

## SETTING UP THE WELL TEMPERED CLASSIC

IMPORTANT: Arm assembly is delicate. Please read and observe instructions before installing arm.

You will need the following tools:

7/16" nutdriver (included) or socket wrench  
miniature screwdriver  
small long-nosed pliers or tweezers  
Well Tempered Lab protractor (included) or other similar device  
an accurate stylus pressure gauge  
3 Allen wrenches (included)

1. Install rubber feet in threaded bottom holes of base.
2. Install arm post in arm hole on turntable (see illustration). Screw on locknut and washer with nutdriver or socket wrench to tighten post. Do not over tighten.
3. Position table base so that motor hole is on the left as you face the turntable.
4. Level table base with bubble level. Small amounts of level adjustment can be made with the rubber feet which are threaded into the base.
5. Set arm assembly on post and install arm rest on base with the woodscrew provided. Make preliminary Vertical Tracking Angle (VTA) adjustment by turning setscrew in top of arm, with the Allen wrench supplied, until arm is

approximately level. Tighten VTA lock.

6. Put arm fluid in cup. Arm fluid is on bottom of foam arm box. Use nutdriver or socket wrench extension to push plunger. When fluid settles, paddle should be covered by 1 to 2 mm of fluid. Fluid for arm is very stiff. IMPORTANT: Arm and table fluid are not interchangeable.

7. Install terminal block on back of base with screws supplied.

8. Put fluid in turntable bearing cup. Cup should be approximately 5/8 full. The distance from the inner edge of the cup to the fluid should be approximately 7/8". Slide spindle into cup making sure bottom of spindle is resting on bottom bearing point. Fluid level must cover the top set of bearing points when spindle is in cup.

9. Thread power cord down through motor hole and out to the back of the turntable. Lower motor assembly into hole with switch facing left edge of base. Motor assembly should not touch turntable base at any point.

10. Place acrylic platter on spindle.

11. Put belt around platter and motor pulley. Make a 180 degree (half twist) turn in belt at pulley end. Top part of pulley is for 33 1/3 rpm and bottom part is for 45 rpm.

12. With fingerlift above headshell, mount cartridge in arm (see illustration). Be careful not to damage the cartridge wires and gold clips. Most cartridges have their own bolts. Bolts are supplied for those that do not.

13. Position arm (overhang adjustment):

- a. Slide protractor over turntable spindle.
- b. Turn arm assembly into position until stylus lines up with the edge of the circle drawn on protractor at point furthest from arm base. Cartridge body will be resting on spindle. (Loosen locknut if necessary.)
- c. Tighten locknut again if arm assembly is not firm, making sure not to alter arm assembly position (overhang).

14. Make preliminary tracking force adjustment. Make sure paddle in cup is fully settled and is not touching the cup edges. IMPORTANT: Stylus pressure must be measured with the stylus at the approximate level of the record surface.

15. Use protractor to adjust angle of cartridge so that cartridge is parallel at inner and outer lines on protractor when the stylus is placed on the points where the heavy lines cross. Adjustment is made by moving cartridge bolts in the holes in the headshell. It may be necessary to slightly readjust the overhang of the cartridge to obtain final adjustment of cartridge geometry.

16. Place a record on platter and tighten clamp. Adjust cartridge azimuth with black knob on top of the arm so that bottom front of cartridge is parallel with record surface. Observe reflection of cartridge in record surface. It will be necessary to readjust azimuth after arm settles in fluid.

17. Adjust VTA by loosening the VTA lock slightly and turning the set screw in the top of the arm post. The top surface of the cartridge should be approximately parallel with the record surface. You may experiment with different VTA settings. Make a pencil mark next to the O on the scale on the arm post as a reference point. When you have finished setting the VTA tighten the VTA lock firmly.

18. Adjust anti-skating with the small chrome thumbwheel on a blank part of a record. If the cartridge is properly aligned, very little anti-skating adjustment will be necessary. When the silver bars viewed from the top are closest together there is the least amount of anti-skating.
19. Check azimuth again. Do not over correct. Check tracking force again.  
IMPORTANT: The tonearm paddle must be given time to reach equilibrium in the tonearm fluid before final adjustments can be made. The paddle will tend to move a little each time the counterweight is moved so it is desirable to recheck tracking force after the paddle has stabilized again.
20. The damping can be readjusted for a particular cartridge by turning the anti-skate to the maximum position (arms spread apart) which will allow access to the screw which holds one of the strings. Loosen the screw and move the string in very small increments (about 1/32" at any one time). Readjust anti-skate and azimuth and recheck VTA and stylus pressure. Raising the arm assembly reduces the amount of damping. Listen to determine how damping change has affected sound quality and readjust if necessary. Every cartridge has an optimum damping setting. Too much will cause dull and undynamic sound while too little will cause sound to be thin or bright.

#### NOTES TO USERS OF THE WELL TEMPERED CLASSIC

- a. If speed is uneven make sure pulley, platter edge, and belt are free from finger oils and bearing fluid. Clean pulley, belt, and platter edge with rubbing alcohol if necessary.

- b. The record clamp should be tightened firmly but not so tightly as to reduce the downward pressure at the outer edge of the record.
- c. Moving Well Tempered turntables from one location to another is best done by keeping the turntable set up (after removing motor and belt) and on a level surface such as a car trunk floor. Place a soft cloth between platter and base to keep the platter from moving. If necessary the fluids can be drained and replaced. Use rubbing alcohol and soft paper towels for clean up.

If you have any questions or problems please consult your dealer, or call Transparent Audio, Inc. if there is no dealer in your area.