

# tonar

specialist in styli, cartridges and accessories for vinyl

[www.tonar.eu](http://www.tonar.eu)

*styli & cartridges*



*vinyl cleaning*



*sound enhancement*



*turntable essentials*



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Since 1954, Tonar has become the specialist for phonograph styli, cartridges and accessories for your turntable and vinyl collection. Whether you belong to the new generation of vinyl lovers, or are already an experienced analogue High End HiFi enthusiast, our aim is to provide you with all essential tools necessary to fully enjoy your record collection.

While the concept of the record player is old, the means to enjoy analogue audio stay up-to-date. As we speak, new innovations are developed to improve every aspect of the turntable as well as the quality of vinyl records. Yet, with our longstanding experience, we are also committed to keep vintage parts and technologies available.

Originally, Tonar was founded as an O.E.M supplier, specializing in the field of synthetic sapphire products, such as bearings for watches, gas meters and other instruments. These parts were sold to industrial users. Soon a phonograph cartridge manufacturer contacted us to purchase sapphire tips for their phonograph needles. This was the first step into what is currently our core business – replacement styli and cartridges for record players.

Tonar now boasts a huge collection of phonograph replacement needles, original needles, phonograph cartridges and accessories for vinyl. Our current line consists of more than 3000 replacement needles and original needles, as well as more than 1500 different types of phonograph cartridges. We offer special shape cartridges for old record players where only one cartridge model will fit, as well as standard ½ inch mount cartridges, T4P-plug-in cartridges, crystal, ceramic, moving magnet, induced magnet, moving iron and moving coil type cartridges. Our cartridges and styli are not only used in hi-fi record players but also in 78 RPM Pathe-phone's, vintage record players and juke boxes.

As we share a passion for analogue sound reproduction, Tonar tries to keep supplying you with every item you may require to bring or keep your HiFi record player up and running, whether it be a stylus, a cartridge, a new turntable belt or even many other original or replacement parts that you require in order to enjoy listening to your vinyl records. You will find many examples of these products in this leaflet which only barely touches the surface of our complete assortment.

*More than  
3000 different  
phonograph styli  
available!*

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## Vinyl Cleaning Essentials

When playing a record or even when taking the record out of its sleeve, it becomes static. This is because the surface of a vinyl record is not conductive and any static charge that develops remains. A static record attracts lots of dust and (pet) hairs, which not only affects the sound quality, but ultimately degrades the life of your vinyl collection, or damages the stylus of your record player. Tonar offers various easy-to-use tools to keep your valuable vinyl collection dust free, extending the life of your favorite recordings.

**3180 – Tonar Nostatic Brush (carbon fibres)**



The Tonar Nostatic Brush contains more than one million ultra fine carbon fibre bristles. The cross section of these bristles is so small that they can easily get into all the nooks and crannies of the record groove. Because the carbon fibre conducts electricity, it takes away all the static to earth via the metal handle when holding the brush. After the dust lies loose in the groove, the next set of bristles can easily pick them up and remove them from the groove.

**3434 – Tonar Classic Brush (velvet)**



The Tonar Classic Brush is manufactured using a very soft long fibre velvet, especially selected for this purpose. The velvet reaches deep into the grooves and removes even the finest dust particles. The brush itself can easily be cleaned using the two foam rubber scrapers located on both sides of the plastic brush base.

**4365 – Tonar Dustaway (velvet + carbon fibres)**



This state-of-the-art Hi-Fi record cleaning brush combines the properties of the Tonar Classic brush and the Nostatic brush into one brush! The center part of the brush is made of ultra-fine pole high quality velvet. This velvet is flanked on both sides by a thick layer of very fine carbon fibres. The carbon fibres remove the static from the record so the dust comes loose and can be easily picked up by the velvet centre brush even from deep in the grooves. A small tooth-brush is included to easily clean the dust off the velvet after use.

**5973 – Tonar Tacky Cleaner (rolling cleaner)**



The Tonar Tacky Cleaner is a record cleaner featuring a roll made out of silicone rubber. The property of this rubber is that it is sticky. When rolling the cleaner over the record while applying a little pressure, the rubber will take the shape of the groove and all dust particles in the groove will stick to the rolling cleaner and be removed in that way. When the roll has become dusty simply wash it under tap water using a little hand soap. The dust will easily be rinsed off. After drying the roll with lint free paper, it will become just as sticky as when it was new. There is no danger that you will damage the label when rolling over the label.

**3033 – Tonar Cleansweep (velvet)**



The Tonar Cleansweep is a compact velvet cleaning brush, made of very fine and soft velvet. For a quick cleaning job of your vinyl records, the Cleansweep sweeps the dust easily away. The velvet reaches deep into the grooves and picks up the finest dust particles. A small toothbrush is included and stored in a compartment within the brush, to remove the dust from the velvet.

**4272 – Tonar Dust Jockey (velvet + carbon fibres)**



The Tonar Dust Jockey combines the very best ultra-fine pole velvet available on the market with two rows of carbon fibres on both sides of the velvet. The carbon fibres remove the static charge and then the velvet can easily pick up the loose dust from the record. A small toothbrush is included to easily clean the dust off the velvet after use. This ultimate brush is simply a must for serious vinyl fans and DJs.

vinyl cleaning essentials



## Vinyl Cleaning Essentials

Records do not only gather dust. Air pollution from the traffic outside, cooking fat, grease and tobacco smoke causes a tough film to form on the surface of the record. Sometimes even molds and fungi are present if the records have been stored for a prolonged period in a humid environment. The stylus tracking the record will scrape part of this dirt off the groove and this causes a thick build-up of grime on the stylus. Ultimately, this will result in complete miss tracking or groove skipping with permanent damage to your stylus and records. Tonar offers effective solutions to keep your precious record collection impeccable.

### 5938 – Tonar Wetgoat



When cleaning records with fluid, a special fluid resistant brush is required. The Tonar Wetgoat is made of the finest organic goat hair which has the perfect shape to enter deep into the grooves and clean them thoroughly. Goat hair is known for its softness and natural anti-static properties.

### 5379 – Tonar Woodgoat



The Tonar Woodgoat is a premium record brush that features two rows of real organic goat hair. The goat hair is very fine and soft and perfect to use when wet. This makes this brush ideal for any fluid based cleaning of your records, as the naturally anti-static goat hair bristles will easily reach every nook and cranny of the record's grooves. The luxurious wooden handle makes cleaning large record collections easier and more comfortable.

### 16043 – Tonar Plastigoat



The Tonar Plastigoat is a high quality record brush with two rows of ultra-soft real natural goat hair. A perfect brush to use for wet cleaning of your vinyl records. The naturally anti-static bristles prevent static build-up and the steady handle provides perfect grip while cleaning your record collection.

### 4475 – Tonar Nostatic Arm



The Tonar Nostatic Arm is the modern version of the formerly well known "Dust Bug" by Cecil Watts. The Nostatic arm incorporates a carbon fibre brush that removes the static charge from the record during playback, and at the same time picks up the loose dust before the stylus reaches that part of the record. The Nostatic arm has an earth wire which is connected to the earth of the record player or the amplifier. The height can easily be adjusted to suit most record players. It also has a sliding weight in order to adjust the "dusting force" of the brush.



### 4401 – Tonar Micro Fiber Cleaning Cloth



This micro fiber cloth is not your ordinary cloth; it's been designed especially for your precious vinyl records and CD's. It gently removes greasy fingerprints from the surface.

The cloth is 210 mm by 210 mm and is supplied in a clear pouch.

## Vinyl Cleaning Fluids

QS-Tonar Vinyl Cleaner has been the choice for audiophiles to clean and maintain their records. Chemical engineers with a great passion for analogue audio have developed this dedicated cleaning fluid for vinyl records. With its unique formula, QS-Tonar has a very low surface tension and is able to penetrate the grooves from top to bottom and in any nook and cranny. Even the dirtiest record will soon sound crystal clear again.

### QS-Tonar Vinyl Cleaning Fluid



3514 – QS-Tonar Vinyl cleaner  
0.5 Litre pump-spray flask

QS-TONAR is a specially developed cleaning fluid for vinyl records. Now what is so special about the QS-TONAR vinyl cleaner compared to similar looking competing products on the market?

#### QS-TONAR liquid has an extremely low surface tension

Only because of this reason QS-TONAR liquid can penetrate right to the bottom of the groove. Other fluids while they seem to penetrate, actually just lie on top of the record surface. Only QS-TONAR liquid cleaner soaks the dust, dirt, air pollution, residue from previously used cleaners, fatty deposits remaining from the original



3503 – QS-Tonar Vinyl cleaner  
1 Litre bottle

record pressing process, even fungi and moulds caused by records having been stored in humid conditions etc.

QS-TONAR liquid detaches all of the before mentioned dirt from the walls of the groove after which the brushes in the machine can easily wipe the groove completely clean. The amount of residue remaining in the groove is negligible – this contrary to other liquids currently on the market. QS-TONAR liquid is much more volatile than other liquids reducing the drying time of the record to a minimum.

QS-TONAR liquid also has another additive causing the dirt to remain floating in the liquid rather than settling



4262 – QS-Tonar Vinyl cleaner  
5 Litre tank

back at the bottom of the groove.

QS-TONAR liquid can be used in all record cleaning machines, including the Tonar Wash & Dry Vinyl Washing Machine or the Tonar Knosti Disco-Antistat record washing machines.

QS-TONAR liquid is available in three formats: as a 0.5 litre pump spray flask for spraying onto records for small cleaning jobs, as 1 litre bottle and as a 5 litre tank for big users with washing machines of all types

CAUTION: do not use with old 78 RPM shellac records as the liquid may cause irreparable damage.

### 16045 – Tonar record cleaning fluid concentrate



The special formula of the Tonar record cleaning fluid concentrate brings dirt to the surface for easy removal. This 50 ml bottle concentrate makes 1 litre of cleaning fluid when added to distilled water.

Can be perfectly used in all record cleaning machines, including the Tonar Wash & Dry Vinyl Washing Machine or the Tonar Knosti Disco-Antistat record washing machines.



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## wash & dry



Keeping your vinyl records clean is as important as having good equipment when you want to enjoy an optimal sound. The Tonar Wash & Dry vinyl washing machine offers a helping hand to make your records shiny and bright again. With this compact and easy-to-use device, you're ready to wash your complete record collection – including 7", 10" and 12" records – and quickly dry them with an extremely silent, yet powerful vacuum system.

### The importance of cleaning your vinyl records

Many people associate vinyl records with hearing "pops" and "clicks". In part, this is the charm of the medium but it should not get over the top of course. Unless your vinyl has scratches, these pops and clicks are caused by dust and dirt that has been collected in the grooves. Also contamination by air pollution from the traffic outside, cooking fat, grease and tobacco smoke can cause a tough film to form on the surface

of the record. Sometimes even molds and fungi are present if the records have been stored for a prolonged period of time in a humid environment. If you play a dirty record, the stylus will scrape part of this dirt off the groove and this causes a thick build-up of grime on the stylus. Ultimately, this will result in complete miss tracking or groove skipping with permanent damage to your costly stylus and precious records.

### All-in-one vinyl Wash & Dry system

The Tonar Wash & Dry is an all-in-one solution to clean your records in the most easy way. The set includes a high quality goat hair brush, concentrate for one liter of cleaning fluid, a special stainless steel record clamp with rubber rings to protect the label during washing, and a dust-cover. With just one single button, you can control the direction of the rotation of the platter (clockwise or counter clockwise), and activate the vacuum arm. Instead of having to change vacuum arms for different record formats, the Tonar Wash & Dry uses only one arm with a switch button to change between 7", 10" and 12" records. The vacuum system of the Tonar Wash & Dry is extremely silent, yet very powerful. The vacuum will collect all the liquid in a reservoir inside of the device. The wastewater level can be read-off on right hand side of the machine, and can be easily emptied with the hose.

- 5575 - Wash & Dry 220 Volt
- 16015 - Wash & Dry 110 Volt

- an extremely silent yet powerful vacuum system
- all-in-one vacuum arm: ready for any 7" / 10" / 12"
- one single control button: very easy to use
- bi-directional motor action

### Did you know that it's important to clean brand new records?

*What most people don't realise, is that brand new records actually benefit from a quick clean before you take them for a spin. But why would you need to clean something you've literally just purchased?*

*Nearly every new vinyl record is positively charged with static electricity. The static charge attracts dust and particles in the immediate proximity, including tiny paper fibers from the sleeve. This will lead to hearing unwanted crackles and clicks while playing the record.*

*Also, during the production process, oils and other gummy release agents are used for the pressing of the records. This will leave a sticky residue on the record surface, which can, in turn, contaminate your stylus and ultimately diminish the sound quality. Cleaning your newly purchased records with the Tonar Wash & Dry Vinyl Washing Machine will contribute to a better listening experience and long lasting preservation of your records.*

### The Tonar Wash & Dry offers a complete ready-to-use vinyl cleaning set, including:



- 50 ml bottle with Tonar record cleaning fluid concentrate
- Tonar Plastigoat goat hair cleaning brush
- power cord
- stainless steel record clamp
- black aluminum adapter disc for singles
- label-cover
- extra 7 inch platter
- all-in-one vacuum-arm 7"-10"-12"
- dust cover

### How the Tonar Wash & Dry works:

Place the record on the small or large platter and then lock the record to the platter using the stainless steel record clamp with the label-cover. Make sure that the vacuum arm is turned away from the platter. Mix the Tonar record cleaning concentrate with 1 litre of purified water, or use the ready-to-use QS-Tonar Vinyl Cleaning Liquid

Before applying the liquid, it is recommended to first remove loose dust from the record with an anti-static record brush, such as the Tonar Dust Away carbon fiber/velvet combination brush. Then turn the rotary control knob clockwise and carefully apply the cleaning liquid drop by drop. Applying just the right amount of cleaning fluid is an art in itself and requires some practice. Start with a small amount and add more if required. Make sure the liquid is evenly distributed on the surface using the application brush. Once you are satisfied with the result, gently put a bit of pressure on the brush to clean the grooves. Continue this operation for 3 or 4 revolutions and then do the same in the opposite direction by turning the rotary knob counter clockwise.

You are now ready to remove both dirt and liquid using the vacuum system. Vacuuming the LP may be done in either direction of rotation. Rotate the vacuum-arm over the vinyl, towards the spindle, then turn on the vacuum motor by pressing the button on the control knob. One or two rotations of the platter should be sufficient to vacuum and dry the record. The velvet strips on the bottom of the vacuum-arm will remain dry or almost dry due to the high suction power of the Tonar Wash & Dry.

The waste water level in the reservoir can be checked from the hose on the right hand side of the Tonar Wash & Dry. To empty the reservoir, pull the hose out of the appropriate cavity and place the hose in a bottle or container. You do not have to tilt the machine; the reservoir empties completely when the machine simply rests on its feet.

wash & dry vinyl washing machine

wash & dry vinyl washing machine





## Tonar Knosti Disco-Antistat Vinyl Washing Machines

No matter how much you spend on the complete set-up of your analogue sound system, it is ultimately the vinyl itself that is the source of the sound that you hear from your speakers. Therefore, effective and proper cleaning of your records is vital. The Tonar Knosti Disco-Antistat is a unique manual vinyl washing system that cleans even the dirtiest records and prevents static charges. Every groove of your precious records will be cleaned thoroughly. The Disco-Antistat is easy-to-use and doesn't cost a fortune.

### 5248 – Tonar Knosti Disco-Antistat Generation II PLUS



The Tonar Knosti Disco-Antistat Generation II PLUS is the improved manual vinyl washing machine.

The washing cabinet has practical arms to lock the axis in place. This avoids spilling of the cleaning liquid while rotating the record.

The improved and enlarged rubber seal in the protective record clamps prevents liquid to reach the label.

Using the crank-arm, you can easily rotate the record, without getting the cleaning liquid on your hands.

Non-slip rubber feet are included, for more stability during washing.

The goat hair brushes can be replaced.



### How the Disco-Antistat works:

The Tonar Knosti Disco-Antistat makes it fun and easy to clean your record collection. Each set includes a rectangular washing cabinet, a clamp to protect the label, 1 litre of special vinyl cleaning fluid, a drying rack and a funnel to put the fluid back into the bottle after use.

The washing tub is filled with vinyl cleaning fluid up to the top of the goats hair brushes that are pre-mounted inside.

Next, a dirty record is placed between the two halves of the record clamp and screwed tight. A rubber seal inside the clamp prevents moisture from reaching the label. Protruding from the outer sides of the clamp are two pegs, which sit in slots atop the Tonar Knosti machine. The new Generation II Disco-Antistat includes two arms to lock the record in the slots.

The vinyl is then rotated by hand, or by using the spindle that is included in the Generation II Disco-Antistat. It's recommended to rotate the record 5 to 10 times through the bath in both directions.

As the record passes through the washing tub, two sets of brushes clean each side of the record. The brushes are made using the finest natural goats hair, which has the unique property to enter deep into the grooves and the hair is not attacked by the fluid.

Once you're happy with the result, simply remove the record from the protective clamps, and place your clean record on the rack to dry. When cleaning is complete, pour your used cleaning fluid from the washing tub back into your cleaning fluid bottle for re-use using the funnel and filter provided.

A regular washing of your records at least once a year can improve your listening pleasure dramatically.

### Also available:

- 16014 - Disco Antistat II PLUS with 200 ml Ultra Clean concentrate
- 16013 - Disco Antistat I with 200 ml Ultra Clean concentrate

### 3508 – Tonar Knosti Disco-Antistat



The Tonar Knosti Disco-Antistat is the classic manual vinyl washing machine as successfully produced since 1978.

The Disco-Antistat set includes:

- Washing cabinet with integrated brushes made out of goats hair.
- Label protecting clamshell with axis for 12 inch LPs, 10 inch Long Play records and 7 inch 45 RPM Singles and EP records.
- A funnel with filters is provided to allow re-use of your cleaning fluid if desired.
- Drip-dry rack with catch basin for up to 15 records of any size.
- 1 liter Knosti anti-static cleaning fluid

*New records as well as old ones from the attic..*

*The Disco-Antistat makes them clean and anti-static!*



## Tonar Knosti Disco-Antistat Ultrasonic

Cleanliness you can hear! Over 40 years of experience with the Tonar Knosti Disco-Antistat is now combined with state-of-the-art cleaning technology. The Disco-Antistat Ultrasonic is the latest generation of the Tonar Knosti vinyl washing machines that uses ultrasonic sound waves for cleaning records.

### 16009 – Tonar Knosti Disco-Antistat Ultrasonic



The Tonar Knosti Disco-Antistat Ultrasonic vinyl washing machine combines high-tech ultrasonic cleaning with the proven goat hair brush system. This ensures gentle, groove-deep cleaning of your records and an audible improvement in the sound image. During operation, the special anti-static cleaning fluid is permanently clarified by a filter system and dirt particles are filtered out to minimise impurities in the fluid and thus achieve the best possible cleaning result.

The Tonar-Knosti Disco-Antistat Ultrasonic set includes:

- Ultrasonic record washer
- 200ml cleaning concentrate Disco-Antistat Ultraclean
- 1 litre Disco-Antistat BiDest, high-purity water
- 1 microfibre cloth
- Label cover incl. axle with magnetic coupling
- Power supply 230 VAC/12 VDC 3A
- 1 drying stand
- 1 sponge brush
- 1 Mixing bottle (for preparing the cleaning liquid from Disco-Antistat Ultraclean and Disco-Antistat BiDest)

- 16006 - Disco-Antistat Ultraclean
- 16015 - BiDest high-purity water



### Some features of the Tonar Knosti Disco-Antistat Ultraclean:

*The cleaning time can be conveniently adjusted to the degree of soiling of the record, supported by a functional display.*

*A clearly visible progress indicator informs about the cleaning status at a glance.*

*After use, the aged cleaning liquid can be conveniently filled back into the bottle at the touch of a button via a built-in pump.*

*The permanent filtering of the cleaner prevents the liquid from accumulating dirt. Thus, a consistent cleaning result is achieved.*

*Thanks to the innovative magnetic coupling, inserting and removing the record is quick and easy.*

*Driven by an electric motor, the record rotates evenly in the tank, thus achieving a homogeneous treatment with ultrasound.*

### What is Ultrasonic cleaning?

Ultrasonic cleaning works through high-frequency sound waves transmitted through liquid to scrub clean the surface of immersed parts. The high-frequency sound waves agitate the liquid solution, and cause the 'cavitation' of the solution's molecules. Cavitation means that bubbles are formed when sonic energy creates a void (or cavity) which gets trapped as a bubble in the liquid. These microscopic bubbles implode with such force that contaminants adhering to surfaces are dislodged. Hence, through ultrasonic cleaning, surfaces are cleaned through implosions of tiny bubbles.

The Tonar Knosti Disco-Antistat has a powerful ultrasonic transducer that generates the cavitation bubbles that act directly on removing the dirt from the record. The ultrasonic waves also reach places that are inaccessible to conventional cleaning methods and ensure cleanliness down to the depth of the groove. The loosened dirt particles are then wiped off on the well-known Disco-Antistat soft goat hair brushes.



## Record Sleeves

*Protect your fragile vinyl records and record albums from dust, air pollution, tobacco smoke, fungi and other contaminants with Tonar anti-static record sleeves*



record sleeves



## Record Sleeves

*Most records – old and new – are supplied in a paper sleeve, which offers no protection at all. Paper particles will settle in the groove and pulling the record from its sleeve will contribute to static build up. After cleaning your records, it's better to store them safely in good quality anti-static dust free record inner sleeves and sturdy outer sleeves. Tonar offers a full range of highly protective inner and outer sleeves for all formats, to protect your precious records and albums from dust, dirt and airborne contamination.*

### Tonar Inner Sleeves



The Tonar Nostatic Inner Sleeves are made of 2 layers 40 micron thick HDPE super anti-static plastic. The Nostatic sleeves are available in three sizes: 12 inch, 10 inch and 7 inch. So there is a Tonar Nostatic sleeve available for every format whether 12 inch LP, 10 inch Long play and 78 RPM Shellac and 7 inch 45 RPM and EP records.

#### available sizes



#### 12 inch

5961 – Tonar Nostatic sleeves for 12 inch (30cm) LP records (50 sleeves per package).



#### 10 inch

5315 – Tonar Nostatic sleeves for 10 inch Long Play records as well as 78 RPM shellac records. Contains 50 sleeves per package.



#### 7 inch

5983 – Tonar Nostatic sleeves for 7 inch (17.8 cm) 45 RPM records. Contains 50 sleeves per package.

### Tonar Plastipap



Tonar's best solution is the already world famous 'Plastipap inner sleeve'. This very strong sleeve consists of 4 layers with 40 micron thick HDPE super anti-static plastic and two layers of 100% sealed paper reinforcements in between. This product is currently only available for 12 inch LP records.



5311 – Tonar Plastipap inner sleeves  
Contains 25 pieces per package.

### Tonar Outer Sleeves



Your valuable record albums will easily get soiled due to air pollution and handling with (greasy) fingers. Use the Tonar heavy duty outer sleeves made from Crystal Clear 125 micron thick PP plastic. The Tonar outer sleeves are also available in three sizes for 12 inch LP, 10 inch Long play or 78 RPM Shellac and 7 inch 45 RPM or EP records.

#### available sizes

#### 12 inch

5979 – Tonar 12 inch heavy duty outer sleeves for LP records. Contains 25 sleeves per package.



#### 10 inch

5313 – Tonar 10 inch heavy duty outer sleeves for LP records as well as 78 RPM shellac records. Contains 25 sleeves per package.



#### 7 inch

5317 – Tonar 7 inch heavy duty outer sleeves for 45 RPM records. Contains 50 sleeves per package.



record sleeves

*The best solution to store and preserve your record collection*





## High End Head Shells

Most turntables are supplied with a standard entry level head shell. The sound quality can be strongly improved by using a so-called "high end shell". Some shells have the possibility to adjust the pitch of the shell axial wise, as compared to the tone arm. This allows an exact vertical mounting of the cartridge and stylus tip onto the record.

### Tonar TopQ II High End head shells

Tonar TopQ II High End head shells come in two versions, one with a removable arm lifter and one with a fixed arm lifter. Both models have the possibility to adjust the pitch of the shell axial wise, as compared to the tone arm. This allows an exact vertical mounting of the cartridge and stylus tip onto the record. The finest quality OFC (Oxygen Free Copper) lead wires are used in the Tonar TopQ II High End head shells. Both models are available in black or in silver/bronze. All models have an SME type connector for use on S-shaped tone arms.



16026 – Tonar TopQ II head shell (black) removable arm lifter



16022 – Tonar TopQ II head shell (black) fixed arm lifter



16024 – Tonar TopQ II head shell (silver/bronze) removable arm lifter



16020 – Tonar TopQ II head shell (silver/bronze) fixed arm lifter

### 5235 – Tonar head shell weight AD-1



The silver head shell weight is to be secured via two screws (not included) along with the cartridge to an SME type head shell. The head shell weight will add 3 grams to the weight of the cartridge.

### 5405 – Tonar Cherry Wood head shell



The Tonar head shell made of cherry wood, is a high quality audiophile head shell and provides an elegant solution with a variety of cartridges. It has an SME style locking collar (as found on most tone arms with removable head shells). The connectors are gold plated and the included head shell leads are silver plated.

### Lenco Head Shell 5407 (silver) – 5408 (black)



There are many vintage Lenco record players on the market that only require a head shell. The original shell is no longer available, but now there is a high quality Tonar replacement model. Fits Lenco players B52; B55; L72; L75, L76 and L78. Includes a set of mounting plates.



### 3197 – Tonar SME type head shell black



Light weight entry level shells suitable for most tone arms with an SME type connector. Including OFC (Oxygen Free Copper) lead wires and a finger lift.

Weight: 6.8 grams

### Tonar SME type High End head shells

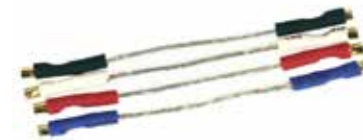


### 3196 – Tonar SME type head shell silver

## Head Shell and Tone Arm Wiring and Tools

Further improvements to the sound quality can be made by using high quality head shell lead wires from the best conducting materials. Tonar offers a wide range of different high end wires, as well as items for your turntable's tonearm to secure a smooth transfer of the audio signal, reducing any distortion.

### 5406 – Tonar silver AG-99 head shell wire set



Set of 4 leads for connecting the cartridge to the tonearm head shell. Made of high purity silver. Each cable is a multi-core wire which is covered with an insulating varnish (litz wire) and gold plated terminals on each side. Individual color coding is used for each conductor. The 47 mm wires are suitable for use in almost all removable head shells.

### 5434 – Tonar Copper 7N OFC head shell wire set



The set contains 4 high purity 7N OFC (Oxygen Free Copper) braided litz head shell lead wires, each 43.5 mm long with silver insulated connectors at both ends. Designed for the world's best cartridges to flawlessly transfer what comes out from the cartridge without distortion, signal loss or coloration. The result will be a musical and organically natural sound with improved definition.

### 4055 – Tonar head shell lead wires



These colored insulated wires connect your cartridge to your head shell and transmit a clean signal without any noise. Made with the finest Oxygen Free Copper (OFC). The end of each wire is fastened by gold plated clips.

### 5411 – Tonearm V block Bearings for Lenco / Goldring



When refurbishing Lenco tonearms, replacing the Lenco V blocks is often a must. This set comes pairwise in hard white plastic. These Lenco V block bearings fit Lenco B-55, L-75, L-76, L-77, L-78 and Goldring B-55, GL-72, GL-75, GL-78

### 4498 - Arm lifter



This hydraulic tone arm lifter can be used as the cueing device for a number of high-end tone arms.

Lifting arm height above base - 28 mm when lowered, 30 mm when raised. Cylinder diameter - 13 mm

### 4197 - QS-Tonar turntable oil



QS-Tonar Turntable Oil (TTO) is developed to lubricate the bearing of turntables. The Turntable Oil has a very low friction and it produces extremely strong film lubrication, which greatly reduces wear and noise from the bearing. Applying the oil every two years extends the life of a record player and promotes an even speed.

### 4614 – Tonar Anti-Skate Weight



Using an Anti-Skate Weight helps to bring a perfect amount of counter-drag on the tonearm, reducing the inclination for the arm to 'skip' or 'skate' across the record.

### 4612 – Tonar High End Tone arm wires sets



The Tonar tone arm wire sets are made of 99.99% Oxygen free copper and are available in a length of 53 cm with gold plated terminal pin plugs on one side.

### 4613 – Tonar Gold Plated terminal pins for cartridges



The gold plated pins enhance a low resistance electrical connection with the wires, because they cannot oxidize.





## HiFi Cartridges 1/2 Inch Mounting

### Tonar Flip Series Cartridges 1/2 Inch Mounting

The cartridge is perhaps the most important component of your whole audio system. The cartridge converts the vibrations of the stylus into audio signals, which are amplified in the rest of your system. Hence, the cartridge determines largely the quality of the sound that you hear. What doesn't go in, doesn't come out. For that matter, selecting a cartridge is vital for your listening pleasure.

In order to provide excellent sound reproduction at a modest price, Tonar has launched the Tonar Flip-series of cartridges with high end models available to suit all budgets. The Tonar 1/2 inch standard mount Flip cartridges are now also available with a hyper-elliptical or with a Shibata stylus tip. These cartridges offer excellent sound reproduction in the higher frequency ranges. The use of the Shibata tip also reduces record and stylus wear to the absolute minimum.

### 9511 – Tonar C - Flip Spherical tip



**Output** 3.5 mV at 1 KHz 5.0 cm/sec  
**Channel balance** within 2.5 dB at 1 KHz  
**Channel separation** more than 18 dB at 1 KHz  
**Load impedance** 47 KΩ  
**Load capacitance** 100 pF  
**Static compliance** 12 x 10<sup>-6</sup> cm/dyne  
**Dynamic compliance** 5 x 10<sup>-6</sup> cm/dyne  
**Tracking force** 1.5 – 2.5 gram (opt. 2.0 gr.)  
**Stylus tip radius** 0.6 mil spherical  
**Stylus tip material** bonded diamond  
**Tip diameter** 0.3 mm  
**Cantilever** carbon fibre  
**Cartridge weight** 5.0 grams ± 0.5 gr.  
**Frequency response** 20 – 20,000 Hz. ± 3 dB

### 9513 – Tonar E - Flip Elliptical tip



**Output** 3.5 mV at 1 KHz 5.0 cm/sec  
**Channel balance** within 2.5 dB at 1 KHz  
**Channel separation** more than 18 dB at 1 KHz  
**Load impedance** 47 KΩ  
**Load capacitance** 100 pF  
**Static compliance** 12 x 10<sup>-6</sup> cm/dyne  
**Dynamic compliance** 5 x 10<sup>-6</sup> cm/dyne  
**Tracking force** 1.5 – 2.5 gram (opt. 2.0 gr.)  
**Stylus tip radius** 0.3 x 0.7 mil elliptical  
**Stylus tip material** bonded diamond  
**Tip diameter** 0.3 mm  
**Cantilever** aluminium  
**Cartridge weight** 5.0 grams ± 0.5 gr.  
**Frequency response** 20 – 20,000 Hz. ± 3 dB

### 9583 – Tonar H - Flip Hyper Elliptical tip



**Output** 3.5 mV at 1 KHz 5.0 cm/sec  
**Channel balance** within 1.5 dB at 1 KHz  
**Channel separation** more than 22 dB at 1 KHz  
**Load impedance** 47 KΩ  
**Load capacitance** 100 pF  
**Static compliance** 12 x 10<sup>-6</sup> cm/dyne  
**Dynamic compliance** 5 x 10<sup>-6</sup> cm/dyne  
**Tracking force** 1.5 – 2.0 gram (opt. 1.75 gr.)  
**Stylus tip radius** 0.2 x 0.7 mil hyper elliptical  
**Stylus tip material** bonded diamond  
**Tip diameter** 0.25 mm  
**Cantilever** aluminium pipe  
**Cartridge weight** 5.0 grams ± 0.5 gr.  
**Frequency response** 15 – 25,000 Hz. ± 2.5 dB

### 9586 – Tonar S - Flip Shibata tip



**Output** 3.5 mV at 1 KHz 5.0 cm/sec  
**Channel balance** within 1.5 dB at 1 KHz  
**Channel separation** more than 28 dB at 1 KHz  
**Load impedance** 47 KΩ  
**Load capacitance** 100 pF  
**Static compliance** 12 x 10<sup>-6</sup> cm/dyne  
**Dynamic compliance** 5 x 10<sup>-6</sup> cm/dyne  
**Tracking force** 1.5 – 2.0 gram (opt. 1.50 gr.)  
**Stylus tip radius** shibata - line contact  
**Stylus tip material** bonded diamond  
**Tip diameter** 0.25 mm  
**Cantilever** aluminium pipe  
**Cartridge weight** 5.0 grams ± 0.5 gr.  
**Frequency response** 15 – 30,000 Hz. ± 2.5 dB

## HiFi Cartridges T4P (Plug-In) Mounting

### Tonar Plugger Series Cartridges T4P (Plug-In) Mounting

Once, T4P (plug in) was a very popular option for easily mounting and changing cartridges. The record players using this mounting standard have become more rare. Because of that, most cartridge manufacturers have discontinued producing T4P-type plug-in cartridges. Now Tonar has launched the Tonar Plugger series of T4P plug-in cartridges with high end models available again to suit all budgets. These T4P cartridges provide excellent sound reproduction at a modest price.

Very few cartridge manufacturers offer T4P cartridges with Hyper-Elliptical and/or Shibata tips. Tonar is happy to provide these models. These Tonar Plugger cartridges offer excellent sound reproduction in the higher frequency ranges. The use of the Shibata tip also reduces record and stylus wear to the absolute minimum.

### 9496 – Tonar C - Plugger Spherical tip



**Output** 5.0 mV at 1 KHz 5.0 cm/sec  
**Channel balance** within 1.5 dB at 1 KHz  
**Channel separation** more than 24 dB at 1 KHz  
**Load impedance** 47 KΩ  
**Load capacitance** 100 pF  
**Static compliance** 12 x 10<sup>-6</sup> cm/dyne  
**Dynamic compliance** 5 x 10<sup>-6</sup> cm/dyne  
**Tracking force** 1.5 – 2.0 gram (opt. 1.75 gr.)  
**Stylus tip radius** 0.6 mil spherical  
**Stylus tip material** bonded diamond  
**Tip diameter** 0.3 mm  
**Cantilever** carbon fibre  
**Cartridge weight** 5.0 grams ± 0.5 gr.  
**Frequency response** 0 – 20,000 Hz. ± 2.5 dB

### 9540 – Tonar E - Plugger Elliptical tip



**Output** 5.0 mV at 1 KHz 5.0 cm/sec  
**Channel balance** within 1.5 dB at 1 KHz  
**Channel separation** more than 24 dB at 1 KHz  
**Load impedance** 47 KΩ  
**Load capacitance** 100 pF  
**Static compliance** 12 x 10<sup>-6</sup> cm/dyne  
**Dynamic compliance** 5 x 10<sup>-6</sup> cm/dyne  
**Tracking force** 1.0 – 1.5 gram (opt. 1.50 gr.)  
**Stylus tip radius** 0.3 x 0.7 mil elliptical  
**Stylus tip material** bonded diamond  
**Tip diameter** 0.3 mm  
**Cantilever** aluminium pipe  
**Cartridge weight** 5.0 grams ± 0.5 gr.  
**Frequency response** 20 – 23,000 Hz. ± 2.5 dB

### 9588 – Tonar H - Plugger Hyper Elliptical tip



**Output** 5.0 mV at 1 KHz 5.0 cm/sec  
**Channel balance** within 1.5 dB at 1 KHz  
**Channel separation** more than 26 dB at 1 KHz  
**Load impedance** 47 KΩ  
**Load capacitance** 100 pF  
**Static compliance** 12 x 10<sup>-6</sup> cm/dyne  
**Dynamic compliance** 5 x 10<sup>-6</sup> cm/dyne  
**Tracking force** 1.0 – 1.5 gram (opt. 1.50 gr.)  
**Stylus tip radius** 0.2 x 0.7 mil hyper elliptical  
**Stylus tip material** bonded diamond  
**Tip diameter** 0.25 mm  
**Cantilever** aluminium pipe  
**Cartridge weight** 5.0 grams ± 0.5 gr.  
**Frequency response** 15 – 25,000 Hz. ± 2.5 dB

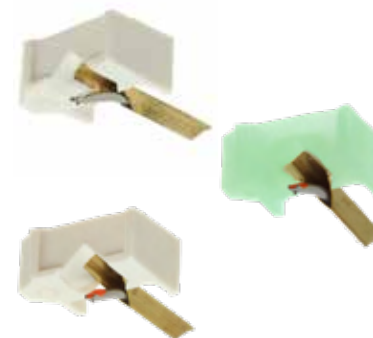
### 9590 – Tonar S - Plugger Shibata tip



**Output** 5.0 mV at 1 KHz 5.0 cm/sec  
**Channel balance** within 1.5 dB at 1 KHz  
**Channel separation** more than 28 dB at 1 KHz  
**Load impedance** 47 KΩ  
**Load capacitance** 100 pF  
**Static compliance** 12 x 10<sup>-6</sup> cm/dyne  
**Dynamic compliance** 5 x 10<sup>-6</sup> cm/dyne  
**Tracking force** 1.0 – 1.5 gram (opt. 1.50 gr.)  
**Stylus tip radius** shibata - line contact  
**Stylus tip material** bonded diamond  
**Tip diameter** 0.25 mm  
**Cantilever** aluminium pipe  
**Cartridge weight** 5.0 grams ± 0.5 gr.  
**Frequency response** 15 – 30,000 Hz. ± 2.5 dB

## DJ Essentials

### Tonar replacement styli for DJs



Tonar offers various replacement styli for DJs. The Tonar N44-7 Stylus is a replacement stylus for the Shure M44-7 Cartridge. This stylus has been manufactured to the same standard as the original. Perhaps even better. Engineered for scratch DJ's and turntablists, the N44-7 is designed not to skip under even the most demanding circumstances.

267 - Tonar N44-7 stylus

6546 - Tonar N44-7 DJ 'Competition Pro'

6589 - Tonar N44-7 Glows in the dark

Needle pressure of 3.5 - 4.5 gram  
Cartridge type: MM  
Tracking Force Range: 1.5 - 3 g  
Diamond Needle Spherical 0.7 mil

### 2735 – Tonar Banana DJ cartridge



The Banana is Tonar's legendary yellow DJ cartridge, designed to meet the high demands of DJs. Its integrated design connecting directly to the SME-type tonearm connector, makes it very easy for the DJ to mount his cartridges on tour. The Tonar Banana provides the essential vitamins for your audience.



**Cartridge weight** 16.0 g  
**Stylus tip shape/radius** 0.7 mil spherical diamond  
**Frequency characteristics** 20-20,000 Hz  
**Output Voltage** 5.0 mV (5 cm/sec)  
**Channel Separation** 20 dB (1 KHz)  
**Channel balance** 2.0 dB or less (1 KHz)  
**Dynamic compliance** 8 µm/mN  
**Stylus pressure** 3.0 – 5.0 g (4.0 g opt.)  
**Load resistance** 47 KΩ  
**Stylus tip material** bonded diamond  
**Vertical tracking angle** 20°  
**FIM distortion** 1.8%  
**DC resistance** 600 Ω  
**Recommended load resistance** 47 KΩ  
**Recommended load capacitance** 400 pF  
**Scratching** suitable for scratching  
**Cartridge mounting system** for SME-type arm only  
**Tracking ability at 315 Hz lateral** 70 µM

### Tonar DJ head shells



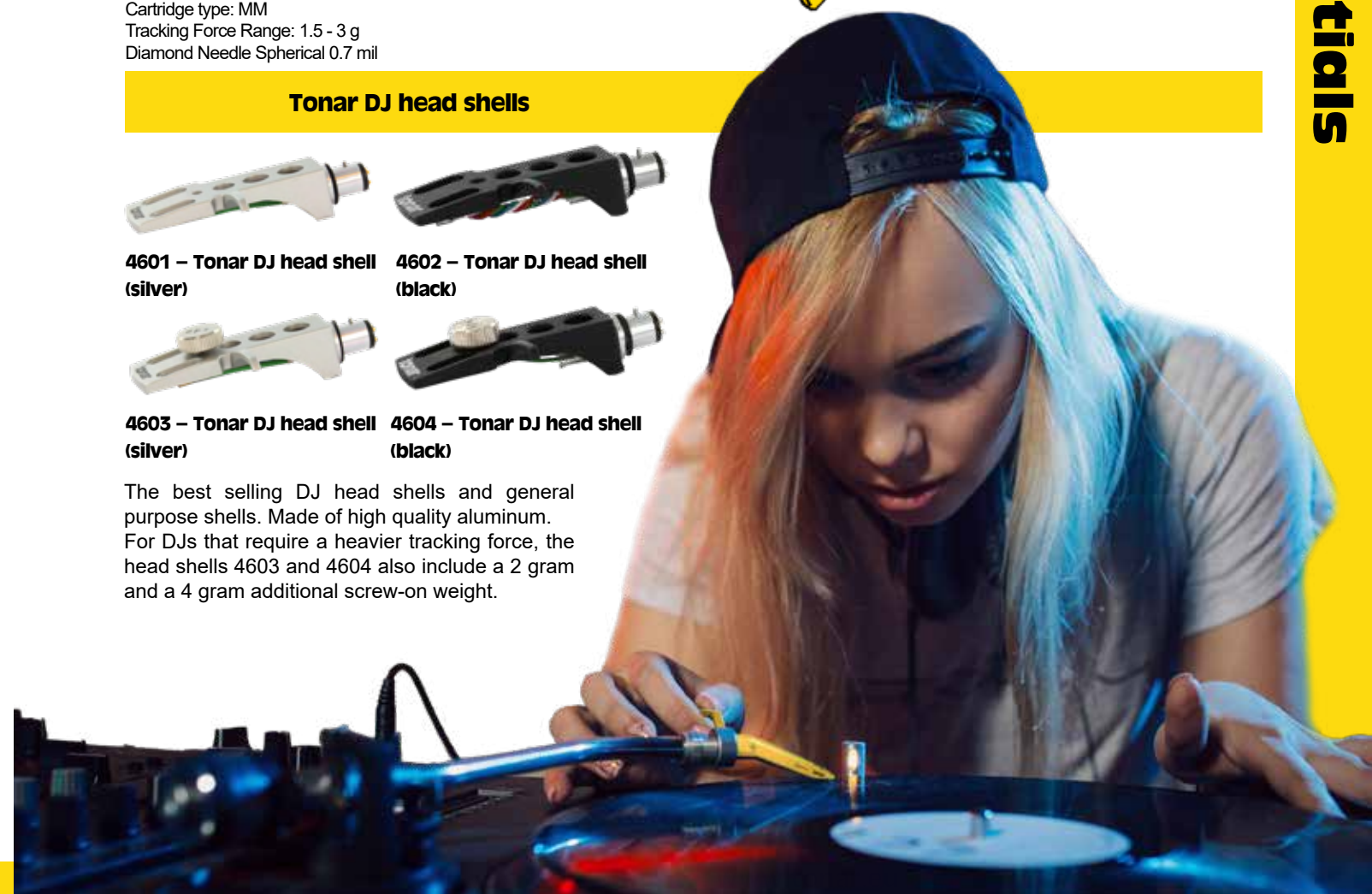
4601 – Tonar DJ head shell  
(silver)

4602 – Tonar DJ head shell  
(black)

4603 – Tonar DJ head shell  
(silver)

4604 – Tonar DJ head shell  
(black)

The best selling DJ head shells and general purpose shells. Made of high quality aluminum. For DJs that require a heavier tracking force, the head shells 4603 and 4604 also include a 2 gram and a 4 gram additional screw-on weight.





## Stylus and Cartridge Care

The stylus and the phono cartridge are at the heart of your analogue sound system. Yet, they are also the most delicate parts. Tonar offers various affordable products to extend the life of your stylus and to benefit the most from your cartridge. A well-maintained stylus and cartridge will only benefit your listening experience.

### 5944 – The Q UP automatic tonearm lifter



Using the Q UP tonearm lifter, extends the life of your stylus

The Q UP is a high precision device that safely lifts your tonearm at the end of the record. This will extend the life of your stylus significantly. The Q UP is designed to fit on most manual turntables and is easy to install. The Q UP can be configured for a variety of tonearm heights, thicknesses and shapes. This unique automatic tonearm lifter only interacts with the tonearm at the end of the record and does not adversely effect the tonal quality of your system in any way. Thanks to the Q UP, you don't need to worry about getting distracted or falling asleep while you play your records.



### 3583 – Tonar Professional alignment protractor



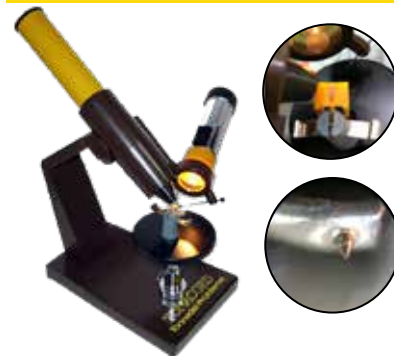
This Protractor is a unique alignment gauge which allows you to check the tone arm geometry and to install the cartridge ideally aligned to keep distortion to a minimum. It offers every essential information in order to install and align your cartridge professionally. English and German instructions included. A must for the very serious Hi-Fi enthusiast.

### 4208 – Tonar simple alignment protractor



A proper alignment of your cartridge will help you to enjoy the best possible sound. The Tonar Simple Alignment Protractor is an inexpensive device that allows you to properly mount and adjust your cartridge stylus for optimal groove tracking and music retrieval. The mirror makes it easy to check the azimuth of the cantilever.

### 3050 – Tonar Tonacord stylus microscope



Tonar's dedicated microscope for checking the condition of stylus tips.

### 4189 – Tonar Vinyline MC/MM Pre-Amplifier



The Tonar Vinyline phono MM/MC Pre-Amplifier is a very affordable solution to connect High End phonograph cartridges whether moving magnet (MM) or moving coil (MC) to the AUX port of your amplifier. Using the switch on the back, you can change between high output MM to low output MC mode.

**Specifications:**  
 Input (MM): 47 KΩ / 100 p.Farad  
 Input (MC): 100 Ω / 100 p.Farad  
 Output MM: 200 mV/1 KHz at 5mV/1KHz  
 Output MC: 200 mV/1 KHz at 0.45 mV/1KHz  
 Gain: MM: 32 dB / MC: 53 dB  
 Noise floor: MM: -88 dB / MC: -79 dB  
 THD: 0.005%  
 RIAA curve acc.: 20 – 20.000 Hz / max: 0.5 dB  
 Power supply: 16V/200 mA AC



## Stylus and Cartridge Care

### 5241 – StylusTimer™



Keeps track of the playing time of your stylus

The stylus of a phono cartridge should be replaced after every 1,000 hours of use, sometimes even sooner, depending on the cartridge. A worn stylus degrades the sound quality and can damage your valuable record collection. Unfortunately, most turntable owners have no idea how much time is actually on their stylus, especially as the months and years go by. Now you can track your stylus usage easily and precisely. StylusTimer™ is a unique chronograph designed for use with turntables. StylusTimer™ is a must-have accessory for all vinyl lovers and turntable users to:

- Know precisely how many hours are on your stylus or cartridge
- Track break-in hours and changes in sound quality over time
- Protect your record collection from damage from a worn stylus
- Maximize your cartridge investment, especially important with expensive high-end cartridges
- Have fun watching the hours climb, tracking your listening habits

### Tonar Trackurate digital stylus force gauge



### 4293 – Tonar Trackurate (yellow)



### 4250 – Tonar Clean-Tip



The Tonar Clean-Tip carbon fibre stylus cleaning brush is one of the best stylus cleaning brushes available on the market. The Tonar Clean-Tip stylus brush, with its tightly packed carbon fibres, does an excellent job to remove the tough dirt and dust from the stylus tip.

Getting the most out of any turntable requires an accurate vertical tracking force setting. Every cartridge on the market has a preferred tracking force range recommended by the manufacturer. Depending on the arm used you may have to be lower in the range or higher in the range. The Tonar Trackurate helps you adjust the tracking force very accurately. The easy to use Tonar Trackurate is the one case where digital makes more sense when it comes to fine-tuning your analogue set-up.



### 4367 – Tonar Trackurate (black)

**Specifications:**  
 Capacity: 0 - 5 grams  
 Accuracy: 0.01 grams  
 Weighing modes: g; oz; ozT; TL; ct  
 The Tonar Trackurate includes a soft case, batteries (AG12 button cell) and a weight to calibrate.

### 5553 – Tonar Top Tip stylus cleaning kit



You've cleaned all your vinyl, but still you suffer from a distorted sound? Maybe your stylus requires a proper clean-up as well! The Tonar Top Tip is a powerful cleaning solution that will detach all the dirt and tough grime that your stylus collects from the record during playback. The kit contains the Tonar Top Tip cleaning and lubricating liquid and a Tonar Clean-Tip carbon fibre stylus cleaning brush.

## Record Weights and Clamps

There are two distinct advantages to using a record clamp or weight on your turntable. First, they help to temporarily flatten warped records during playback. Many of the older records are either warped from the time they were pressed or have become warped in time due to bad storage. A warped record causes enormous problems for the cartridge and stylus to track the groove properly. Secondly, vinyl records vibrate along with the music as the stylus traces the groove. This can cause internal resonances. By using a record clamp or a weight, warped records will be flattened and the sound quality will be improved.

5464 – Tonar misty clear clamp



5290 – Tonar misty yellow clamp



5470 – Tonar misty black clamp



The aesthetically designed Tonar clamps couple your vinyl tightly to the platter. This will help to temporarily flatten out any warps during play-back and assures that internal resonances can be drained away from the stylus. The clamps are available in different colors, to match every record player.

5478 – Tonar misty green clamp



5475 – Tonar misty red clamp



5467 – Tonar misty blue clamp



*The Tonar clamps are available in different colors, to match every record player*

4611 – Tonar Record Weight Black (760 grams)



Tonar Record Weights

By using a Tonar record weight, the record will be pressed flat against the turntable platter causing it to become temporarily less warped during playback and making good contact with the platter. The weights are either nickle colour or covered with black enamel and a felt cushion on the base to protect the label of the record against scratching. Dimensions: 78 mm diameter x 25 mm. Caution: Please ensure that the platter bearing of your turntable is able to accept the additional weight of 760 grams. If in any doubt please consult your record player instructions or your dealer.

5964 – Tonar Record Weight Nickle (760 grams)



## Turntable Mats

Acoustic feedback is one of the big problems when playing records. It occurs when sound vibrations from your loud speakers are picked up by your turntable, amplified, and then sent out to the speakers again. The same information is reproduced by the cartridge with a very slight time difference. This results in a big loss of detail and clarity and makes the sound 'muddy'. Tonar has developed turntable mats that reduce acoustic feedback, thus maintaining separation and detail. The mats isolate the record from the turntable platter and absorb unwanted vibrations. That is why using turntable mats really matters!

Tonar Turntable Mats

### Turntable Mats Matter!

The Tonar turntable mats have been developed through experiments with different materials. Apart from absorbing and dampening unwanted vibrations, the mats have their own effect to enhance the sound. Some audiophiles even combine different materials as a 'sandwich' to create even better results.

Tonar offers a large selection of commercially manufactured mats made from various materials for you to be able to experiment yourself and to find the best mat for the different recordings in your collection. All Tonar mats (except the Nostatic Mat and the Leather Mat) have a depressed centre section, allowing space for the thicker record label so the vinyl record can lay perfectly flat on the mat. All mats have a diameter of 295 mm, except for the Rubber Mat (diameter: 298 mm). Now start testing your own combination of mats to fit your musical taste and improve the quality of the sound!

5391 – Tonar Crystal Mat



This luxury mat is made of pure glass and enhances the detail of the various instruments or vocals on your records. It is lighter and harder than aluminium and produces a crystal clear sound.

5972 – Tonar Pure Cork turntable mat



Cork material is known to dampen and absorb unwanted vibrations. The Tonar cork mat works very well on most turntables, due to its non-resonant properties.

5312 – Tonar Nostatic Mat II Improved



The Tonar Nostatic mat is a mat made of industrial felt mixed with carbon fibres. The carbon fibres release the static charge from the record and conduct it to earth using the metal spindle of the record player.

5974 – Tonar Cork & Rubber mixture turntable mat



Both cork and rubber are known to dampen and absorb unwanted vibrations. The Tonar composite cork/rubber mat works very well on many turntables, particularly on steel and lightweight turntable platters, due to its highly non-resonant properties.

5978 – Tonar Black Natural leather turntable mat



The Tonar Black Leather Platter Mat is a premium mat made from real leather/suede. With its luxury look, this leather mat dampens and absorbs unwanted vibrations.

5976 – Tonar Pure White Perspex mat



Perspex is a kind of acrylic. The mat enhances in particular the higher frequencies. Also in terms of aesthetics, this white coloured mat can perfectly match your modern turntable.

5988 – Tonar Rubber turntable mat



Sometimes, the original rubber mat on the turnplayer has become dirty or even has chemically decomposed. Tonar offers a fresh new rubber turntable mat to replace the old one.



## Stroboscope Discs

Records over the years have been cut at many different speeds. Originally they were cut at '78 RPM' or speeds around that value. Later the industry decided to cut all records at 33 1/3 or 45 RPM. For speech recordings even slower speeds were used in order to increase the amount of time recorded on each side of the record: 16 2/3 and 8 1/2 RPM. Of course you want to enjoy a recording at the correct tempo, but sometimes record players do not play at the proper speed and need adjusting. For that purpose Tonar now offers a total of three different Stroboscope Discs.

The detailed and easy-to-use Tonar Stroboscope Discs are created in three versions to measure different ranges of speed:

- A simple Tonar part 5468 Aluminium stroboscope disc of 10 cm diameter with the speeds 8 1/3, 16 2/3, 33 1/3, 45 and 78 RPM.
- For more accurate use we also offer Tonar part 5463 12 inch yellow acrylic stroboscope also with the speeds 8 1/3, 16 2/3, 33 1/3, 45 and 78 RPM.
- Finally for the 78 RPM shellac record collector we offer a very special Tonar part 5466 – 12 inch yellow acrylic Stroboscope disc offering all speeds: 8 1/3; 16 2/3; 33 1/3; 45; 70; 72; 73; 75; 76; 78; 80; 81; 83; 85; 87; 90 RPM. The reason for this is that in the beginning of the record industry every record manufacturer recorded at their own speed. This is apparent from the old Pathé phones which even had a speed control. As modern players offer a strict 78 RPM speed many of the really old shellac records sound odd because they are playing at either a too slow speed (tones are too low) or a too fast speed (tones are too high).

*Enjoy your records at the proper speed*

### How to use the Tonar Stroboscope Discs

If you have a record player with pitch (speed) control like a DJ-record player you can adjust the speed. Put the record on the player at 78 RPM and listen, then adjust the speed up or down until the record sounds normal. Then replace the record with the Stroboscope and read the speed that you selected and make a note of this on the album. Next time you want to play the record, first put the stroboscope to adjust to the proper speed setting and then play the record immediately at the proper speed.

## Turntable Accessories

Tonar offers a wide assortment of various accessories to fine-tune your analogue audio set-up and to maintain your turntable. Hence, you will be able to fully enjoy your equipment and improve your listening pleasure.

### 5462 – Tonar Ecolevel Yellow



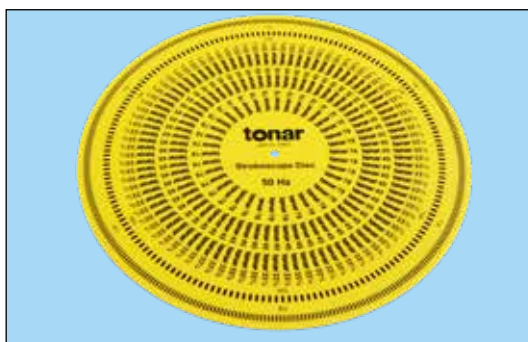
### Tonar Turntable Levels

For the best sound reproduction your turntable has to be installed precisely horizontal. These simple but effective levels from Tonar will tell you if your turntable is mounted on a flat surface for optimal performance.

### 5469 – Tonar Luxlevel Black

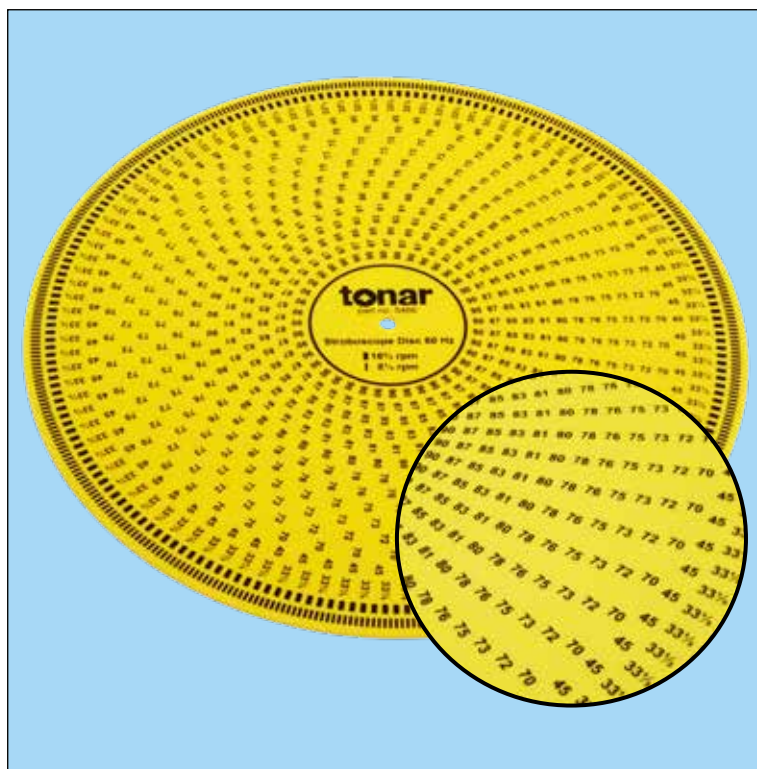


### 5463 – Stroboscope 30 cm diameter Deluxe



Speeds: 8 1/3; 16 2/3; 33 1/3; 45; 78 RPM.

### 5466 – 12 inch Yellow Acrylic Stroboscope Disc for all speeds



This Tonar Stroboscope Disc offers all speeds: 8 1/3; 16 2/3; 33 1/3; 45; 70; 72; 73; 75; 76; 78; 80; 81; 83; 85; 87; 90 RPM. The ultimate stroboscope disc for the 78 RPM shellac record collector!

### 5468 – Aluminium Stroboscope 10 cm diameter Standard



Speeds: 8 1/3; 16 2/3; 33 1/3; 45; 78 RPM.

### 3193 – Tonar No Rumble Pads



These pads, supplied in sets of 8 pieces, isolate your audio equipment from vibrations in the room. For turntables, speakers, and any other delicate systems. The No Rumble Pads are an effective solution for reducing rumble and vibration at the source before it passes through your system.

### Tonar Turntable Belts



Worn and stretched belts are the largest contributor to turntable speed fluctuations which destroys your sound-stage. Tonar can supply replacement belts for almost any brand and model turntable.

### 4199 – Tonar-Knosti Archifix record storage case for 50 LP's



It is important that you store your vinyl records properly so that they do not get moldy, collect dust, bend, warp or break. Never lay the records flat and never stack vinyl records on top of each other. This can cause the record to deform over time. This record storage case helps to store your records properly.

### 4064 – Tonar Single Spider



The Tonar Single Spider should be clamped into the centre hole of a single record (EP). This way, it is possible to play 7" records on a record-player without a 45-rpm adapter. Supplied in sets of 25 pieces.

### 5953 – Tonar 45 RPM adapter aluminum



The Tonar 45-rpm adapter is made of solid aluminum and is perfectly centered so you can optimally enjoy your favorite singles. It fits all modern turntables and can also be used on older turntables.

### 4080 – Tonar 45 RPM adapter plastic



A perfectly centered 45-rpm adapter made of plastic to enjoy your EP's.

*Tonar Stroboscopes, a must-have for every record collector!*



## Cassette Tape Accessories

Many audiophiles have collected cassette tapes and made their own tapes in the past. But the cassette tape has witnessed a revival in recent years. Artists and independent labels are releasing new albums on cassette tapes – some things even exclusive recordings. Tonar offers various accessories that will enable you to continue to enjoy your old tape collections and newly purchased cassettes as well.

### 5901 – Tonar Démag II Tape Head Demagnetizer 220-240V



Cassette decks and Reel to Reel players magnetize over time and lose performance. Magnetized tape heads and tape-conducting parts are the main causes of reduced playback quality. The Tonar Démag II is a professional demagnetization device, to remove the magnetic charge. Plug the cord into a proper power source. Place the demagnetizing tip against the recording head and all other metal parts with tape contact. Move the tip over the entire pole surface of the head for about one second. Then move the demagnetizer slowly away from the head and disconnect it. The cassette deck will be demagnetized again. It is recommended to use the Tonar Démag II after approximately every 20 hours of playing time.

CAUTION: Be careful not to overheat the demagnetizer, do not leave connected for more than 5 minutes at a time. Due to the strong magnetic field produced by this item when plugged in, keep the Tonar Démag II at least 3 meters away from all sensitive equipment, recorded medias (Audio-/Videocassettes, R2R-Tapes, Hard Disks, Floppy-Disks), and also Credit Cards, to avoid accidental erasing or cancellation. Also a warning for pacemakers: due to the strong magnetic field, this device can be harmful to pacemaker wearers!

### 16044 - Tonar Clean Peace MK II

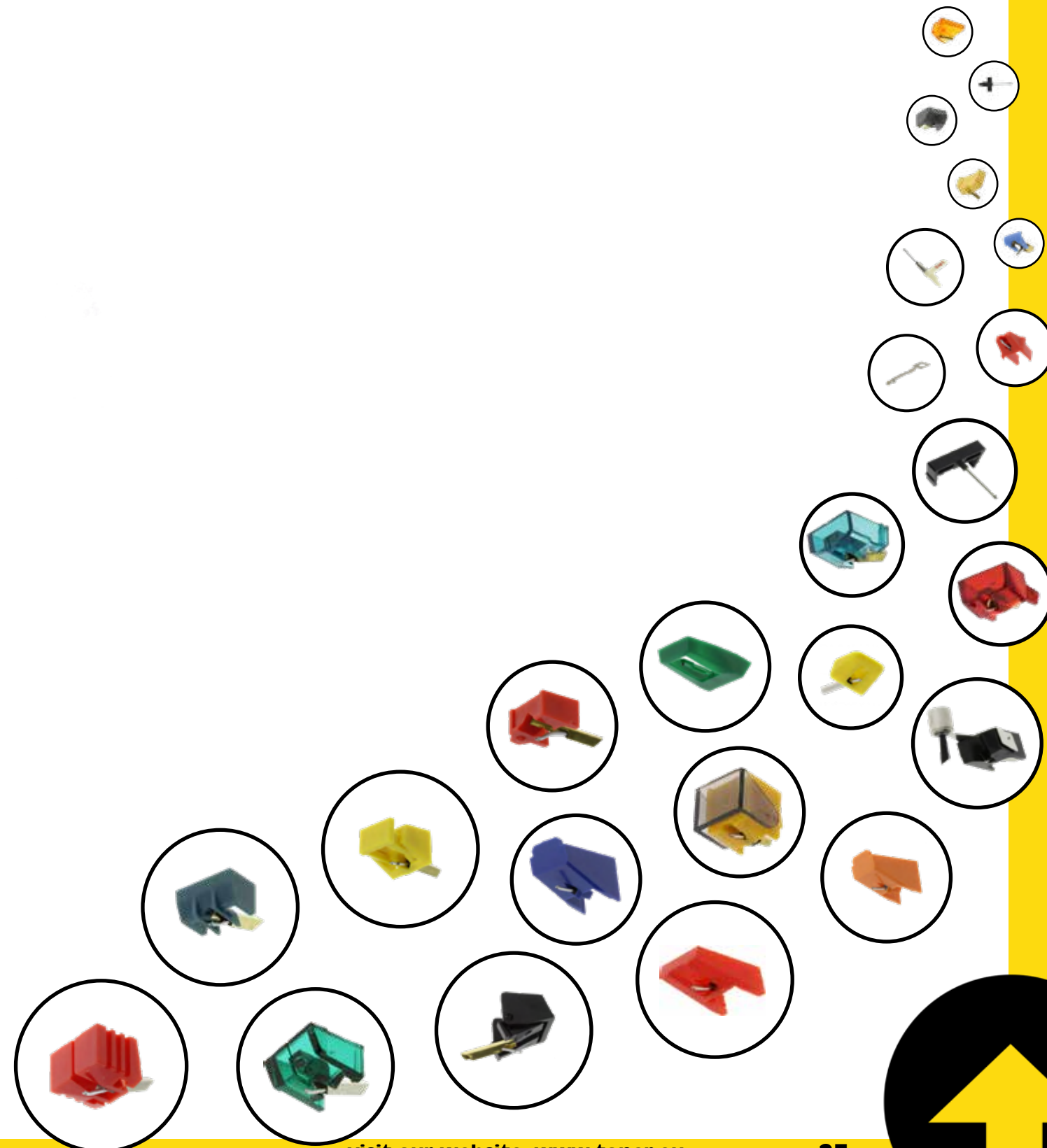


The Tonar Clean Peace MK II is used for cleaning the record and playback tape heads and rollers of a cassette deck. Cassette players require regular maintenance to perform properly. Particles that come off magnetic tape can build up on tape heads, reducing the signal quality. This tape head cleaner can also be used for radio cassette and car cassette players.

Add some cleaning liquid to the cleaning tape. Insert the cassette in the cassette player. Turn the player on and set the volume at 'zero'. Press 'play' and the cleaning will start automatically. In just 20 seconds, the tape heads will be cleaned.



## Notes





# tonar

specialist in styli, cartridges and accessories for vinyl  
[www.tonar.eu](http://www.tonar.eu)



Your Tonar dealer: