

Re-Calibration of the Virtuoso to a finer setting

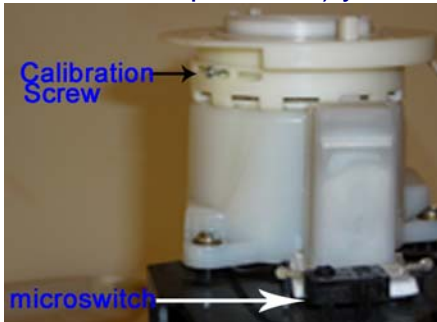
To remove the case of the grinder

The black sides/back and the top cast metal part unsnap from four small catches at the bottom of the black plastic sides. These snap features are slightly visible along the sides of the grinder. Locate the 1/16 inch gap between the metal base and the black plastic side panels. About ½ inch from the front and back of the grinder, you can see a small slotted recess on the bottom edge of the black side panel. The trick is to insert a flat blade screwdriver into the slot and gently pry outward and upward. Begin with the slot near the rear, and then gently pry the forward slot. Now switch sides and do the same procedure on the opposite side of the grinder. **ONLY** after all four snaps are released will you be able to see much upward movement of the side panels. You may need to come back to the side you started on and gently pry one more time before the case will totally release. Slide the case up and off the top of the base of the grinder.



Resetting the Calibration

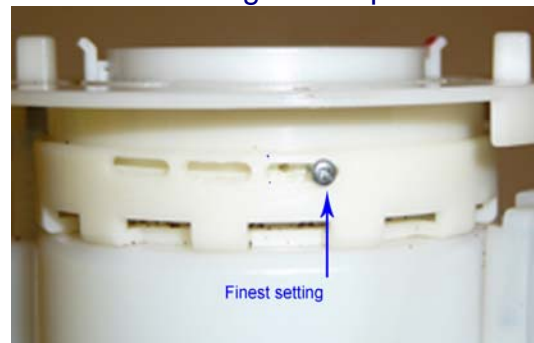
Make sure the ring burr is properly in place in the grinder. Rotate the grind adjustment (the white ring on the very top of the grinder) all the way **clockwise** until it stops (finest setting). Turn the grinder so that the front is facing you. Locate the front microswitch. To the left, below the adjustment ring (about ½ inch below top surface) you will see a VERY small Phillips head screw, located in



an elongated horizontal slot. The part with the elongated slots is called the Calibration ring. Using a #0 Phillips driver, remove this screw. You will notice there are two small holes behind the slots. (The part with the two small holes is called the adjustment ring). Your current setting probably has the holes in the left slot. To recalibrate you will (with the grinder running) rotate the calibration ring **clockwise**. It is VERY

IMPORTANT that you keep a close watch on the holes during this step. The hole that is furthest to the right must NOT go beyond the right edge of the right slot.

Rotate the calibration ring clockwise until you just begin to hear the two burrs touch each other OR until the right hole reaches the right edge of the right slot, whichever comes first. At this point insert the screw into the hole that is nearest the end (either end) of the slot. Tighten the screw but not too tight!



Re-assemble the grinder

Now you are ready to re-assemble the case to the base. Rotate the grind adjustment all the way counter clockwise until it stops. Grab the case (sides and top casting) and turn it over to look at the under side of the black Pulse button. Insure the button is correctly inserted with the rubber notch lined up with the metal tab. Press the button so it is firmly seated. Slide the case down over the base until you're within $\frac{3}{4}$ inch of being all the way down. At this point, put forward pressure on the metal top so that you maximize the clearance between the back of the rubber button and the top edge of the front micro switch. It is possible for the flange on the rubber button to catch on the micro switch...not good...if this happens you'll need to slip the case off again and give it another try. As you carefully push the top/case down over the base, push down firmly to insure that all four snaps connect. Reach under and just behind the top casting just below the pulse button. Lift up on the plastic "roof" of the bin compartment (right behind the metal lip) about $\frac{1}{4}$ inch. The purpose in this step is to properly align the rubber button with the micro switch. Test the pulse button by pushing on the lower half of the button; you should hear a faint "click" of the micro switch. Install the bean hopper with silicon bean gasket. Install the grounds bin.

You're DONE!!

I would recommend you do your first espresso shots at a setting 7-8. Adjust finer if needed