



Original Engineering  
WILLSON BERNESECH

## SETTING UP INSTRUCTIONS FOR THE WILSON BENESCH TURNTABLE.

These instructions are intended for the dealer. Setting up the turntable is straight forward but should be carried out by an experienced technician.

Before proceeding, inspect the turntable and accessories for damage. Check that the tools required are present in the box.

### TOOLS.

Syringe.

1 off 2mm Allen key. Motor mount adjustment.

2 off 3mm Allen key. Arm board bolt wrench.

This Precision equipment has been factory set and should only require fine tuning in order to install. In most cases there will be no need to change anything but should the need arise the instructions will guide you. Should there be any difficulties you should contact your dealer.

### **IMPORTANT.**

For your safety please read the following text carefully.

This appliance is supplied with a three pin mains plug for your safety and convenience. Where possible the plug is fitted with a three amp fuse. Should the need arise, the fuse should be refitted **only** with the correct value fuse.

### **WARNING.**

This appliance must be earthed.

Under no circumstances should you open the Power Supply. The Power Supply has been factory set and does not require any adjustment. Should the Power Supply require adjustment contact your dealer. All adjustments must be carried out by a suitably qualified technician.

The Power Supply has been configured for the country of use and the correct voltage is indicated on the base of the unit. Only connect to the correct voltage.

To prevent shock hazard, do not expose this product to any type of moisture.

### NOTE:

The Serial Number of the unit can be found inside the Turntable case and on the base of the Power Supply. For your convenience note this number below so that in the event of communication the Serial Number can be quoted. This will also serve as identification in the event of theft.

Any details given in these instructions are subject to change without notice.

## **1. Unpacking.**

Carefully remove the deck from its protective packaging. This should be retained with the box should the need arise for any future transportation.

Remove the bottom board by unscrewing the 3, 12mm nuts that hold the bottom board in place. The three foam pads should be removed from between the sub chassis and the top board of the plinth. A fourth foam collar should be removed from around the motor and the protective bag removed.

## **2. Fitting the tonearm.**

In order to fit the arm (Wilson Benesch or other), the turntable should be positioned horizontally. i.e. in the playing position such that with the bottom board removed you have easy access to the inside of the deck (A good idea is to lay the turntable across an equipment table that has had its top board removed). The arm collar is attached to the sub-chassis by four Allen cap screws. These screws can be found in the pack supplied with the deck. Note that the arm collar fits only one way. Tighten the screws diametrically opposite to each other. Care should be taken not to overtighten the screws, if in doubt the long part of the Allen key should be inserted in the screw and the short part used as the lever. There is nothing to be gained by overtightening the screws - except a broken sub-chassis!

The arm should now be fitted according to the arm manufacturers instructions.

## **3. Fitting the sub platter.**

The plastic cover protecting the spindle should be removed. Wipe spindle surface clean with the lint free cloth. Using the cotton bud carefully wipe the interior surface of the bearing. Extract a small quantity of oil from bottle and inject it into the bearing until the ball is just covered. Do not add any more oil. Using the cotton bud as a swab gently wipe the surface of the spindle with oil. Introduce the spindle to the bearing with the greatest care and support its weight whilst it falls under its own weight. Once the air inside the bearing is supporting the sub-platter gently spin the platter and leave it to settle in its own time. Do not be tempted to press the bearing down!

It is important that the utmost care be exercised when fitting the spindle to the bearing.

Note : the spindle may take a while to go fully down as air will be trapped. Be patient!

## **4. Setting the motor suspension**

Put on the gloves provided, and fit the belt to the sub platter. Carefully extend the belt around the motor pulley such that it lies in the middle of the curved part of the pulley.

The belt should be positioned such that it lies in a straight line around the sub platter and is roughly in line with the motor spindle. Adjustment of the suspension should not be necessary as it is factory set. However it will now be explained.

Should any adjustment be required then it should be carried out after the P.S.U. has been attached and the motor is in operation.

Three springs are used to isolate the motor from the plinth. When adjusted correctly the motor should be able to move freely within the confines of the suspension system. Check for movement after the belt has been wrapped about the pulley A further check should be made when the platter is being driven. Adjustments should be made if the belt does not run centrally on the curve of the pulley. The two springs furthest away from the platter have the greatest effect on the attitude of the motor mount. By turning the screws the belt can be adjusted. If the screw is turned clockwise it will depress the spring and cause the belt to ride higher or lower.

## **5. Setting sub chassis suspension.**

Place the main platter upside down on the sub platter. Adjust the suspension by rotating the collars at the bottom of the 12mm screws that point down inside the deck they should be adjusted such that the sub platter is approximately 3mm clear of the brushed aluminium top plate of the plinth and is parallel to it. The spring located at the back of the deck is the stiffest and this will cause the greatest change in the attitude of the system.

Whilst holding the collars the springs themselves can be turned to adjust the lateral position of the sub-chassis such that the sub-platter is clear of the motor mount The arm collar should be centrally located in the arm cut-out of the plinth when correctly adjusted. The chassis should also bounce freely when adjusted correctly. There should be no scraping noises during typical use.

To adjust the lateral stabilising spring simply unlock the system by turning the nut located beneath the circular black bracket which holds the yellow Kevlar strap. Rotate the bracket until it begins to tension the spring. At this point check that the sub-chassis is correctly positioned with reference to the position of the arm board being centred in the top plate hole. Adjust the sub-chassis springs to account for any deflections which should only be small. If it is not possible for the system to

be centred then this indicates that the lateral stabilising spring has been over adjusted.

Once this system has been carefully adjusted there should be no need for further adjustment and the system should remain stable for years.

## **6. Fitting the Power Supply Unit.**

The P.S.U. can now be attached. Ensure the P.S.U. is turned off before connecting or dis-connecting. Orientate the D connector correctly and push gently into the socket at the back of the deck. Tighten the jack screws lightly until resistance is felt, then push the connector once again until the plug is fully home. Nip the jack screws up but do not over tighten.

The power supply can now be switched on. The green L.E.D. will flash momentarily to indicate that the speed has not yet been attained. The L.E.D. will remain green unless the speed change button is selected. A red L.E.D. will then flash until stable indicating the turntable is now being operated at 45 r.p.m.. Check the operation of the P.S.U.

Check that the platter runs freely during the changes in speed and during normal use, i.e. placing and removing records from the platter.

When all these adjustments have been made and checked the bottom board can be re fitted and the turntable positioned on an equipment table. Place the Power supply at least 50mm away from the bottom of the turntable. It should also be away

from other electronic equipment to avoid possible interference. The arm can now be set up according to the manufacturers instructions.

## **7. Fitting the lid.**

The friction hinges should be screwed firmly to the back of the turntable case. The black screw located on the hinge itself can be adjusted to obtain the level of friction that you are comfortable with when operating the lid.

## **Equipment tables.**

The Wilson Benesch turntable and A.C.T. Tonearms are recognised as reference quality measuring devices capable of producing enthusiastically all varieties of music sincerely and with the minimum of colouration.

Seeing the system as a measuring device is an important step towards realising the importance of the system which supports the measuring instrument.

The Triptych support is the ultimate support table. It has been designed to work for the Wilson Benesch system and provides the ideal audio visual completion of the system. Providing that the surface onto which the table is as predictable then the system should operate perfectly. An unstable floor will not be suitable for this uncompromising design.

## **Systems fitted with Stage One. Equaliser / Head Amplifier.**

The Pre-installed system is fully protected and offers auto muting in the event of in advertent power disruption. The system enables full switching capability so as to facilitate careful matching of the system to the particular requirements of the cartridge. To adjust the switches simply move the turntable forward so as to gain access to the swivel plate. The switches located in the fully shielded housing can be easily adjusted with a small screw driver to the required specification of the particular generator in terms of capacitance and loading.

All systems are factory adjusted to suit the Wilson Benesch "Carbon" cartridge.

Although the complete Wilson Benesch system is seen as the ultimate conclusion to analogue reproduction all components are capable of being retrofitted by a suitably qualified dealer. All adjustments that are within the scope of the abilities of the end user are described in this document. Any other adjustments carried out by persons who have not been trained by Wilson Benesch may render all guarantees void. If in doubt consult your dealer who is trained and experienced in all aspects of the function of the system and will be pleased to assist you in achieving what the Wilson Benesch product is capable of delivering.

Please return the enclosed warranty card in order for the product to be registered. Failure to register may lead to invalidation of all Guarantees.

Thankyou for investing in a  
Wilson Benesch  
product.