Branson 5510 Ultrasonic Cleaner “Bert” Operating Instructions

1. The power to the ultrasonic cleaner is usually left on; if it is not on, turn on the power with the switch at the left side of the display panel.

2. Make sure that the cleaning fluid level is at or above the operating level indicated by the black line at the back of the tank. (This line goes through the top set of holes on the basket.)
   - If there is insufficient fluid, make a note of how low the fluid was (in cm) in the log book, and add DI water until the fluid reaches the operating level.

3. Add samples to the boats. Lift the basket out of the tank and place it in the sink to make it easier to add samples. Place 1x1’s or 2x2’s of 1737 glass in the white boat. Place ITO coated glass or any other special substrates in the blue boats. Make a note in the log book of the identity of anything added to a blue boat. Substrates in the blue boat belong to someone, so don’t remove them, unless they belong to you (then please remove them if you don’t use them). Substrates in the white boat belong to anyone, just replace what you use.

4. Degas the fluid. Press the <select option> button until the indicator light next to <set degas> lights up. Then use <set display> to increase the time for degas, or <clear display> to set the time to zero. The usual time for the degas cycle is 5 min. Press the <on/off> button to start the degas.

5. Ultrasonic cleaning.
   - Start the heater. Press <select option> until the indicator light next to <set temp> lights up. Use <set display> to increase the temperature, or <clear display> to set the temperature to zero. The usual temperature is 45°C. Press the <on/off> button to turn on the heater. Then press <select option> until the indicator light next to <solution temp> lights up and wait until the solution temperature reaches the set temperature.
   - Set the sonics. Press the <select option> button until the indicator light next to <set sonics> lights up. Then use <set display> to increase the time for the sonics, or <clear display> to set the time to zero. The usual time for the ultrasonic cycle is 30 min. Press the <on/off> button to start the sonics.
   - **Turn off the heater.** When the ultrasonic cycle is finished, the sonics will turn off automatically, but the heater **will not**. When the sonics have finished, press <select option> until the indicator light next to <set temp> lights up. Press the <on/off> button to turn off the heater.