

- 1) A non-standardized (FM, M, ML) gutta-percha cone is fitted to within 1mm of the working length
- 2) A Buchanan Plugger is chosen according to the gutta-percha size. If a size medium cone was fit, a medium plugger should be used. The tips of all the pluggers are 0.5mm in diameter and should fit to within 4-7mm from the apical terminus. Prefit the plugger to verify that its' binding point in the canal is between 4-7mm. Place a silicone stopper to mark the plugger.
- 3) Dry the canal and cement the cone in place.
- 4) Set the Obtura II at 200°C. Place the heated tip at the orifice and sear off the coronal portion of the cone while injecting the thermoplasticized gutta-percha into the canal . Inject approximately 2-3 mm of the material. Condense the gutta-percha with a Schilder plugger (choose a plugger sized slightly smaller than the orifice). This will create an orifice plug that will maximize the hydraulic pressure during the downpack.
- 5) Turn the system B heat source on to the “use” and place it in the “touch” mode. Set the heat at 100 °C and the power on maximum. This low temperature setting will allow the gutta-percha to thermoplasticise without burning. Hold the button on, drive the preheated plugger smoothly through the gutta-percha until you reach within 3-4mm of the binding point. You will feel an increase in resistance to your downward push or the tip may even stop. This will take approximately 2 seconds. Release the activation ring.
- 6) At this point, have your assistant immediately turn up the temperature to 300 °C. Activate the heat and apply pressure to push the plugger to the binding point. Then quickly withdraw the plugger. This “separation burst” will take about 1.5 sec. The heat is turned up to 300 °C to plastize the gutta-percha in the most apical portion of the canal.
- 7) Using a Dovgan plugger that fits within 3 – 5 mm of working length, apply pressure while tapping (up-down packing motion) and condense the gutta-percha for a few seconds. As the material cools, stop condensing and apply apical pressure for about 10 sec. This will prevent the material from shrinking.
- 8) The canal is now ready for the backfill. We recommend backfilling using the Obtura II thermoplasticized gutta-percha injection system. This can be accomplished by injecting small aliquots of gutta-percha (2-3mm) into the canal and vertically compacting with a plugger. This is repeated until the whole canal is obturated. If Obtura II is not available, any other technique can be used.