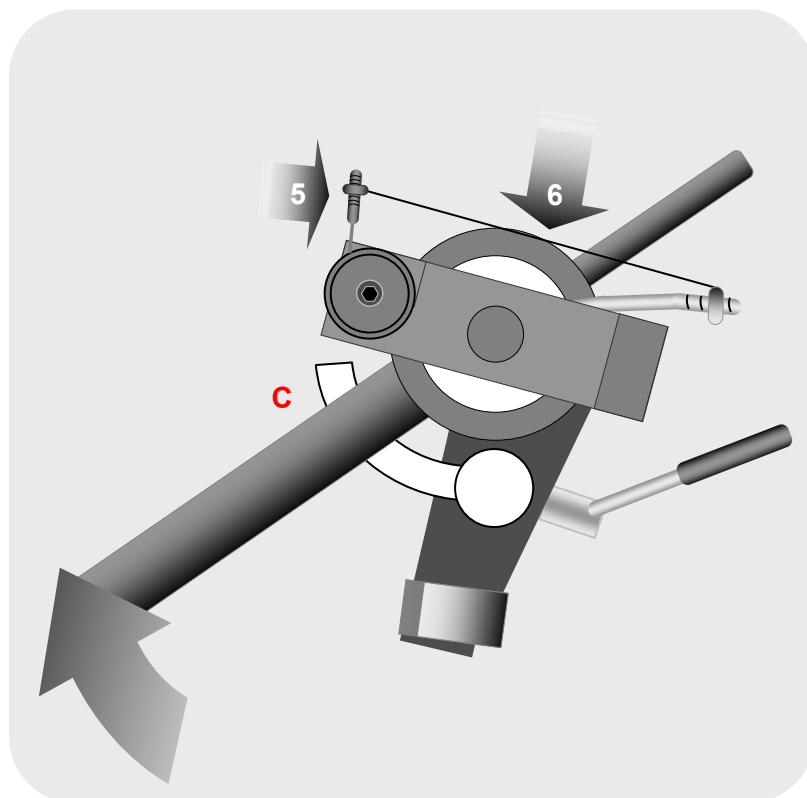
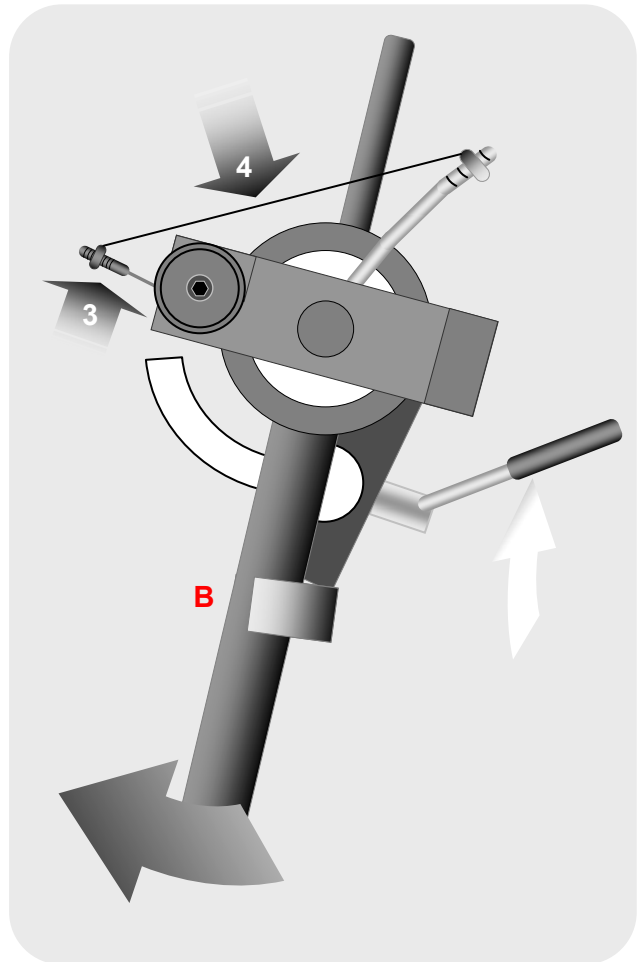
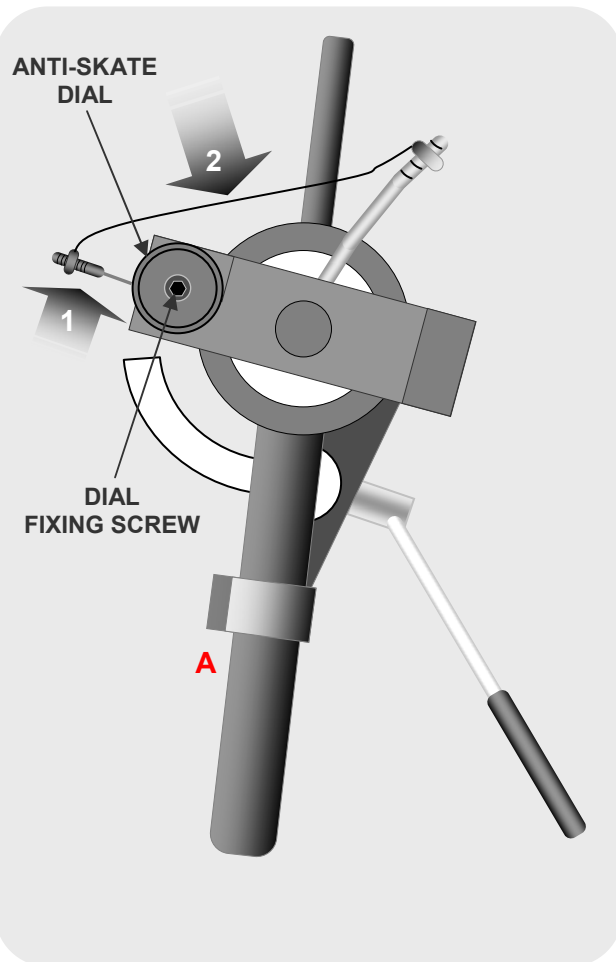
- 19) Check the tracking force (*at record level; see above*) and if necessary re-set to that recommended by the cartridge manufacturer.

(e.g. Tracking force for the Shiraz is 2.3 – 2.4 grammes)

### Anti-skating adjustment with reference to diagrams below

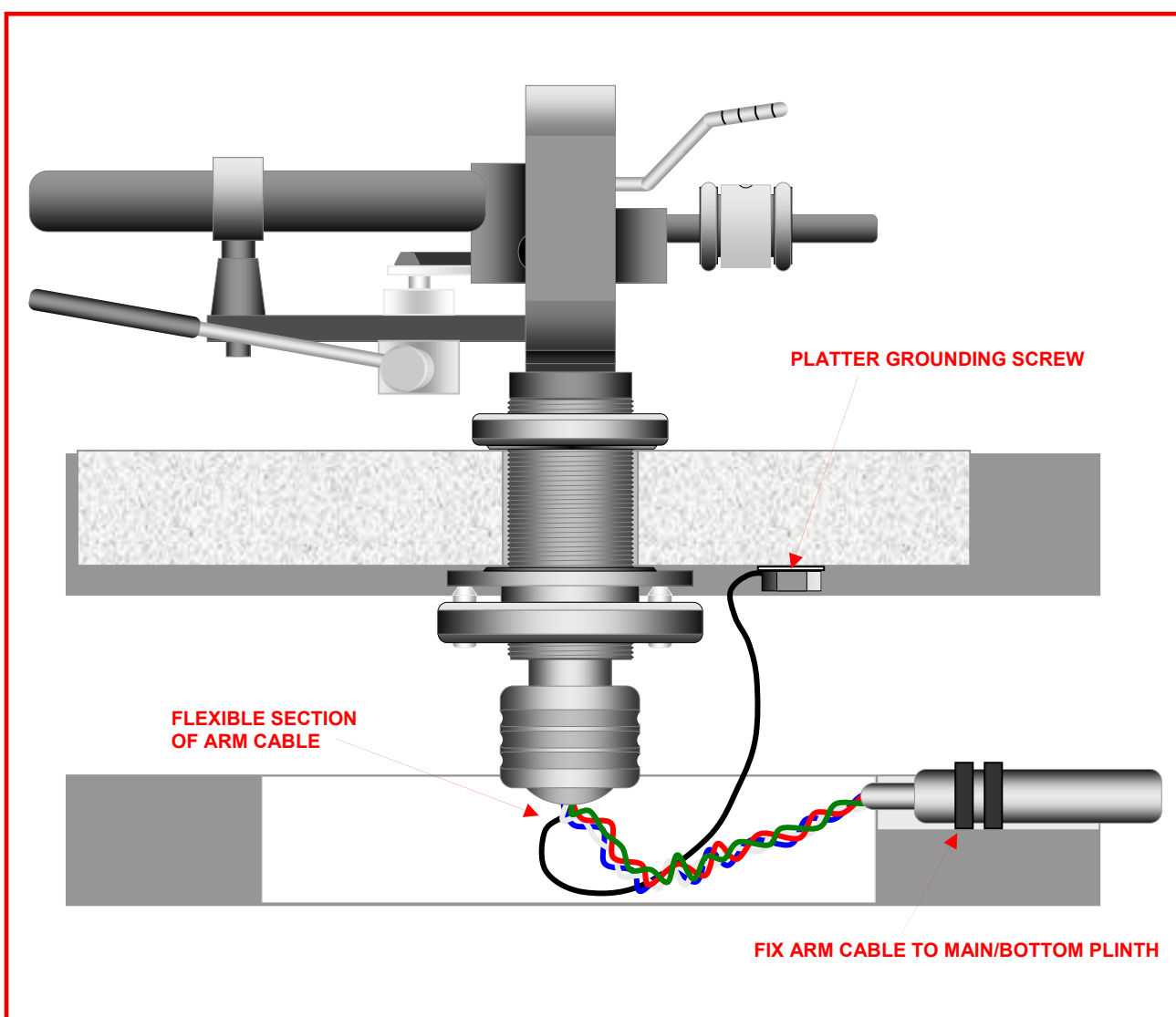
- 20) Gently slide the Anti-skate thread rubber ring to the correct notch on the peg (e.g. 2.2 – 3.5g) and leave the other rubber ring in the middle of the fine adjustment bar on the spring. *See below*
- 21) With the arm in its rest position in the clip (A) the anti-skate spring should be approximately perpendicular to the side of the arm (1) and the thread should be just slack (2). *See below*
- 22) Using the 1.5mm Allen key to lock and unlock the anti-skate dial, you can rotate the dial by a small amount, if necessary, to ensure the spring arm is correctly positioned (1) when the arm is in its clip (A).  
**\*\*\* Please note that this dial should not be rotated too much otherwise the spring may get damaged. \*\*\***
- 23) With the lift/lower device in the up position, move the arm so that it is just out of the clip (B). At this point the spring arm should be just moving (3) and the Anti-skate thread should become just taut (4). *See below*
- 24) Move the arm to the end of the record (C) and check that the spring arm is almost perpendicular to the back of the arm (5) and the thread is almost parallel to it (6). *See below*
- 25) To reduce or increase the anti-skating by small amount (Fine Tune) carefully and gently move the small rubber ring up or down the spring notched bar. If this slightly increases the slack in the thread; rotate the large ring to take up any increase in the slack. *See below*
- 26) If the thread length is too long, remove the rubber rings from the rod and the bar and put the small ring through the larger ring and then through the thread loop to make a knot around the larger ring and thus reduce the length of the thread. Re-fit the rings to the Anti-skate spring bar and rod and readjust. *See below*

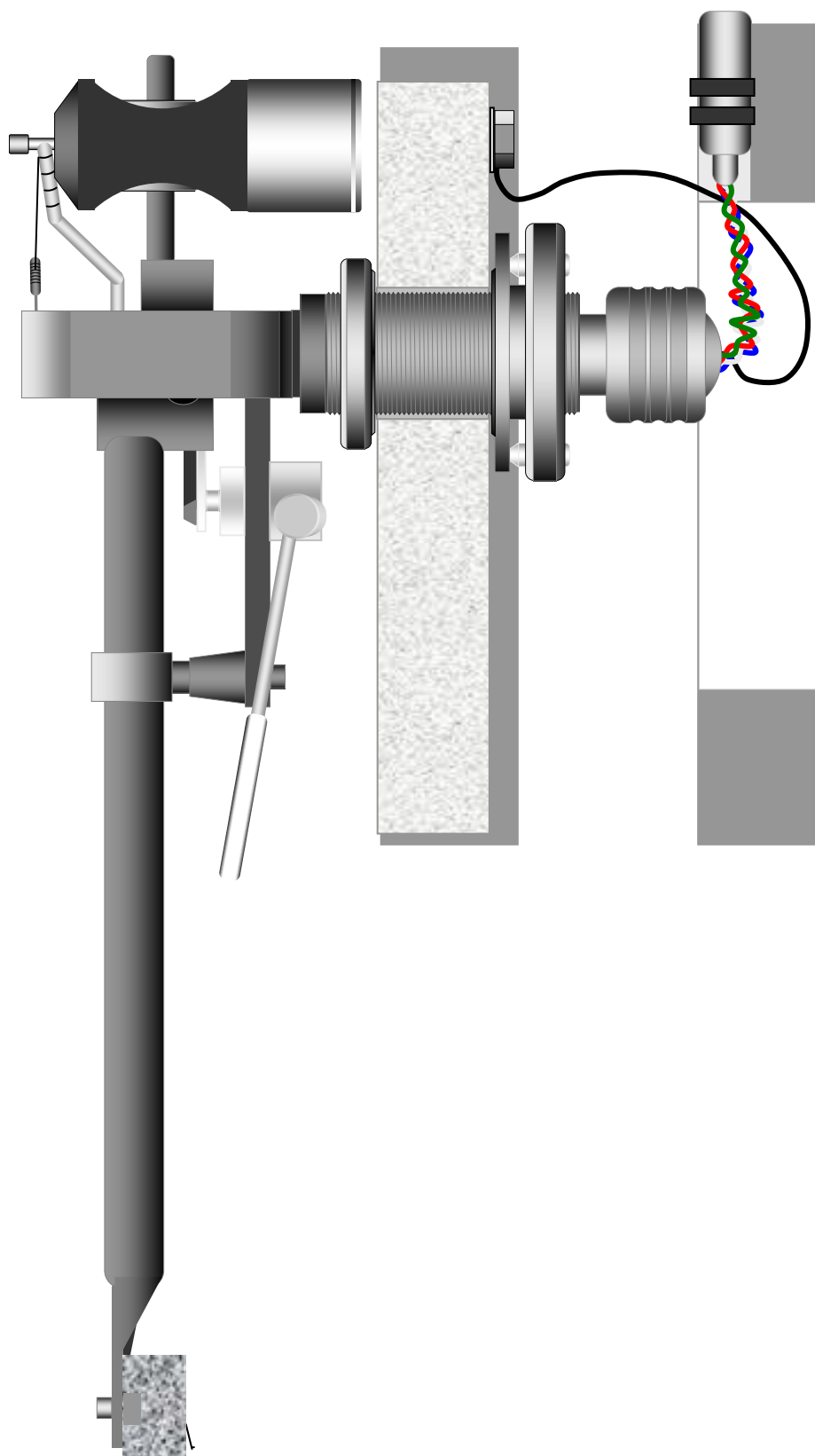




## Arm Cable

- 27) Plug the Roksan High Definition Tone Arm Cable into the base of the arm, taking care to correctly locate the keyway of the plug and socket. The short earth lead (ground) should be attached to the Platter Grounding Screw on the underside of the TMS/Xerxes.10/Xerxes.20 sub-plinth (If the turntable you are using does not have such a grounding point, loop the earth lead around the connector and out of the way). The arm cable should then be dressed in accordance with the turntable manufacturer's instructions.





Your Artemiz Tone Arm is now setup and ready for use. Plug the Arm Cable RCA Phono connectors to a suitable Phono amplifier or Phono input on your amplifier. Attach the Ground lead connector to the amplifier's phono ground screw. Turn the volume down and switch the amplifier on. Gently increase the volume and check that the record player is functioning correctly and that you can hear the music by playing a record. Lift the arm off the record and turn the volume up to see if there is any unwanted/excessive hum (Note: The phono input will always have slightly more noise/hum due to much greater gain/amplification)

**TROUBLESHOOTING****ARTEMIZ** Tone arm

If you suspect that your ROKSAN Artemiz Tone Arm is not operating properly, first check all the connections carefully. Below are some likely encountered problems with suggestions for possible cure. The list is not exhaustive: If you have any unresolved problems, please consult your appointed ROKSAN dealer or distributor.

SYMPTOM	LIKELY CAUSE	SUGGESTED REMEDY
No sound	Arm cable not inserted properly into amplifier Din connector not inserted fully into the tonearm	Ensure the RCA plugs are fully inserted Ensure the Din connector is fully inserted
No output on one or more channels	Cartridge leads not correctly connected Arm cable not correctly connected	Check cartridge tags and leads and ensure correct connection Check arm cable and ensure correct connection
Hum from speakers	Incorrect Grounding or bad connection	Check grounding lead and all connections

**GUARANTEE****ARTEMIZ** Tone arm

There are no user-serviceable parts on your Artemiz Tone Arm. If a fault should develop, refer any servicing to your appointed ROKSAN dealer, distributor or approved service agent.

Your ROKSAN Artemiz Tone Arm is guaranteed against any defect in materials and workmanship for a period of **two years** from the date of purchase.

This guarantee only becomes effective if the warranty card is validated by the ROKSAN retailer from whom the equipment was purchased and returned to ROKSAN within **28 days** of purchase.

This guarantee excludes:

1. Damage caused due to accident, misuse, neglect and incorrect installation, adjustment or repair.
2. Liability for damage or loss during transit from the retailer or purchaser to ROKSAN or its authorised distributor for the purposes of repair or inspection.

Carriage costs to ROKSAN shall be borne by the consignor.

All claims under this guarantee must be made through an authorised ROKSAN retailer.

If equipment returned for repair to ROKSAN is found on inspection to comply with the product specification ROKSAN reserves the right to make a charge for examination and return carriage.

*Unauthorised servicing will void this guarantee.*

Effective Length: 240.00mm

Overhang: 17.50mm

Head-shell offset angle: 22.9 degree

Mounting hole diameter: 22.00mm

Arm board thickness: 4.50mm – 26.00mm

Recommended arm board material: Acetal or MDF

Recommended cartridge weights: 5-10 g (with standard counterweight)

Recommended cartridge tracking force: 1.3-3.5 g

VTA adjustment: Yes; via Arm Pillar mounting adjustment

Effective Mass: 9 g

Head-shell/Arm tube: One Piece Aluminium Alloy

Arm tube fixing: Titanium coupling ring/stainless retaining screw

Bearing Assembly: Unique 'Pyramidal' Roksan design silent running  
x12 Tungsten Carbide Bearing Balls  
x4 Hardened Steel Bearing balls

Counter Weight Assembly: Unique Roksan 'Intelligent' type

First break resonance: 1.4kHz

## NOTES

## ARTEMIZ Tonearm

Artemiz Precision Pick-up Arm

Serial Number: .....

Purchase Date

Year ..... Month ..... Day .....

ROKSAN Retailer

Name: .....  
Location: .....

*Please keep a record for future reference*

