

**DíamoDent®**

**Abutments and Accessories**

**INSTRUCTIONS FOR USE**

L1001 Rev B

## INDICATIONS FOR USE

All Abutments (UCLA Abutments, Blank Abutments, Cement-On Posts Abutments, Temporary Abutments, Zirconia Abutment Base, Solid Abutments and Over Denture Abutments) are designed for use with commercially available dental implant systems. These products are designed and manufactured for specific implant and implant size. Please refer to product label for the type and size of the implant. These abutments will seat directly on implants and are sub-structure of prosthesis. Some abutments are used as pattern in dental laboratory to make prosthesis such as the plastic portion of UCLA Abutments.

All Abutment Screws are designed to seat inside the abutments and torque into the implants per suggested torque value recommended by the implant manufacturer. For torque values you may refer to DiamoDent catalog or our website at [www.diamodent.com](http://www.diamodent.com)

## STERILIZATION

All abutments and accessories are provided Non-Sterile. Do not heat-sterilize the plastic parts. Product must be wrapped in two layers of 2-ply, approximately 140 count cotton muslin. Place the individually wrapped product in gravity steam sterilizer at the following settings:

Minimum Temperature	121°C
Full Cycle Time	30 minutes
Minimum Dry Time	0 minutes

## IMPRESSION PROCEDURES

Remove the healing abutment according to the instructions provided by the implant manufacturer. Impressions may be taken by using closed impression tray or open impression tray.

### A) Closed Tray Technique

This procedure will transfer the anti rotational feature position of the implant.

1. Place the Impression Post on implant by engaging the anti rotational feature of the impression post with the implant, and then use the proper wrench for tightening the screw. Make sure there is no tissue or any other material between the impression post and the implant. Impression post should seat fully on implant.
2. Inject impression material around the impression post and inside the impression tray. Record the impression per impression material manufacturer's instructions.
3. Remove the impression tray and unscrew the impression post screw from the implant. Do not remove the screw from impression post assembly.
4. Screw down the impression post onto implant analog. Insert each assembly back into its impression cavity. Flat areas on the impression post must be aligned with the corresponding flat areas in the impression. Each impression post must be put back into its place. Do **not** mix the impression posts.
5. Pour up the model in die stone.
6. Remove the impression tray and unscrew the impression post assembly from the analog.

### B) Open Tray Technique

This procedure will transfer anti rotational feature of the implant. The impression post assembly stays in the impression in this technique.

1. Place the impression post on implant by engaging anti rotational feature of the impression post with the implant, and then use the proper wrench for tightening the screw or tighten the screw by hand. Make sure that there is no tissue or any other material between the impression post and the implant. Impression post should seat fully on the implant.
2. Make an access hole for the impression post screw on the tray
3. Inject impression material around the impression post and inside the impression tray. Record the impression per impression material manufacturer's instructions.
4. Unscrew the impression post screw from the implant and remove the impression tray with the impression post inside the impression. Do not remove the screw from assembly. Impression post assembly stays inside the impression.
5. Screw down the impression post onto implant analog.
6. Pour up the model in die stone.
7. Unscrew the impression post assembly from the analog and remove the impression tray.

## **ALL PLASTIC AND UCLA GOLD/PLASTIC ABUTMENTS**

Place the abutment on the stone model. Modify and add wax as necessary, conventionally invest, cast, and prepare the restoration.

## **WAX AND CASTING PROCEDURE**

1. Place the abutment on implant analog. Secure the abutment by using the screw. Do NOT exceed 5 Ncm torque if you are using all plastic abutment otherwise the plastic abutment may crack or will be deformed.
2. Modify height of the abutment as needed. Add wax to create wax pattern.
3. Gold base is made of a Non-Oxidizing material, if needed add a thin layer of wax on the gold base. After casting, apply porcelain on the cast area. Do **not** apply porcelain directly on the gold base.
4. In order to allow sufficient flow of the molten alloy, attach 10 or 12 gage sprues at 45 degree to the thickest part of the framework. The sprues should be short.
5. Conventionally invest, and then heat the mold to 1550°F and heat soak for at least one hour. Use **only** high noble crown and bridge alloy such as type III or type IV. ***Do not use base metal alloy.***
6. If it is necessary, use reamer to remove any casting imperfections and clear the inside seat for screw.

## **CEMENT RETAINED ABUTMENTS**

1. Place the Cement-On Abutment on implant analog. Secure the abutment by using the screw.
2. Modify the abutment as needed.
3. Conventionally invest and cast the crown or mill in Zirconia.
4. Place the modified abutment on implant. Secure the abutment using the abutment screw. Screw must be torque per the implant manufacturer's suggestions then cement the crown on the abutment in patient's mouth.

## **TEMPORARY ABUTMENTS**

1. Place the Temporary Abutment on implant analog. Secure the abutment by using the screw.
2. Modify the abutment as needed.
3. Apply acrylic material on the temporary abutment.
4. Follow the manufacturer's instruction for light curing the material.