



Well Tempered Lab

INSTRUCTION MANUAL

Amadeus 254 / 254 GT

Preliminary

The Well Tempered Lab Amadeus 254 / 254 GT turntable is a William Firebaugh designed turntable, predominately conceived for use with the Well Tempered Lab LTD Tonearm.

The Amadeus 254 range of turntables feature a unique 2 piece plinth construction with squash ball isolation.

The Amadeus 254 GT has an aluminium top and bottom layer plinth whilst the Amadeus 254 features Bamboo. Both have multilayer plywood included in the plinth design.

Before embarking on the relatively simple process of assembling the Amadeus 254 / 254 GT, please take the time to fully read these instructions and follow the steps within. The old adage of "if all else fails read the instruction manual" needs to be applied from the onset. Well Tempered Lab cannot be held responsible for consequences resulting from the failure to comprehend these instructions. If in doubt always consult with your dealer.

Well Tempered Lab's policy is the continuous improvements of its products. We therefore reserve the right of departure from illustration or specification that this might occasion.

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Unpacking the Amadeus 254 / 254 GT

We recommend the use of the white gloves provided when handling the plinth and platter assemblies.

Take care that none of the fluids contaminate the finished surfaces of your Amadeus 254 / 254 GT.

The Amadeus 254 / 254 GT packaging has been designed to protect it from the hazards of shipping. It is advisable to save it for further use.

Important: Never place a Well Tempered Lab turntable in direct sunlight. Not only will it have detrimental effects on your valuable recordings, it will impair the mechanical integrity and performance of your turntable.

Assembly

For ease of assembly we recommend a flat work surface, such as a table or bench. All necessary tools have been provided.

Note: Instructions for installing the LTD tonearm are contained with the tonearm package.

Start by placing the bottom layer of the plinth on a flat surface. The adjustable feet on the bottom layer plinth provide for fine level adjustment. Place the squash balls in the recesses provided on the bottom layer and gently lower the top plinth onto the squash balls again aligning within recesses provided on the underside of the top plinth layer.

Installing the Platter

Please ensure that the point of the triangle hold in the upper teflon bearing is correctly orientated to the motor pulley. See Fig (1). If necessary consult your dealer.

Fill the bearing with synthetic oil supplied to a level of approx. 5mm (1/4") above the bottom Teflon bearing, this is not critical. Do not overfill. Over-filling the bearing will cause the oil to overflow the bearing housing when the platter spindle is lowered into the bearing housing. Gently lower platter into bearing. See Fig (1) - (2). It is most important that spindle is located correctly in the centre of the lower thrust bearing. Failure to locate the pivot point of the spindle correctly will cause the platter to rotate abnormally. The spindle has been designed to protrude through the platter to provide a central lifting point that enables the user to easily achieve this.

Important: The unique design of the zero clearance Well Tempered Lab top bearing allows the spindle to be virtually free standing. It is perfectly normal for the platter to tilt away from the motor when the belt has not been installed.

Should there be any necessity to replace the bearing oil, any synthetic motor oil of any brand within a viscosity range of 5W-50 is acceptable.

Note: The zero clearance Well Tempered Lab bearing can rotate for hours without oil. If you wish, you can complete other adjustments before applying the bearing oil. See Fig (2).

1. Motor
2. Spindle
3. Upper Teflon Bearing
4. Align corner of Upper Teflon Bearing to Motor

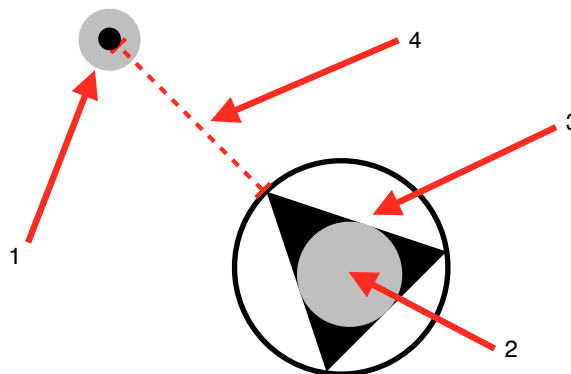


Fig (1)

Birdseye view of Amadeus 254 / 254 GT Turntable Bearing. (Not to scale)

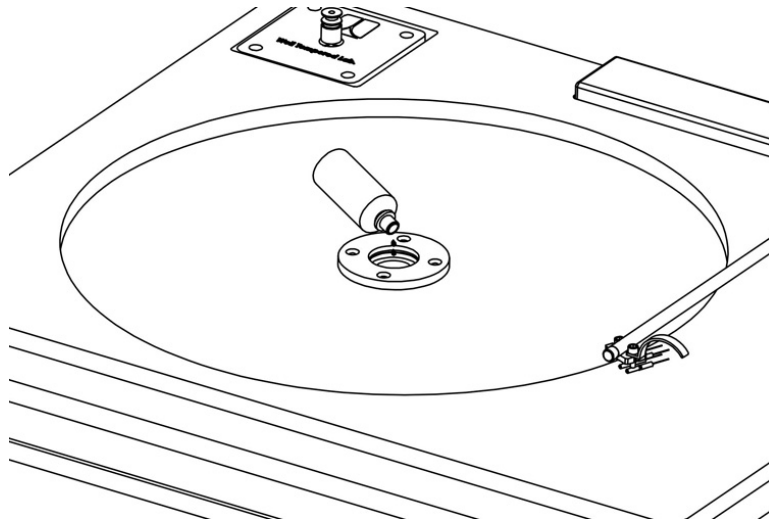


Fig (2)

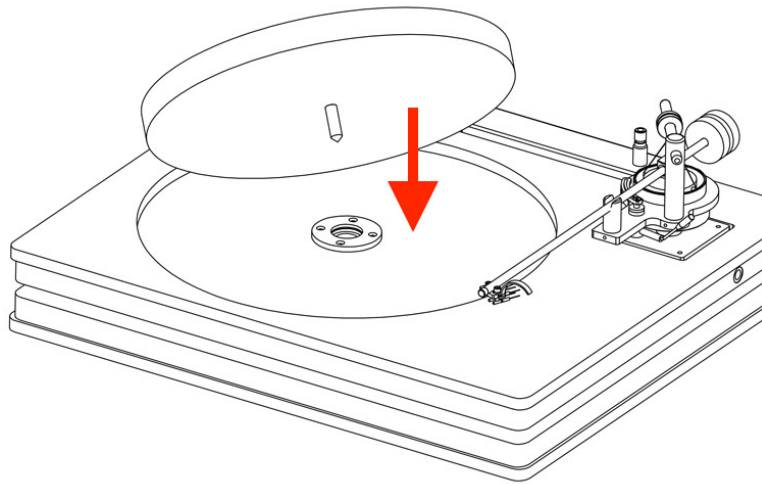


Fig (3)

Speed Control

The Amadeus 254 / 254 GT is supplied complete with the Well Tempered Lab Ctrl that provides both the power supply for the turntable and electronic switching between 33 1/3 RPM and 45 RPM.

Installing the Belt

Start with the belt around the motor pulley, take care the other end clears the centre spindle and rotate the platter, the belt will track around the platter. See Fig (4). Well Tempered Lab belts if dropped are easily misplaced, we give you two but suggest you place the belt on something dark to make it easily seen.

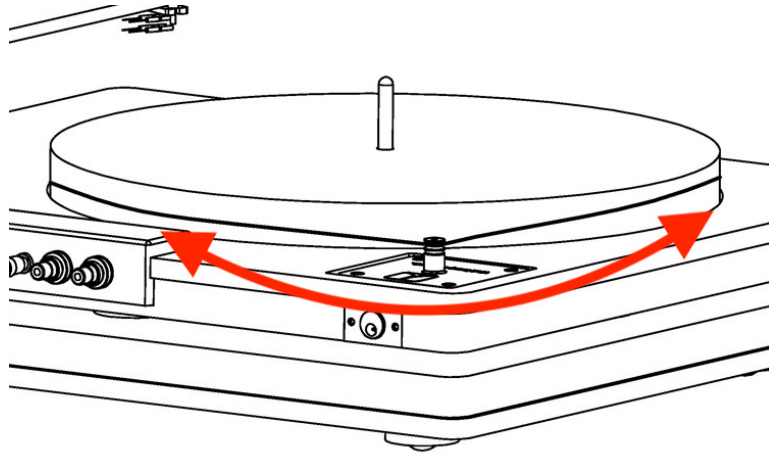


Fig (4)

Rear Panel

Both Phono and XLR (Balanced) outputs are available along with the DC input socket for use with the CTRL. An earth screw is also available.

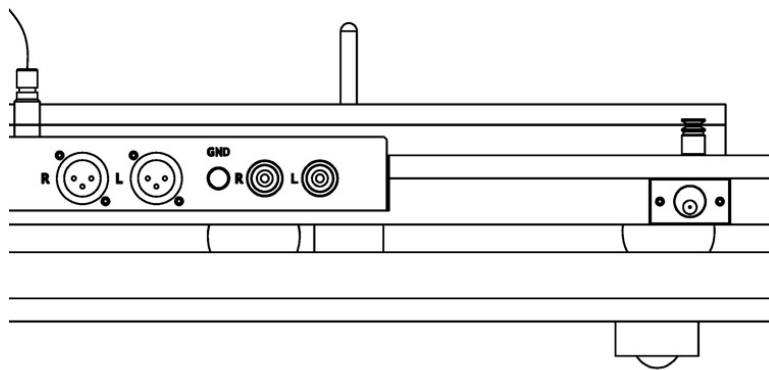
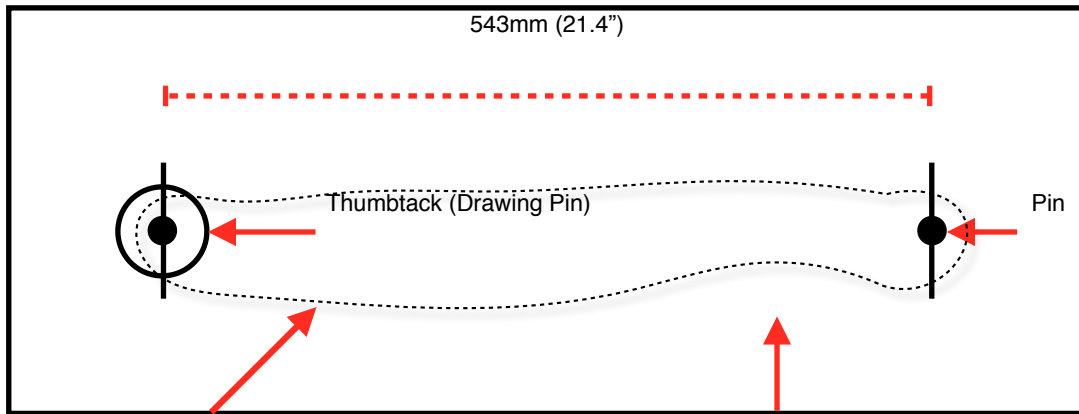


Fig (5)

Making a Belt

Loop a long length of .004mm polyester thread around the thumbtack. Tie a simple double overhand knot around the pin. Remove the pin and tighten the knot. Hold knot with thumbnail and pull on excess. Cut off excess leaving 10mm (minimum) tails.



.004mm polyester thread (White or Black). Black cardboard for White .004mm polyester thread.
White cardboard for Black .004mm polyester thread.

Troubleshooting

1. In the unlikely event that you wish to remove the Symmetrex tonearm, the golf ball can be lifted clear of the fluid, and left to drain. Surplus fluids may then be wiped from the golf ball with a paper towel.

2. Rubbing alcohol of 70% or above proof will remove all traces of fluid. All paper towels must be immediately discarded in a suitable receptacle. We also have it on good authority that Vodka of the highest proof can be pressed into service if rubbing alcohol is unavailable. Our chief designer also uses Ronsonol brand cigarette lighter fluid with excellent results. This is also known in some countries as white spirits or white gas. We suggest you first try cleaning fluid with caution and on the underside of the plinth. The Well Tempered Lab can bear no responsibility for damage caused by cleaning fluid.

3. Well Tempered Lab belts are easily lost. We recommend placing or hanging on a dark background, when not on the turntable.

4. For cartridges without threaded fixing holes we find it most convenient to attach the cartridge to the head shell in the slot closest to the platter. The other screw with the optional finger lift attached can then be passed through the head shell and remaining cartridge hole. A small "popsicle" stick or similar with a piece of double backed sticky tape on the end is invaluable. Just place the remaining cartridge nut on the tape at the end of the stick under the protruding screw and tighten.

Note: Some cartridges may necessitate the shortening of the Nylon bridle that suspends the Golf Ball. This can easily be achieved by the removal of one of the small plastic tubes that the Nylon passes through. Removal of this tube will allow excess nylon to be pulled through the tube when the correct height is obtained the tube can be re-inserted and the excess Nylon removed with a sharp craft knife. See Fig (7).

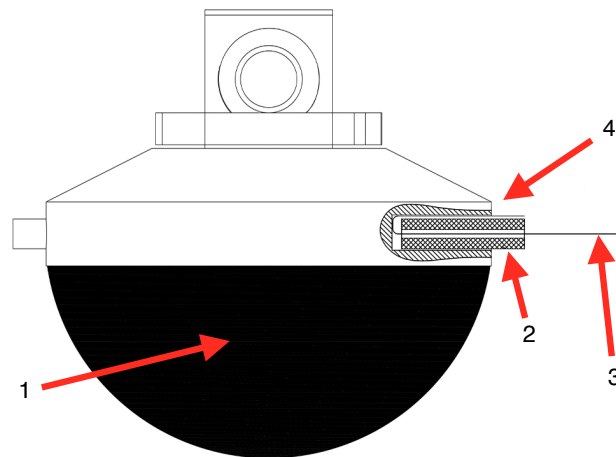


Fig (7)

1. Golf Ball
2. Tube
3. Nylon
4. Trim excess

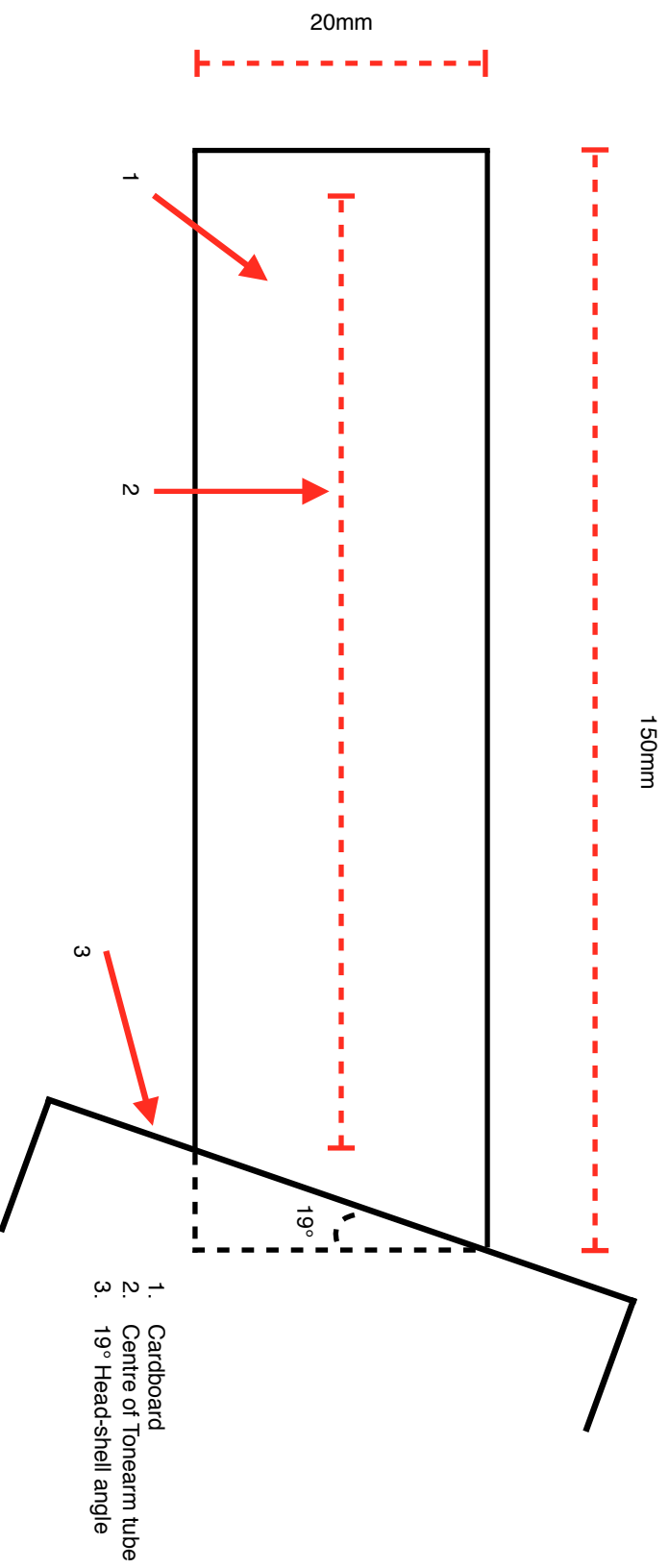
5. The Amadeus 254 / 254 GT motor has bearing tolerances that cause it to be noisy without the load of the belt and platter. It is sometimes possible during transit for the motor to shift within the isolating rubber mounting and vibrate against the motor mounting cover. This is easily remedied by gently moving the motor clear of the mounting cover plate.

6. If the platter rotates abnormally, please refer to page 3 "Installing the Platter" to centre the spindle.

7. **Important:** For optimum performance Well Tempered turntables require to operate on a flat and level surface.

8. When moving or shipping the turntable, we recommend the removal of the platter from the bearing assembly. Care must be taken as there will be a small amount of oil residue on the spindle. Care must also be taken to ensure the turntable remains level at all times to avoid spillage of fluids.

Head-shell Alignment Guide for Well Tempered Lab Turntables



Note: The Head-shell is factory fixed in position. Well Tempered Lab unequivocally reiterate that it should not be moved.

Heavy handed mounting of the cartridge may result in moving the head shell. In which case place the above guide with centre line parallel to tone arm tube and align head shell to 19° angle.

It will be necessary to gently but firmly retighten the small screw fixing the head-shell to the tonearm. **Do not over-tighten this screw.**

Specifications

Amadeus 254

- Platter
Acrylic Translucent
- Platter mat
Anti-static Foam
- Plinth
Dual multi-layer plywood central layer with Bamboo top and bottom layers
- Motor
Servo Controlled 12VDC completely decoupled from plinth.
- Power Supply
Separate 'Ctrl' Power supply - 12V DC, 500 mA, Centre Pin Positive
- Drive
.004mm Polyester thread
- Tonearm
Arm tube: 10.5" Aluminium arm tube with internal damping Symmetrex configuration
Azimuth Adjustment: Stainless steel collar
Suspension: Polyester thread providing anti-skate
Damping: Silicone fluid 100,000 cSt viscosity
- Dimensions (H x W x D)
195 x 480 x 410 mm, 290 x 615 x 565 mm (Shipping)
- Weight
11 kg, 15.5 kg (Shipping)

Amadeus 254 GT

- Platter
Acrylic Translucent
- Platter mat
Anti-static Foam
- Plinth
Dual multi-layer plywood central layer with Anodised aluminium top and bottom layers
- Motor
Servo Controlled 12VDC completely decoupled from plinth.
- Power Supply
Separate 'Ctrl' Power supply - 12V DC, 500 mA, Centre Pin Positive
- Drive
.004mm Polyester thread
- Tonearm
Arm tube: 10.5" Aluminium arm tube with internal damping Symmetrex configuration
Azimuth Adjustment: Stainless steel collar
Suspension: Polyester thread providing anti-skate
Damping: Silicone fluid 100,000 cSt viscosity
- Dimensions (H x W x D)
195 x 480 x 410 mm, 290 x 615 x 565 mm (Shipping)
- Weight
15.5 kg, 20 kg (Shipping)

