Impression Taking Techniques

One of the many benefits of tcs® Unbreakable is that little to no tooth preparation is needed. The laboratory only needs a good alginate impression (poured promptly), a counter model and the bite registration.

*TCS recommends a lightweight alginate material for impression taking, however, irreversible hydrocolloid, polyvinyl siloxane and polyether impressions are also suitable.*

- An accurate impression is the first step and is key to the success of a tcs® Unbreakable partial. If an alginate impression is taken, promptly pour it up using lab stone. Then take a counter-impression and a bite registration.
- Examine the impression. The impression should have all the anatomical details for a successful tcs® Unbreakable partial. Also check for voids and air bubbles.
When Completing the Lab Slip …

Be sure to request tcs® Unbreakable by name, and don’t forget to include the gum shade as well as the tooth shade.

Request a FREE shade guide.

**tcs® Unbreakable is available in four shades:**

- Light Pink (Shade 1)
- Standard Pink (Shade 2)
- Light/Dark Pink (Shade 3)
- Dark Pink (Shade 4)  

Ethnic shades
Insertion Techniques

- Examine the partial carefully on and off the master model and check the path of insertion.
- Submerge the tcs® Unbreakable restoration in very hot tap water for approximately one minute.
- The Hot Water Treatment is very important as it allows for a smooth initial insertion and a good adaptation with your patient’s natural tissues.
- When the partial cools to a tolerable temperature, gently insert it into the patient’s mouth.

To ensure you are receiving a genuine tcs® Unbreakable appliance, be sure you receive your appliance in a tcs® branded plastic bag along with a tcs® Unbreakable Patient Care Pamphlet and that tcs® Unbreakable is indicated on the bill.
**Adjustment Techniques**

If the patient feels pain when biting down (possible reasons):
- Open bite: check the occlusion and reduce the occlusion accordingly
- Overextended flange: reduce the flange accordingly

*Most of the time this will take care of the pain.*

If the patient senses discomfort due to tightness of the clasp, the clasp may be loosened slightly by submerging that part in hot water for approximately 30 seconds, removing it and gently bending the clasp outward while holding it underneath running cold tap water. Following the same procedure but bending the clasp inward can also tighten the clasp.

There are a variety of burs that are specifically designed for thermoplastic materials. *See page 20, “Tools for Your Practice.”*
Adjustment Techniques (Continued)

- Set your hand piece on a low speed (32,000 to 35,000 rpm) and use fast, light scraping back and forth movements to reduce area. Do not keep bur in one spot, be sure to keep it in constant motion. Do not use too much pressure as this may burn or distort the restoration.
- Do not use the tools that are normally used for conventional removable dentures and partials as they may not be effective on thermoplastics.
- Rubber wheels or points are ideal for making small adjustments and/or smoothing after adjustments have been made. Usually the brown rubber wheel/point will leave the case smooth and shiny and it will not be necessary to re-polish.
- If there are threads remaining, these can be removed with a sharp blade, we recommend the tcs® Carving Knife.

Adjusting tcs® Unbreakable is easy with the proper tools and techniques. See page 20, “Tools for Your Practice” for recommended tools.
Preparation for Adding Teeth

The laboratory will utilize either a welding technique (for small modifications) or an injection technique (for larger modifications and retentive additions).

- Be sure the partial is free of any pastes or adhesives before taking the impression.
- An alginate impression is taken with the partial in the mouth.
- Remove the impression from the mouth with the partial in the impression.
- Be sure the partial is fully seated in the impression material.
- Immediately pour the model with regular yellow stone.
- DO NOT separate the partial from the stone model.
- Forward to the laboratory with instructions.

When you receive the case from the laboratory, follow the Hot Water Treatment for re-insertion. See page 10, “Insertion Techniques.”

“Quality is important to me and my patients. I make sure my lab uses tcs®”
Care for tcs® Unbreakable Partials

*tcs® Unbreakable partials are very easy to care for.*

In order to keep them looking and feeling like new, please have your patients follow these simple recommendations:

1. Continue to brush natural teeth and gums as directed.
2. Clean the restoration daily. Simply rinse restoration under warm running water in order to remove any food particles prior to soaking it in the denture cleaner.
3. With a very soft denture brush, brush restoration using water only. Rinse again.
4. Place restoration in tcs® Concentrated Denture Cleaner for at least 30 minutes per day.
5. Keep restoration in water or tcs® Concentrated Denture Cleaner when not wearing it.
6. DO NOT use bleach, toothpaste or similar cleaning products as these may scratch or discolor the surface of the restoration.

*Please provide the patient the tcs® Unbreakable Patient Care Pamphlet.*
Tools for Your Practice

**tcs® Unbreakable Sample Case**
Allow your patients to see and feel an actual tcs® restoration.
(Item #4011-01 ea.)

**Green Mounted Stone**
Ideal for chair-side adjustments.
(Item #4501-01 box of 100)

**Rubber Points**
Ideal for making minor chair-side adjustments.
Small Rubber Point (Item #4511-01 ea.)
Large Rubber Point (Item #4510-01 ea.)

**Doctor Adjustment Kit**
This kit includes the essential tools needed for all types of chair-side adjustments for tcs® Unbreakable Partial Dentures.
- 2 shapes of Carbide Burs (Item #’s 50251G-01 and 50C25-01)
- 2 Green Mounted Stones
- 2 Large Rubber Point
- 2 Small Rubber Point
- 1 Box of tcs® Concentrated Denture Cleaner (10 Month Supply)
(Item #4014-01 Kit)

**Carbide Burs**
Specifically designed to cut through thermoplastic materials. These burs are long lasting with high cutting efficiency.

**Carving Knife and Replacement Blades**
Ideal for removing fibers that sometimes appear on thermoplastic restorations during adjustment. The replacement blades are specific to this knife.
Carving Knife (Item #4201-01 ea.)
Replacement Blades (Item #4202-01) pack of 12

To purchase or for pricing of items call us at 866-426-2970 or visit us at www.tcsdentalinc.com
*To purchase online follow these steps:*
- www.tcsdentalinc.com
- Click on Dental Professionals
- Click on “Available for Your Practice” box (on the right)
- Scroll down and click “register here”. If you already registered then simply login at the top of the website.
- Fill out information and you are now ready to view pricing and purchase.