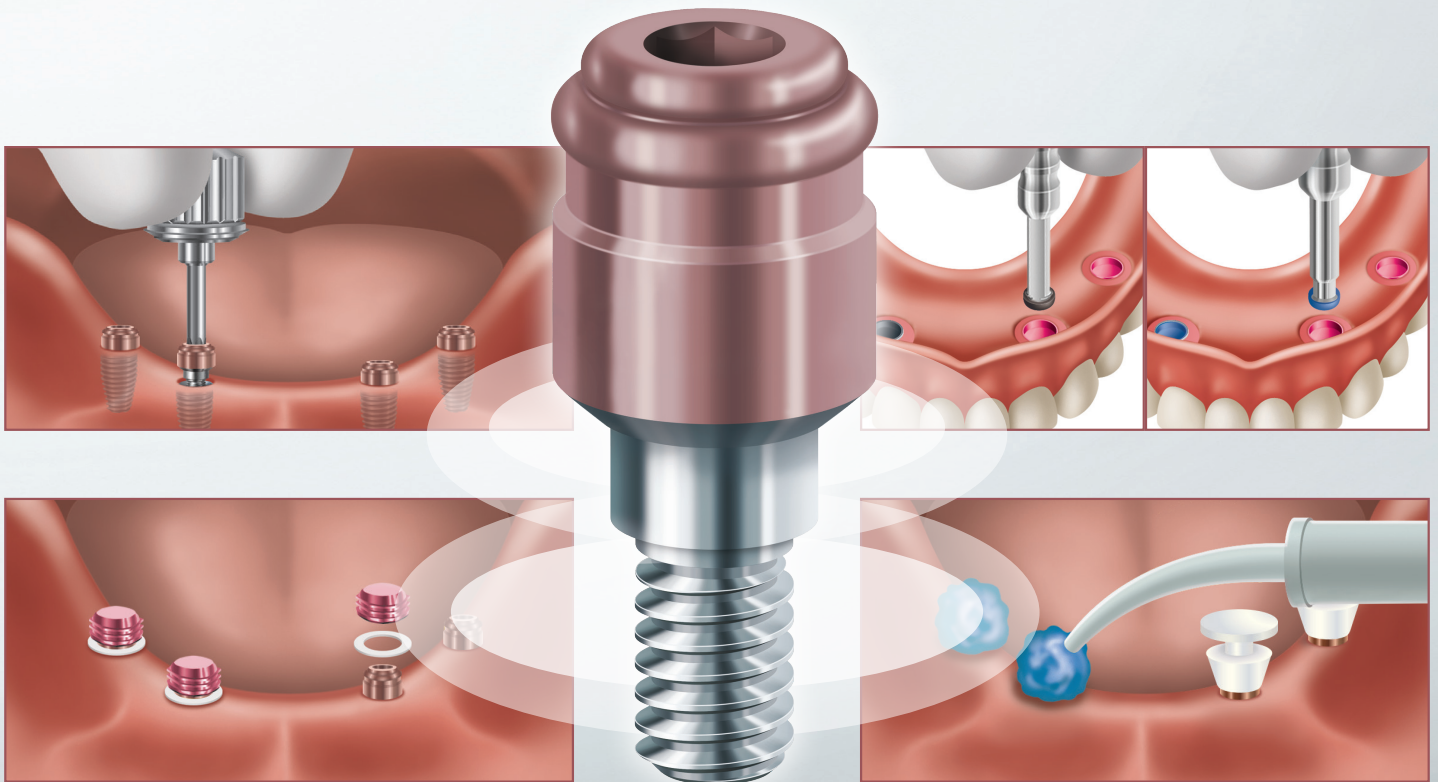


# LOCATOR R-Tx<sup>®</sup>

## TECHNIQUE MANUAL



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**IMPORTANT:** This document is designed to serve as a reference guide for dental clinicians using Zest Dental Solutions® products. It is not intended to be a substitute for professional training and experience. Please refer to the Instructions For Use (L8124-ZD) for further information.

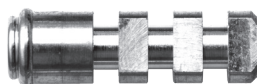
# LOCATOR R-Tx® COMPONENTS REFERENCE

## LAB PROCESSING

Impression Coping  
**30017-01**  
(QTY. 4)



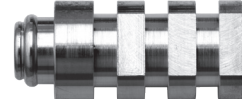
3.35mm Abutment  
Analog  
**30014-01**  
(QTY. 4)



4.0mm Abutment  
Analog  
**30015-01**  
(QTY. 4)



5.0mm Abutment  
Analog  
**30016-01**  
(QTY. 4)



Processing Spacer  
**30018-01**  
(QTY. 4)



Denture Attachment  
Processing Assembly  
**30013-01**  
(QTY. 4)



Block-out Spacer  
**08514**  
(QTY. 20)



## RETENTION INSERTS

Zero Standard  
Retention Insert  
**30001-01**  
(QTY. 4)



Low Standard  
Retention Insert  
**30002-01**  
(QTY. 4)



Medium Standard  
Retention Insert  
**30003-01**  
(QTY. 4)



High Standard  
Retention Insert  
**30004-01**  
(QTY. 4)



Low Limited  
Retention Insert  
**30027-01**  
(QTY. 4)



Medium Limited  
Retention Insert  
**30028-01**  
(QTY. 4)



High Limited  
Retention Insert  
**30029-01**  
(QTY. 4)



## TOOLS

Retention Insert Tool  
**30021-01**



# LOCATOR R-Tx®

The Next Generation of the World's Leading Overdenture Attachment System

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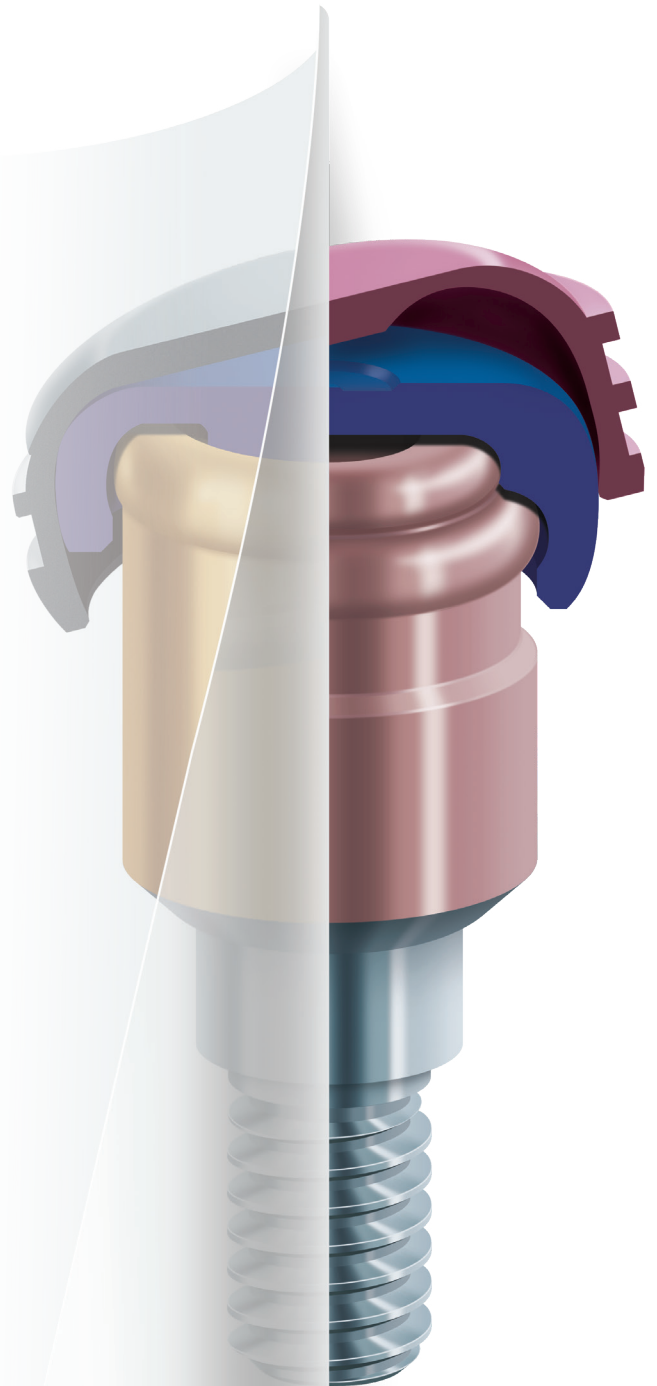
Unveiling LOCATOR R-Tx, a better, simpler, and stronger system that relies on the same restorative techniques as the award-winning LOCATOR®.

At Zest Dental Solutions®, we proudly claim a heritage of over 40 years in overdenture attachment innovation.

Over the past decade and a half, the LOCATOR Attachment System has grown dramatically, evolving into the undisputed market leader for implant-retained, tissue-supported overdenture attachments. Trusted by the industry, the clinician community, and patients alike.

In keeping with our innovative spirit, Zest has continued to refine and even reimagine LOCATOR. We started by listening to you, the influential specialists, clinicians, and manufacturers. Then, our engineers put those ideas to the test and into real application.

Welcome to LOCATOR R-Tx.



# LOCATOR R-Tx®

## Overview of System Features

### ABUTMENT

1 Dual retentive surfaces for engagement and narrower coronal geometry for easier seating of overdenture.

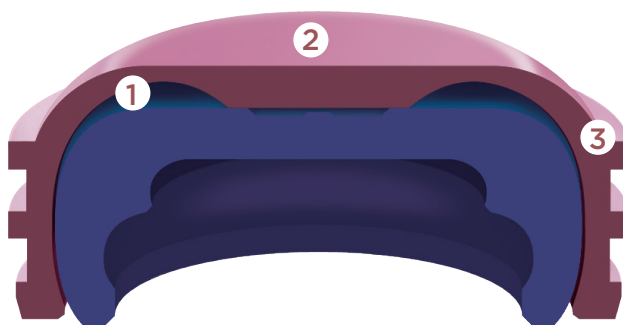


2 Industry standard .050"/1.25mm\* hex drive mechanism.

3 DuraTec® Titanium Carbon Nitride Coating is aesthetic, harder and more wear resistant.

### DENTURE ATTACHMENT HOUSING/ RETENTION INSERT

1 50% increase in pivoting capability up to 30 degrees between implants.



2 Pink anodization for improved aesthetics

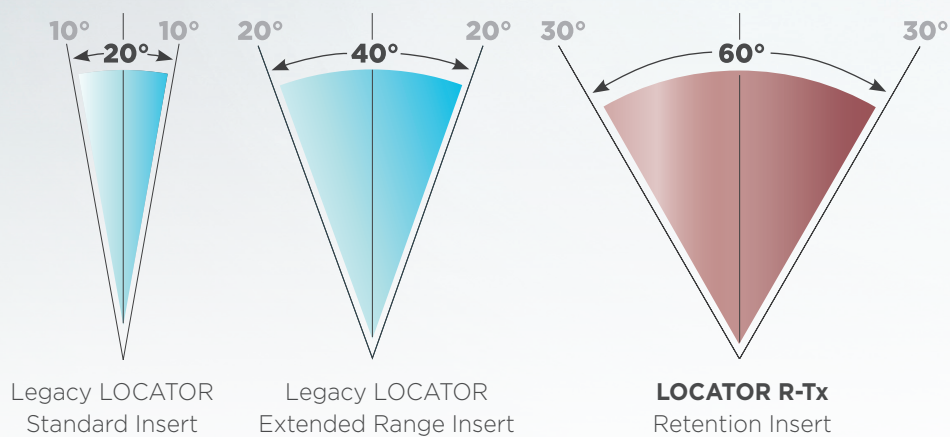
3 Flats & grooves for enhanced fixation



### 1 EASIER DENTURE SEATING WITH PIVOTING TECHNOLOGY

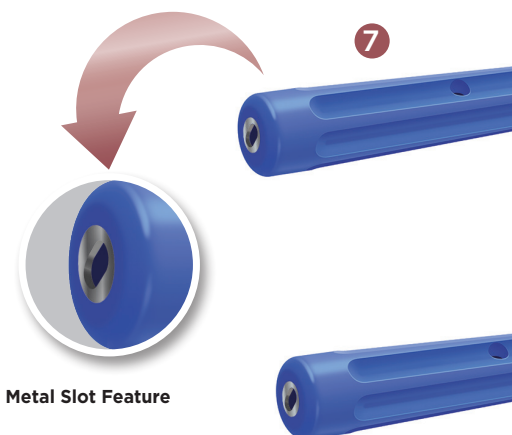
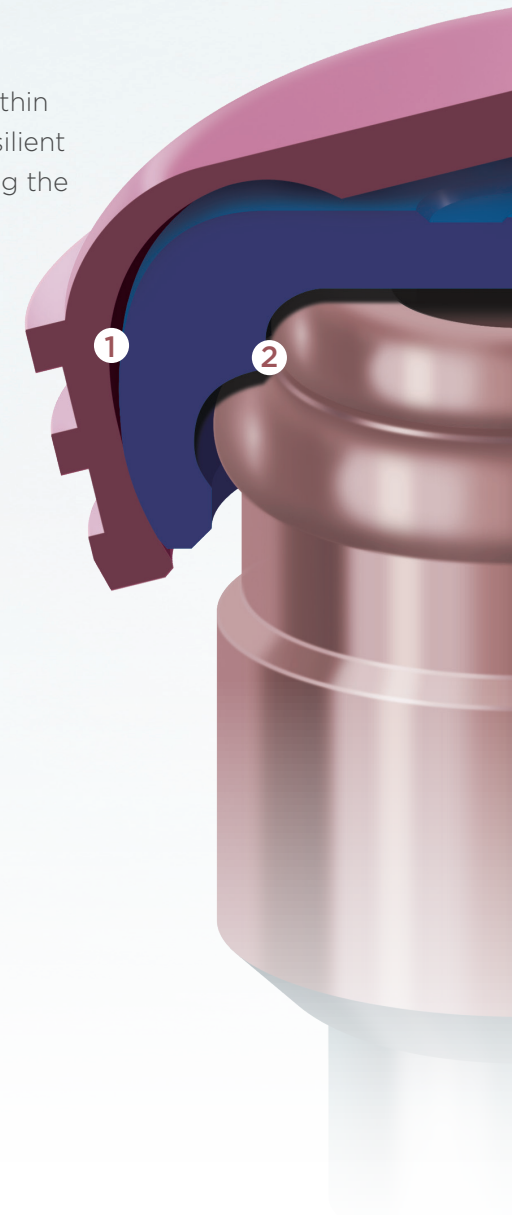
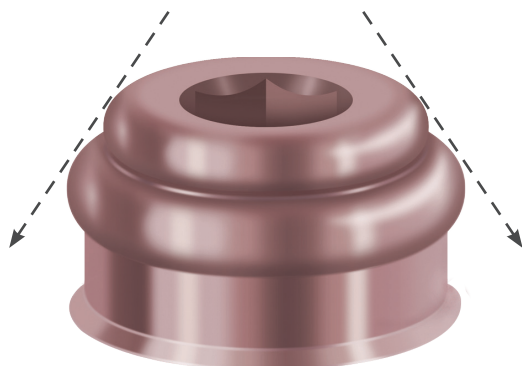
The magic of LOCATOR® has been that the Nylon Retention Insert pivots within the Denture Attachment Housing during insertion/removal, resulting in a resilient system that has allowed patients to seat their overdenture without damaging the components, even in the presence of divergence or convergence between implants.

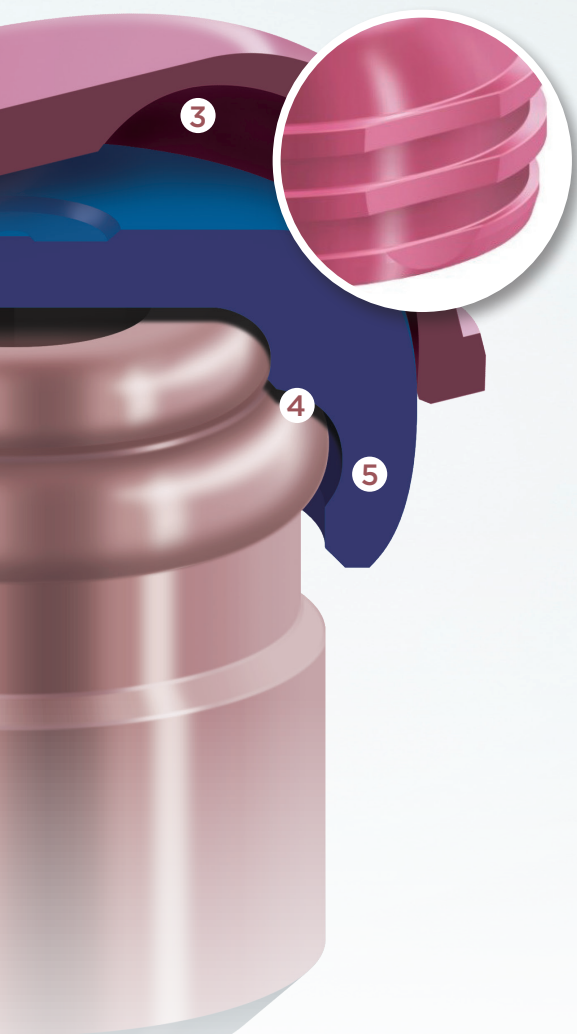
Patented modifications to the Denture Attachment Housing now allow the Housing to pivot up to 30° over the seated LOCATOR R-Tx Nylon Retention Inserts eliminating the need for pre-angled abutments.



### 2 NARROWER CORONAL GEOMETRY

The dual engaging geometry of the abutment offers a narrower leading edge and taper-like effect to allow the patient to more easily align and properly seat the overdenture.





### 3 PRACTICAL DENTURE ATTACHMENT HOUSING DESIGN

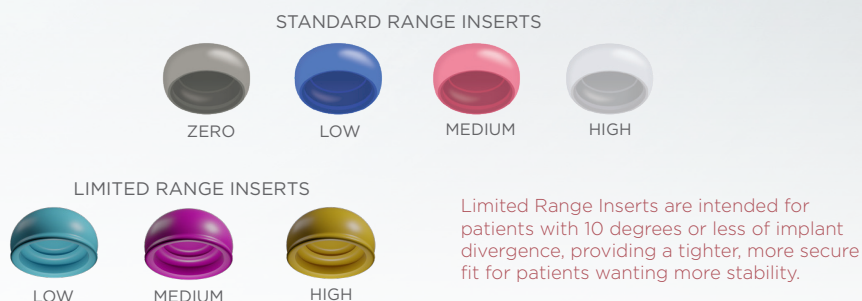
Horizontal grooves and flats resist vertical and rotational movement and a channel inside the top of the Housing enhances pivot range of motion. New pink anodization improves aesthetics in areas of thin denture acrylic.

### 4 EFFICIENT ABUTMENT/INSERT ENGAGEMENT

The Nylon Retention Inserts now engage dual retentive surfaces on the exterior of the Abutment. This helps prevent debris and plaque accumulation within the drive mechanism from impacting proper seating.

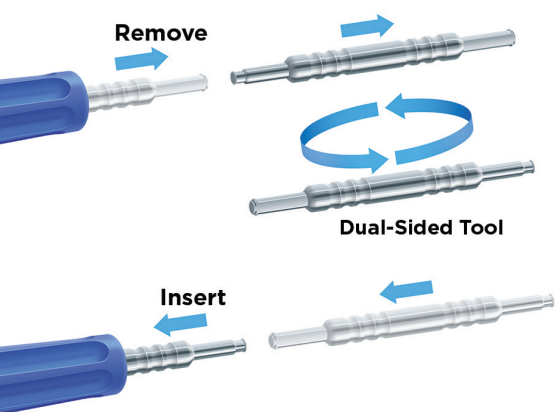
### 5 RETENTION INSERT DESIGN

The system now offers two ranges of inserts allowing the clinician to customize retention based on the patients preferences and needs. Both sets offer Low, Medium and High retention.



### 6 CONVENIENT ALL-IN-ONE PACKAGING

Custom designed all-in-one, double-ended vial separately holds Abutment and Processing Components providing all the necessary components for the case with one part number.

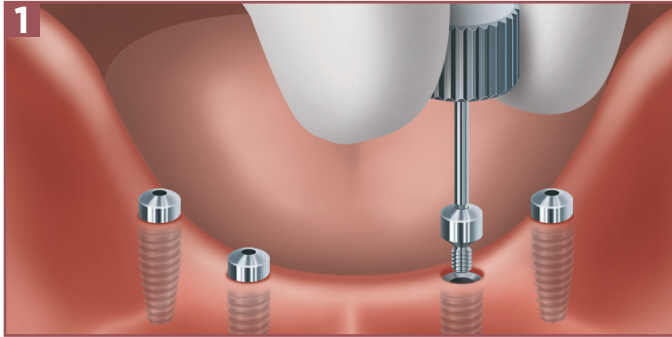


### 7 CUSTOM RETENTION INSERT TOOL

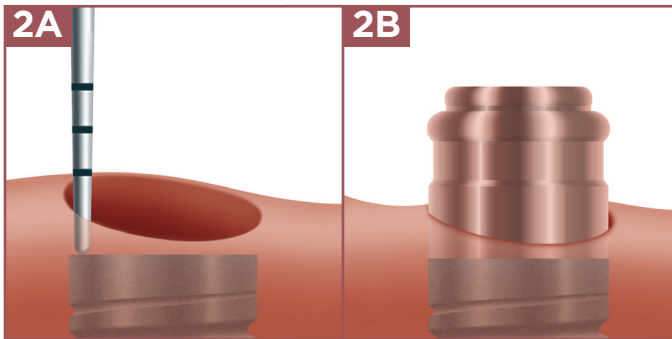
Dual-Sided Tool for easy insertion and removal of the LOCATOR R-Tx® Retention Insert. Metal slot feature on the back of the Tool Handle allows the clinician to disengage a Retention Insert without the risk of tearing gloves.

# LOCATOR R-Tx®

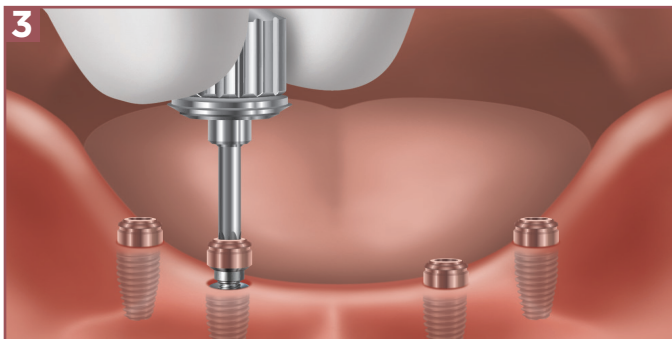
## Abutment Placement



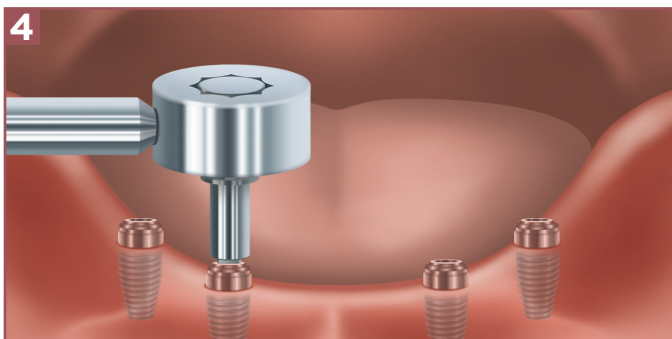
**1** Identify the system and diameter of each implant. Remove the healing abutments.



**2A-2B** Using a periodontal probe, measure the height of the gingiva at the highest point and select the cuff height of the LOCATOR R-Tx Abutment that corresponds to that measurement. If it is 2mm, choose a 2mm cuff height. An additional 2mm of Abutment height will extend above the gingiva to accommodate the seated Denture Attachment Housing and Nylon Retention Insert.



**3** Place the LOCATOR R-Tx Abutment into the implant using a .050"/1.25mm\* hex driver and hand tighten. Radiograph each interface to confirm that the Abutments are fully seated on the implants by placing the film perpendicular to the interface.



**4** Complete the seating of the R-Tx Abutment by using a calibrated torque wrench. Tighten the LOCATOR R-Tx Abutment to 30Ncm.

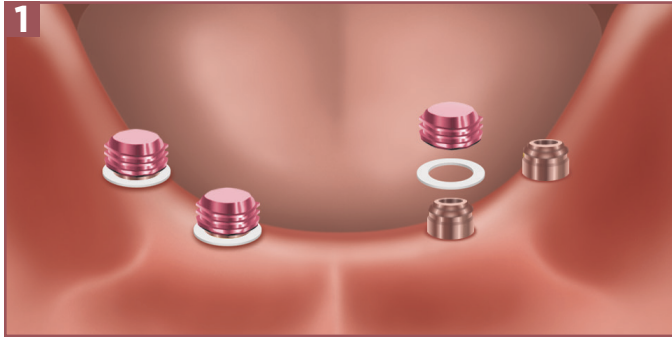
**NOTE:** LOCATOR R-Tx Abutments designed for implants with an internal thread diameter of  $\leq 1.4\text{mm}$  must be torqued to 20Ncm. The use of higher torque values than recommended could cause a fracture of the LOCATOR R-Tx Abutment.

A direct or indirect technique may be used for processing the Denture Attachment Housings into the overdenture. Please refer to page 8 for direct and page 11 for indirect processing techniques for the LOCATOR R-Tx Removable Attachment System.

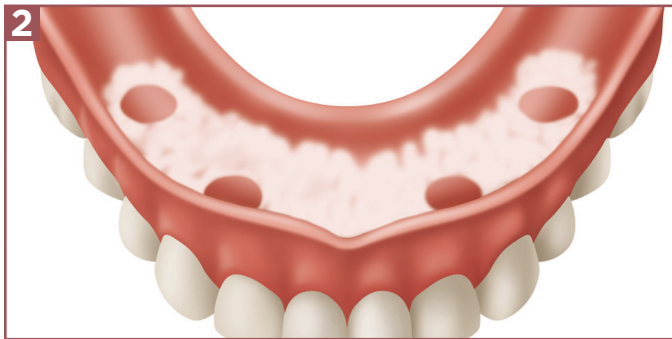


# LOCATOR R-Tx®

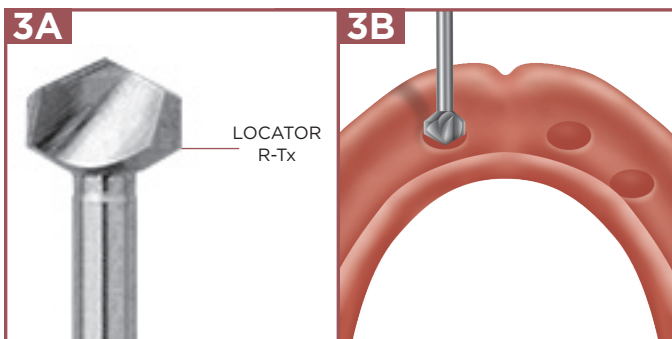
## Processing Denture Attachment Housings into the Overdenture - Direct Technique



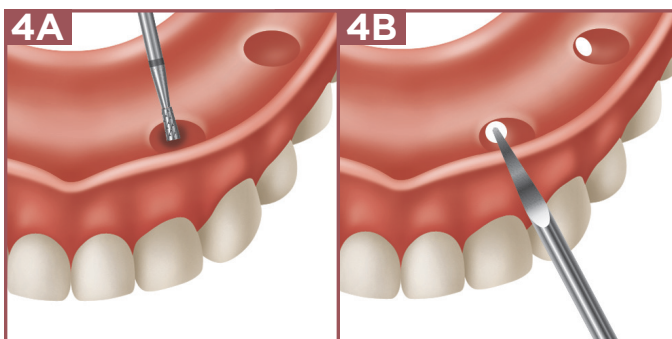
**1** Place a white Block-Out Spacer around each Abutment and press it down to the tissue. Snap a Denture Attachment Housing with a pre-loaded Black Processing Insert onto each Abutment, pressing down firmly.



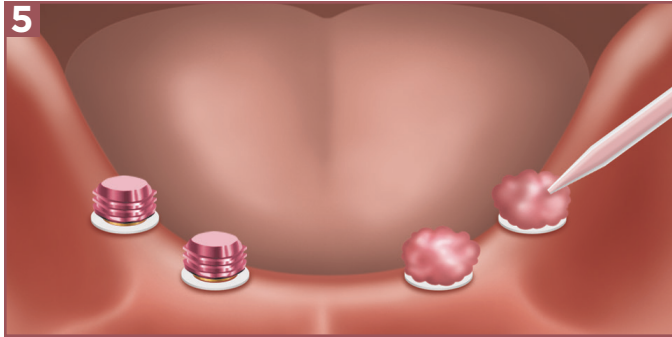
**2** Apply fit check marking paste to the intaglio surface of the denture. Insert it into the mouth in position over the Denture Attachment Housings. This will mark areas where the denture will need to be relieved to allow space for the Housings to be picked up.



**3A-3B** Relieve the marked areas with the CHAIRSIDE® Recess Bur. Zest recommends using slight pressure and a small rocking motion to get the tip of the Bur started, followed by a straight downward motion to create the desired recess site. This Bur has distinct depth landmarks which indicate where to stop when drilling for the Denture Attachment Housing.

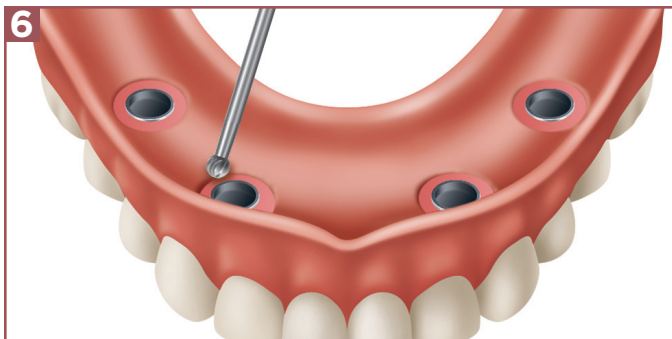


**4A-4B** Use the CHAIRSIDE Undercut Bur to cut an undercut around the circumference of the relief areas for mechanical retention. Cut lingual/palatal vent windows in the overdenture with the CHAIRSIDE Vent Bur to visualize full seating and for excess material to vent.

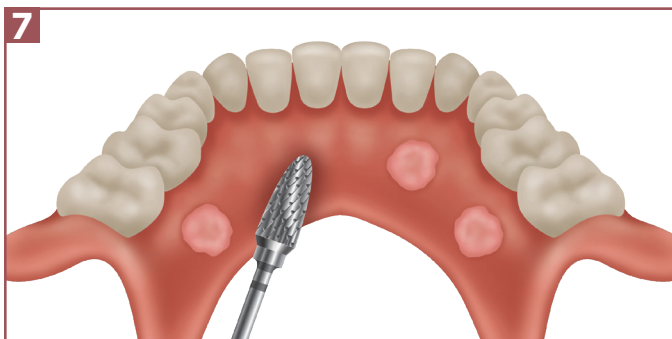


**5** Dry the Denture Attachment Housings. Apply a small amount of CHAIRSIDE® Attachment Processing Material around the circumference of each Housing. Place CHAIRSIDE Material into the relief areas of the overdenture and seat it over the Housings and onto the tissue. Have the patient close into light occlusion and hold while the CHAIRSIDE Material sets. Please refer to CHAIRSIDE Attachment Processing Material IFU (L8121-ZD) for set times.

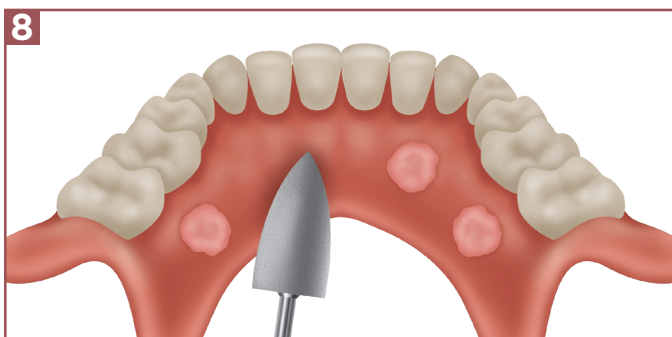
**NOTE:** Excessive occlusal pressure during the setting time may cause tissue recoil against the denture base and could contribute to dislodging and premature wear of the Inserts.



**6** Disengage the overdenture from the Abutments and remove from the mouth. Verify that the Denture Attachment Housings have been securely processed into the overdenture. Fill any voids with CHAIRSIDE Material and light cure. The material will bond to itself and will cure within 30 seconds with light application. Remove any excess material with the CHAIRSIDE Grind Bur.



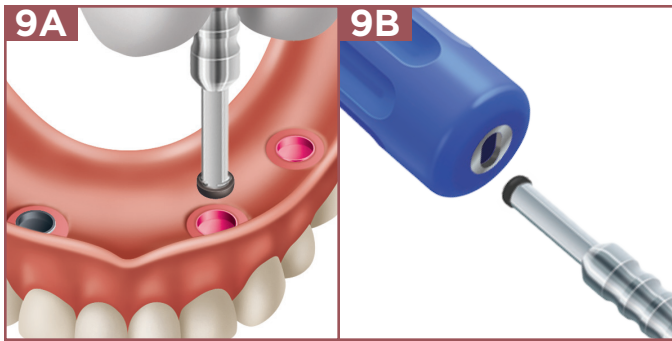
**7** Use the CHAIRSIDE Trim Bur to remove any excess acrylic material and to make any needed modifications to the overdenture.



**8** Use the CHAIRSIDE Polish Bur to create a smooth finish of the overdenture.

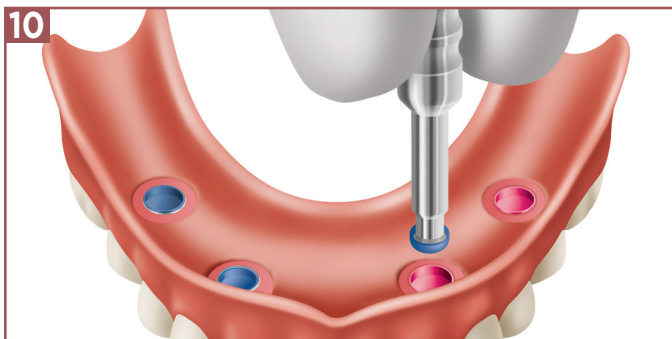
# LOCATOR R-Tx®

## Processing Denture Attachment Housings into the Overdenture - Direct Technique (continued)

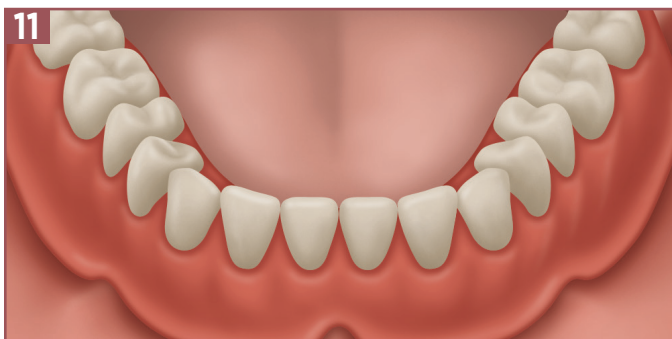


**9A-9B** Remove the Black Processing Insert from the Denture Attachment Housing using the removal (OUT) end of the Retention Insert Tool. When using the removal end of the Tool, engage the Processing Insert and tip the Tool towards the distal or mesial of the intaglio surface until the Insert completely disengages from the Denture Attachment Housing.

Use the metal slot feature on the back end of the Tool to remove the Insert from the tip of the Tool. This can be accomplished by sliding the Insert into the opening of the metal slot and using an upward motion to remove the Insert.



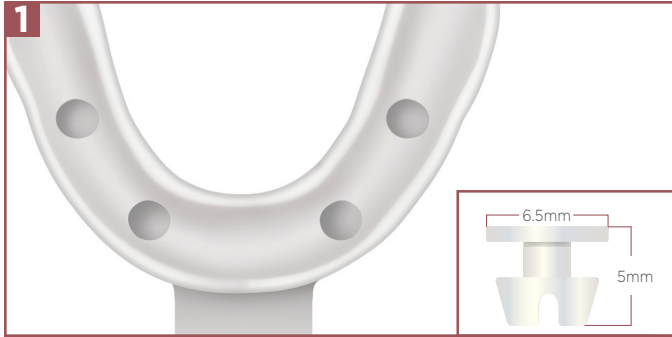
**10** Place the selected final Retention Insert into each Denture Attachment Housing using the insertion (IN) end of the Tool. During try-in, start with the lowest retentive option. When using the insertion end of the Tool, engage the Retention Insert from a slight angle and upright the Tool while pressing down.



**11** Seat the overdenture, press down to engage the Inserts on the LOCATOR R-Tx Abutments and verify the occlusion. Instruct the patient on how to remove and insert the overdenture. If the retention is not satisfactory, remove the Inserts and replace with the next level of retention. Please refer to the Retention Inserts section of the Components Reference on page 2 for available levels of retention. Instruct the patient on proper home care maintenance and required recall visits.

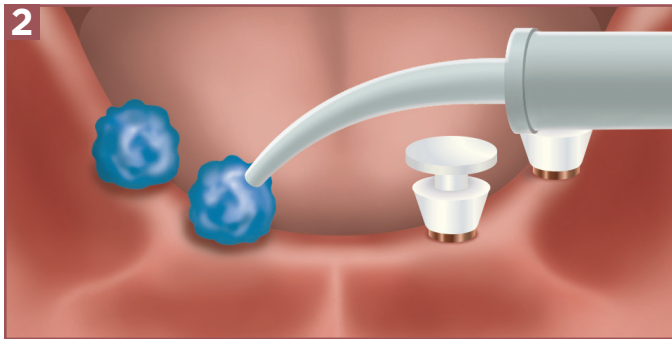
# LOCATOR R-Tx®

## Processing Denture Attachment Housings into the Overdenture - Indirect Technique

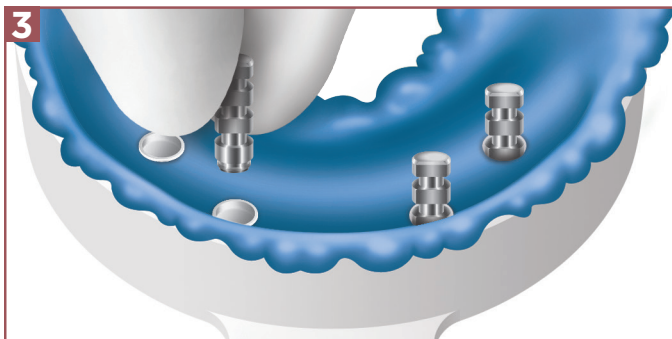


### 1 INDIRECT TECHNIQUE/LABORATORY PROCESSING

A stock or custom impression tray may be used. Ensure that each recess has enough space for the height and diameter of the LOCATOR R-Tx Impression Copings.

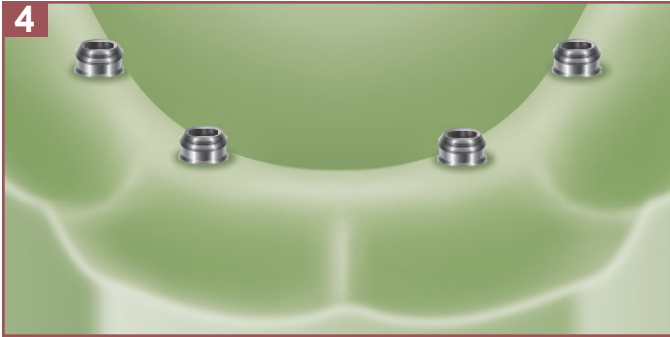


2 Place a LOCATOR R-Tx Impression Copping on each Abutment and press down firmly. Syringe a medium body impression material around the circumference of each coping. Fill the impression tray and insert it over the copings and onto the tissue. Allow the material to set and remove the impression tray.

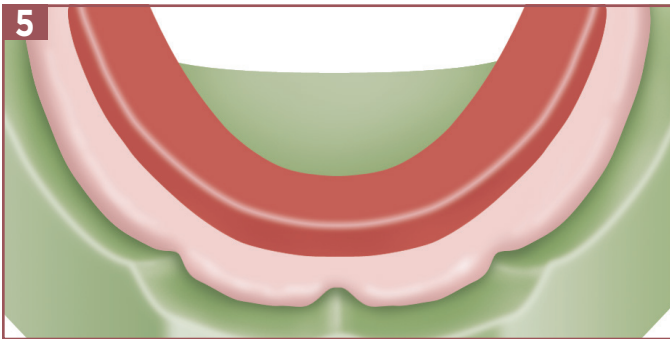


3 Seat the appropriate diameter LOCATOR R-Tx Analog into each Impression Copping and send the impression to the laboratory.

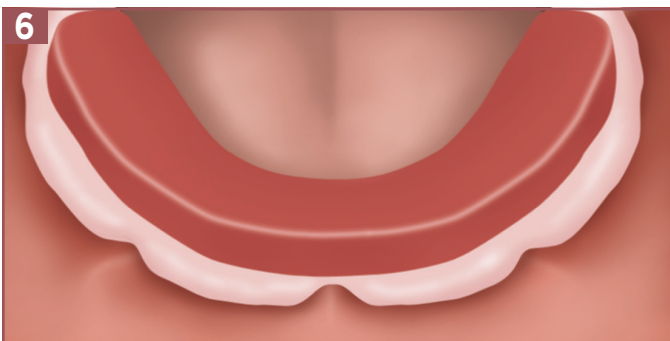




**4** Verify that the Analogs are secure in the Impression Copings and pour a model.

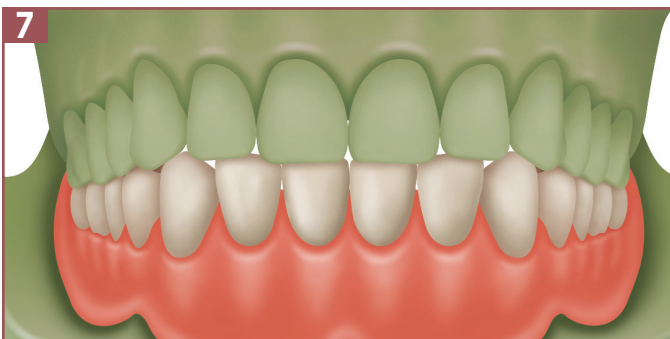


**5** Fabricate the baseplate and wax rim on the cast for the bite registration. The Denture Attachment Housings with Black Processing Inserts may be processed into the baseplate to provide stabilization during record making and try-in.



### **6** BITE RECORDS

Place the bite block into the mouth and record the jaw relation. Take an impression of the opposing arch and pour the cast. Select a shade for the denture teeth.

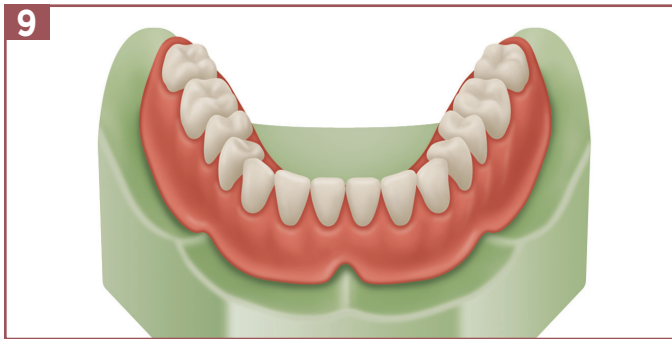


**7** Articulate the models and proceed with the denture teeth set up.

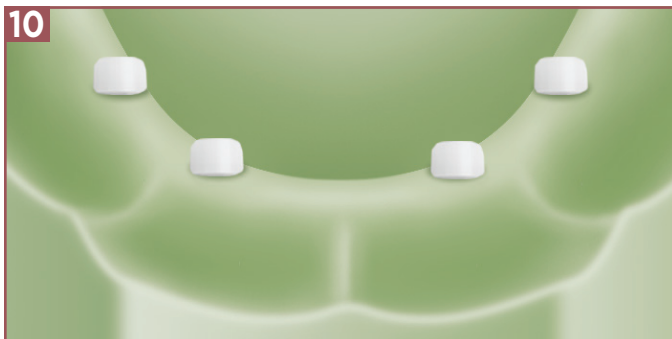


### 8 OVERDENTURE TRY-IN

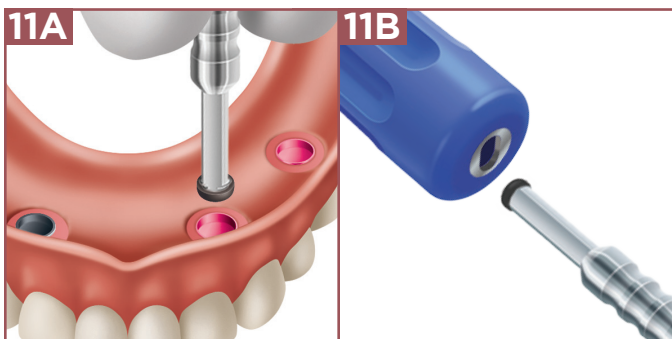
Place the try-in overdenture into the mouth and verify the fit, attachment engagement, aesthetics, phonetics and occlusion.



**9** Finalize and flask the overdenture for processing. Separate the flask and boil away all wax. Place the Denture Attachment Housings with Black Processing Inserts on the Analogs and press down firmly. Place the cast back into the flask and verify that there is no contact with the teeth. Close the flask and process the overdenture. Remove the overdenture from the flask, finish, and polish.



**10 Optional Step:** A Processing Spacer could be used instead of the Denture Attachment Housing during the fabrication of the overdenture if the clinician prefers to pick up the Denture Attachment Housings chairside. The Processing Spacer creates a recess in the denture to allow for the Denture Attachment Housing to be seated without any interference with the surrounding denture acrylic.

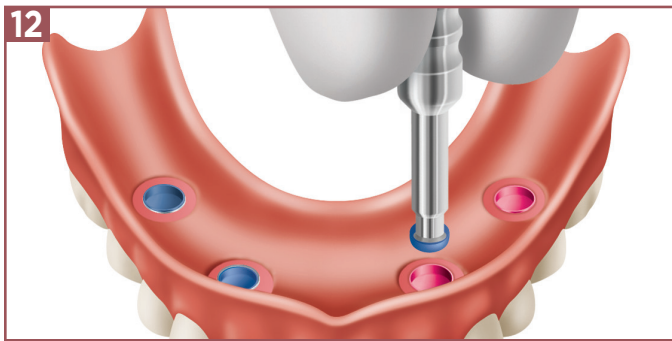


**11A-11B** Remove the Black Processing Insert from the Denture Attachment Housing using the removal (OUT) end of the Retention Insert Tool. When using the removal end of the Tool, engage the Processing Insert and tip the Tool towards the distal or mesial of the intaglio surface until the Insert completely disengages from the Denture Attachment Housing.

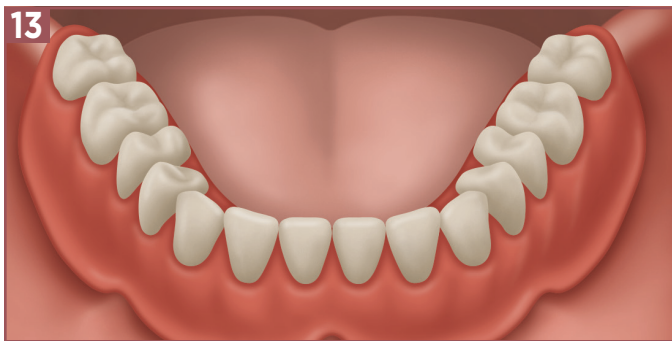
Use the metal slot feature on the back end of the Tool to remove the Insert from the tip of the Tool. This can be accomplished by sliding the Insert into the opening of the metal slot and using an upward motion to remove the Insert.

# LOCATOR R-Tx®

## Processing Attachment Housings into the Overdenture - Indirect Technique (continued)



**12** Place the selected final Retention Insert into each Denture Attachment Housing using the insertion (IN) end of the Tool. During try-in, start with the lowest retentive option. When using the insertion end of the Tool, engage the Retention Insert from a slight angle and upright the Tool while pressing down.

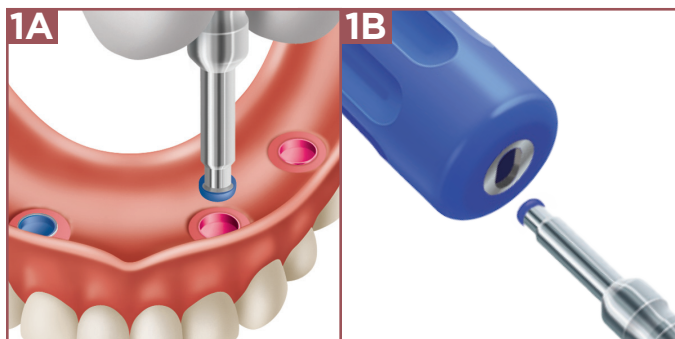


### **13** DELIVERY

Place the overdenture in the mouth and press down to engage the Retention Inserts on the R-Tx Abutments. Verify the occlusion. Instruct the patient on how to remove and insert the overdenture. If the retention is not satisfactory, remove the Retention Inserts and replace with the next level of retention. Please refer to the Retention Inserts section of the Components Reference on page 2 for available levels of retention. Instruct the patient on proper home care maintenance and required recall visits.

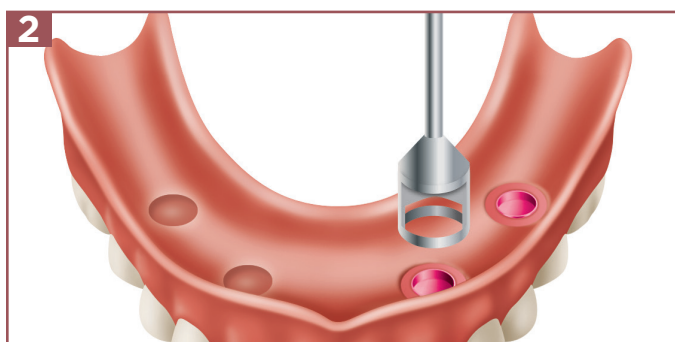
# MAINTENANCE OF THE LOCATOR R-Tx® ABUTMENT

## Reline of Implant-Retained Tissue Supported Overdentures

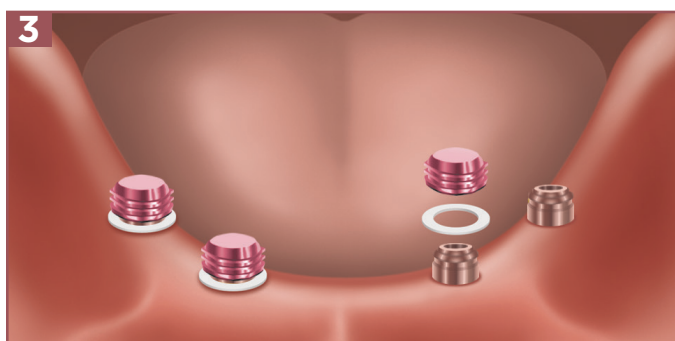


**1A-1B** Remove the Retention Inserts from the denture using the removal (OUT) end of the Retention Insert Tool. When using the removal end of the Tool, engage the Retention Inserts and tip the Tool towards the distal or mesial of the intaglio surface until the insert completely disengages from the Denture Attachment Housing.

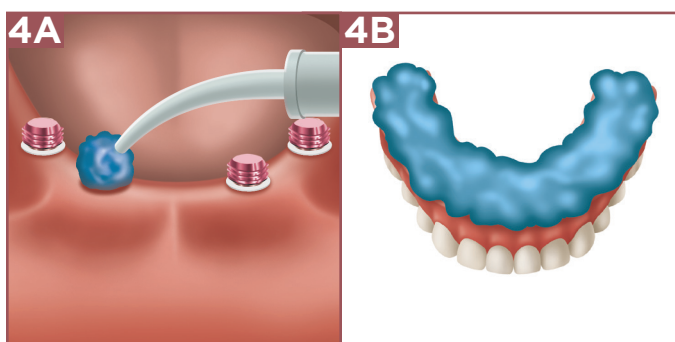
Use the metal slot feature on the back end of the Tool to remove the Insert from the tip of the Tool. This can be accomplished by sliding the Insert into the opening of the metal slot and using an upward motion to remove the Insert.



**2** Using a trephine bur, remove the existing Denture Attachment Housings from the overdenture.



**3** Place a white Block-Out Spacer around each Abutment and press it down to the tissue. Snap a new Denture Attachment Housing with a pre-inserted Black Processing Insert onto each Abutment, pressing down firmly. Try in the overdenture to ensure each recess is large enough to accommodate the new Denture Attachment Housing with no interference with the acrylic.

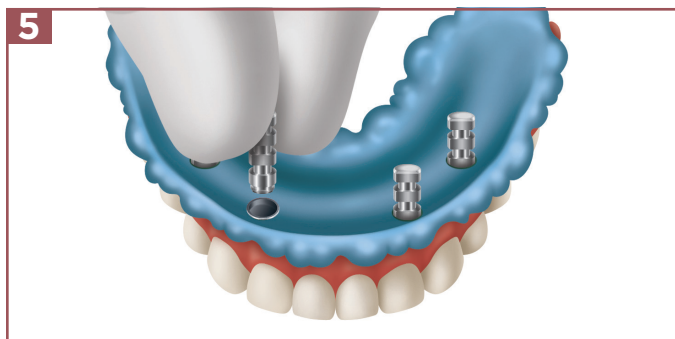


**4A-4B** Apply impression adhesive to the intaglio surface of the overdenture and apply a medium body impression material. Take an impression and have the patient close into light centric occlusion. Remove the overdenture and verify that all the Denture Attachment Housings are picked up in the impression.

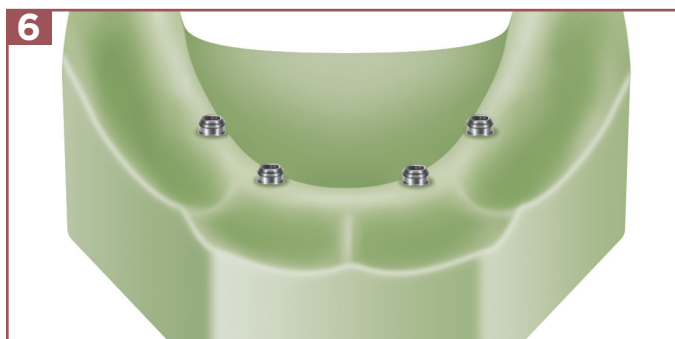


# MAINTENANCE OF THE LOCATOR R-Tx® ABUTMENT

## Reline of Implant-Retained Tissue Supported Overdentures (continued)



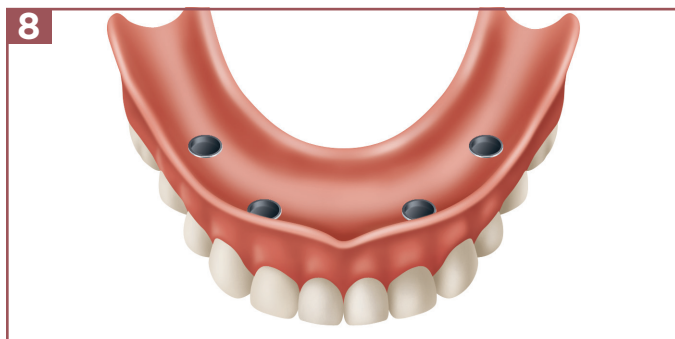
**5** Seat the appropriate diameter LOCATOR R-Tx Analog into each Denture Attachment Housing and pour a model.



**6** Verify that the Analogs are secure in the Black Processing Inserts and pour a master cast.



**7** Mount the cast with the denture in a reline jig.

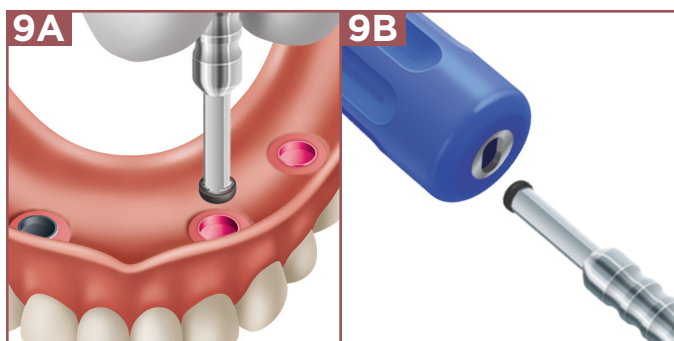


**8** Separate the reline jig and remove the impression material from the overdenture. Seat the overdenture and the Denture Attachment Housings back on the Analogs and reline.

Remove the overdenture from the reline jig, finish and polish.

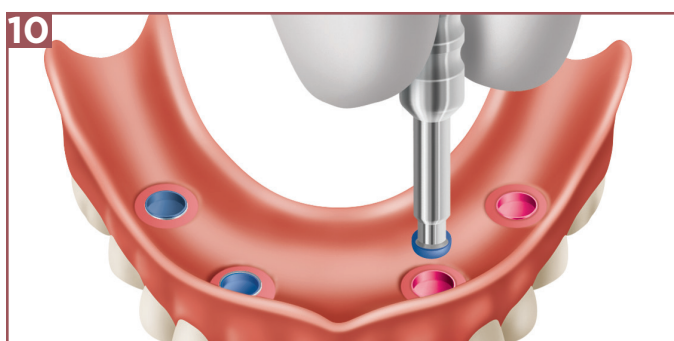
# MAINTENANCE OF THE LOCATOR R-Tx® ABUTMENT

## Reline of Implant-Retained Tissue Supported Overdentures (continued)

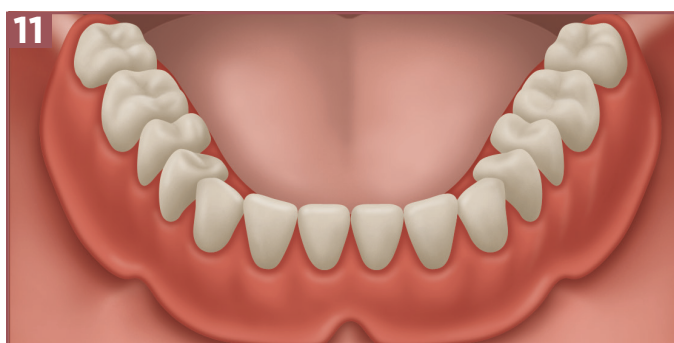


**9A-9B** Remove the Black Processing Inserts from the denture using the removal (OUT) end of the Retention Insert Tool. When using the removal end of the Tool, engage the Processing Inserts and tip the Tool towards the distal or mesial of the intaglio surface until the Insert completely disengages from the Denture Attachment Housing.

Use the metal slot feature on the back end of the Tool to remove the Insert from the tip of the Tool. This can be accomplished by sliding the Insert into the opening of the metal slot and using an upward motion to remove the Insert.



**10** Place the selected final Retention Insert into each Denture Attachment Housing using the insertion (IN) end of the Tool. During try-in, start with the lowest retentive option. When using the insertion end of the Tool, engage the Retention Insert from a slight angle and upright the Tool while pressing down.



### **11** DELIVERY

Place the overdenture in the mouth and press down to engage the Retention Inserts on the Abutments. Verify the occlusion. If the retention is not satisfactory, remove the Retention Inserts and replace with the next level of retention. Please refer to the Retention Insert section of the Components Reference on page 2 for available levels of retention. Instruct the patient on proper home care maintenance and required recall visits.

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