

## **Motor Speed Controller Setup**

### **Introduction**

As a proud owner of a new Once Analog turntable, you would probably like to start enjoying your favourite vinyl right away. However, with just a little patience following the simple instructions given below, your system will be adjusted for optimum performance and stability.

Before being shipped, your turntable has undergone an initial 48 hour run-in period for the bearings, motor and speed controller. At the end of this time the pre-set speed controls were factory adjusted to their preliminary settings. When you first install your turntable it is recommended that the platter be operated for a few hours before checking or adjusting the speeds. After a further 48 hours of normal operation the bearings will be fully run-in and, if necessary, the final speed adjustments can be made.

### **Pre-Set Speed Adjustment Procedure**

This procedure applies to the adjustment of either the 33-1/3 rpm or 45 rpm pre-set speeds.

After the turntable has been installed and levelled, allow the platter to operate for a couple of hours (or more) at the selected speed. On the motor controller box front panel, turn the speed selector knob to the left (anti-clockwise) for 33-1/3 rpm or to the right (clockwise) for 45 rpm. Now place a record and the supplied strobe disc on the platter and engage the tone arm.

An appropriate light source is required to see the strobe pattern correctly. You may use a specialist digital LED strobe tool or an old style, mains frequency fluorescent lamp (not an electronic CFL). You will also need a small flat-blade (jeweller's) screwdriver to adjust the pre-set potentiometers (pots) on the rear of the motor controller box.

Place your strobe light near the relevant speed and frequency markings on the strobe disc.

Carefully insert the screwdriver into the access hole on the rear of the motor controller marked with the speed you are about to adjust.

Rotate the screwdriver slightly to engage the slot on the potentiometer. Very slowly turn the pot while observing the strobe disc. The pattern should appear to begin to move faster or slower in either a CW or CCW direction. If the pattern speeds up, reverse the direction of rotation of the screwdriver. The important thing to remember is to make only very small adjustments until the pattern slows down and becomes stationary.

Wait a couple of minutes until the platter inertia, motor feedback and controller electronics stabilise (you may need to place your tone arm back at the beginning of the record).

Repeat the process, checking the speed and making even finer adjustments until you are satisfied the pattern is not drifting.

The speed will now be locked and should only need re-checking or adjustment after the full run-in period.