MODIFYING THE MICHELL DC PSU FOR QUICK SPEED ADJUSTMENTS

Michell Engineering's DC power supply as used on the GyroDec, Gyro SE and TecnoDec turntables has an internal provision for fine speed adjustment via a precision twenty turn potentiometer. This comes in handy when fine tuning the speed on a new setup or if belt or pulley wear begins to affect the turntable's correct speed after many years of use.

The problem is that in order to access the internal adjustment, the power supply case must first be opened by undoing four screws on the underside. This is time consuming and inconvenient, especially if it needs to be done more than once. Below is a solution whereby the case is opened once, modified with an access hole, then closed. When reassembled, the hole will expose the adjustment screw through the side of the case.

To begin, unplug the PSU from both the AC mains and the turntable. Then undo the four Philips screws on the underside of the case and open the case slightly.

While lining up the base with the top of the case, make a mark with a pencil in line with the center of the blue adjustment pot as shown. Then mark a horizontal line exactly 6mm up from the bottom edge of the cover to intersect the first line. This marks the spot to drill a 9/64″ hole.

Open the case fully. It is best to start off with a 1/16″ drill bit, progressing to larger sizes to ensure the hole is correctly positioned and is not ragged. Be careful not to damage the PCB when drilling!

Re-assemble the PSU case being careful to replace the line cord's strain relief grommet so that it fits in the cutout meant for it. Do not force the case closed or you will crack it. Re-install the 4 screws.

To adjust the speed, insert a small blade type screwdriver through the case to engage the potentiometer. Speed is increased by turning clockwise. Use a strobe disc and a fluorescent light source to aid in your speed adjustments. Note that the speed is set ever so _slightly_ on the fast side at the factory to compensate for stylus drag.