

UNITED DENTAL LABS

Helpful Hint

CROWN RESTORATION UNDER A PARTIAL – WITHOUT SENDING THE PARTIAL

You have a patient that needs a restoration, but there is a partial involved. The patient doesn't want to go without the partial. Now what do you do? Continue reading and we will explain a technique that may help.

Most often it is not convenient for the patient to be without their partial for an extended period of time. The following technique will eliminate that inconvenience for the patient as well as the problems associated with withdrawing the partial in the impression.

Tooth preparation and taking of the impression should be completed without concern for the partial. A small amount of impression material, poly vinyl, or a rigid bite registration material should be injected around the preparation. The partial is then seated, and the patient instructed to close until the material is set.

Once set, remove the partial, the set impression material will come out with it. Carefully trim the material with a sharp blade following the facial contour to expose the clasp and rest.

If properly trimmed, the index should separate easily with a slight push and show a clear imprint of the clasp and rest. This index, along with the final impression is now ready to be sent to the lab. Your patient can leave your office without the inconvenience of being without their partial denture during the fabrication of the underlying restoration.

WHAT DOES UNITED DO WITH THE INDEX?

Duralay resin is placed on the index to form a pattern of the clasp and rest, and an extension is added to stabilize the pattern on the model. The pattern with the extension is then invested and cast in base alloy. This casting is finished to match the imprinted form of the partial denture.

The finished casting is then transferred to the working model and will relate to the preparation the same as the partial. It is then used to fabricate the restoration the same as if the partial had been available.

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Technician's Tip

FABRICATING A CROWN TO AN EXISTING REMOVABLE PARTIAL DENTURE

SOURCE: SPEAR EDUCATION

1. Prepare the tooth and make an impression with your desired impression material. Make sure you have plenty of prep clearance around the clasps and rest seat. Then seat the removable partial denture and express some bite registration material. (A medium to heavy body is best for trimming purposes).
2. Be sure to cover the clasps and rest seats. Once set, remove the removable partial denture and the registration, and carefully start trimming back the material until you expose the outer surfaces of the clasps and rests and many materials that will prevent you from releasing the removable partial denture.
3. Push the index out of the partial by gently pushing on it apically. You will be able to see some of the preparation of your tooth in this registration. You want this so that the lab can index it on the die (from the first impression you made). Be sure to put in in a box when sending it your lab to protect during shipping.
4. Once at the lab, the bite registration will be fitted on the die and pattern resin will be flowed into the grooves of the clasp and rests. It also will need to extend down onto the model where the minor connector portion of the removable partial denture would be.
5. Once this has set, the lab will cut away the registration material and utilize the resin clasp assembly to construct the contour of the crown.