Continuous Wave of Condensation Technique™
Developed by Dr. L. Stephen Buchanan

1. Fit the master cone (in a wet canal) to full length. Grab it at a right angle to the reference point with cotton pliers and trim the tip to be .5mm’s short of full working length.

2. Pre-fit a System B Cordless Pack Tip in the canal and adjust the rubber stop to the reference point. Compare the fit plunger to the fit cone to determine the depth of the plunger in the canal – ideal is 4-6mm from the terminus.

3. Coat the cone with sealer and slowly place it to length in the canal pumping it up and down 2-3 times.

4. The System B Pack device can be used with both gutta percha and Resilon. The device heats the tip to 200°C. The green setting is for small tips (XF, F, FM). The orange setting is for large tips (M, ML).

5. Using the System B Pack, sear the cone off at the orifice level.

6. Select the appropriate size Buchanan Hand Plunger, and using the stainless steel end, firmly condense the gutta percha at the orifice.
Set the Pack tip on the cone; activate the heat, and downpack, releasing your finger from the operating switch shy of the binding point and maintaining apical pressure for 3 seconds.

Activate the heat switch for a 3 second separation burst, pause 1 second and remove the device.

Select the appropriate Buchanan hand pluggers, and using the NiTi end, condense the apical mass on the side walls.

Lightly place more sealer in the backfill space with the tip of a paper point.

The System B Fill uses both gutta percha (200°) and Resilon (180°).

Place the System B Fill needle in the canal short of the condensed fill, wait 5 seconds for the needle to reheat. Backfill the canal ½ way. Using the NiTi end of the Buchanan hand pluggers, condense the fill.

Re-insert the needle, wait 5 seconds for it to reheat, backfill to the canal orifice.

Select the appropriate Buchanan hand pluggers and, using the stainless steel end, condense the coronal fill.

Finally, if using Resilon, light-cure for appropriate time.