



LOCATOR® REMOVABLE ATTACHMENT SYSTEM **TECHNIQUE MANUAL**

LOCATOR IMPLANT, MULTI-UNIT, BAR, AND ROOT ATTACHMENTS

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PLEASE NOTE: This document is designed to serve as a 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 for further information.

THE LOCATOR® COMPONENT REFERENCE LIST

LOCATOR ABUTMENTS/LASER BAR

IMPLANT ABUTMENTS

Implant Abutment
Multiple Implant Systems and
Tissue Cuff Heights



Multi-Unit Abutment
w/ Titanium Collar
08909



BAR ABUTMENTS

Bar Abutment Thread
08587 2-56
08589 2.0mm



Cast-to Abutment
Stainless Steel
08586



ROOT ABUTMENTS

0° Root Abutment
Stainless Steel
08520



10° Root Abutment
Stainless Steel
08521



20° Root Abutment
Stainless Steel
08522



Cast-to Coping
Stainless Steel
08528



LASER BAR

Female Stainless Steel
08590-02
08590-10



Female Titanium
08588-02
08588-10



LAB PROCESSING

Impression Coping
08505



Abutment Analog
08530 4mm
08516 5mm



Abutment
w/Delrin Collar*
08917



Block-Out Spacer
08514



White

Processing Spacer
08569



Parallel Post
08517



Denture Housing
08510



Standard Range
Male Processing Pkg
08519



Extended Range
Male Processing Pkg
08540



Bar Male
Processing Pkg
08028



Black
Processing Male
08515



Black

Yellow Bar
Processing Male
08026



Yellow

Castable Threaded Insert
08013 2-56
08014 2.0mm



Delrin

REPLACEMENT MALES

STANDARD RANGE

Extra Light
Retention Male
08529



Blue

Light
Retention Male
08527



Pink

Regular
Retention Male
08524



Clear

Zero
Retention Male
08558



Gray

EXTENDED RANGE

Extra Light
Retention Male
08548



Red

Light
Retention Male
08915



Orange

Regular
Retention Male
08547



Green

DRILLS & TAPS

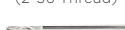
Spot Face
Diamond Bur
08922



Pilot Drill
08924



Bar Drill
09102 1.7mm
(2.0mm Thread)
09103 1.8mm
(2-56 Thread)



Bar Tap
09104 2.0mm
09105 2-56



Drill & Tap
Holder
08016



Paralleling Mandrel
09107



Angle
Measurement Guide
09530



TORQUE DRIVERS & TOOLS

Torque Wrench Kit:
Torque Wrench, 15mm Square
Drive Insert and Thumb Knob
04391 20Ncm
9020 30Ncm



Square Drive Torque
Wrench Driver
08926 15mm
08927 21mm



Latch Type Torque
Wrench Driver
08913 23mm
08914 29mm



LOCATOR Core Tool:
Male Removal Tool, Male Seating Tool
& TiN Coated Abutment Driver
08393



Manual
LOCATOR Drive
08536



Enhanced
LOCATOR CORE TOOL
08340-M



*Used with Multi-Unit Abutment to fabricate LOCATOR Bar Attachment.

LOCATOR® - THE GOLD STANDARD ATTACHMENT SYSTEM

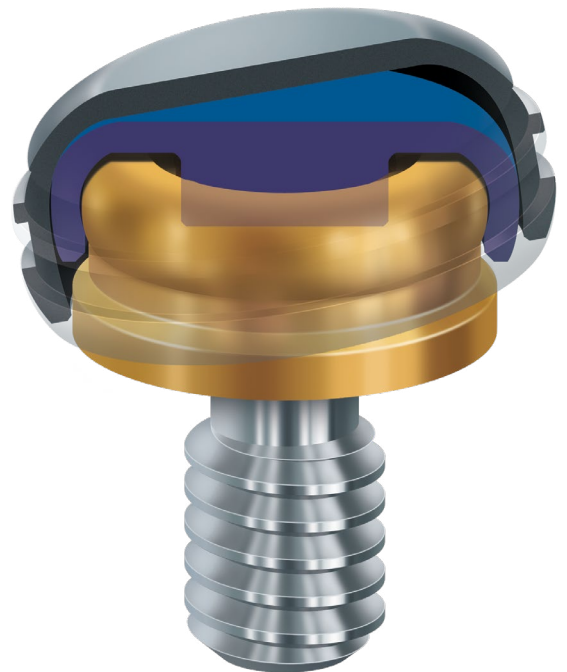
A RELIABLE RESTORATIVE SOLUTION THAT THE INDUSTRY, CLINICIAN COMMUNITY, AND PATIENTS HAVE COME TO TRUST.

For 40 years, Zest Dental Solutions® (formerly ZEST Anchors) has been a global leader in the design, development, manufacturing and distribution of dental solutions for edentulous patients. The company pioneered pivoting, self-aligning attachments that substantially reduced the damage caused by the improper seating of overdentures.

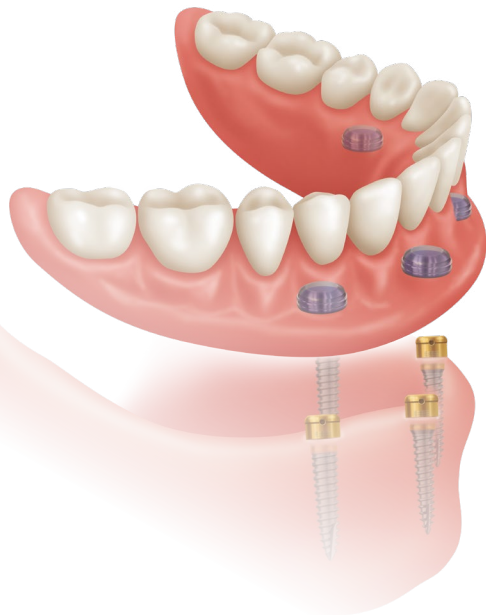
Today, Zest's flagship product, LOCATOR, is recognized as an industry wide solution for implant-retained, tissue supported overdentures. The dental implant companies, that collectively make up more than 90% of the global implant market supply, partner with Zest to make the LOCATOR Abutment compatible with their dental implants.

The recognition does not stop there, LOCATOR's unique low profile design, pivoting technology, durability, and ease-of-use has propelled it to be the preferred choice of clinicians worldwide. Patient satisfaction is the ultimate goal, with more than two million patients enjoying an improved quality of life by trusting their clinician to secure their restoration with LOCATOR. It is clear that LOCATOR is the premiere choice for implant-retained, tissue supported overdentures.

Zest Dental Solutions is located in Carlsbad, California with global distribution through OEM implant companies, distributor networks, and a domestic retail sales operation.



LOCATOR® - A FAMILY OF SOLUTIONS

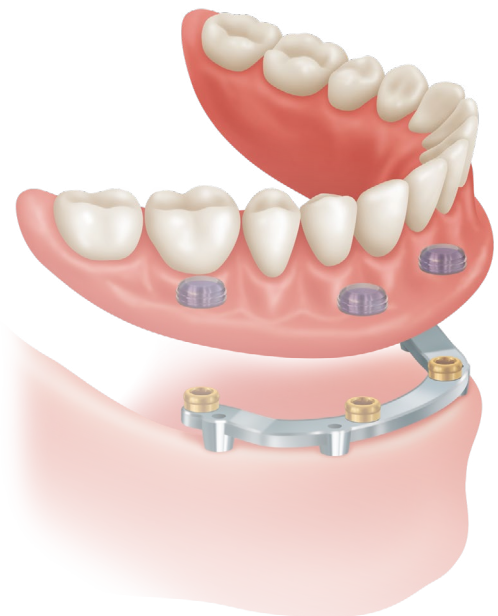


IMPLANT ATTACHMENT

The LOCATOR Implant Attachment with patented pivoting technology is the premier system for implant-retained overdentures. According to recent studies, a two implant-retained, tissue-supported overdenture restoration is considered the new minimum standard of care for edentulous patients. More than two implants may also be placed for an implant-retained overdenture.

BAR ATTACHMENT

When a case calls for an overdenture bar, the LOCATOR Bar Attachment provides the same pivoting technology, self-aligning feature, superb retention, and exceptional durability, all in a low-profile design. It also offers three options for the fabrication of a resilient attachment on an implant-supported cast alloy or milled titanium bar.



LOCATOR FIXED

NEW

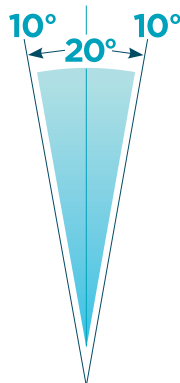
The first abutment that can be used for removable or fixed solutions with only the change of an insert! LOCATOR FIXED offers patients an affordable path to a fixed solution, while offering clinicians a familiar workflow and product they already know and trust.

LOCATOR® STANDARD AND EXTENDED RANGE MALES

THE MAGIC IS IN THE PIVOT, IT ALLOWS FOR A RESILIENT CONNECTION OF THE PROSTHESIS AND PREVENTS DAMAGE TO MALES DURING INSERTION.

STANDARD MALES

Dual retention to maximize stability and pivoting action that accommodates up to 20° of divergence between two implants.



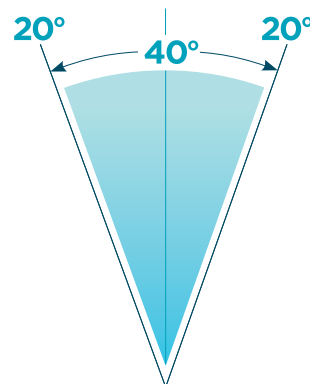
Extra Light Retention



Light Retention



Regular Retention



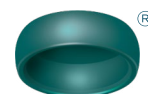
Zero Retention



Extra Light Retention



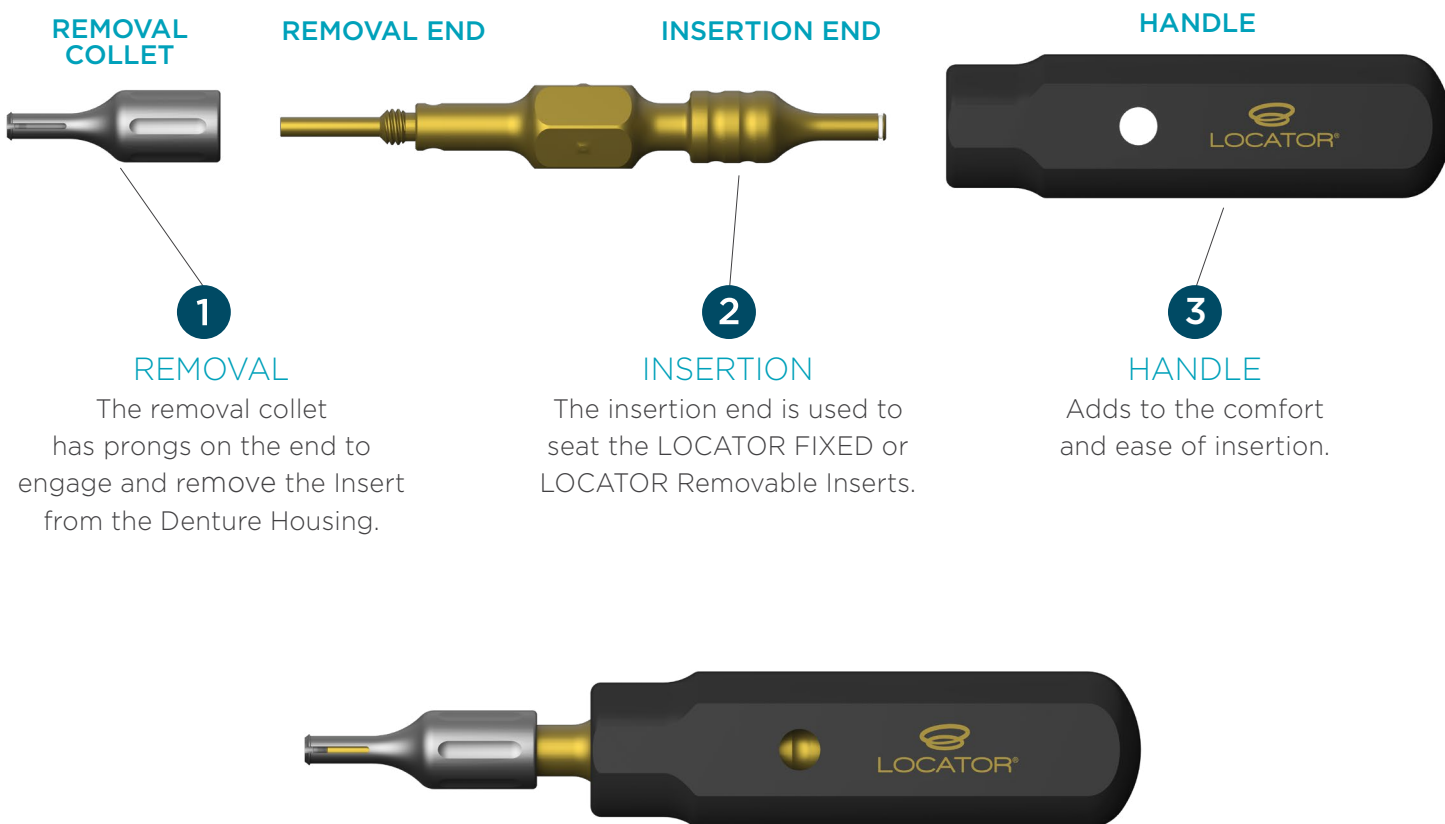
Light Retention



Regular Retention

LOCATOR® ENHANCED CORE TOOL

This convenient tool is used for removing and seating the Inserts from/into the Denture Housing.

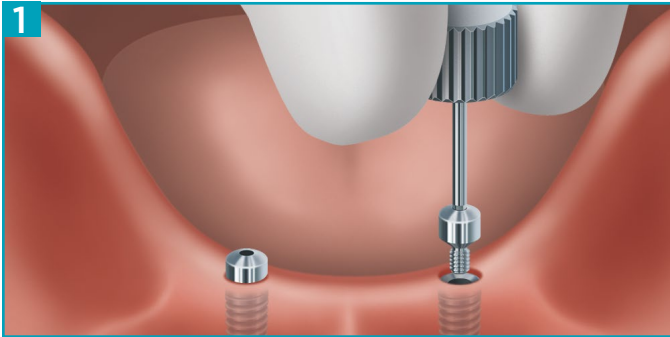


ENHANCED CORE TOOL FOR LOCATOR AND LOCATOR FIXED

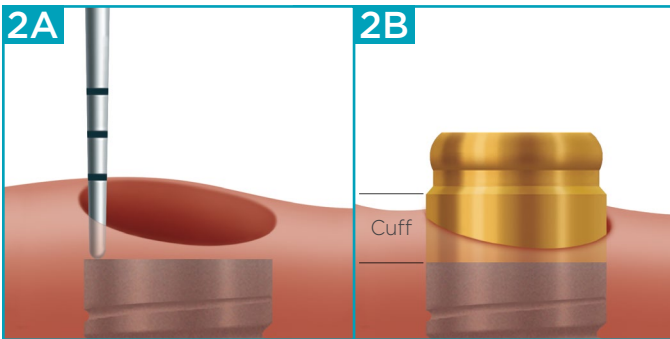
- One streamlined tool compatible with LOCATOR Removable and LOCATOR FIXED Inserts
- Two-sided instrument designed for easy insertion and removal of any LOCATOR Insert
 - **Insertion Tip:** Effortlessly pickup inserts for transfer and placement in housing
 - **Removal Tip:** Place tip with closed prongs into insert, twist collet to open prongs, tilt core tool and easily remove LOCATOR Insert

LOCATOR® IMPLANT ATTACHMENT SYSTEM

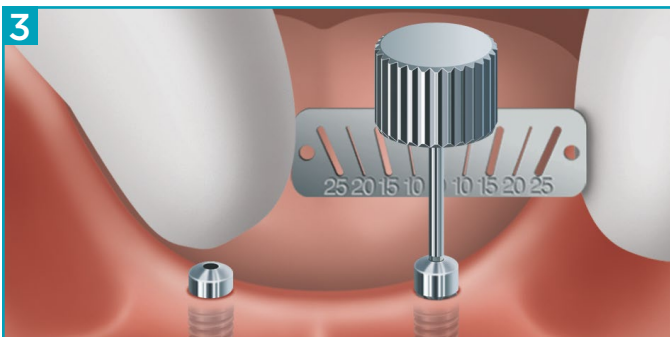
ABUTMENT AND REPLACEMENT MALE SELECTION



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 Abutment that corresponds to that measurement. If it is 2mm, choose a 2mm cuff height. An additional 1.5mm of Abutment height will extend above the gingiva to accommodate for the Denture Housing.

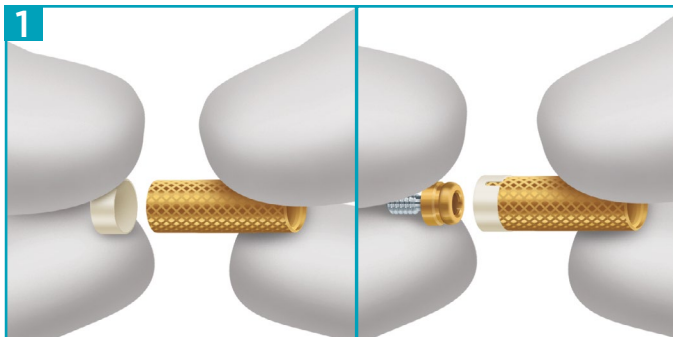


3 Use the Angle Measurement Guide to determine the angulation of each implant. Select the LOCATOR Standard Males for implants with 10° of divergence or less; and the LOCATOR Extended Range Males for implants with greater than 10° and less than 20° of divergence.

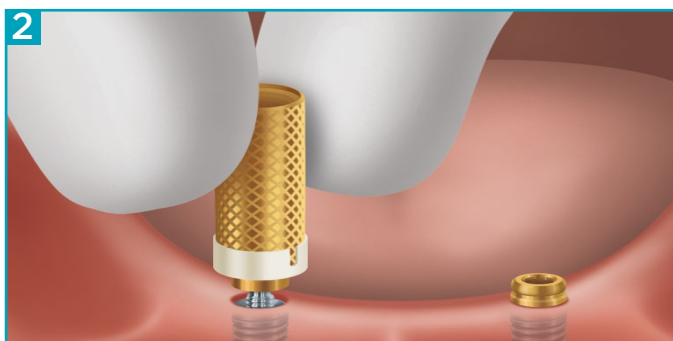
NOTE: Please refer to the Standard and Extended Range Male retention chart on page 4.

LOCATOR® IMPLANT ATTACHMENT SYSTEM

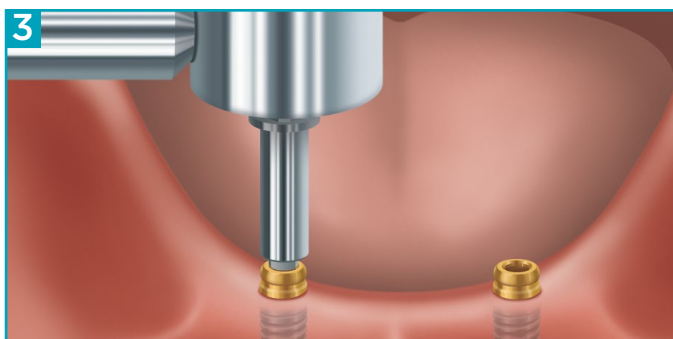
ABUTMENT PLACEMENT



1 Slide the Abutment Holder Sleeve onto the gold abutment driver (08536-SB or 08390-SB). Place the LOCATOR Abutment selected for each implant into the Abutment Holder Sleeve.



2 Screw the LOCATOR Abutment into the implant and hand tighten. Radiograph each interface to confirm that the Abutments are fully seated on the implants. Place the film perpendicular to the interface.



3 Using a torque device and the LOCATOR Driver Insert, torque each LOCATOR Abutment to 30Ncm or to the torque for an abutment screw recommended by the manufacturer of the implant/abutment system if that recommended torque is 35Ncm or less.

NOTE: Implants with $\leq 1.4\text{mm}$ thread require the LOCATOR Abutment be torqued to 20Ncm.

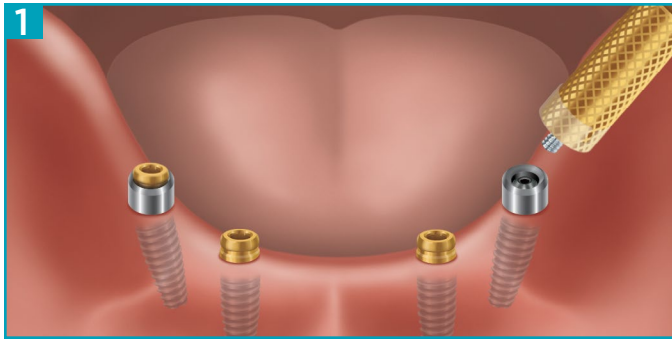
WARNING: Use of higher torque values than recommended could cause a fracture of the LOCATOR Abutment.

A direct or indirect technique may be used for processing the Denture Housing into the overdenture. Please refer to page 10 for Direct Technique and page 13 for Indirect Technique for the LOCATOR Removable Implant Attachment System.

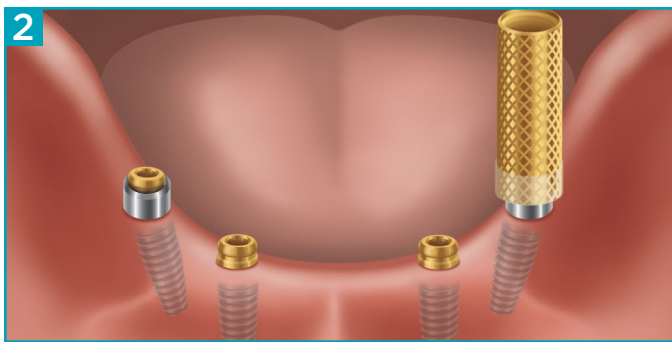
LOCATOR® MULTI-UNIT ABUTMENTS

FREE STANDING APPLICATION

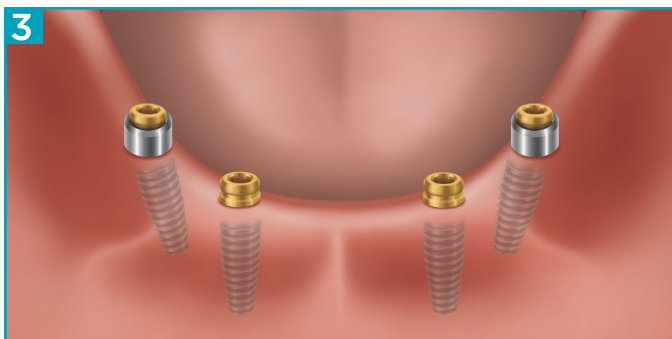
The LOCATOR Abutment for the Multi-Unit Abutment is a two piece component that consists of a Titanium Collar and a LOCATOR Abutment. The combined two pieces, used with a straight or angled Multi-Unit Abutment, is intended for Free Standing LOCATOR Attachment System applications.



1 After the Multi-Unit Abutment (with the proper tissue cuff height) has been selected and torqued into the implant, place the LOCATOR Titanium Collar onto it.



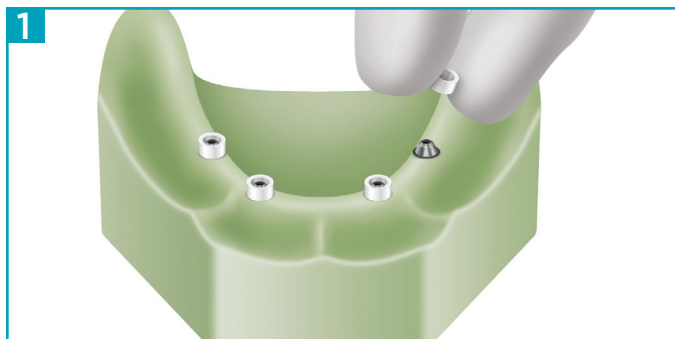
2 Hand-tighten the LOCATOR Abutments and torque to 20Ncm (identified by “ \leq M1.4” symbol on label) using a LOCATOR Torque Wrench Driver for final torque tightening to prevent screw loosening.



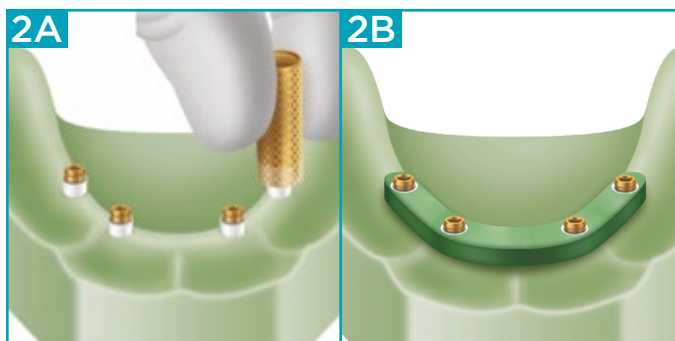
3 The use of higher torque values than the maximum recommended 20Ncm could cause fracture of the Multi-Unit LOCATOR Abutment. Proceed with the standard procedure of the LOCATOR Attachment System.

LOCATOR® FOR BAR SPLINTED MULTI-UNIT IMPLANT ABUTMENTS

The proper tissue cuff height of angled Multi-Unit Abutments and straight Multi-Unit Abutments must be placed according to the Implant Company clinical procedures. The bar splinted LOCATOR Implant Abutment for the angled Multi-Unit Abutment and the straight Multi-Unit Abutment is a two piece part that contains a castable plastic Delrin Collar and the LOCATOR Abutment.



1 Take an impression with the implant manufacturer Multi-Unit Impression Copings and create a master model using the Multi-Unit Abutment Replicas.

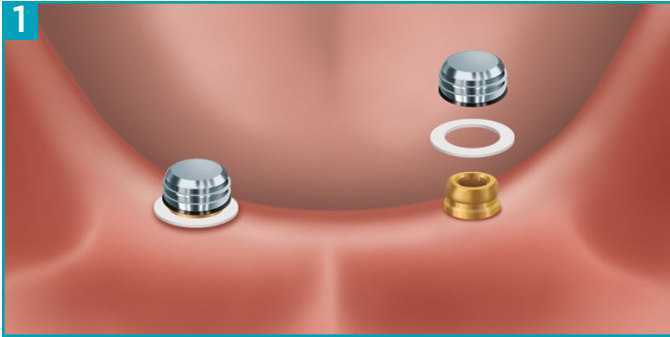


2A-2B On the master model place a Delrin Collar on each of the four Multi Unit Abutments. A special gold plated Abutment Driver the Manual LOCATOR Driver, is designed to engage the inside diameter of the LOCATOR Abutment to place it through the Delrin Collar and thread it into the internal thread of the Multi-Unit Abutment Analog.

Wax the four Delrin Collars directly into the bar pattern.

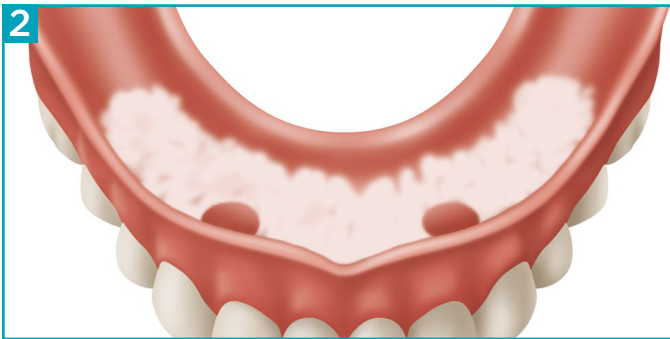
- Remove the LOCATOR Abutments and cast the waxed bar pattern according to standard dental laboratory procedures.
- After polishing the cast bar, place the bar and LOCATOR Abutments back onto the master model to check for proper fit.
- Seat the bar on the Multi-Unit Abutments and seat the LOCATOR Abutments through the cast bar and onto the Multi-Unit Abutments.
- Hand-tighten the LOCATOR Abutments and torque to 20Ncm (identified by “ \leq M1.4” symbol on label) using a LOCATOR Torque Wrench Driver for final torque tightening to prevent screw loosening.
- **The use of higher torque values than the maximum recommended 20Ncm could cause fracture of the Multi-Unit LOCATOR Abutment.**
- Proceed with the standard procedure of the LOCATOR Bar Attachment.

PROCESSING LOCATOR® DENTURE HOUSINGS INTO THE OVERDENTURE, DIRECT TECHNIQUE

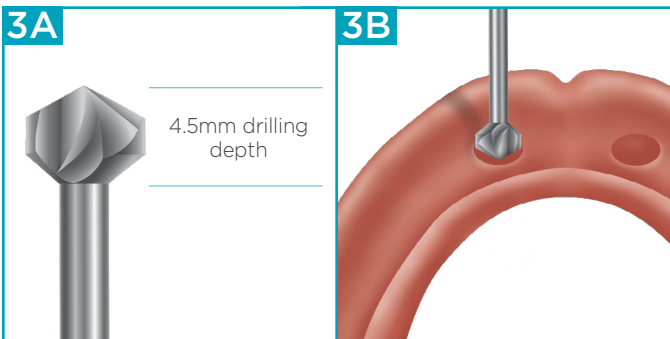


DIRECT TECHNIQUE FOR NEW OR EXISTING DENTURE

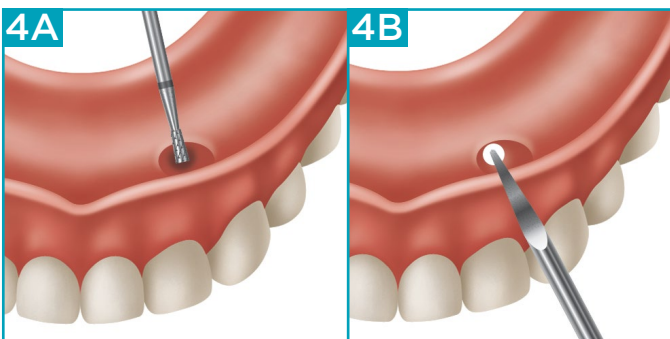
1 Place a White Block-Out Spacer around each Abutment and press it down to the tissue. Snap a Denture Housing with a pre-loaded Black Processing Male onto each Abutment, pressing down firmly.



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

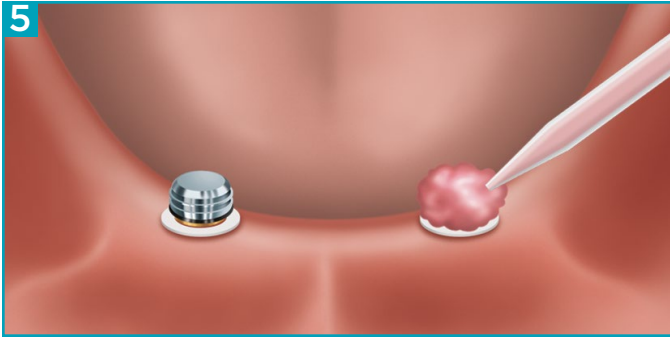


3A-3B Relieve the marked areas with the LOCATOR CHAIRSIDE® Recess Bur. Zest recommends using slight pressure and a small rocking motion to get the tip of the Bur started, followed by a straight downward motion to create the desired recess site. This efficient Bur has distinct depth landmarks which indicate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



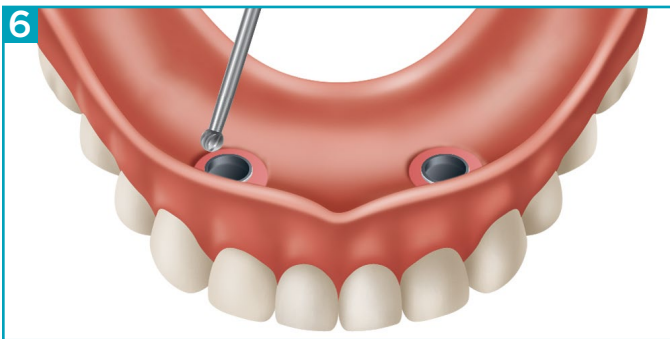
4A-4B Use the LOCATOR CHAIRSIDE® Undercut Bur to cut an undercut around the circumference of the recesses for mechanical retention. Cut lingual/palatal vent windows in the overdenture with the LOCATOR CHAIRSIDE® Vent Bur to visualize full seating and for excess material to vent.

PROCESSING LOCATOR® DENTURE HOUSINGS INTO THE OVERDENTURE, DIRECT TECHNIQUE (CONTINUED)

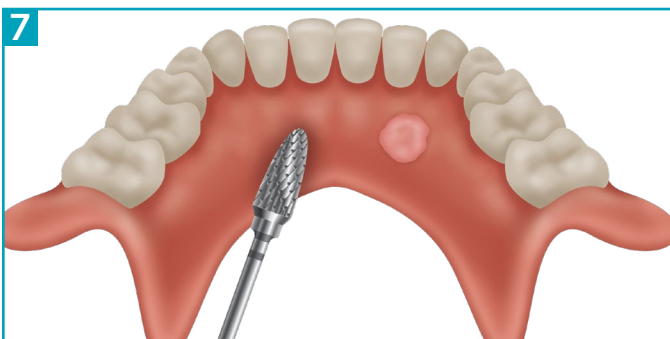


5 Dry the Denture Housings. Apply a small amount of LOCATOR CHAIRSIDE® Attachment Processing Material around the circumference of each Housing. Place LOCATOR CHAIRSIDE® Material into the recesses in the overdenture and seat it over the Housings and onto the tissue. Have the patient close into light occlusion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

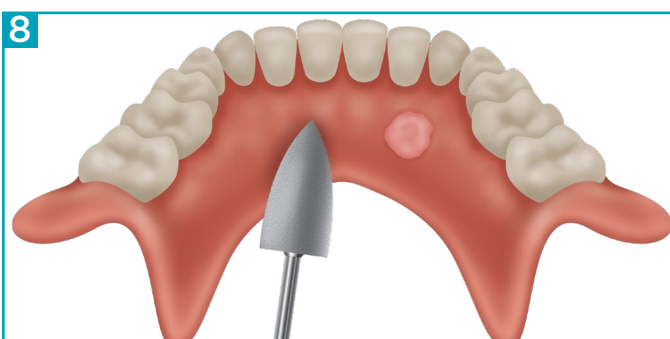
NOTE: Excessive occlusal pressure during the setting time may cause tissue recoil against the overdenture base and could contribute to dislodging and premature wear of the Males.



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

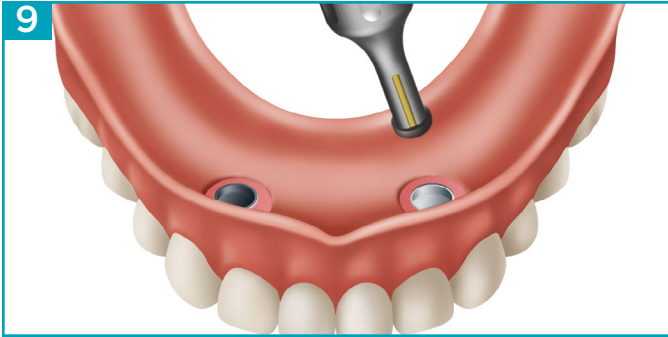


7 Use the LOCATOR CHAIRSIDE® Trim Bur to remove any excess acrylic material remaining on the overdenture.

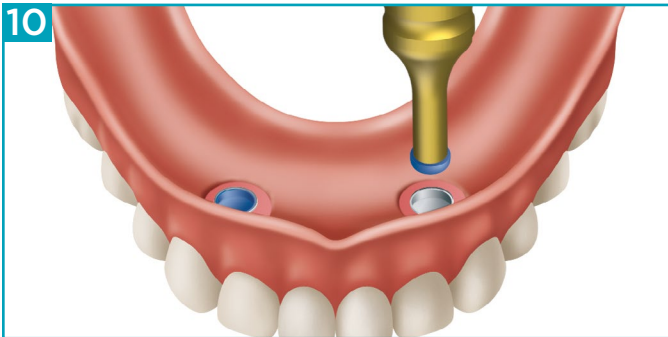


8 Use the LOCATOR CHAIRSIDE® Polish Bur to create a smooth finish of the overdenture.

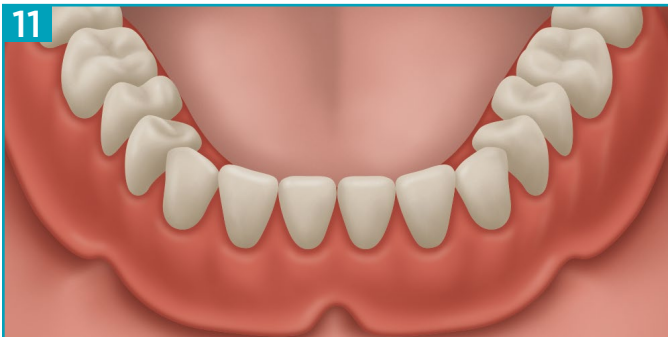
PROCESSING LOCATOR® DENTURE HOUSINGS INTO THE OVERDENTURE, DIRECT TECHNIQUE (CONTINUED)



9 Remove the Black Processing Male using the Removal Tool.

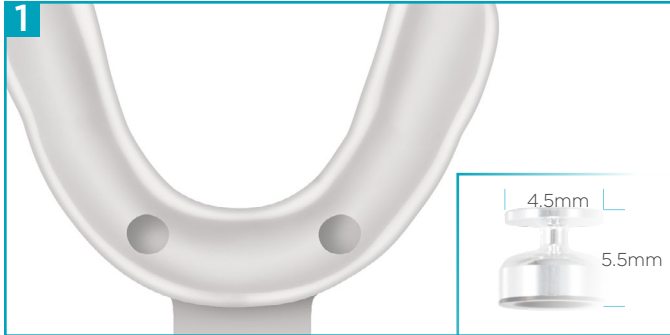


10 Place the selected final Male into each Denture Housing using the Seating Tool. Start with the least retentive Male for the initial patient try-in. Please refer to Enhanced Core Tool instructions on page 5.



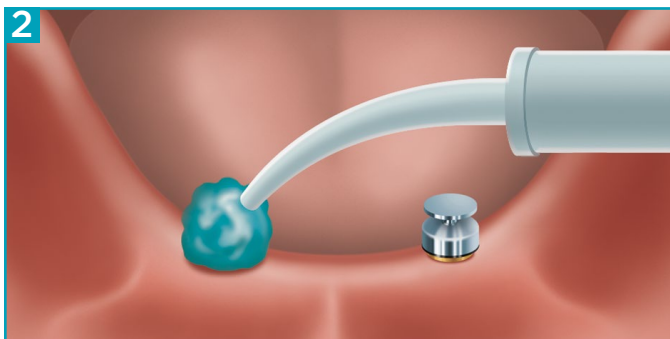
11 Seat the overdenture and press down to engage the Males on the LOCATOR Abutments and verify the occlusion. Instruct the patient on how to remove and insert the overdenture. If the retention is not satisfactory, remove the Males and replace with the next level of retention. Refer to the Standard and Extended Range Male retention chart on page 4. Please refer to page 31 for instructions on proper home care maintenance and required recall visits.

PROCESSING LOCATOR® DENTURE HOUSINGS INTO THE OVERDENTURE, INDIRECT TECHNIQUE

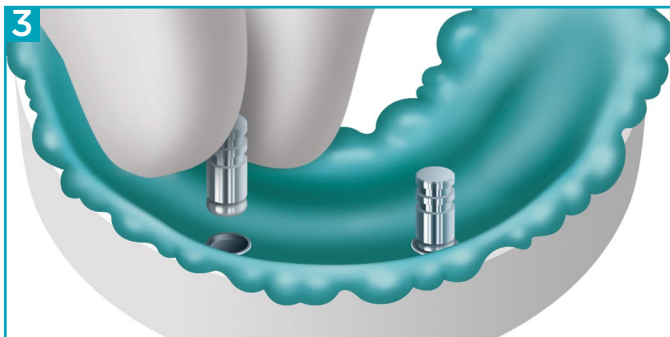


INDIRECT TECHNIQUE/LABORATORY PROCESSING

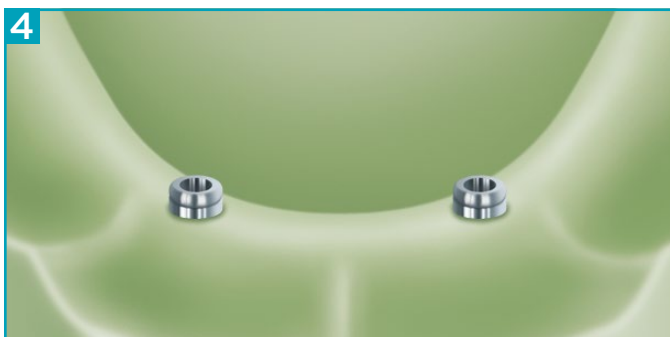
1 A stock or custom impression tray may be used. Ensure that each recess has enough space for the height of the LOCATOR Impression Copings.



2 Place a LOCATOR® Impression Coping on each Abutment and press down firmly. Syringe LOCATOR CHAIRSIDE® 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.

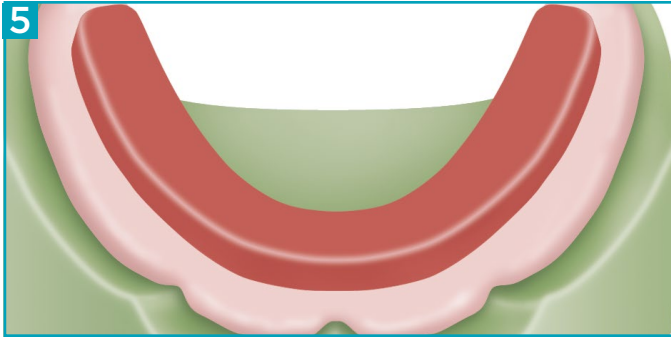


3 Seat the appropriate diameter LOCATOR Analogs into each Impression Coping and send the impression to the laboratory.

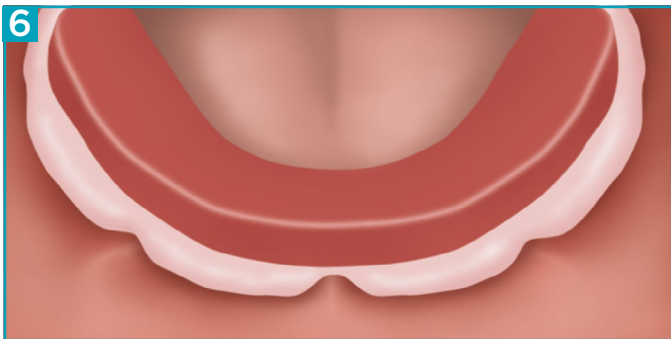


4 Verify that the Analogs are secure in the Impression Copings and pour a model.

PROCESSING LOCATOR® DENTURE HOUSINGS INTO THE OVERDENTURE, INDIRECT TECHNIQUE (CONTINUED)

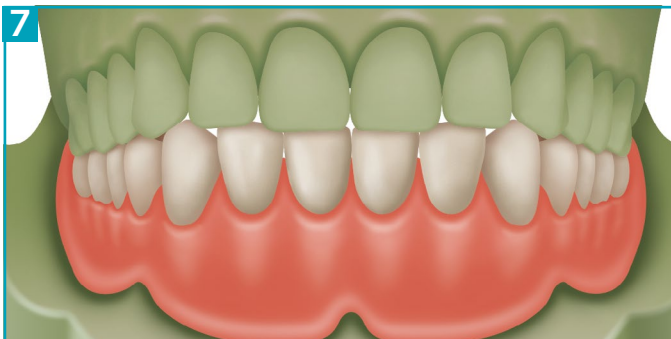


5 Fabricate the baseplate and wax rim on the cast for the bite registration. The Denture Housings with Black Processing Males may be processed into the baseplate to provide stabilization during record making and try-in.

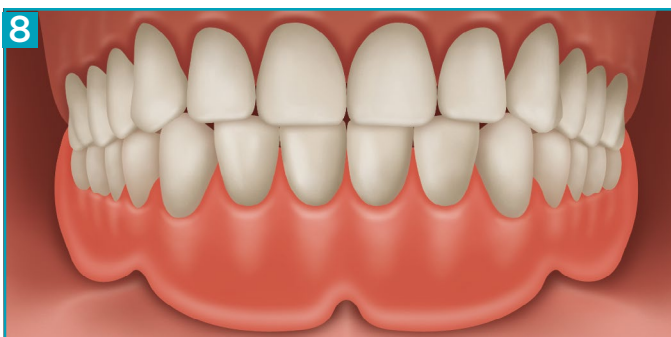


6 BITE RECORDS

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 overdenture teeth.



7 Articulate the models and proceed with the overdenture teeth set up.



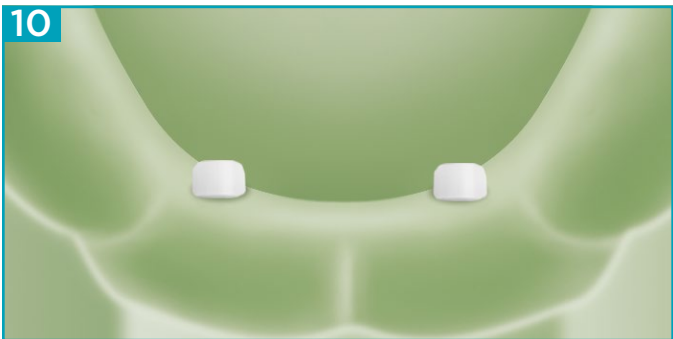
8 OVERDENTURE TRY-IN

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

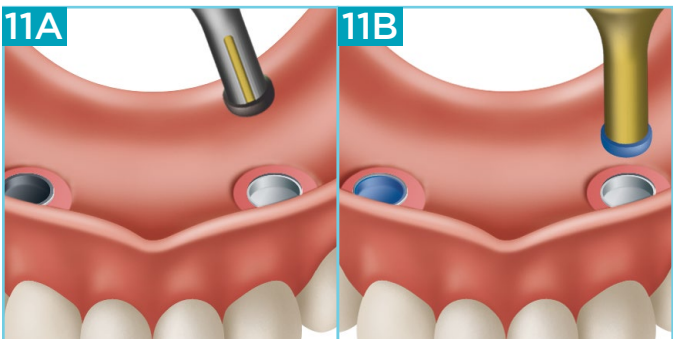
PROCESSING LOCATOR® DENTURE HOUSINGS INTO THE OVERDENTURE, INDIRECT TECHNIQUE (CONTINUED)



9 Finalize and flask the overdenture for processing. Separate the flask and boil away all wax. Place the Denture Caps with Black Processing Males 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.

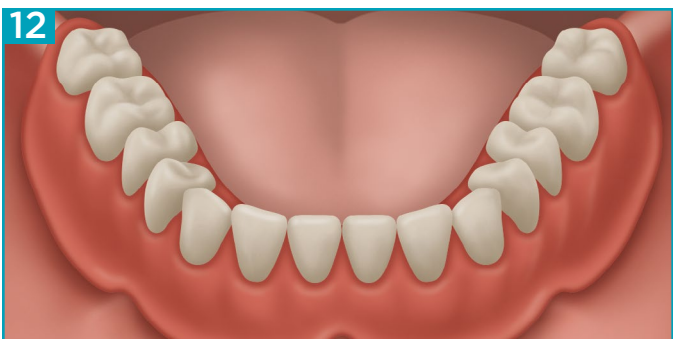


10 Optional Step: A Processing Spacer could be used instead of the Denture Housings during the fabrication of the overdenture if the clinician prefers to pick up the Denture Housings chairside. The Processing Spacer creates a recess in the overdenture to allow for the Denture Housing to be seated without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



11A-11B Remove the Black Processing Male using the Removal Tool. Place the selected final Male into each Denture Housing using the Insertion Tool. Start with the least retentive Male for the initial patient try-in.

NOTE: Please refer to the LOCATOR Enhanced Core Tool instructions on page 5.



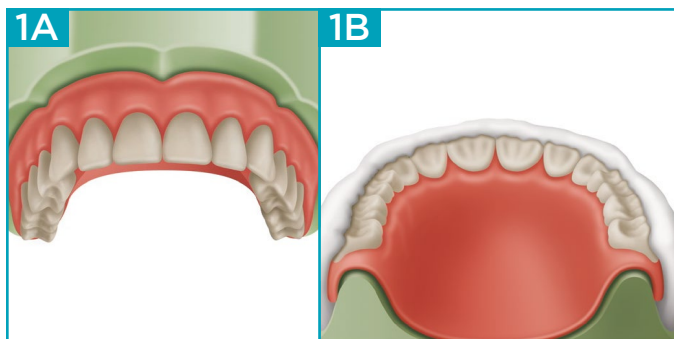
12 DELIVERY

Place the overdenture in the mouth and press down to engage the Males on the Abutments. Verify the occlusion. If the retention is not satisfactory, remove the Males and replace with the next level of retention.

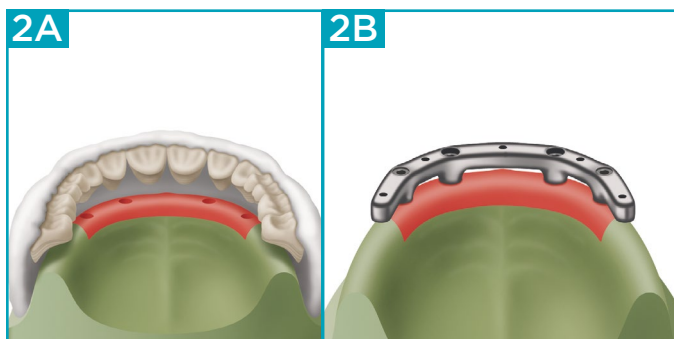
NOTE: Please refer to the Standard and Extended Range Male chart on page 4 for additional selection criteria. Please refer to page 31 for instructions on proper home care maintenance and required recall visits.

LOCATOR® BAR ATTACHMENT SYSTEM

DRILL AND TAP



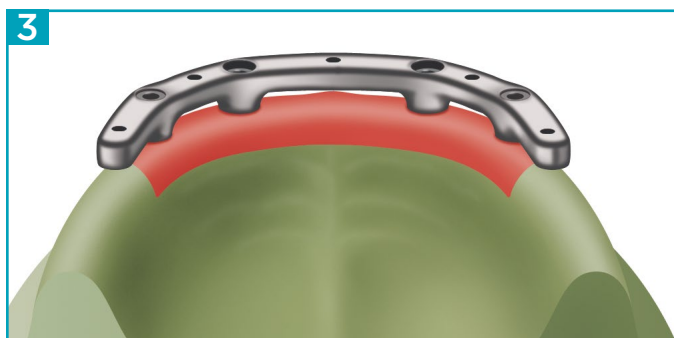
1A-1B After completing the overdenture wax try-in, make a matrix of the set up.



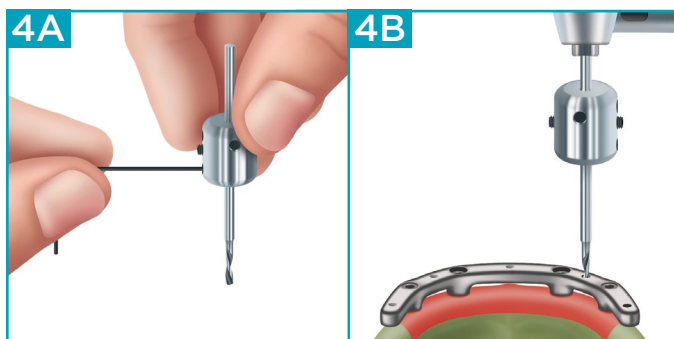
2A-2B With the teeth placed back in the matrix, seat the matrix on the model. Determine the locations for the LOCATOR Bar Abutments in relation to the implant positions, spacing between Abutments, and the interarch space.

Fabricate the bar.

NOTE: A minimum of 5.0mm between the edges of multiple LOCATOR Bar Abutments is required to avoid interference with the Denture Housings.



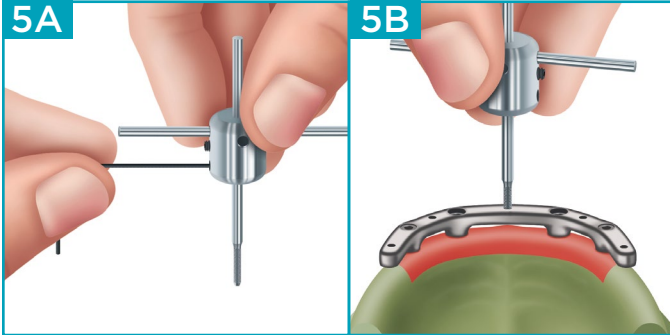
3 Using a round bur, create a dimple in the top of the bar at the Abutment locations elected.



4A-4B Select the appropriate Bar Drill and finger tighten into the Drill and Tap Holder. Place the assembly into the handpiece. Position the drill on the dimple and drill to a depth of 2.8mm.

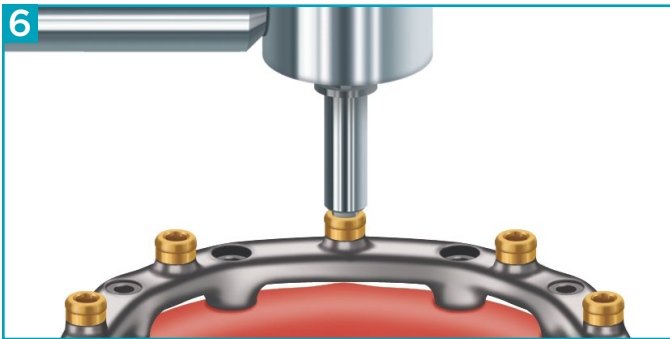
LOCATOR® BAR ATTACHMENT SYSTEM

DRILL AND TAP (CONTINUED)

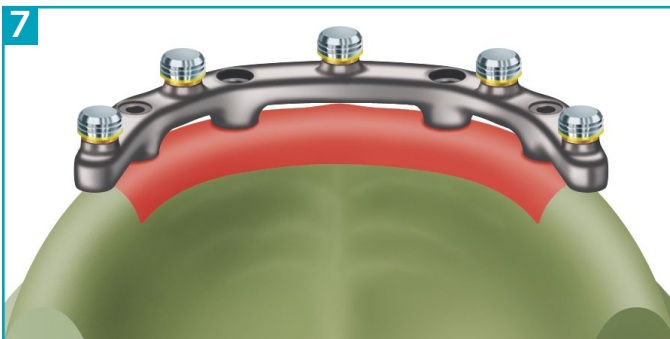


5A-5B Select the appropriate Bar Tap and finger tighten into the Drill and Tap Holder. Manually tap the threads within each drilled site.

NOTE: The use of tapping fluid while cutting the threads into the bar is required to reduce the chance of breaking the tap off in the site.



6 Seat each LOCATOR Bar Abutment to 30Ncm using a torque device and the LOCATOR Driver Insert.

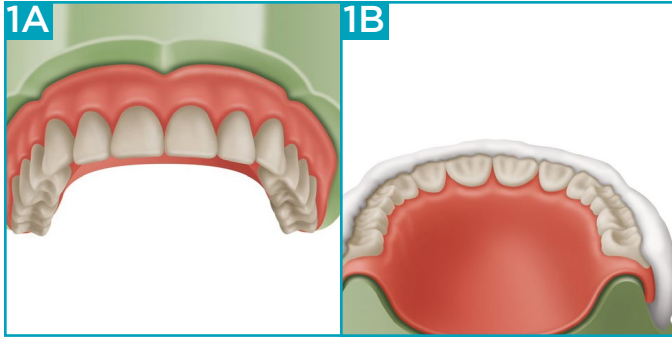


7 Snap a Denture Housing with a yellow Processing Male onto each LOCATOR Abutment and verify that the bar does not interfere with the seating of the Denture Housing.

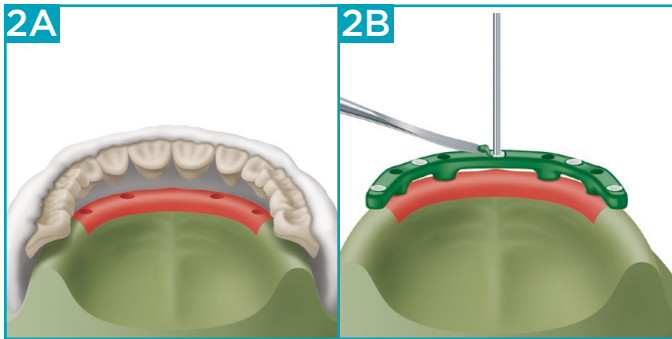
Proceed with the fabrication of the prosthesis.

LOCATOR® BAR ATTACHMENT SYSTEM

CASTABLE THREADED INSERT

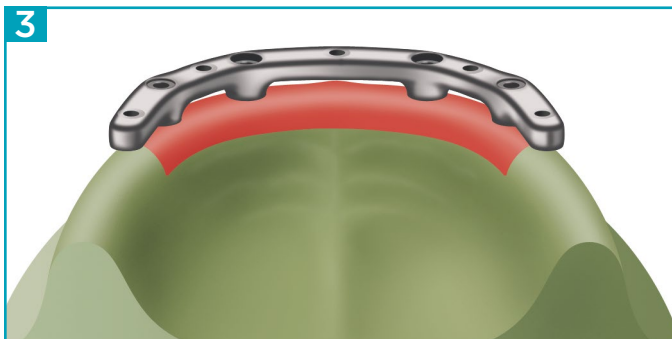


1A-1B After completing the overdenture wax try-in, make a matrix of the teeth set up.

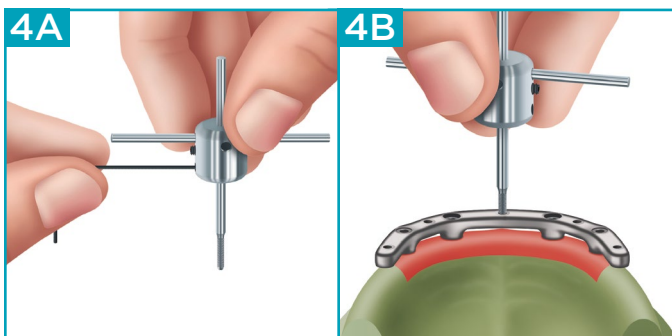


2A-2B With the teeth placed back in the matrix, seat the overdenture bar onto the implant components. Survey and set a Castable Threaded Insert into the wax pattern of the bar at the locations selected.

NOTE: A minimum of 5.0mm between the edges of multiple LOCATOR Bar Abutments is required to avoid interference with the Denture Housings.



3 Invest and cast the bar using standard casting procedures. The threaded inserts will become part of the cast bar.

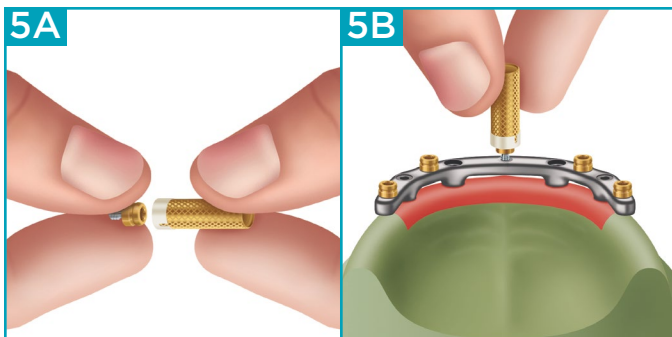


4A-4B Divest, finish and polish the cast bar. Finger tighten the Bar Tap manually into the Drill and Tap Holder. Use the Bar Tap to manually chase and clean the internal threads of each insert.

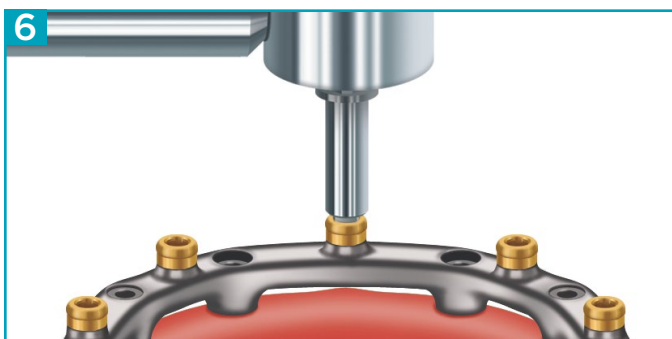
NOTE: The use of tapping fluid while cleaning the threads into the bar is required to reduce the chance of breaking the tap off in the site.

LOCATOR® BAR ATTACHMENT SYSTEM

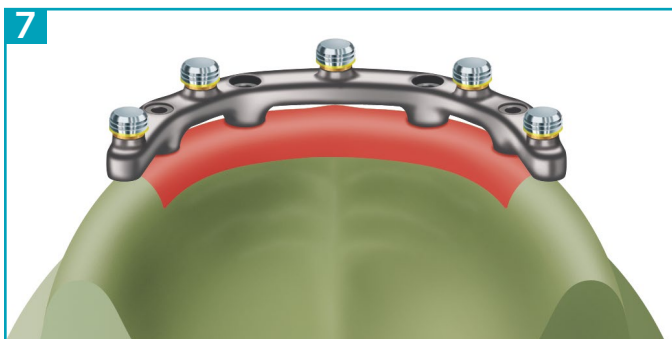
CASTABLE THREADED INSERT (CONTINUED)



5A-5B Place the LOCATOR Abutment into the Abutment Holder Sleeve and thread the Abutment into each castable insert.



6 Torque each LOCATOR Bar Abutment to 30Ncm using a torque device and the LOCATOR Driver Insert.

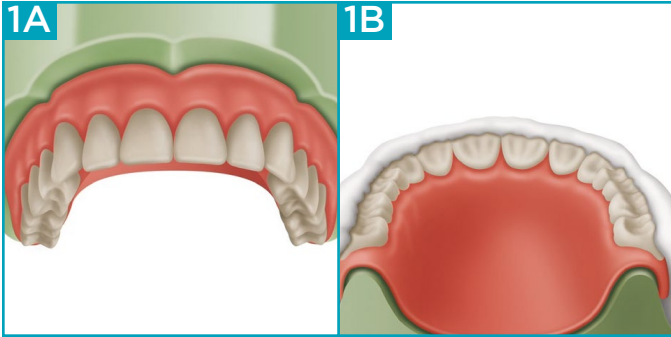


7 Snap a Denture Housing with a yellow Processing Male onto each LOCATOR Abutment and verify that the bar does not interfere with seating of the Denture Housing.

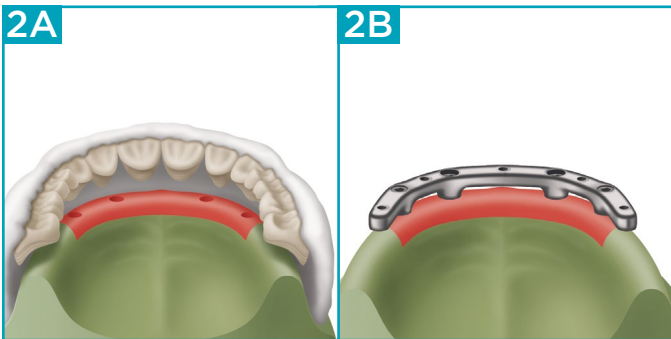
Proceed with the fabrication of the prosthesis.

LOCATOR® BAR ATTACHMENT SYSTEM

LASER WELD



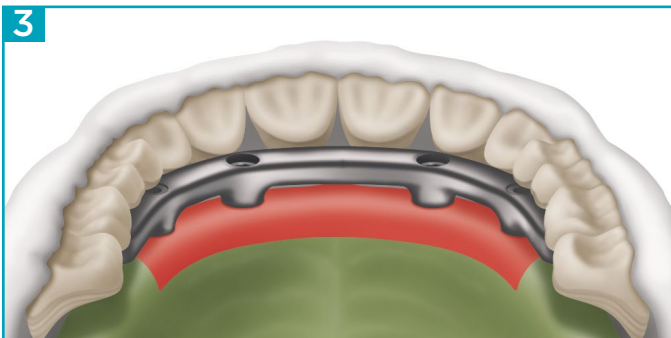
1A-1B After completing the overdenture wax try-in, make a matrix of the teeth set up.



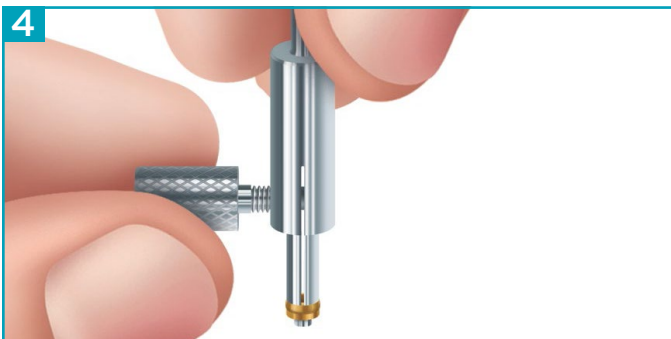
2A-2B With the teeth placed back in the matrix, seat the matrix on the model. Determine the locations for the LOCATOR Bar Abutments in relation to the implant positions, spacing between attachments and the interarch distance space.

Fabricate the bar.

NOTE: A minimum of 5.0mm between the edges of multiple LOCATOR Bar Abutments is required to avoid interference with the Denture Housings.



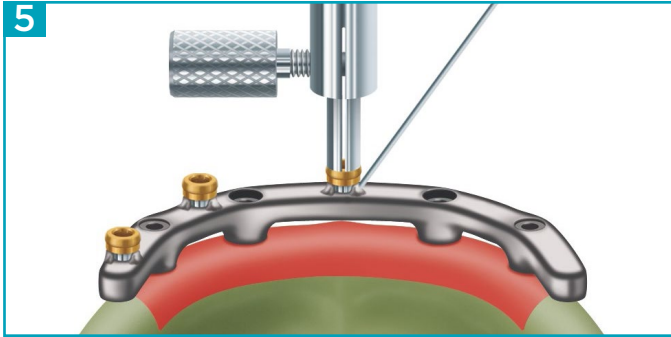
3 Place the matrix back on the model over the bar and verify that there is the needed space for the attachment at each location.



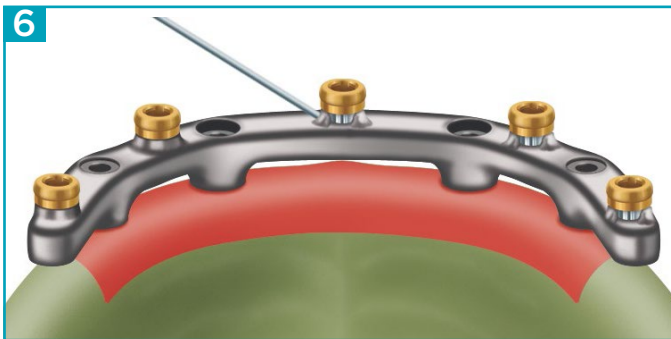
4 Place the split end of the LOCATOR Paralleling Mandrel into the socket of the Laser Bar and finger tighten the knurled set screw to spread the split portion and secure the Abutment on the mandrel.

LOCATOR® BAR ATTACHMENT SYSTEM

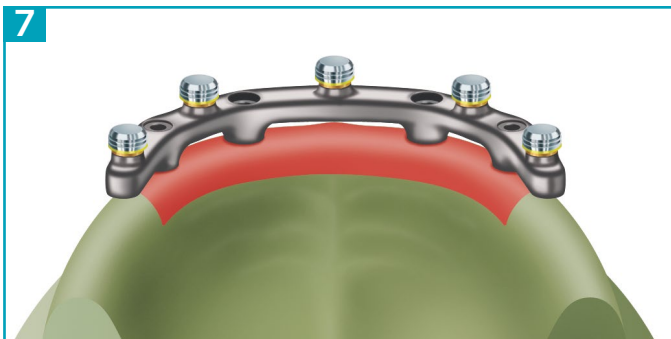
LASER WELD (CONTINUED)



5 Place the Paralleling Mandrel in a surveyor and place the LOCATOR Bar Abutments in position on the bar. Tack the LOCATOR Bar Abutments into place by spot welding on opposite sides.



6 Loosen the screw on the Paralleling Mandrel and remove it. Form a bead of weld around the entire circumference of the base area, welding the LOCATOR Bar Abutments to the bar.

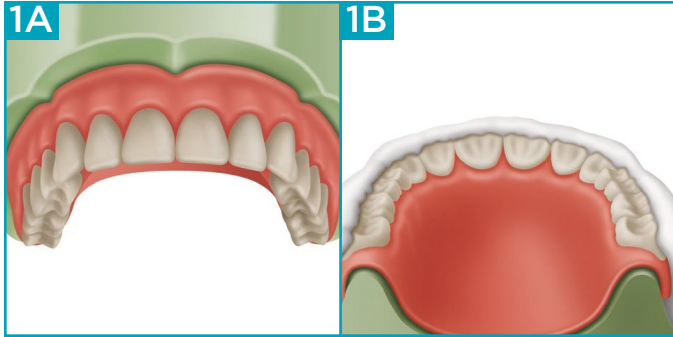


7 Snap a Denture Housing with a Yellow Processing Male onto each LOCATOR Bar Abutment and verify that the laser weld does not interfere with the Housing seating completely.

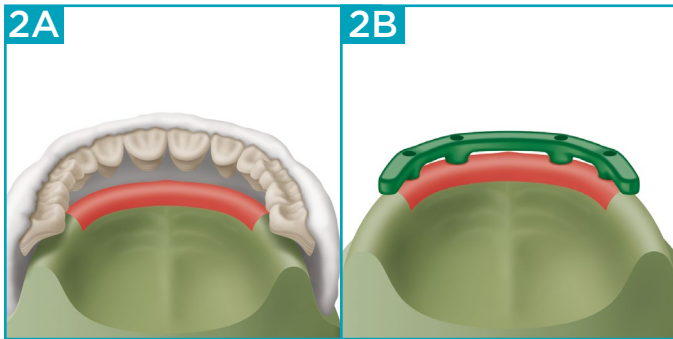
Proceed with the fabrication of the prosthesis.

LOCATOR® BAR ATTACHMENT SYSTEM

CAST-TO BAR

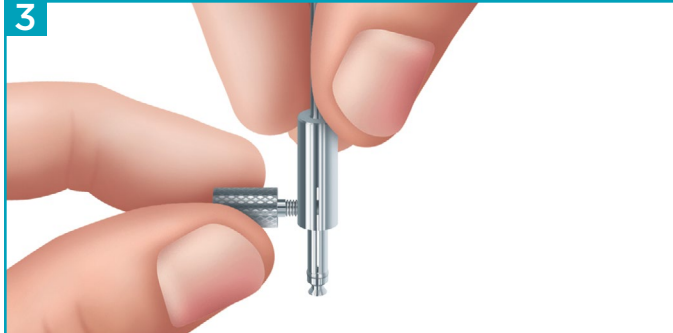


1A-1B After completing the overdenture wax try-in, make a matrix of the teeth set up.

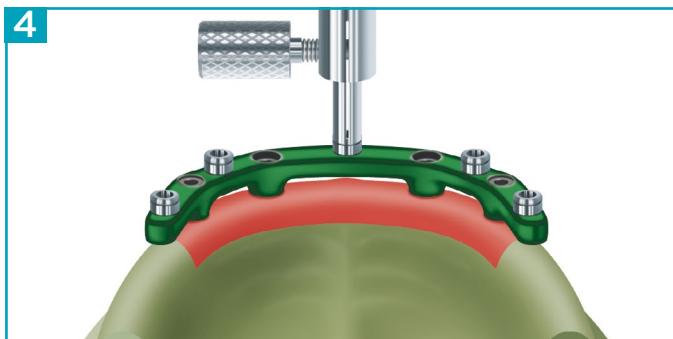


2A-2B With the teeth placed back in the matrix, seat the matrix on the model. Determine the locations for the LOCATOR Bar Abutments in relation to the implant positions, spacing between attachments and the interarch space. Wax the overdenture bar to the implant components.

A minimum of 5.0mm between the edges of multiple LOCATOR Bar Abutments is required to avoid interference with the Denture Housings.



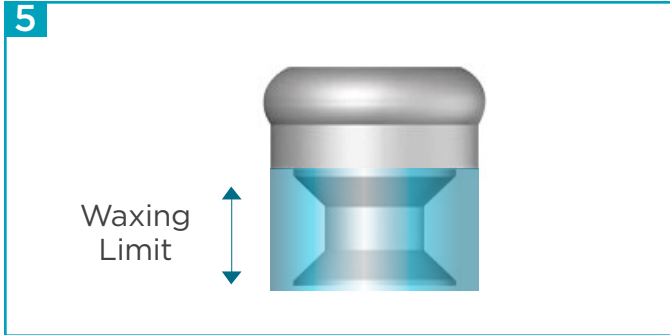
3 Place the split end of the LOCATOR Paralleling Mandrel into the socket of the Laser Bar Abutments and finger tighten the knurled set screw to spread the split portion and secure the Abutments on the mandrel.



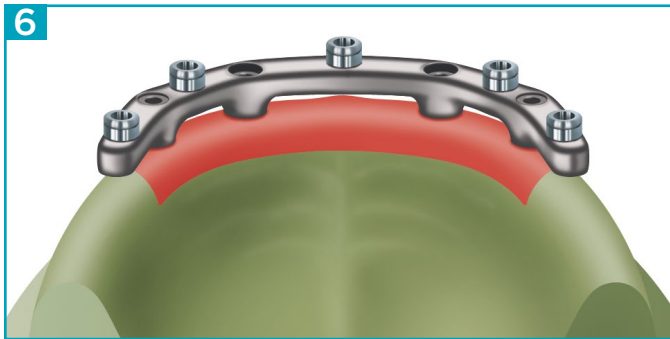
4 Use the LOCATOR Paralleling Mandrel in a surveyor to place all the Cast-To Bar Abutments into the waxed bar ensuring parallelism. Wax the Cast-To Bar Abutments into position.

LOCATOR® BAR ATTACHMENT SYSTEM

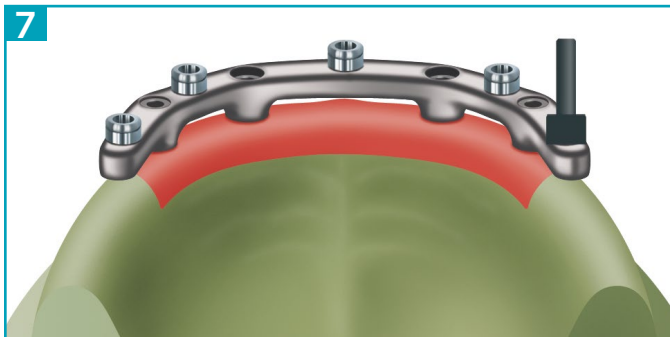
CAST-TO BAR (CONTINUED)



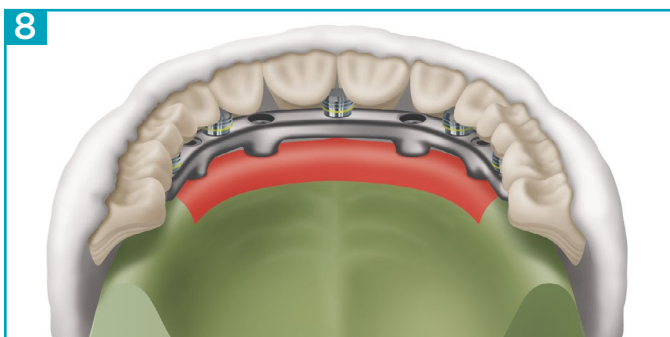
5 Wax should be built up to the top of the retentive recess and not above the line indicated.



6 Invest and cast the Bar using standard casting procedures. The Cast-To Bar Abutments will become part of the cast bar.



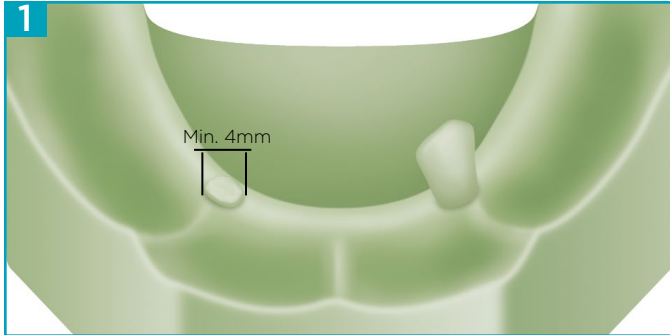
7 Divest, finish and polish the cast bar. Use caution to not damage the Cast-To Abutments. A LOCATOR Parallel Post may be placed on the Abutment to protect it while polishing.



8 Snap a Denture Housing with a Yellow Processing Male onto each LOCATOR Abutment and verify that there are no interferences with the bar. Proceed with the fabrication of the prosthesis.

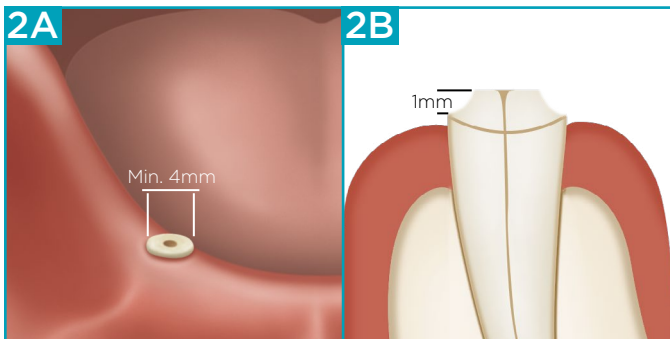
LOCATOR® ROOT ATTACHMENT SYSTEM

PLACEMENT OF LOCATOR ROOT ABUTMENT

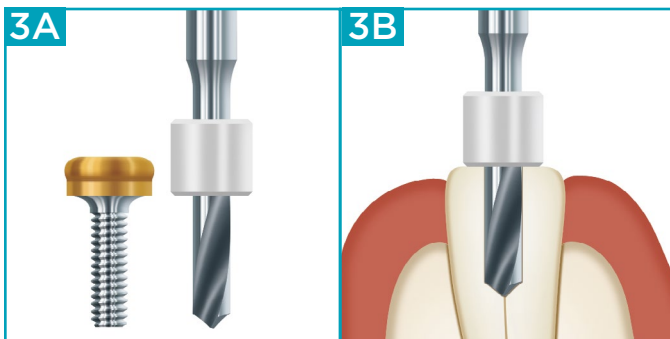


1 Take an impression of the arch and pour a diagnostic model. Reduce the teeth to 1mm above the gingival tissue and measure the root width to determine the space available for a LOCATOR Root Abutment.

NOTE: The width of the root surface must equal or exceed 4mm.

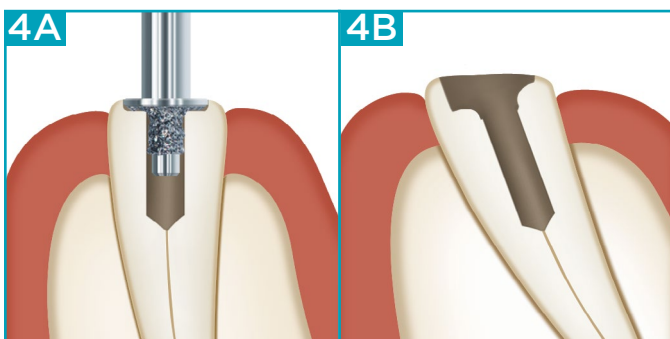


2A-2B Radiograph the tooth roots to measure and determine the proper angle of post on the LOCATOR Abutment. Decoronate the root and perform endodontic therapy. Remove the desired depth of gutta percha following standard clinical procedures. Finish contouring of the roots. The final reduction should place the root surface 1mm supragingival.



3A-3B Hold the LOCATOR Abutment next to the Pilot Drill and set the plastic Depth Reference Ring on the Pilot Drill to match the screw threads length. The screw threads can be shortened if needed. Size the canal using the Pilot Drill stopping at the depth ring. The alignment of this initial preparation will generally follow the canal. On a non-parallel root, the resulting divergence can be corrected using an angled LOCATOR Abutment 10° or 20°.

CAUTION: The danger of root perforation exists when the full length of the Pilot Drill is used.

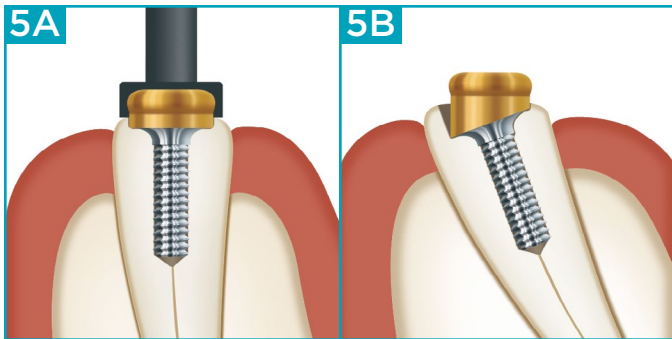


4A-4B Spotface the root surface using the Spotface Diamond Bur to a depth where a full 360° recessed seat first appears on the occlusal surface of the root. When making a countersink preparation into a divergent root, the depth of the countersink will vary across the surface. Create the minimum possible recessed seat on the shallow side of the preparation.

In the event a portion of the original depth from the Pilot Drill canal preparation is lost due to countersinking, re-establish the full depth of the canal preparation with the Pilot Drill using the original Depth Reference Ring Setting.

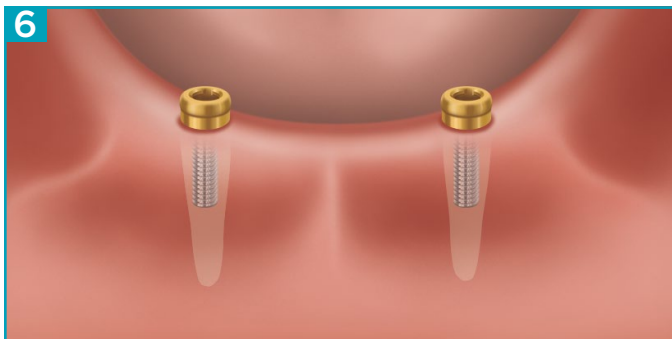
LOCATOR® ROOT ATTACHMENT SYSTEM

PLACEMENT OF LOCATOR ROOT ABUTMENT (CONTINUED)



5A-5B Place a LOCATOR Parallel Post onto a 0° LOCATOR Root Abutment to act as handle. Place a 0° LOCATOR Root Abutment into each of the prepared roots and verify the proper fit and parallel alignment of multiple Abutments. If the alignment of any of the Abutments can be improved for draw, select the most suitable angled LOCATOR Root Abutment (10° or 20°) and try it into the preparation to determine ideal parallelism.

NOTE: Make a small indexing mark on the LOCATOR Root Abutment base and the root surface to return the angled Root LOCATOR to the exact position during cementation.

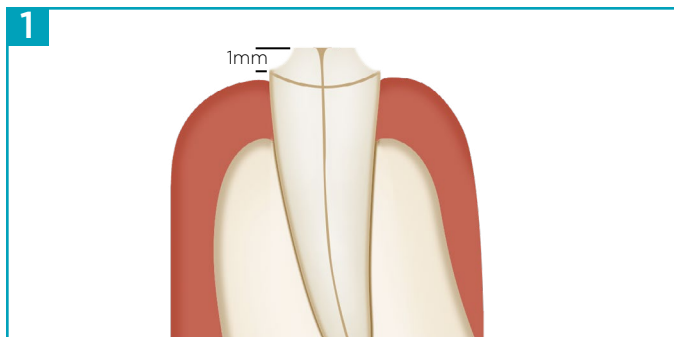


6 Cement the LOCATOR Root Abutment in place with dental cement of choice. Allow the cement to set. Round off and polish the root surface from the metal flange to the tissue. The Parallel Post can be placed on the LOCATOR Root Abutment to protect it during polishing.

Please refer to page 10 for Direct Pick-Up Techniques.

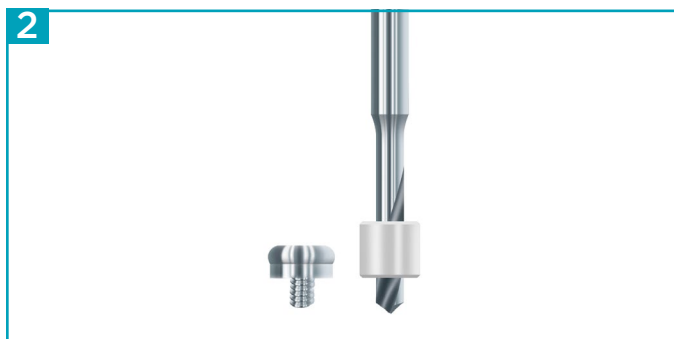
LOCATOR® ROOT ATTACHMENT SYSTEM

CAST-TO COPING

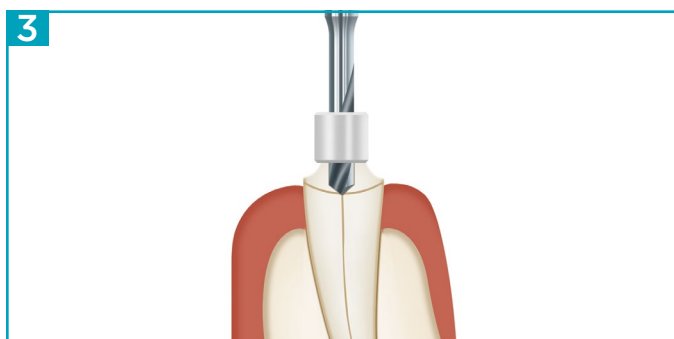


1 CAST-TO COPING

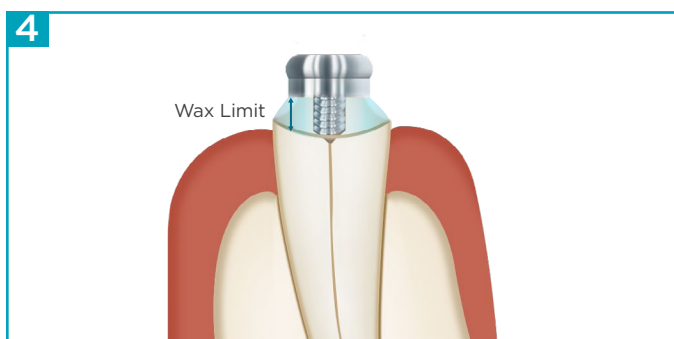
Decoronate the root and perform endodontic therapy. Remove the desired depth of gutta percha following standard clinical procedures. Finish the contouring of the root. The final reduction should place the root surface 1mm above gingival tissue. Prepare with a beveled shoulder or a chamfer margin.



2 Hold the Cast-To LOCATOR Abutment next to the Pilot Drill and set the plastic Depth Reference Ring on the Pilot Drill to a depth that slightly exceeds the Cast-To Coping thread length.



3 Size the canal using the Pilot Drill stopping at the depth ring. The alignment of this initial preparation will generally follow the canal. On a non-parallel root, the resulting divergence can be corrected using an angled LOCATOR Root Abutment (10° or 20°).



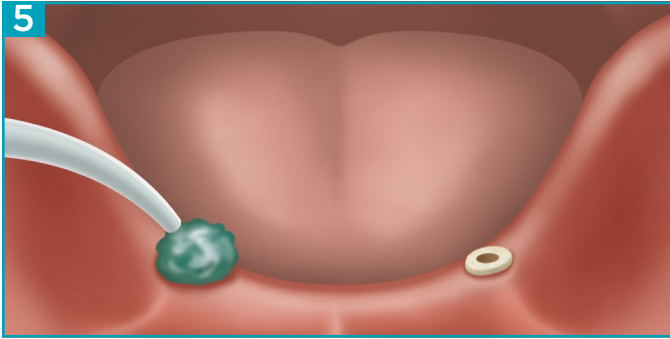
4 Complete the preparation of the site with dental burs of preference to ensure that the cast gold coping will completely surround the LOCATOR Cast-To Abutment.

NOTE: The outer surface on the base of the LOCATOR Cast-To Abutment must remain above the level of the coping to allow the Denture Housing to snap on without interference.

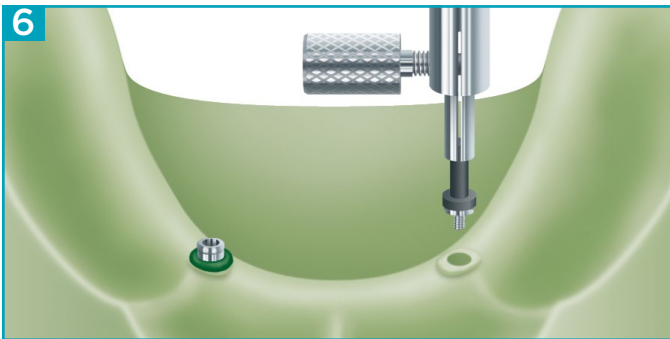
Please refer to page 10 for Direct Pick-Up Techniques.

LOCATOR® ROOT ATTACHMENT SYSTEM

CAST-TO COPING (CONTINUED)

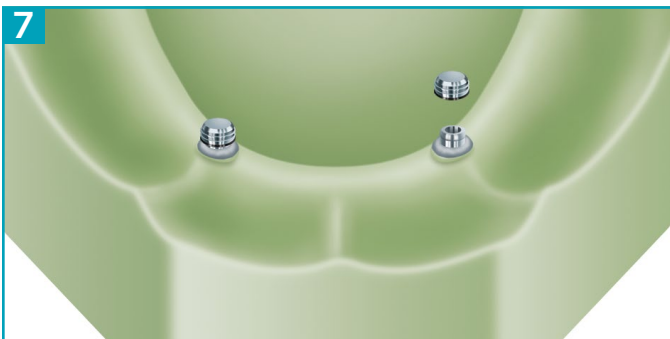


5 Take an impression of the arch and of the prepared roots, capturing as much detail as possible. Pour the master cast and prepare the dies.



6 Using a surveyor, place the Parallel Post with the Cast-To LOCATOR Root Abutment attached in position and parallel with other Abutments. Wax the Cast-To LOCATOR Root Abutment directly into the die. Build the wax up to the bottom corner on the base of the Abutment, leaving the majority of the outer surface on the base above the level of the coping. Remove the wax up from the die and remove the Parallel Post from the Abutment, leaving the top of the Abutment open for investment material to flow into.

Invest and cast. Finish and polish the surface of the coping. The Parallel Post can be placed on the LOCATOR to protect it while polishing.



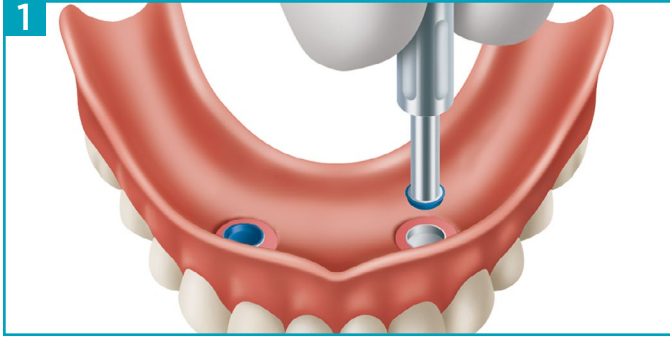
7 Snap a Denture Housing with a Black Processing Male onto each LOCATOR Analog and verify that there is no interference with the Denture Housing seating.

Proceed with the fabrication of the prosthesis.

Please refer to page 10 for Direct Pick-Up Techniques.

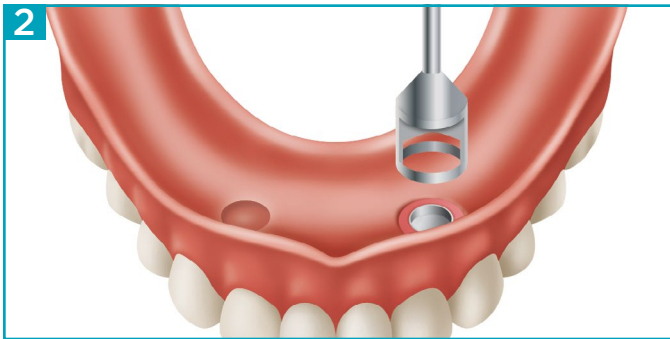
MAINTENANCE OF THE LOCATOR® ABUTMENT

RELINE OF IMPLANT-RETAINED AND TISSUE SUPPORTED OVERDENTURES

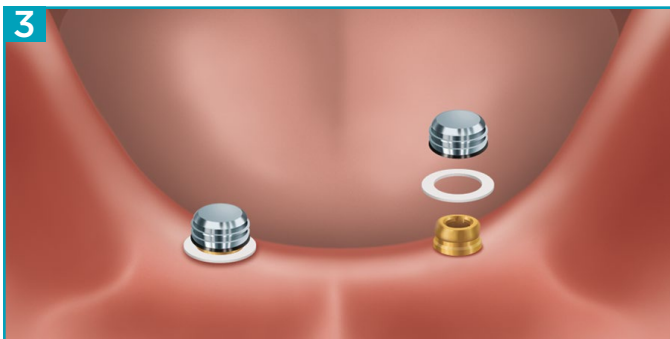


1 Remove the Males from the overdenture.

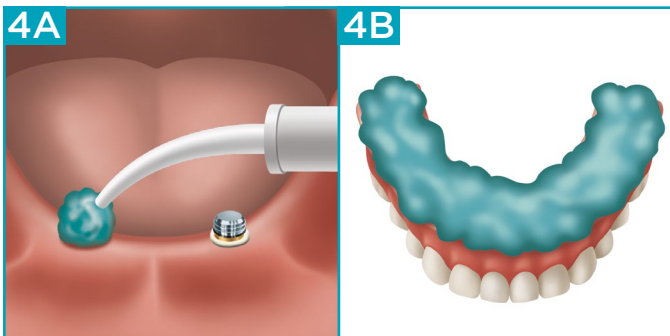
NOTE: Please refer to the LOCATOR Enhanced Core Tool instruction on page 5.



2 Using a trephine drill, remove the existing Denture Housing from the overdenture.



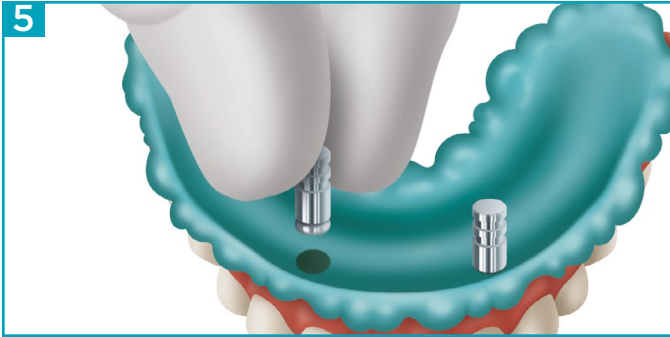
3 Place a white Block-Out Spacer around each Abutment and press it down to the tissue. Snap a new Denture Housing with a pre-loaded Black Processing Male onto each Abutment, pressing down firmly. Try in the overdenture to ensure each recess is large enough to accommodate the new Denture Housing with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



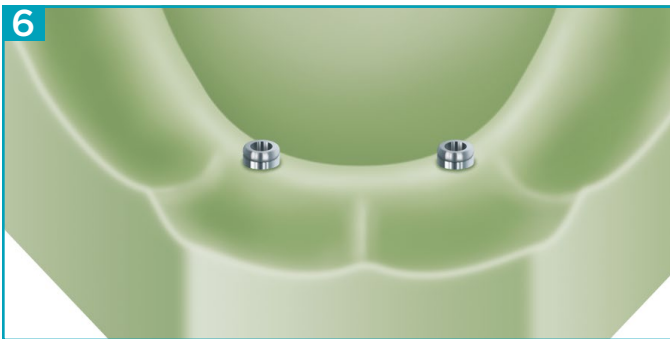
4A-4B Apply an adhesive to the intaglio surface of the overdenture and take an impression using the overdenture as a tray. Place the overdenture into the mouth. Have the patient close into the light occlusion and hold. Allow the impression material to set.

MAINTENANCE OF THE LOCATOR® ABUTMENT

RELINE OF IMPLANT-RETAINED AND TISSUE SUPPORTED OVERDENTURES (CONTINUED)



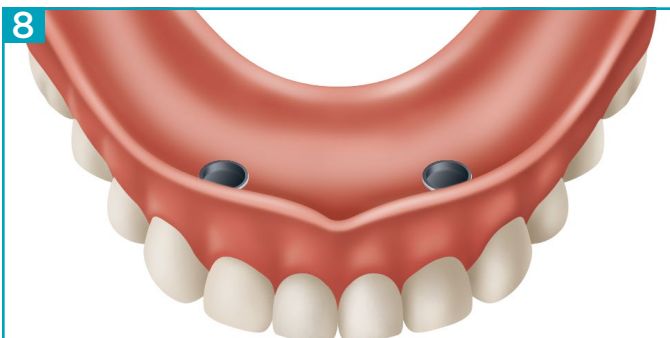
5 Remove the overdenture from the mouth. The Denture Housing will be picked up in the impression. Press the LOCATOR Analogs into the Black Processing Males. Send the reline impression to the laboratory.



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



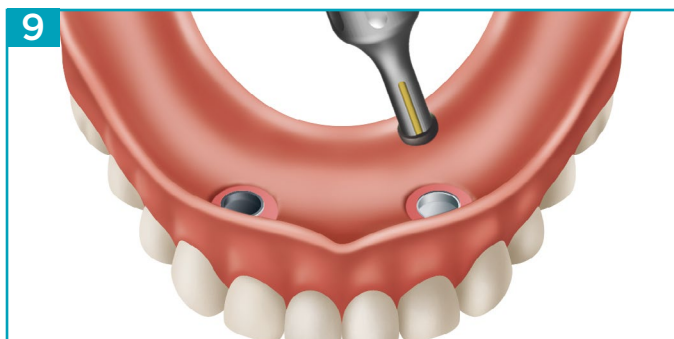
7 Mount the cast with the overdenture on it in a reline jig.



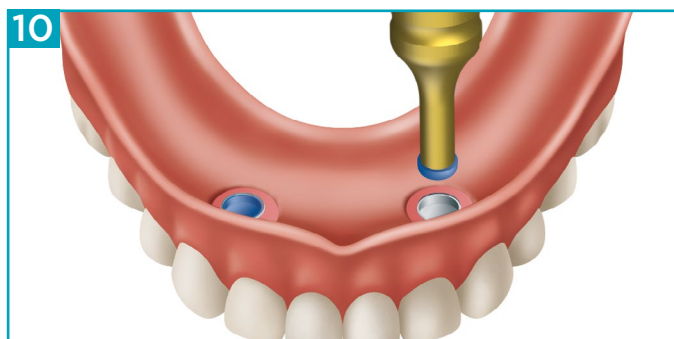
8 Separate the reline jig and remove the impression material from the overdenture. Process the reline and remove the overdenture from the reline jig. Finish and polish.

MAINTENANCE OF THE LOCATOR® ABUTMENT

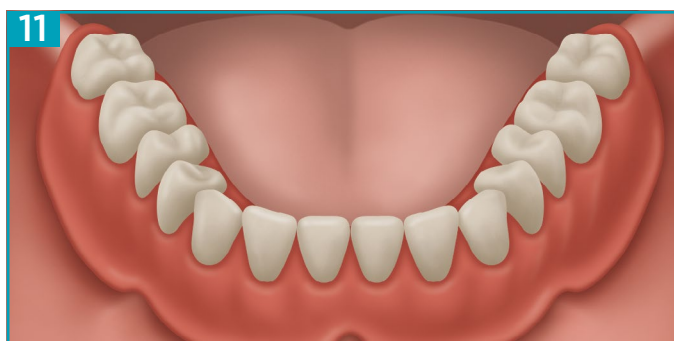
RELINE OF IMPLANT-RETAINED AND TISSUE SUPPORTED OVERDENTURES (CONTINUED)



9 Remove the Black Processing Male using the LOCATOR Enhanced Core Tool.



10 Place the selected final Male into each Denture Housing using the Insertion Tool. Start with the least retentive Male during the initial patient try-in.



11 DELIVERY

Place the overdenture in the mouth and press down to engage the Males on the Abutments. Verify the occlusion. If the retention is not satisfactory, remove the Males and replace with the next level of retention.

NOTE: Please refer to the LOCATOR Enhanced Core Tool instructions on page 5.

NOTE: Please refer to page 31 for instructions on proper home care maintenance and required recall visits.

OVERDENTURE INSERTION, REMOVAL AND CLEANING

GUIDELINES FOR THE CLINICIAN AND PATIENT

To reduce wear on LOCATOR® Abutments, it is critical that clinicians and patients perform routine maintenance on both the LOCATOR Abutment, the Denture Cap and the Retention Male. It is also important that patients understand the proper overdenture maintenance that should be performed at home to guard against retention loss of the Retention Male within the Denture Cap. The following are guidelines to consider:

INSERTING AND REMOVING AN OVERDENTURE

To insert the overdenture, the patient should ensure he/she can feel that it is properly positioned above the LOCATOR Abutments prior to applying pressure. The patient should use both hands and simultaneously press down on each side to firmly seat the overdenture into place.

The patient should avoid biting the overdenture into place as this force will result in improper wear of the LOCATOR Abutment and may affect the longevity of the prosthesis.

The patient should remove the overdenture by placing one finger under the left edge and one under the right edge of the overdenture and pull one side upward at a time. Once the overdenture is removed a thorough cleaning is recommended.

CLEANING AN OVERDENTURE

Maintaining proper hygiene is vital to the success of an overdenture, helping it last longer and function properly. Similar to natural teeth, dental plaque will also form on the surface of an overdenture. If the plaque is not removed it will continue to accumulate. It is for this reason that the overdenture should be taken out for cleaning daily. Patients should follow this one simple step daily for cleaning an overdenture.

- 1 Fill a washing basin with warm water to prevent fracture of the overdenture. Apply non-abrasive toothpaste onto a soft bristle toothbrush and thoroughly clean every surface of the overdenture.

ADDITIONAL NOTES OF CAUTION

Failure of the patient to follow oral hygiene protocols and appropriately care for the overdenture may also result in inflamed tissue around the implant, leading to the development of peri-implantitis. Throughout time, peri-implantitis may cause the implant to become mobile and fail. Please ask patients to consider the following when caring for their overdentures:

- Avoid using abrasive toothpaste to clean the overdenture. The coarse particles in the toothpaste may scratch the surfaces of the overdenture, enhancing the potential for plaque accumulation.
- Chewing tobacco may get caught in the Males and scratch the Abutments, considerably reducing the life of the Abutments, retentive features of the Males and ultimately may affect the dental implants.
- Do not soak the overdenture in bleach or any other products not designed for use with denture cleaning as these can harm the retentive feature of the Male, which may ultimately cause additional wear on the Abutment.
- If a denture cleaning solution such as Polident® or Efferdent® is used, it is recommended that the overdenture be soaked for **fifteen minutes or less**.
- Instruct patients to brush LOCATOR Abutments with a soft-bristled toothbrush and visit the dentist for regular inspection and maintenance of the Abutments, Males and Denture Housings.
- Refrain from picking at the Abutments with toothpicks or other foreign objects.
- Refrain from eating without the overdenture in place as food will scratch the Abutment and may result in failure of the dental implant.
- Oral rinse such as Listerine® mouthwash can be used safely without any negative effect on the Abutments or Replacement Males.
- Do not wash the overdenture in the dishwasher.

RETURN POLICY AND WARRANTY

ORDERING

Orders are accepted by internet, email, mail, fax, or phone. Regular business hours are 7:00am to 5:00pm PST (Pacific Standard Time). Domestic orders received by 1:00pm PST can be shipped by ground the same day. Orders received by 3:00pm PST can be shipped by express. Institutional orders require a purchase order number.

PRICING

Zest Dental Solutions® makes every effort to maintain a competitive pricing structure. Pricing is subject to routine review and change without prior notice. All prices listed are in U.S. dollars.

TERMS AND BILLING

- A. Credit Card:** Payment at the time of order with VISA, AMERICAN EXPRESS, DISCOVER or MASTERCARD is necessary for customers not approved for open account billing or special financing offers.
- B. C.O.D.:** Delivery can also be made by C.O.D. freight collect.
- C. Open Account:** An open account can be established by completing a credit application and receiving approval by Zest Dental Solutions. The terms of orders purchased under open accounts are net 30 days.
- D. Export Orders:** Individual orders shipped outside the U.S. require payment in advance or a letter of credit.
- E. Past Due Accounts:** Past due balances will be subject to a 1.5% finance charge per month, amount equal to 18% per annum.

SHIPPING CHARGES

Merchandise is shipped prepaid by Zest Dental Solutions with the cost added to the invoice, or freight collect with C.O.D. fee included in the case of C.O.D. shipments. Delivery options include Fed Ex ground, 3-day, 2-day, or overnight rush service.

LIMITED WARRANTY

Zest Dental Solutions provides a limited warranty for its products, to the original purchaser, to be free from defects in workmanship and materials under normal use and service, for a period of one year from the

date of purchase with the exception of LOCATOR and LOCATOR R-Tx abutments which carry a four year limited warranty (when purchased directly from Zest Dental Solutions) and a two year limited warranty when purchased from one of our partners. Zest Dental Solutions will, at its option, substitute the returned product that proves defective within the warranty period, with a similar product, free of charge.

Zest Dental Solutions continually strives to improve its products, and therefore, reserves the right to improve, modify, or discontinue products at any time without notice or incurring obligations. Purchaser assumes all risks and liability resulting from the use of Zest Dental Solutions Products, whether used separately or in combination with other products not of Zest Dental Solutions manufacture.

RETURN POLICY

Please Observe the Following Guidelines:

- A.** Authorization for returns must be received from Zest Dental Solutions prior to the return of any product. A Return Material Authorization (RMA) number will be provided for all returns.
- B.** Shipping charges must be prepaid by the customer to accept a return shipment.
- C.** Returned products are subject to a \$20 restocking fee for orders under \$400. For orders \$400 to \$1,000, a \$40 restocking fee will be applied. For orders exceeding \$1,000, please contact your Customer Service Representative for the restocking fee.
- D.** Returned merchandise will be accepted within 90 days of purchase if product is in saleable condition (in its original unopened package and not marred by any added writing or over-labeling).
- E.** Returns will not be accepted after 90 days of purchase.
- F.** Non-returnable items include:
 - 1. Merchandise retained beyond expiration date noted on the package.
 - 2. Packages with broken seals or missing parts
 - 3. Used, damaged, or obsolete products will not be accepted for return.

VISIT

ZESTDENT.COM

24 HOURS A DAY, 7 DAYS A WEEK

**TO PLACE ORDERS ONLINE OR TO FIND
A LISTING OF ZEST DENTAL SOLUTIONS'
LOCATOR PARTNERS**

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