

# CLINICAL STEPS FOR COMPLETION OF PASSIVE-FIT IMPLANT-BORNE BRIDGE (IBB) FRAMEWORKS

*A comprehensive step-by-step appointment sequence*

## Completed Implant Borne Bridge



## APPOINTMENT #1

### Preliminary Impressions

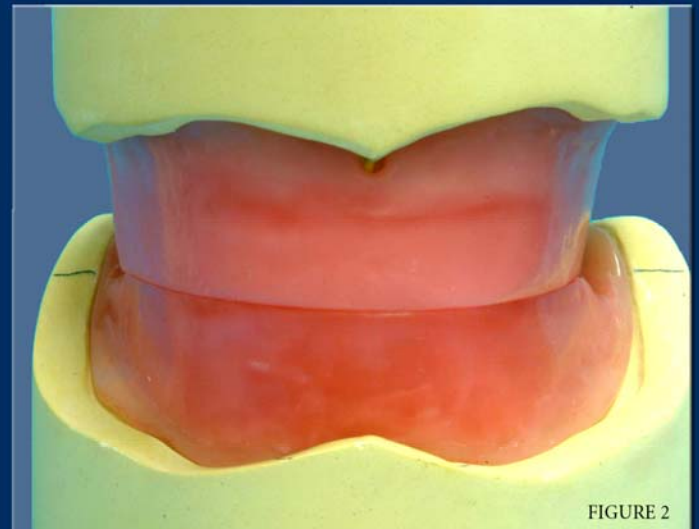
1. Patient presents with implants healed-in and healing abutments in place.
2. Make a well extended alginate impression that includes retromolar pads, hamular notches, and buccal and labial vestibulae (Figure 1).
3. The preliminary cast will allow the construction of a custom tray.
4. Allow 4 days in-laboratory for the construction of the custom tray.



## APPOINTMENT #2

### Master Impressions

1. Record an implant level impression with an open DAL custom tray.
2. Allow 4 days in-laboratory for pouring master cast with analog, fabrication and bite rim.



## APPOINTMENT #3

### Occlusal Rim / Patient Records

1. Place the DAL occlusal rim and record bite registration. Adjust rim to represent horizontal, mark the midline and ala lines, and select shape (Figure 2).
2. Supply any other patient photos or study model records.
3. Allow 4 days in-laboratory for the construction of the diagnostic set-up (wax try-in).

## APPOINTMENT #4

### Try-In / Set-Up

1. Place the (multiple-implant) stabilized diagnostic set-up and confirm esthetics and function (Figures 3 & 4).
2. If required, record lateral/protrusive check bites for adjustable articulator mount.
3. Allow 4 days in-laboratory for the construction of the custom milled abutments, transfer telescopes, IBB framework and seating guide.



## APPOINTMENT #5

1. DAL delivers for each implant:
  - A custom milled Titanium or high noble abutment (Figures 5A & 5B)
  - An outer transfer telescope (Figure 6)
  - An IBB framework (Figure 7)
  - An acrylic delivery/seating guide template for abutments and transfer telescopes (Figure 8)
2. Torque abutments into position aided by the delivery/seating guides.
3. Place transfer telescopes onto abutments completely (Figure 9).
4. Try-in IBB framework. It should fit loosely over all transfer telescopes. **If needed, adjust inside of framework recess to clear telescope wall.** Use framework handles.
5. Remove IBB framework and clean with alcohol.

Prepare for composite or acrylic luting of the fully seated, free-standing transfer telescopes into the IBB framework.

A. This is accomplished by painting a thin coat of adhesive bonding material on the outer aspects of each free-standing transfer telescope and the inner (recess) surfaces of the IBB framework (Figure 10).

B. Mix equal parts of dual cure luting resin (catalyst and base if necessary) or you may use a light cure resin. Note: Dentin build-up material works well.

6. Place IBB framework over all abutments with finger pressure. Watch excess composite escape from recess vents and assure framework fit to oral tissue.
7. Observe composite or acrylic curing cycle.
8. Use framework handles to remove the IBB framework from abutments with transfer telescopes luted into the IBB framework.
9. Send the IBB assembly and abutments to DAL for final processing.
10. Allow 15 days in-laboratory for the construction of the gold telescopes and the premium process and finish.

**DO NOT RE-SEAT THE FRAMEWORK**

## APPOINTMENT #6

1. Place all abutments and torque them in place as prescribed by the implant manufacturer.
2. Seat the IBB and let the patient exercise placement and removal. Dry gauze may help the patient to remove the prosthesis with more ease. If necessary, create small buccal fingernail notches in base material.

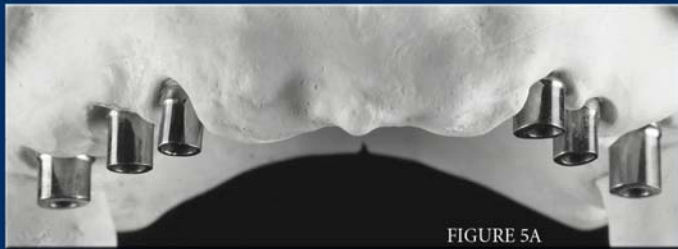


FIGURE 5A



FIGURE 5B



FIGURE 6



FIGURE 7



FIGURE 8



FIGURE 9



FIGURE 10

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