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Introduction

Thank you for purchasing this Cambridge Audio TT50 turntable. We hope that you will enjoy many years of listening pleasure from it.

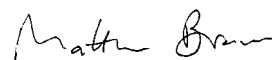
The TT50 has been jointly developed between Cambridge Audio and Pro-Ject and features several parts unique to this model such as a proprietary arm with non contact magnetic anti-skate. Other features include a Cambridge Audio made acrylic platter, coated with a layer of elastomer paint for careful control of resonance and matched acoustic impedance to the vinyl record for maximum detail retrieval.

The isolation type feet also control resonance and provide a measure of feedback resistance to vibration. The TT50 turntable is supplied with an Audio Technica AT95E Moving Magnet cartridge fully aligned and setup at the factory.

The TT50 should always be mounted on a good quality level support, preferably one designed for use with turntables.

Your turntable can only be as good as the system it is connected to. Please do not compromise on your supports, amplification, speakers or cabling. Naturally we particularly recommend models from the Cambridge Audio Azur range which have been designed to the same exacting standards as this turntable. In particular pay attention to the quality of your phono stage. The Cambridge Audio Azur 540P or 640P models for instance are an excellent match for the TT50. Your dealer can also supply excellent quality Cambridge Audio interconnects to ensure your system realises its full potential.

Thank you for taking the time to read this manual; we do recommend you keep it for future reference.



Matthew Bramble,
Cambridge Audio Technical Director
and the Turntable design team.

Visit www.cambridge-audio.com and register to receive notification of future hardware and software releases.

This guide is designed to make installing and using this product as easy as possible. Information in this document has been carefully checked for accuracy at the time of printing; however, Cambridge Audio's policy is one of continuous improvement, therefore design and specifications are subject to change without prior notice. If you notice any errors please feel free to email us at: support@cambridgeaudio.com

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Limited warranty

Cambridge Audio warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below). Cambridge Audio will repair or replace (at Cambridge Audio's option) this product or any defective parts in this product. Warranty periods may vary from country to country. If in doubt consult your dealer and ensure that you retain proof of purchase.

To obtain warranty service, please contact the Cambridge Audio authorised dealer from which you purchased this product. If your dealer is not equipped to perform the repair of your Cambridge Audio product, it can be returned by your dealer to Cambridge Audio or an authorised Cambridge Audio service agent. You will need to ship this product in either its original packaging or packaging affording an equal degree of protection.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This Warranty is invalid if (a) the factory-applied serial number has been altered or removed from this product or (b) this product was not purchased from a Cambridge Audio authorised dealer. You may call Cambridge Audio or your local country Cambridge Audio distributor to confirm that you have an unaltered serial number and/or you purchased from a Cambridge Audio authorised dealer.

This Warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of, the product. This Warranty does not cover damage due to improper operation, maintenance or installation, or attempted repair by anyone other than Cambridge Audio or a Cambridge Audio dealer, or authorised service agent which is authorised to do Cambridge Audio warranty work. Any unauthorised repairs will void this Warranty. This Warranty does not cover products sold AS IS or WITH ALL FAULTS.

REPAIRS OR REPLACEMENTS AS PROVIDED UNDER THIS WARRANTY ARE THE EXCLUSIVE REMEDY OF THE CONSUMER. CAMBRIDGE AUDIO SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY IN THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS AND IMPLIED WARRANTIES WHATSOEVER INCLUDING, BUT NOT LIMITED TO, THE WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PRACTICAL PURPOSE.

Some countries and US states do not allow the exclusion or limitation of incidental or consequential damages or implied warranties so the above exclusions may not apply to you. This Warranty gives you specific legal rights, and you may have other statutory rights, which vary from state to state or country to country.

Safety precautions

Checking the Power Supply Rating

For your own safety please read the following instructions carefully before attempting to connect this unit to the mains.

Check that the power supply unit indicates the correct supply voltage. If your mains supply voltage is different, consult your dealer.

This unit is designed to operate only on the supply voltage and type that is indicated on the power supply unit. Connecting to other power sources may damage the unit.

This equipment must be switched off when not in use. To reduce the risk of electric shock, do not disassemble any part of the unit. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with the arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-insulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance instructions in the service literature relevant to this appliance.

The crossed-out wheeled bin is the European Union symbol for indicating separate collection for electrical and electronic equipment. This product contains electrical and electronic equipment which should be reused, recycled or recovered and should not be disposed of with unsorted regular waste. Please return the unit or contact the authorised dealer from whom you purchased this product for more information.



Approvals



This product complies with European Low Voltage (73/23/EEC) and Electromagnetic Compatibility (89/336/EEC) Directives when used and installed according to this instruction manual. For continued compliance only Cambridge Audio accessories should be used with this product and servicing must be referred to qualified service personnel.

NOTE: THE MANUFACTURER IS NOT RESPONSIBLE FOR ANY RADIO OR TV INTERFERENCE CAUSED BY UNAUTHORIZED MODIFICATIONS TO THIS EQUIPMENT. SUCH MODIFICATIONS COULD VOID THE USER AUTHORITY TO OPERATE THE EQUIPMENT.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important safety instructions

Please take a moment to read these instructions before installing your TT50, as they will enable you to get the best performance and prolong the life of the unit. We advise you follow all instructions, heed all warnings and keep the instructions for future reference.

Positioning

Choose the installation location carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibration and excessive dust, cold or moisture. Do not place the unit on an unstable surface or shelf. The unit may fall, causing serious injury to a child or adult as well as serious damage to the product. Do not place other equipment on top of the unit. Do not install near any heat sources such as radiators, heat registers, stoves, or other unit (including amplifiers) that produce heat. No naked flame sources, such as lighted candles, should be placed on the unit.

Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the unit. When a cart is used, use caution when moving the cart/unit combination to avoid injury from tip-over. This unit must be installed on a sturdy, level surface. Do not place in a sealed area such as a bookcase or in a cabinet.



WARNING - To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture. This unit must not be used near water or exposed to dripping or splashing water or other liquids. No objects filled with liquid, such as vases, shall be placed on the unit. In the event, switch off immediately, disconnect from the mains supply and contact your dealer for advice. The unit can be used in moderate climate.

Electronic audio components have a running in period of around a week (if used several hours per day). This will allow the new components to settle down, the sonic properties will improve over this time.

Grounding and polarisation

Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or third prong are provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Power sources

The unit should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power-supply to your home, consult your product dealer or local Power Company.

Power cord protection

The unit must be installed in a manner that makes disconnection of the power supply from the mains socket outlet (or appliance connector from the rear of the unit) possible. Where the power supply is used as the disconnect device, the disconnect device shall remain readily operable. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the unit.

Be sure to insert each power cord securely. To prevent hum and noise, do not bundle interconnect leads with the power cord or speaker leads.

Overloading

Do not overload wall outlets or extension cord as this can result in a risk of fire or electric shock. Overloaded AC outlets, extension cords, frayed power cords, damaged or cracked wire insulation, and broken plugs are dangerous. They may result in a shock or fire hazard.

Lightning

For added protection during a thunderstorm, or when it is left unattended and unused for long period of time, unplug the unit from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit from lightning and power-line surges.

Cleaning

To clean the unit, wipe its case with a dry, lint-free cloth. Do not use any cleaning fluids containing alcohol, ammonia or abrasives. Do not spray an aerosol at or near the unit.

Attachments

Do not use attachments not recommended by your dealer as they may cause harm to the unit. Only use the specified attachments/accessories with this unit.

Servicing

Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the unit, the unit has been exposed to rain or moisture, does not operate normally, or has been dropped. These units are not user serviceable, never attempt to repair, disassemble or reconstruct the unit if there seems to be a problem. A serious electric shock could result if this precautionary measure is ignored. In the event of a problem or failure, please contact your dealer.

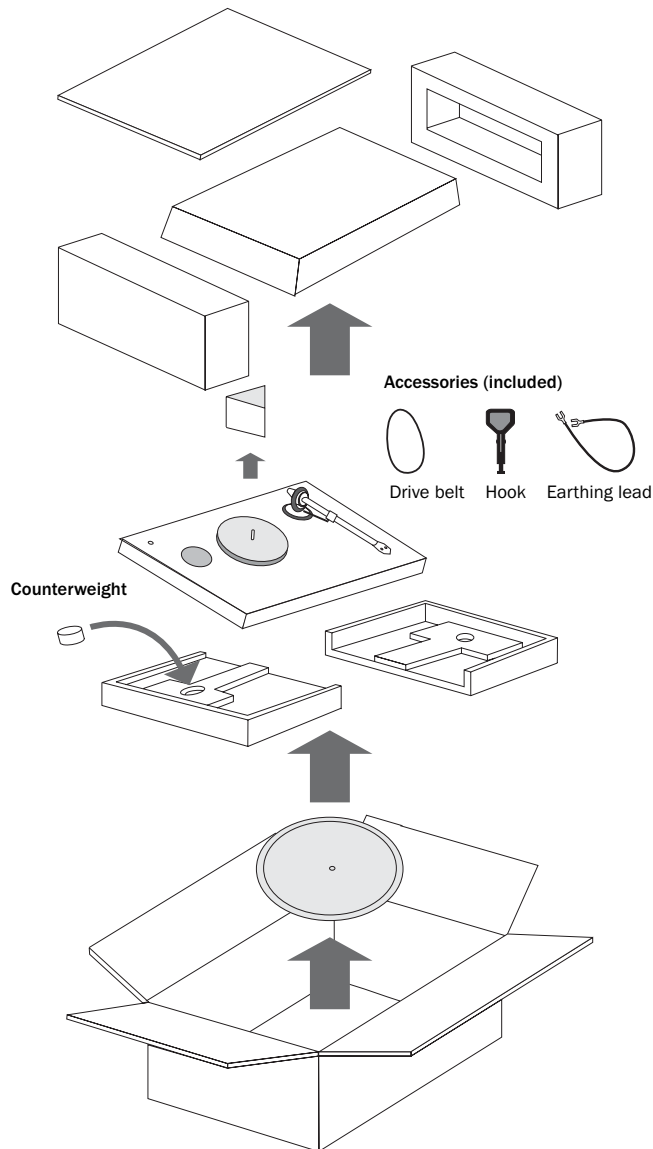
Contact the service department should any of these conditions occur:

- When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the unit.
- If the unit has been exposed to rain or water.
- If the unit does not operate normally after following the operation instructions, adjust only those controls that are covered by the operation instructions.
- If the unit has been dropped or damaged in any way.
- When the unit exhibits a distinct negative change in performance.

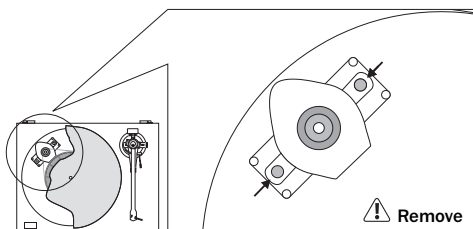
Assembly/setup

Before using your TT50 for the first time it is necessary to remove the transit screws and fit the drive belt, platter and lid.

Please very carefully remove the parts separately from the packaging.



1. First remove the two red transport screws which secure the motor during transportation.

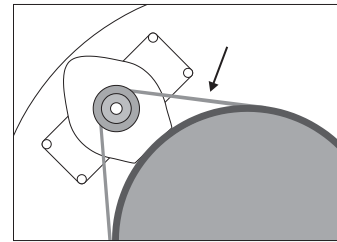


These protect the motor and its assembly by preventing it from moving around in transit. The screws must be removed before use to allow the motor to float on its suspension, this provides a level of isolation of between the motor drive and external vibrations and vice versa.

Retain the screws so that they can re-fitted should you need to move the turntable in the future.

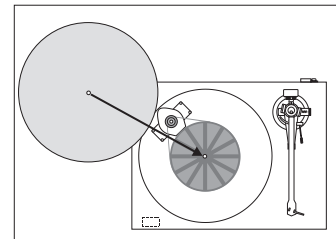
Note: A Philips screwdriver is required.

2. Next fit the drive belt around the sub-platter and the smaller diameter part of the motor pulley (for 33rpm use).

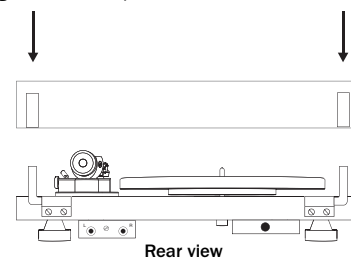


Note: It is very important to avoid getting sweat or grease on the belt as these will deteriorate the performance and reduce the belt's lifespan. Use absorbant kitchen paper to remove any oil or grease from the outer edge of the hub and the belt if necessary.

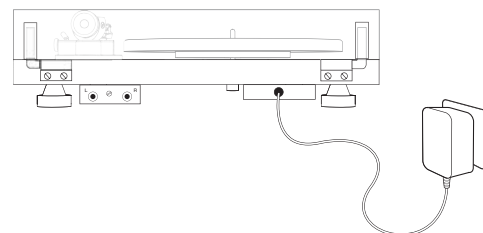
3. Fit the main platter over the spindle of the sub platter.



4. Fit the lid to the turntable, carefully over the hinge prongs and adjust the screws if necessary until the lid stays open where you want it to without being too stiff to open or close.



5. Connect the supplied power supply unit.



6. Connect the TT50 using a RCA/phono to RCA/phono interconnect lead to an amplifier with either an internal or external phono stage.

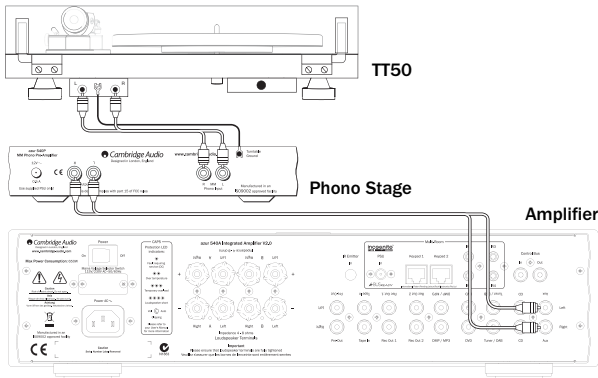
Always use the phono input (sometimes labelled Gram, Disc or RIAA) on your amplifier. Line inputs (such as CD, Tuner, Tape or Video) are not suitable. As the TT50 is supplied with a Moving Magnet type cartridge use either the input marked for MM phono on your amplifier, or switch your phono stage to MM mode.

The earthing wire of the tonearm lead should be connected to the earth terminal on your amplifier (if provided).

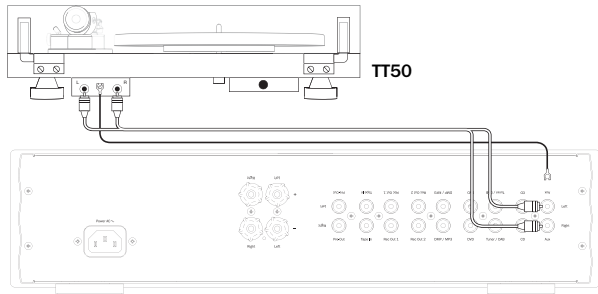
If your amplifier does not have an input suitable for phono cartridges you will require a separate phono amplifier stage such as our Azur 540P or 640P models which are then connected between the record player and a free line level input of the amplifier. For further information contact your Cambridge Audio dealer.

Assembly/setup continued

Connection using phono stage

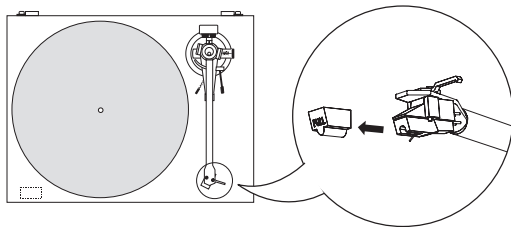


Connection using amplifier with built-in phono stage



Amplifier with phono stage

7. Carefully remove the protective cover from the supplied cartridge.

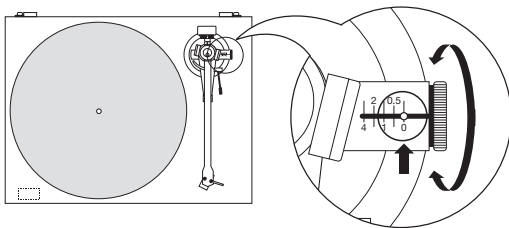


Cartridge downforce adjustment

The supplied counterweight is suitable for cartridges weighing between 3.5 and 5.5g.

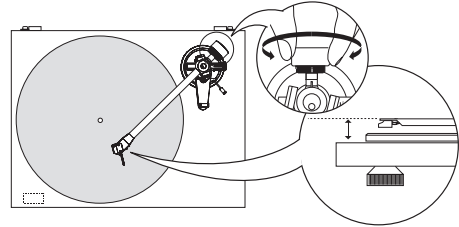
An alternative counterweight for cartridges weighing between 6 - 9g is available as an accessory part, contact your Cambridge Audio dealer if you need this part.

Before adjusting the downforce, first set the anti-skating adjustment to zero.

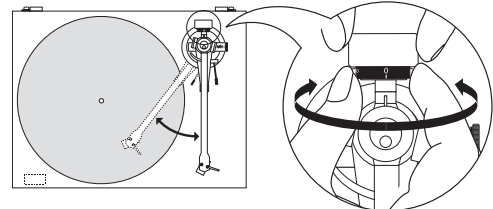


1. Gently push and turn the counterweight onto the armtube stub. Lower the armlift and position the cartridge in the space between arm rest and platter.

2. Carefully rotate the counterweight until the armtube balances out, i.e. floats horizontally parallel to the surface of the turntable. The arm should return to the balanced position if it is moved up or down. This adjustment must be done carefully. Do not forget to remove the cartridge protection cap if fitted.

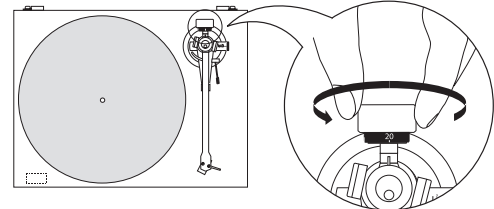


3. Once the arm is correctly balanced return it to the rest. Hold the counterweight so it cannot rotate and your setting is not lost, and gently revolve the downforce scale ring **only** until the zero is in line with the white line. Check whether the arm still balances out.



4. Now rotate the whole counterweight and scale ring together counter clockwise (seen from the front) to adjust the downforce according to the cartridge manufacturer's recommendations. One mark on the scale represents 1 mN (0.1g) of downforce.

Note: The recommended downforce for the factory fitted cartridge is 20mN / 2.0g.



Anti-skating (bias) adjustment

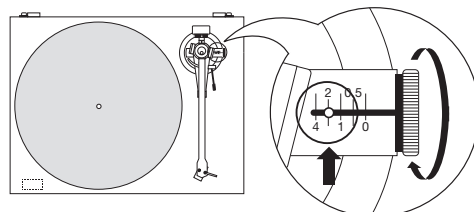
The TT50 features a magnetic anti-skate which applies a non contact force to the arm to counter-act the natural force applied by the record as the stylus is forced towards the center of the spiralling groove.

The anti-skate adjustment has been designed so that it is matched to the tracking force adjustment (higher tracking force requires higher anti-skate) and should be set to the same numerical value.

Setting the correct anti-skate ensures that the average pressure on both sides of the stylus is equal for best stereo separation and tracking ability.

Turn the dial anti clockwise to apply magnetic anti-skate so that the metal pin indicates the same reading as the downforce setting previously set.

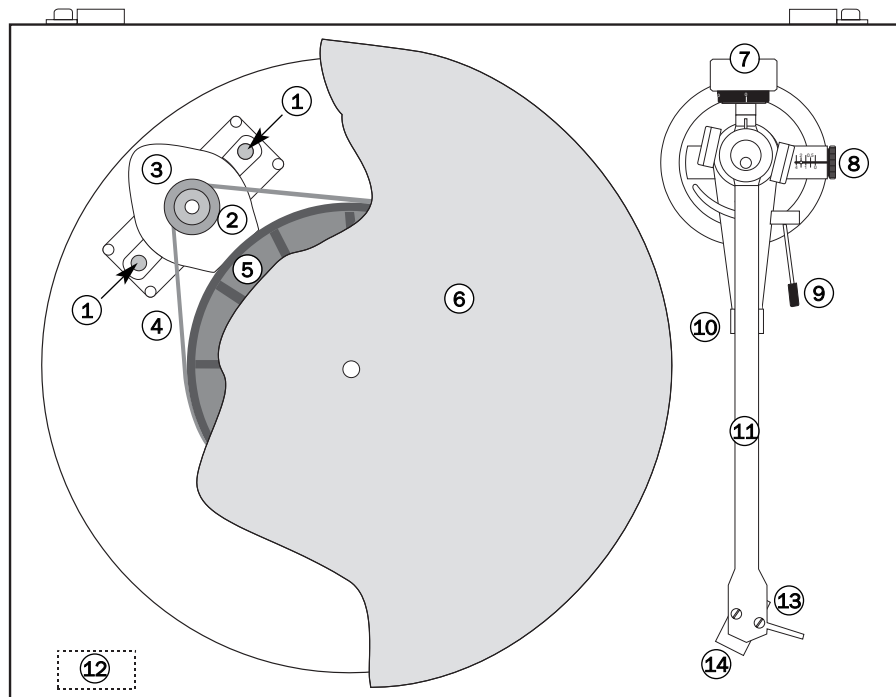
Note: The anti-skate for the supplied cartridge is 2.0g. This is not a critical setting and an accuracy of +/- 0.5g is usually quite sufficient.



Your turntable is now ready for use.

TT50 features

Top view



① Transportation screws

Marked red, to be removed before use. See 'Assembly' section for more information.

② Drive pulley

Two levels for 33rpm and 45rpm.

③ Motor

④ Drive belt

⑤ Sub platter

⑥ Acrylic main platter

Removable to allow changing speed by moving the belt on the pulley.

⑦ Tonearm counterweight

Used to adjust tracking force (downforce).

⑧ Anti-skate

Uses to adjust anti-skating force.

⑨ Tonearm lift lever

Raises and lowers the arm onto the record to be played.

⑩ Tonearm rest

⑪ Tonearm

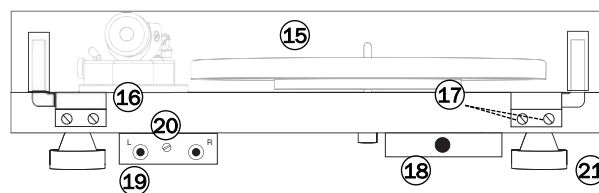
⑫ On/Off switch (underside)

Starts and stops the motor.

⑬ Headshell with finger lift

⑭ Fitted Audio Technica AT95E MM cartridge

Rear view



⑮ Lid

Turntable cover.

⑯ Lid hinges

⑰ Hinge fasteners

⑱ Power supply socket

The turntable is supplied with a 16V AC power supply suitable for your country's mains supply. Check the label before connecting to ensure compliance with the mains rating in your home.

Note: Connect the low voltage plug from the power supply to the socket on the rear of the record player before connecting the power supply to the mains.

⑲ Signal output sockets

The turntable must be connected to a RIAA/Phono Stage or Amplifier with built in RIAA/Phono Stage by a stereo RCA/PHONO lead.

⑳ Grounding terminal

Connect to the grounding/earth post of your Phono Stage/Amplifier.

㉑ Isolation feet

Operating instructions

Playing records

The TT50 is compatible with 33 1/3rpm and 45rpm records between 7" and 12".

Place the record over the spindle holding the record only by its outermost edge.

Before playing it is a good idea to clean the record using an appropriate cleaning brush designed specifically for use with records, we particularly recommend the type with soft carbon fibre bristles which also reduce static charge on the record surface.

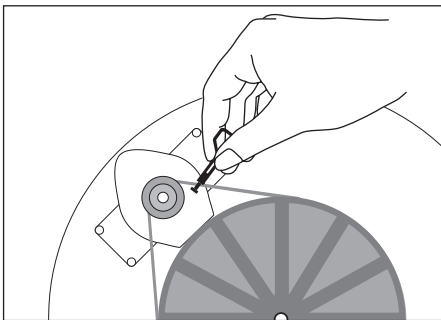
Move the arm so that the stylus is over the start of the record and then switch the motor on. Now use the tonearm lift lever to lower the stylus onto the record.

When finished lift the stylus from the record using the tonearm lift lever before turning the motor off. Return the arm to the tonearm rest.

Always return records to their sleeves to prevent dust from being collected by the record due to static attraction.

Changing replay speed

To play records at 45rpm first remove the platter, and using the accessory tool provided, hook the belt over the larger diameter part of the motor pulley. Refit the platter. To revert to 33rpm repeat the procedure using the smaller step on the pulley.



Maintenance and cleaning

Your record player requires little or no regular maintenance. Remove dust with a slightly moistened antistatic cloth. Never use a dry cloth because this will create static electricity which attract more dust! Antistatic cleaning fluids are available at specialist stores but must be applied sparingly to avoid damage to rubber parts. It is recommended to fit the stylus cover before cleaning or maintenance is carried out to avoid damage.

If the player is not used over a long period of time the drive belt can be removed to prevent unequal stretching.

Note: Always disconnect the record player from the mains power supply as a precaution before maintenance!

Cartridge replacement/adjustment

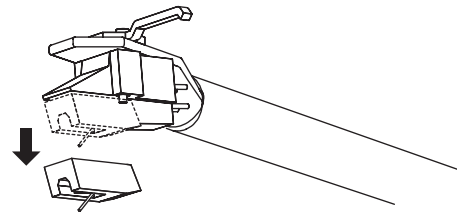
IMPORTANT!

The TT50 record player is supplied with a factory fitted and adjusted Audio Technica AT95E Moving Magnet cartridge fully aligned and setup at the factory. The following instructions for adjusting the cartridge are provided in case the cartridge is replaced by a different model at a later date.

It is not necessary to adjust the factory fitted cartridge.

The supplied cartridge has a lifespan of approximately 1000-1500 hours.

The stylus assembly is removable for servicing. To replace the stylus firmly grip the green plastic stylus assembly as shown and pull it downward, replace with part number ATN95E.



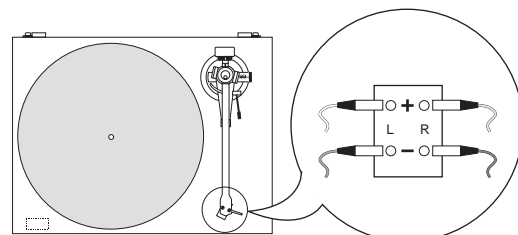
Fitting of a replacement stylus or whole new cartridge is best left to a dealer as the stylus and its cantilever are very fragile and adjustment of a new cartridge is somewhat fiddly.

Cartridge fitting

All cartridges with half inch mounting holes can be fitted. Leaving the needle's protection cover on, fit the cartridge to the headshell using the screws supplied with the cartridge by passing one screw through each slot in the headshell. Do not tighten the nuts yet. The supplied counterweight is suitable for cartridges weighing between 3.5 and 7g.

An alternative counterweight for cartridges weighing between 6 - 10g is available as an accessory part, contact your Cambridge Audio dealer if you need this part.

Connect the tonearm wires to the cartridge pins as follows.



Cartridge rear view

White - Left channel positive (L+)

Red - Right channel positive. (R+)

Green - Right channel return (R -)

Blue - Left channel return (L -)

Cartridge alignment

Because a normal tonearm pivots about its bearing point as it traverses a record, the angle between the cartridge body and record groove will gradually vary as the record is played.

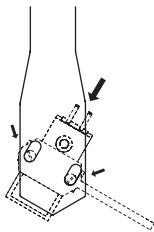
The idea of cartridge alignment is to minimise this inherent error. A simple alignment protractor is included in this manual to facilitate this.

Note: The TT50 is fully aligned at the factory for the supplied AT95E cartridge and does not require this adjustment to be made unless a new or different cartridge is fitted.

The supplied protractor allows the error to be adjusted out at two critical positions on the record surface (63mm and 120mm radius) in such a way that then minimises the error at all other positions. The protractor is simply cut out from the manual and placed on the turntable as described, a printable version is also available for download on the Cambridge Audio website at: www.cambridgeaudio.com/support.php

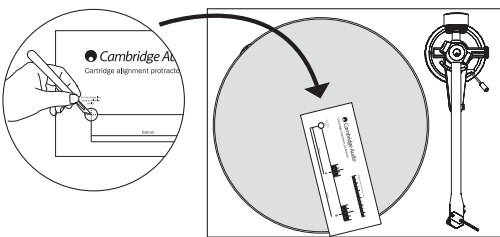
The procedure is as follows:

1. Move your cartridge to the front-most position possible in the headshell as shown.

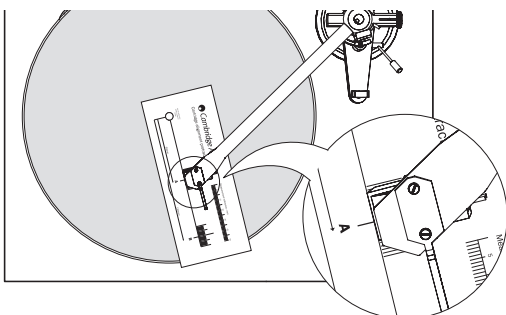


2. Using a scalpel or similar, cut the dotted line where the hole shown on the Alignment Protractor and place it over the turntable spindle. The Alignment Protractor is located in the 'Technical specifications' section of this manual.

The cartridge protractor can also be photocopied or downloaded from our website and printed. After copying/printing always check the mm measurement reference scale against a ruler which then makes sure your protractor is accurate. Copiers and printers can sometimes slightly distort the images they print, so if you find this to be the case make adjustments to the copier or print scaling and reprint until the scale is correct.

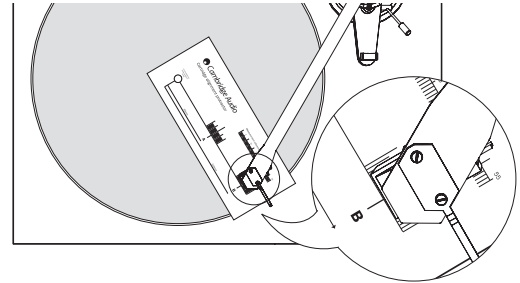


3. Turn the platter gently by hand so that you can carefully rest the stylus tip exactly on the cross at position A. Looking directly from above carefully rotate the cartridge body so that its sides are parallel to the protractor lines as shown.

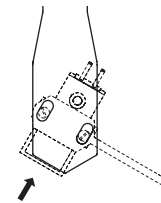


Note: Lift the tone arm before turning the platter to avoid damaging the the needle/stylus.

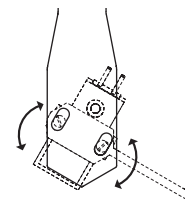
4. Now turn the platter by hand and place the stylus tip at position B. Again look directly from above to see if the cartridge body sides are parallel to the lines on the protractor.



5. If the cartridge body sides are not parallel to the lines on the protractor, move the cartridge body back in the headshell a little (a millimetre or so).



6. Lift the tone arm up and turn the platter by hand to go back to position A, realign the cartridge body so that it is again parallel to the lines on the protractor without moving it back or forwards in the headshell (i.e. try to rotate the body only).



7. Again lift the tone arm and turn the platter by hand then place the stylus tip back at position B. Again look directly from above to see if the cartridge body sides are now parallel to the lines on the protractor.

8. If not, move the cartridge body back in the headshell by another millimetre or so and repeat the procedure.

The idea is to find the position in the headshell front to back that allows adjustment of the cartridge so that its sides are parallel to the lines on the protractor at both positions A and B.

Cartridge downforce adjustment

Refer to the 'Assembly/setup' section of this manual.

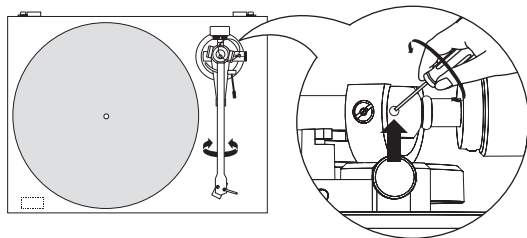
Cartridge replacement/adjustment continued

Adjusting the azimuth

The cartridge needle must be vertical in the record groove in order to trace the groove wall modulations correctly.

A small screw at the bearing end of the arm allows incorrect azimuth to be corrected if your needle is not mounted exactly perpendicular to the cartridge body (which can be the case).

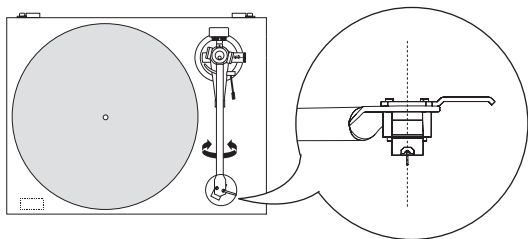
1. Slacken off the screw just enough to be able to revolve the arm tube without applying force.



Side view

Note: Do not remove the screw completely!

2. With the aid of a good magnifying glass adjust the needle until it is vertical in the groove (i.e. perpendicular to the record's surface). Ideally this should correspond to the top surface of the cartridge body being parallel to the record surface. When you are satisfied that the needle is vertical, retighten the screw carefully.



Under no circumstances should the arm tube be adjusted with the needle still in the record groove! Irreparable damage may be caused to the cantilever suspension! The arm must be lifted to make each adjustment and lowered afterwards to check it.

Anti-skating (bias) adjustment

Refer to the 'Assembly/setup' section of this manual.

Technical specifications

Turntable

Nominal speeds	33 1/3 or 45rpm
Speed variance	±0,8 %
Wow and flutter	±0,12 %
Signal to noise ratio	< -65dB
Downforce range	1.0 to 3.0g (10 - 30mN)
Effective tonearm length	218.5mm (8.6")
Overhang	18.5mm
Outboard power supply	16V AC @ 500mA. EU, UK and Canadian/US versions available
Power consumption	2W
Dimensions (W x H x D)	415 x 118 x 320mm, lid open 415 x 365 x 405mm, lid closed
Weight	5.5kg approx. unpacked
Tonearm mount	Standard 1/2"

Cartridge (supplied)

Model	Audio Technica AT95E
Type	Moving Magnet
Stylus	0.4 x 0.7 mil elliptical diamond on aluminium tube cantilever (replacement part ATN95E)
Lifespan	1000-1500 hours
Recommended load resistance	47kohms
Recommended load capacitance	100 -220 pF total (inc. arm lead)
Frequency response	20Hz - 20kHz +/- 3dB
Channel separation	> 22dB @1kHz
Channel balance	< 2dB
VTA	20 degrees
Tracking force range	1.5 to 2.5g (15mN - 25mN)
Recommended tracking force	2.0g (20mN)
Nominal output voltage	3.5mV (@ 1kHz, 5cm/sec)
Mass	5.7g

The cartridge protractor can also be photocopied or downloaded from our website and printed. After copying/printing always check the mm measurement reference scale against a ruler which then makes sure your protractor is accurate. Copiers and printers can sometimes slightly distort the images they print, so if you find this to be the case make adjustments to the copier or print scaling and reprint until the scale is correct.

Troubleshooting

The platter doesn't turn although the unit is switched on

The unit is not connected to the power supply unit.

No mains at the socket.

Drive belt is not fitted or has slipped off.

No signal through one or other channel or both channels

Possible Wiring fault. Check that there are connections from the cartridge to the internal tonearm wiring, and the turntable output to your phono stage/amplifier.

Phono input not selected at amplifier.

Phono stage not switched on.

Amplifier not switched on.

Amplifier or speakers defective or muted.

No connection to the loudspeakers.

Strong hum on phono input

No earth connection from turntable to amplifier.

Turntable or Phono stage placed too close to transformers or other generators of magnetic fields.

Distorted or inconsistent sound from one or both channels

Record player is connected to wrong input of amplifier.

MM/MC switch on amplifier incorrectly set.

Stylus/needle or cantilever damaged.

Wrong rpm used for record.

Drive belt overstretched or dirty.

Platter bearing without oil.

Bad connections, plugs not fully pushed home.

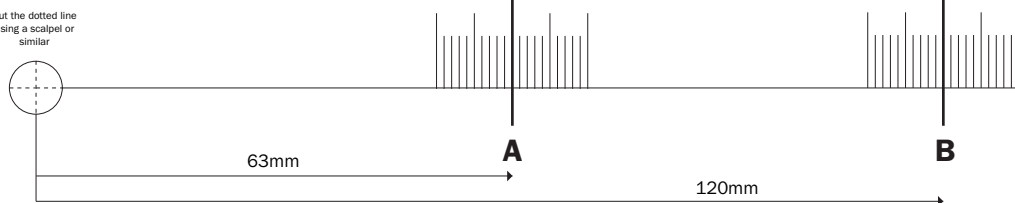
Tracking force and/or anti-skate incorrectly adjusted.

For more frequently asked questions (FAQs), technical advice and information on getting the most out of your TT50, please visit the Support section on Cambridge Audio's website:

www.cambridgeaudio.com/support.php

Cambridge Audio Cartridge alignment protractor

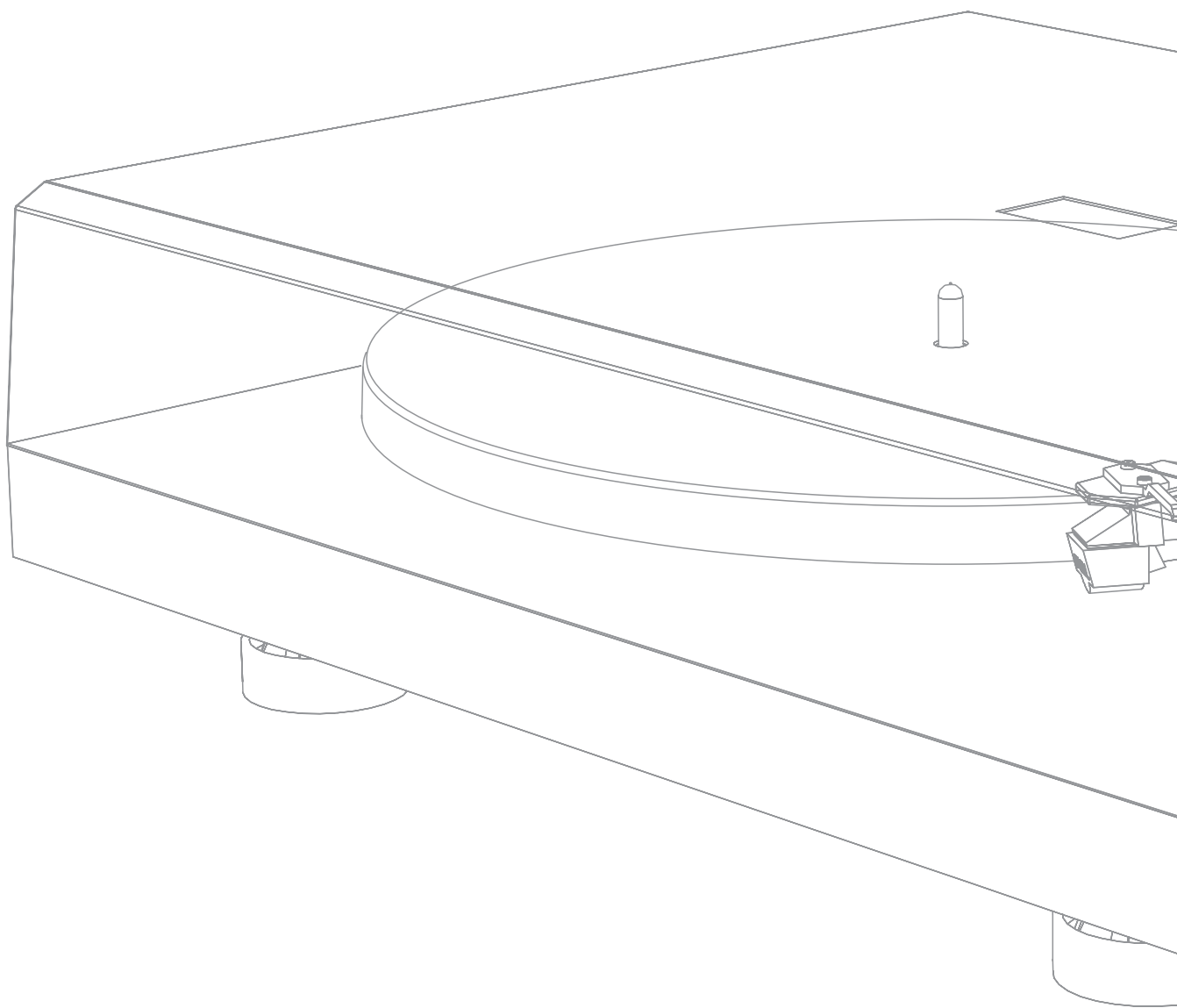
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