

## DETAILED INSTRUCTION FOR RONDINE III SPEED CALIBRATION

If you notice platter rotation speed to be off it could be due to a number things. If your belt goes on and stays put, it probably is not stretched. If used a lot and over a long time, it could have been worn and become a little thinner. That would make it run slower by a very small amount. It could be the motor aging a bit. In most cases, re-calibration would be the answer. It probably would just be a tweak this way or the other.

If the speed becomes unstable, that is often due to the motor getting to the end of life. They need to be opened and the commutator and brush surface cleaned. It is not impossible, but requires care and technique. That will be covered in another paper.

This is how the calibration controls look with the cover off. They have square hole in the middle, not a screwdriver slot.



You should use a small screwdriver that just fits into the control's squarish center. If too small the screwdriver might not quite engage it. If too big it might not fit into it.

If you use a metal screwdriver, you want only the metal tip to touch the control and to not also touch the cover hole through which you are inserting the screwdriver. So put a wrap of tape around the screwdriver shaft.

We use non conductive tools like the below. They are not always easily found. On the left is an alignment tool found in some electronics parts stores. In the middle is a small, black tape wrapped screwdriver supplied with Shure phono pickups. On the right, we have small, 1/8" *jeweler's screwdriver* with a wrap or Scotch tape on the shaft.



The latter are often available in hardware stores. All you want to do is to be able to make a very small rotation of the control. Anything that works is OK.

Maybe getting a new belt would be a good starting point. If so, run the machine for a few hours prior to shipping. Then let it sit for about an hour. Then turn it on for a quarter hour; after which, begin the calibration.

Be aware of our Rondine IV LTD. It uses a much more reliable motor, and the speed controller is much easier to calibrate. We can upgrade a Rondine 3. to a IV LTD for cost of the Motor Replacement Kit + \$300 + shipping (2023). Be aware of the speed available; only six speeds, no half speeds.