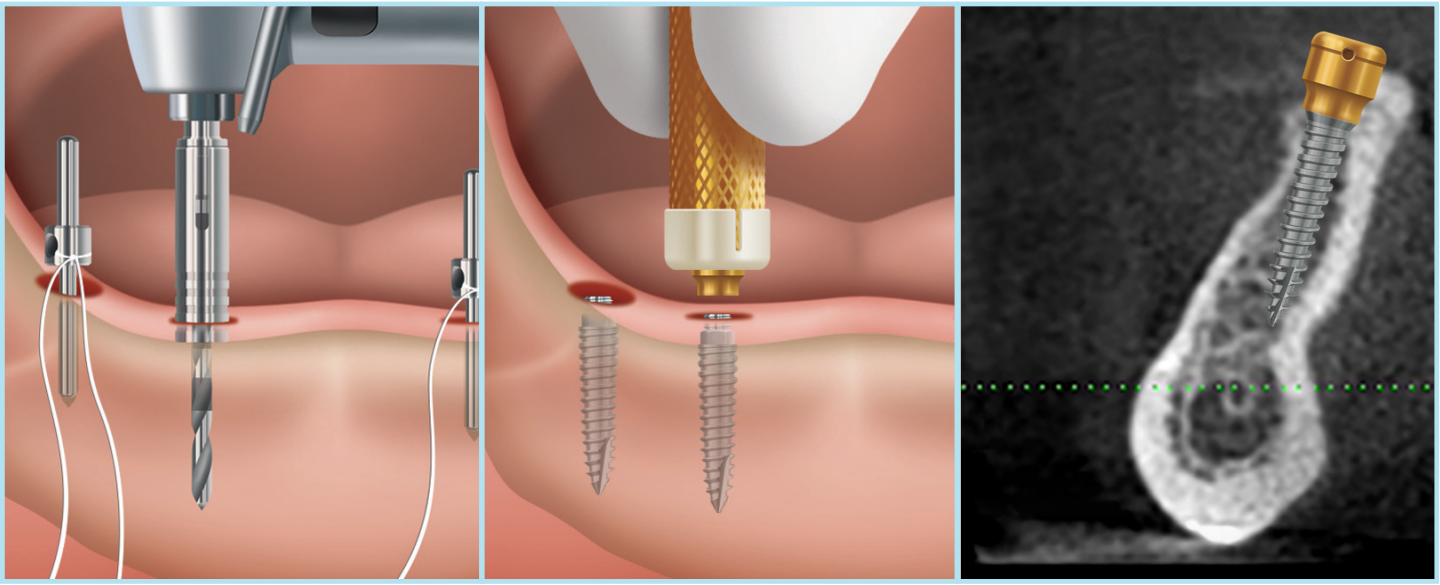
LOCATOR®
OVERDENTURE IMPLANT SYSTEM

THE LOCATOR® OVERDENTURE IMPLANT SYSTEM



TECHNIQUE MANUAL

ZD 10 YEAR WARRANTY

ZD ZEST DENTAL SOLUTIONS®

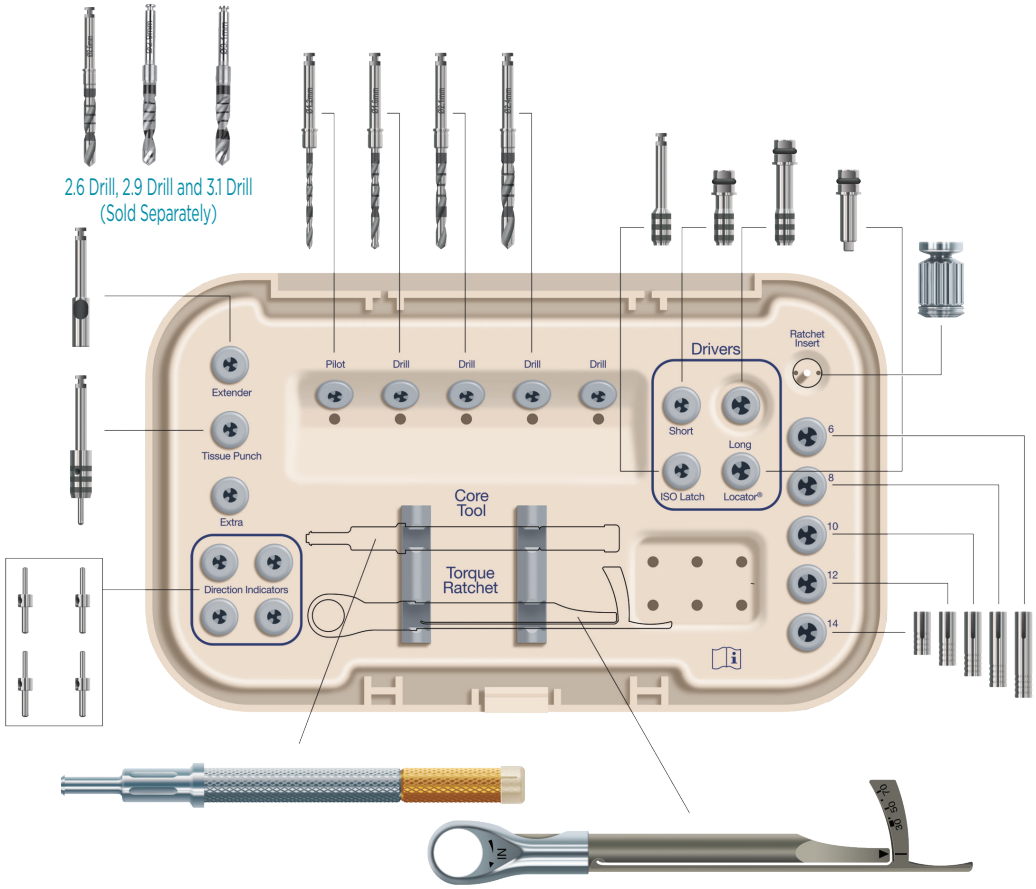
THE LOCATOR® OVERDENTURE IMPLANT SYSTEM.

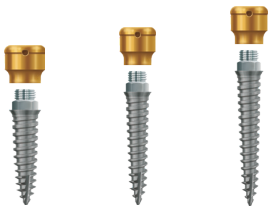
FOUR DECADES OF ATTACHMENT KNOWLEDGE INCORPORATED INTO OVERDENTURE IMPLANTS.

The LOCATOR Overdenture Implant System is comprised of 2.4, 2.9 and 3.4mm diameter dental implants (available in 10, 12 and 14mm lengths) with a detachable LOCATOR Abutment that is available in a 2.5, 3, 4, 5, or 6mm cuff height. LOCATOR Implants are used to restore masticatory function for the patient and may be suitable for immediate load if sufficient primary stability of the implant is achieved at the time of placement. The final treatment option may be determined at the time of surgery as the clinician must consider the quality of supporting bone and initial insertion torque values of the implants. Immediate function is determined on a case-by-case basis and at the discretion of the clinician.

IMPORTANT: THIS DOCUMENT CONTAINS THE MOST CURRENT TECHNICAL GUIDELINES. PLEASE READ AND RETAIN.

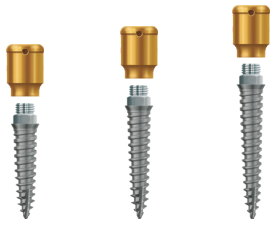
THE LOCATOR® OVERDENTURE IMPLANT SYSTEM





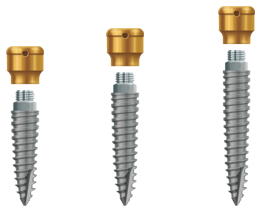
07450 07451 07452

07450	2.4mm x 10mm, 2.5mm Cuff
07451	2.4mm x 12mm, 2.5mm Cuff
07452	2.4mm x 14mm, 2.5mm Cuff



07455 07456 07457

07455	2.4mm x 10mm, 4mm Cuff
07456	2.4mm x 12mm, 4mm Cuff
07457	2.4mm x 14mm, 4mm Cuff



07460 07461 07462

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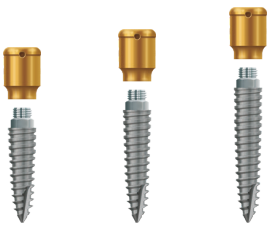
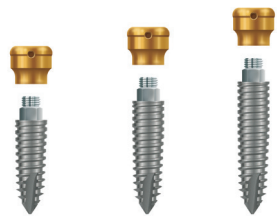
07461	2.9mm x 12mm, 2.5mm Cuff
07462	2.9mm x 14mm, 2.5mm Cuff



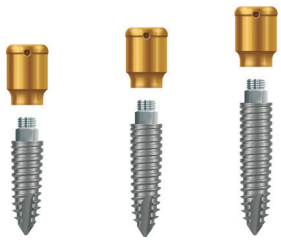
07465 07466 07467

07465	2.9mm x 10mm, 4mm Cuff
07466	2.9mm x 12mm, 4mm Cuff
07467	2.9mm x 14mm, 4mm Cuff



07470 07471 07472

07470	3.4mm x 10mm, 2.5mm Cuff
07471	3.4mm x 12mm, 2.5mm Cuff
07472	3.4mm x 14mm, 2.5mm Cuff



07475 07476 07477

07475	3.4mm x 10mm, 4mm Cuff
07476	3.4mm x 12mm, 4mm Cuff
07477	3.4mm x 14mm, 4mm Cuff

TABLE OF CONTENTS

THE LOCATOR® OVERDENTURE IMPLANT SYSTEM OVERVIEW

1. The LOCATOR Male self-aligns and pivots inside the Denture Cap providing a genuine resilient connection that holds-up to patient mastication forces while providing attachment durability

2. The LOCATOR Abutment's dramatically reduced vertical height provides patient comfort when the overdenture is removed, as well as increased overdenture strength as compared to O-Ball attachments

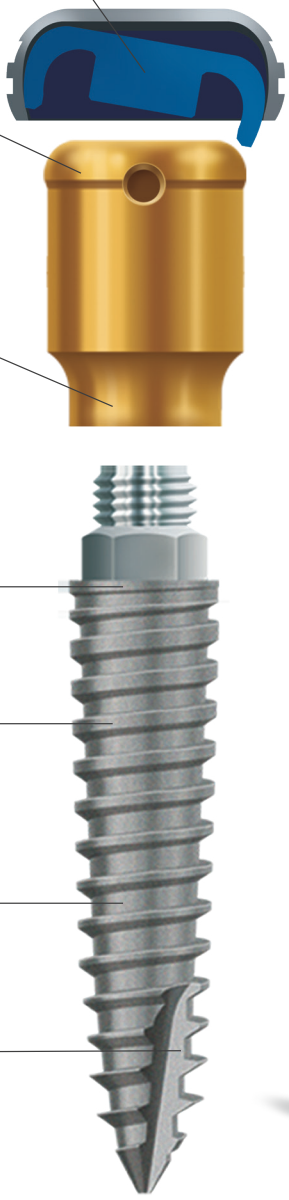
3. The LOCATOR Abutment is available in 2.5 and 4mm cuff heights for implant placement flexibility, attachment interchangeability and replacement should wear occur over time (Cuff heights 3,5 and 6 sold separately)

4. Proven RBM roughened surface on the entire length of the implant

5. Progressive thread design that widens at the coronal portion providing primary stability when immediate loading may be indicated

6. Available in 2.4, 2.9 and 3.4mm diameters and 10, 12 or 14mm lengths for placement in all ridges

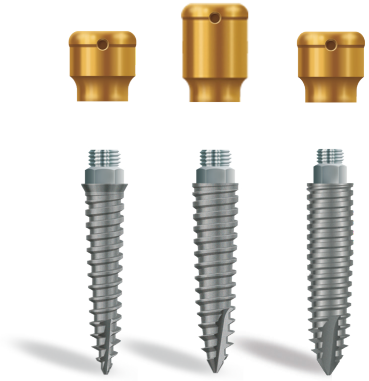
7. Self-tapping design for ease of implant insertion and increased implant stability



ALL-INCLUSIVE PACKAGE CONTAINS

1 Implant
1 LOCATOR Abutment
1 Processing Pack

Each Processing Pack has what you need to select retention levels and address draw correction; improving ease of denture placement and removal

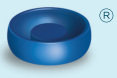


Implant Diameters
2.4, 2.9, or 3.4mm

Processing Pack

INCLUDED IN THE PROCESSING PACK

Denture Cap



Blue Standard Range Male Low Retention

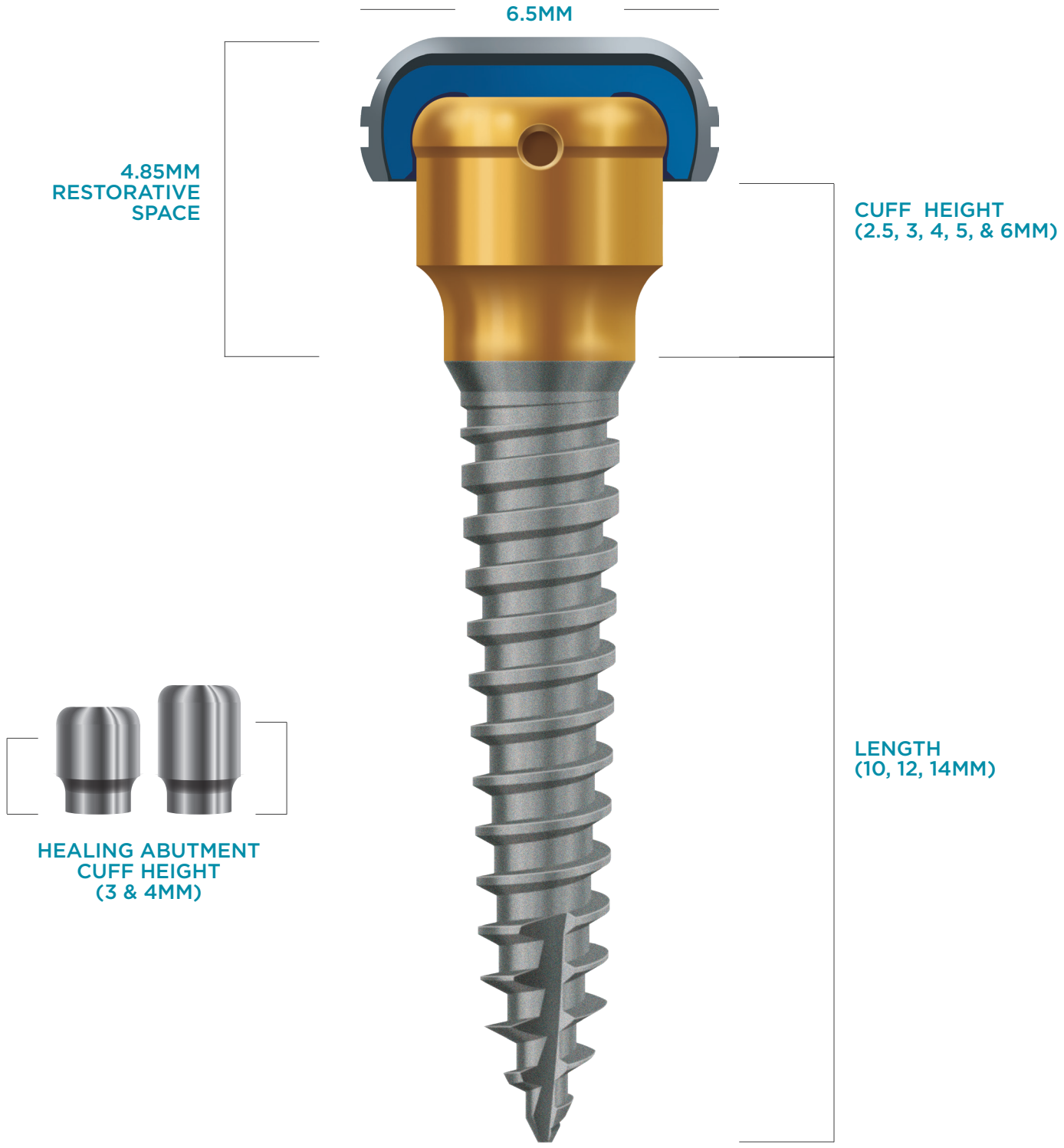
Pink Standard Range Male Medium Retention

Red Extended Range Male Low Retention

Block-Out Spacer

INTER-PROXIMAL SPACE

(ZEST RECOMMENDS 7MM BETWEEN IMPLANTS)

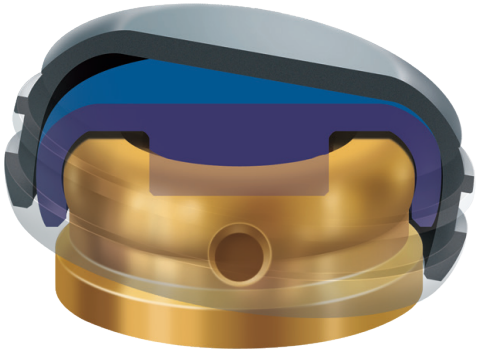


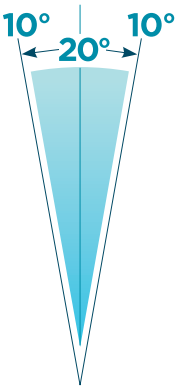
LOCATOR® STANDARD & EXTENDED RANGE MALES

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

STANDARD MALES

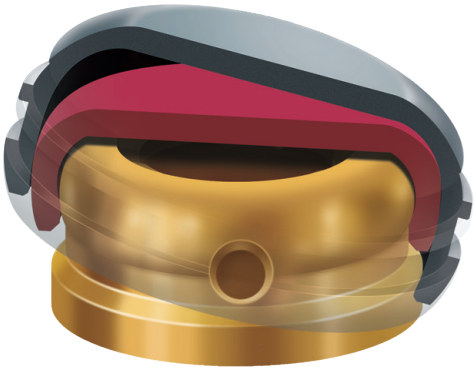
Dual retention to maximize stability and pivoting action that accommodates up to 20° of total divergence between two implants.

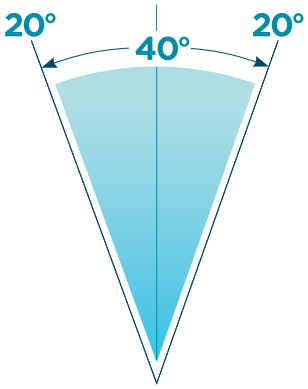




EXTENDED RANGE MALES

Pivoting action accommodates up to 40° of total divergence between two implants.





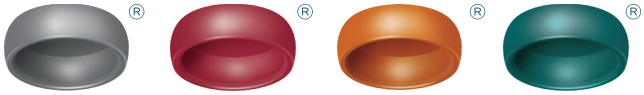
STANDARD MALES

Blue Low Retention

Pink Medium Retention

Clear High Retention

EXTENDED RANGE MALES



Gray Zero Retention

Red Low Retention

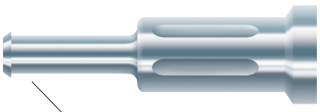
Orange Medium Retention

Green High Retention

LOCATOR® 3-IN-1 CORE TOOL

This convenient tool is used to carry and place the LOCATOR Abutment onto the implant, and for removal and insertion of the Males from/into the Denture Cap. In order to achieve 30Ncm of torque, the Abutment Driver portion of the tool is compatible with various types of insert drivers.

REMOVAL TOOL

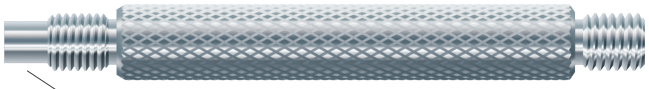


1

REMOVAL

The Removal Tool has a sharp edge on the end to engage and remove the male from the Denture Cap.

INSERTION TOOL

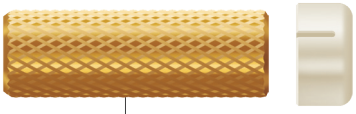


2

INSERTION

The Insertion Tool is used to seat the LOCATOR Male.

ABUTMENT DRIVER & SLEEVE



3

PLACEMENT

The Abutment Driver with the Abutment Holder Sleeve carries the Abutment securely and places it onto the implant.

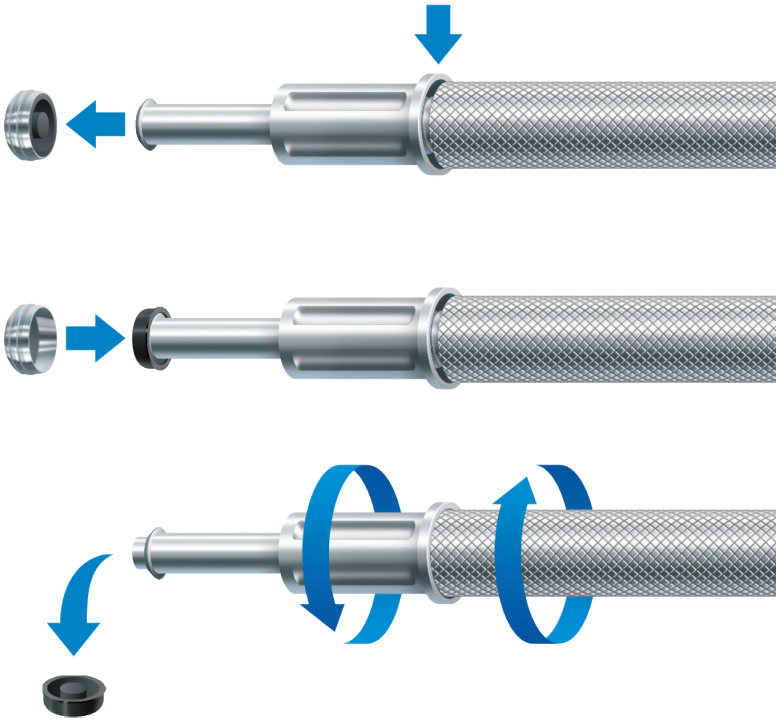
Loosen the Removal Tool a full 3 turns counter clockwise (you will see a visible gap).

To remove a LOCATOR Male from the Denture Cap, simply insert the tip into the Cap/Male assembly and push straight into the bottom of the Male. Then, tilt the tool so that the sharp edge of the tip will grab hold of the Male and pull it out of the Denture Cap.

To disengage the Male from the tip of the Removal Tool; point the tool down and away from you and tighten the Removal Tool clockwise back onto the Core Tool. This will activate the removal pin and disengage the Male from the tip of the Removal Tool.

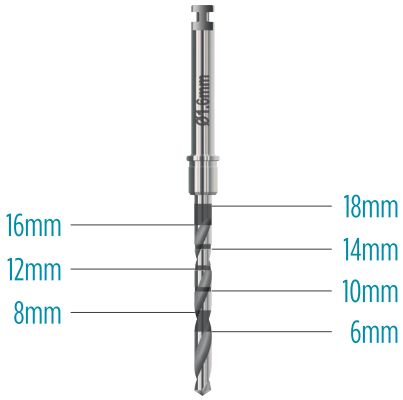
Separate the Removal Tool section from the LOCATOR Core Tool and use the Seating Tool end to place a new Male into the empty Denture Cap.

NOTE THE GAP ONCE TURNED COUNTER CLOCKWISE



DRILLING DEPTH CONTROL & SEQUENCE EXAMPLES

DRILL LASER DEPTH MARKINGS



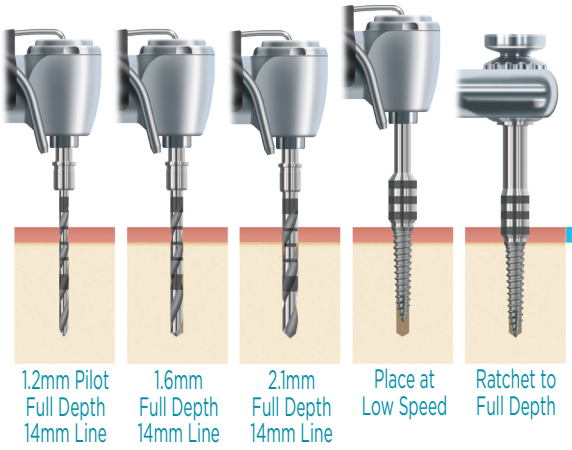
DRILL STOPS

DRILL STOPS DO NOT FUNCTION WITH 2.9 AND 3.1MM DRILLS.

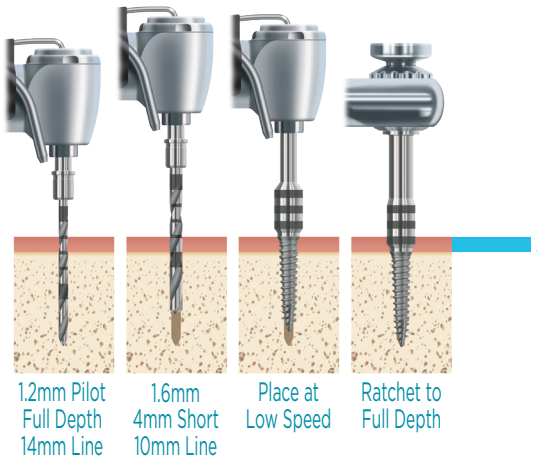
PLACEMENT OF A **2.4MM X 12MM** IMPLANT FLAPLESS SURGICAL PROCEDURE

2.4MM LASER DEPTH MARKINGS

D1 BONE TYPE

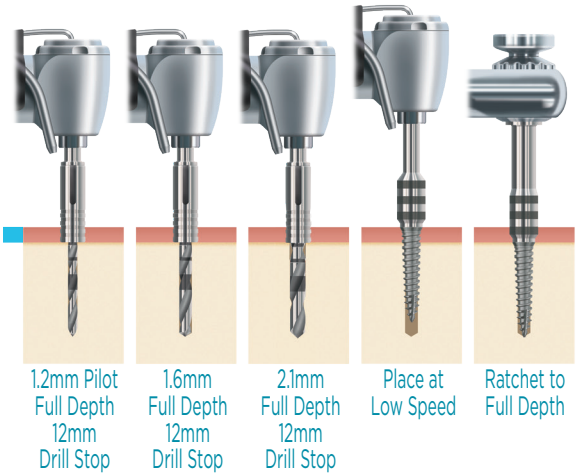


D2/D3/D4 BONE TYPE

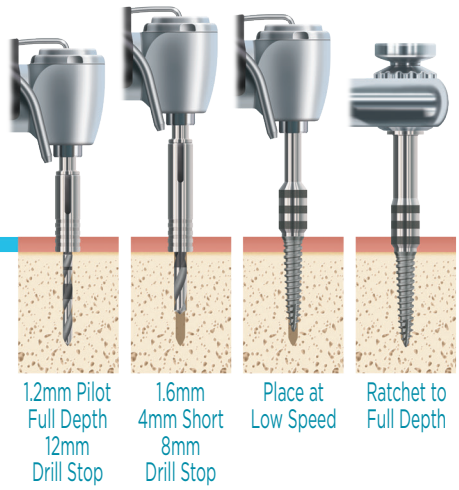


2.4MM DRILL STOPS

D1 BONE TYPE



D2/D3/D4 BONE TYPE



EXTERNAL IRRIGATION IS REQUIRED DURING THE DRILLING STEPS

DRILLING DEPTH CONTROL & SEQUENCE EXAMPLES
(CONTINUED)

FINAL DRILL DIAMETER & DEPTH FOR VARIOUS BONE TYPES

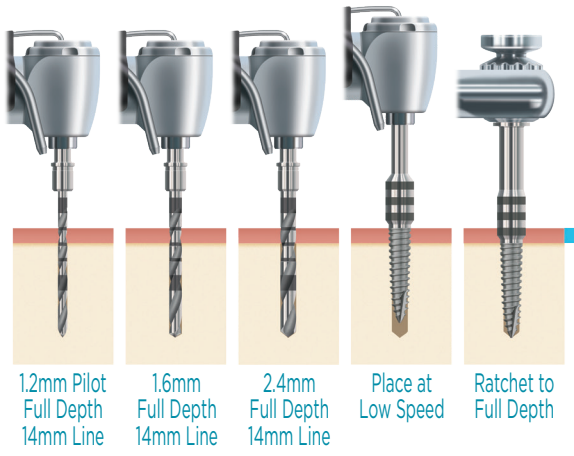
BONE TYPE	2.4MM IMPLANT DIAMETER		2.9MM IMPLANT DIAMETER		3.4MM IMPLANT DIAMETER	
	FINAL DRILL DIAMETER	DRILL DEPTH	FINAL DRILL DIAMETER	DRILL DEPTH	FINAL DRILL DIAMETER	DRILL DEPTH
D1	2.1mm	Full Depth	2.4mm	Full Depth	2.9mm	Full Depth
D2 / D3 / D4	1.6mm	Depth 4mm < Implant Length	2.1mm	Depth 4mm < Implant Length	2.6mm	Depth 4mm < Implant Length

Bone type is a general classification. The overall bone quality must be assessed by the clinician through treatment planning and at the time of surgery in order to create the appropriate osteotomy size to achieve the desired insertion torque.

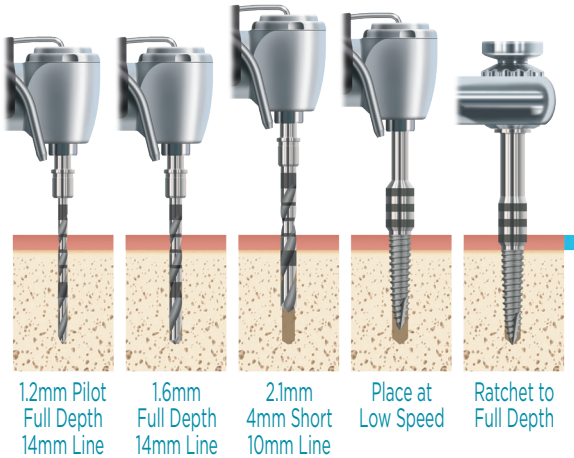
PLACEMENT OF A **2.9MM X 12MM** IMPLANT FLAPLESS SURGICAL PROCEDURE

2.9MM LASER DEPTH MARKS

D1 BONE TYPE

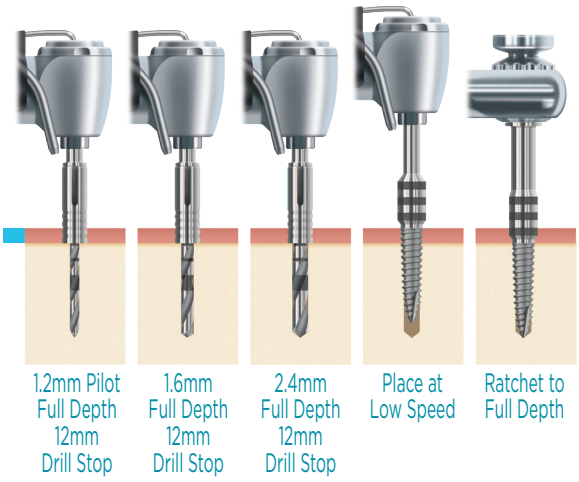


D2/D3/D4 BONE TYPE

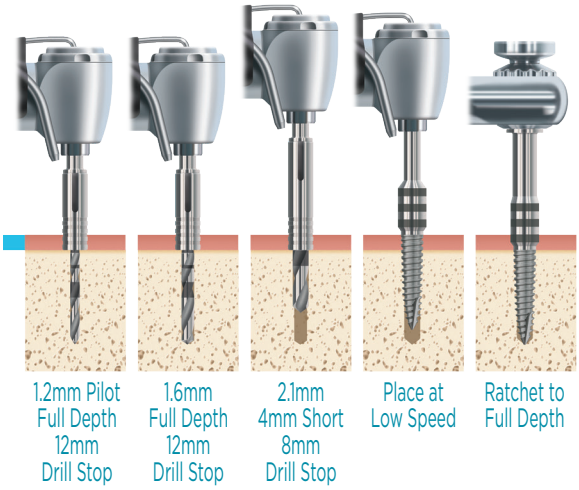


2.9MM DRILL STOPS

D1 BONE TYPE



D2/D3/D4 BONE TYPE

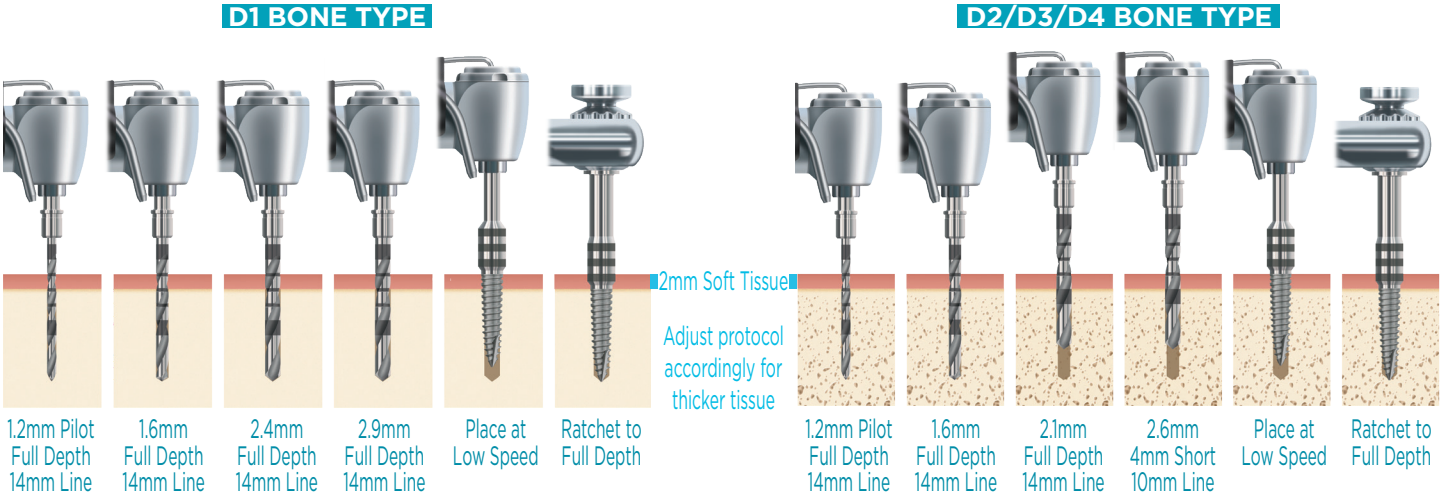


EXTERNAL IRRIGATION IS REQUIRED DURING THE DRILLING STEPS

DRILLING DEPTH CONTROL & SEQUENCE EXAMPLES
(CONTINUED)

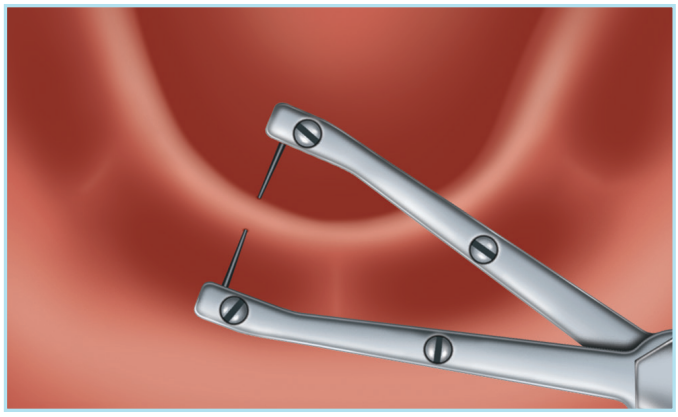
PLACEMENT OF A **3.4MM X 12MM** IMPLANT FLAPLESS SURGICAL PROCEDURE

3.4MM LASER DEPTH MARKS

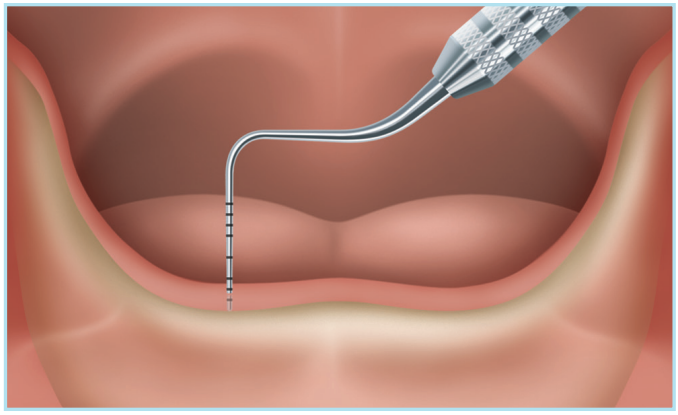


EXTERNAL IRRIGATION IS REQUIRED DURING THE DRILLING STEPS

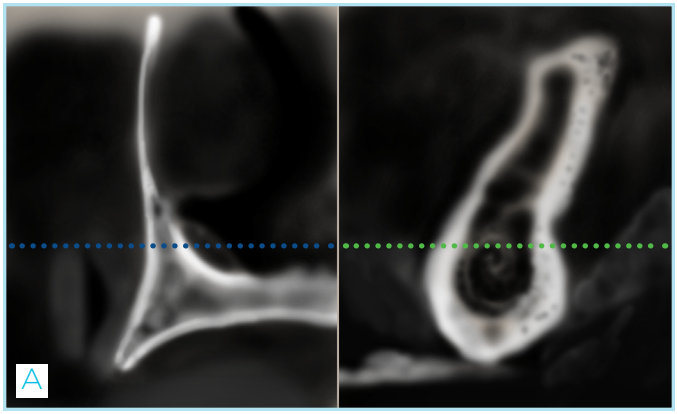
PRE-OPERATIVE TREATMENT PLANNING

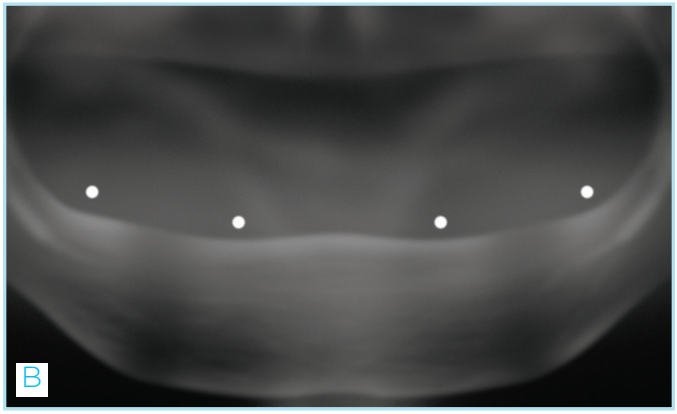


1 Evaluate available bone width at desired implant positions by using the index finger/thumb technique or a ridge mapping instrument (which can be purchased through most dental instrument companies).



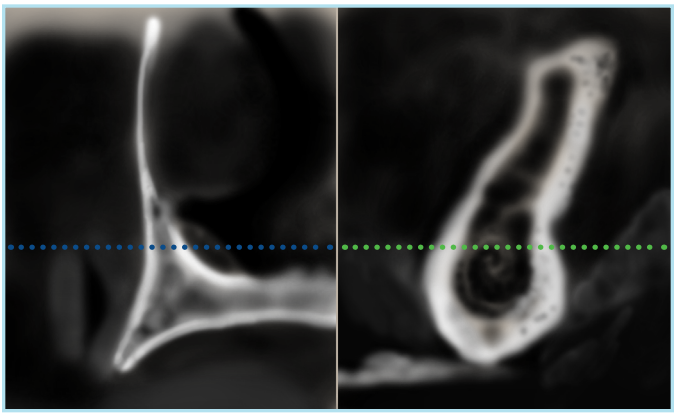
2 Measure gingiva height at each planned implant location using a periodontal probe to determine the proper LOCATOR® Abutment cuff height.



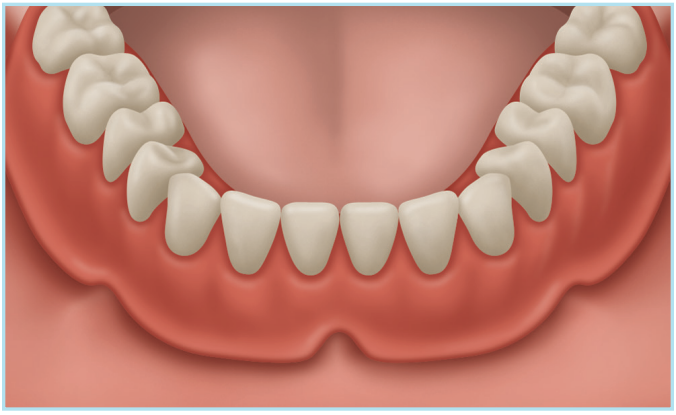


3A-3B A panoramic radiograph or CBCT with radiographic markers may be used to evaluate the bone topography and determine the appropriate implant positions.

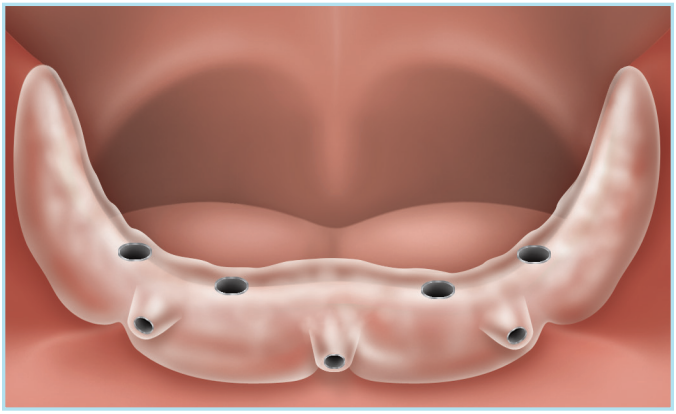
PRE-OPERATIVE TREATMENT PLANNING
(CONTINUED)



4 Radiographic overlay templates are available from Zest Dental Solutions® (L7012) to assist in choosing the correct implant size. Zest recommends placement of the LOCATOR® Overdenture Implants where patients have at least 1mm of available bone around the circumference of the implant.



5 Determine if the patient's existing overdenture(s) will be used or if new ones will be fabricated. If a new overdenture is fabricated, follow the standard overdenture fabrication protocols. Instruct the patients to wear the new overdenture for a minimum of two weeks prior to implant placement.

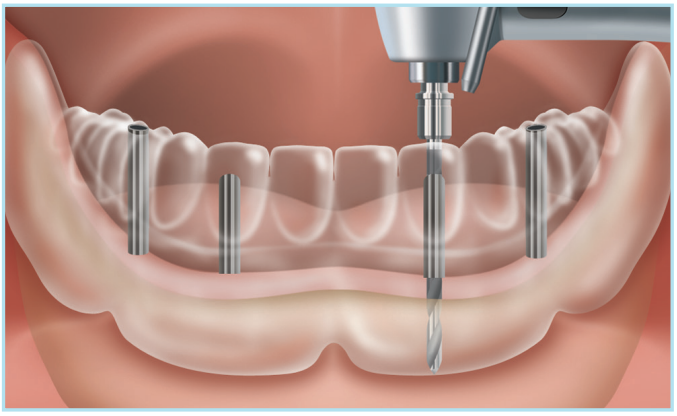


6 Optional: A surgical guide for implant placement may be fabricated prior to surgery.

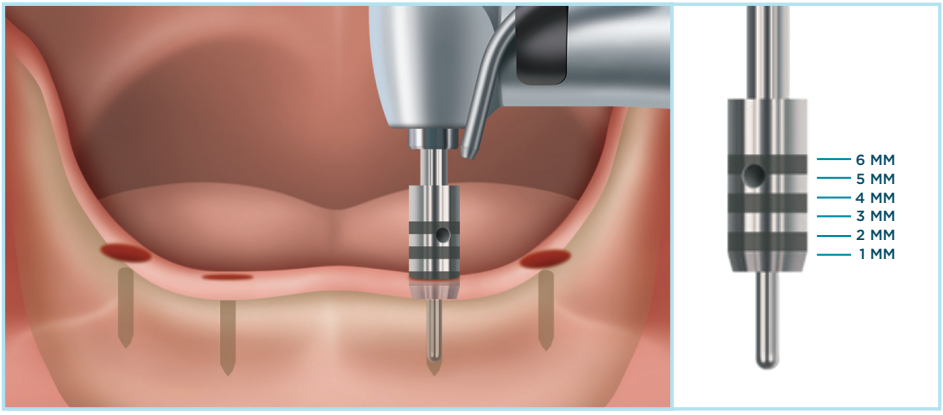
IMPLANT PLACEMENT

After patient selection and evaluation protocols have been completed, determine the number of implants required and discuss all treatment options with the patient. Zest Dental Solutions® recommends a minimum of four implants to be placed in the mandible and six in the maxilla.

MANDIBULAR PLACEMENT OF FOUR **2.9MM X 12MM** IMPLANTS SHOWN IN TYPE D1 BONE

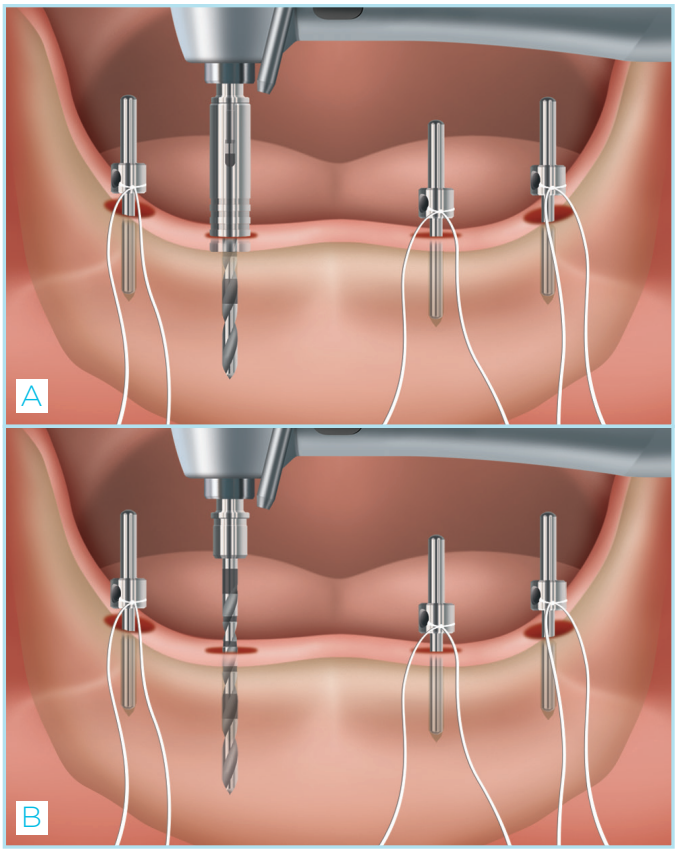


1 Using a surgical guide or by free hand, mark the implant osteotomy locations using the 1.2mm Pilot Drill (07366) to drill through the gingiva and into the bone crest 6mm. Note the gingival height. The recommended drilling speed is 800-1200rpm.



2 Remove the gingival cores at each site using the Rotary Tissue Punch (07373). Place the guide pin portion of the Rotary Tissue Punch into the Pilot Drill osteotomy and advance the drill unit to cut away the gingiva. Advance the Rotary Tissue Punch to the laser depth mark corresponding to the gingival height measurement. The recommended drilling speed is up to a maximum of 800rpm.

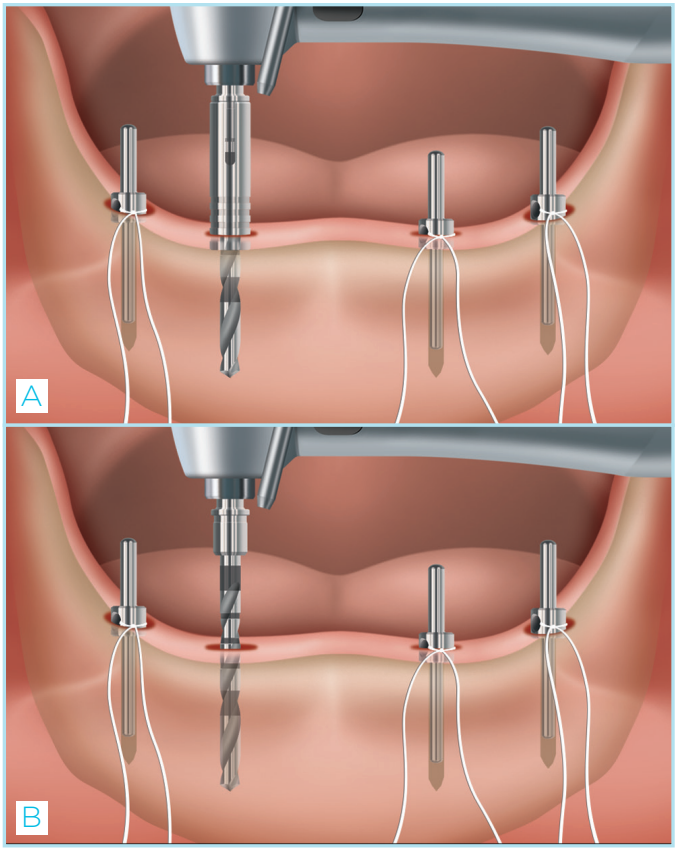
IMPLANT PLACEMENT
(CONTINUED)



MANDIBULAR PLACEMENT OF FOUR **2.9MM X 12MM** IMPLANTS SHOWN IN TYPE D1 BONE (CONTINUED)

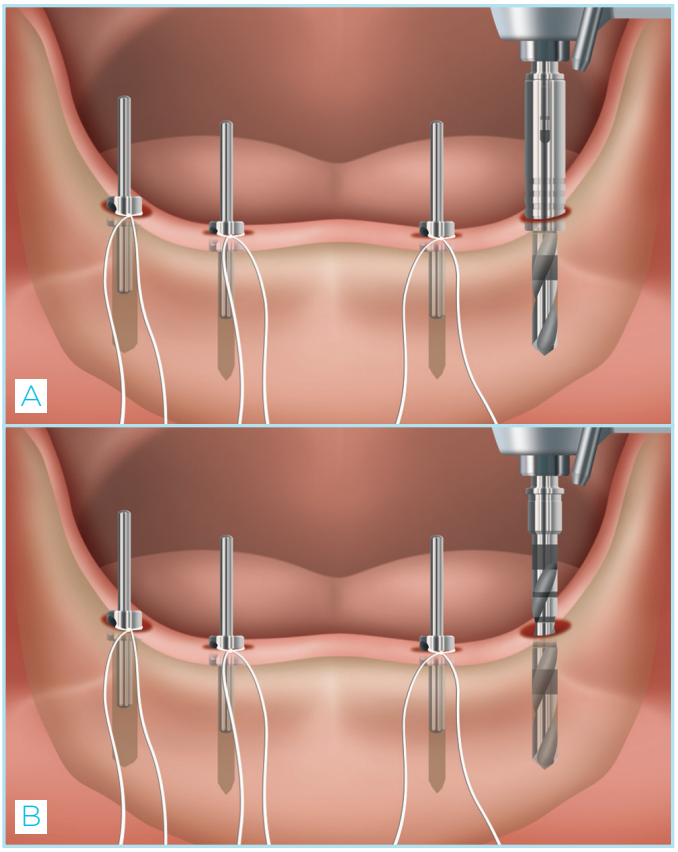
3A-3B Place the 1.2mm diameter (small) end of the Direction Indicator (07365) into the pilot drill osteotomies to verify the proper alignment. Attach the proper length Drill Stop onto the 1.2mm Pilot Drill according to the desired drilling depth.

Alternatively, drill to the proper laser depth marking on the drill calculated by adding the implant length plus the gingival tissue height. The recommended drilling speed is 800-1200rpm. Continue osteotomy preparation to the desired depth at each implant site.



4A-4B Place the proper length Drill Stop onto the 1.6mm drill according to the desired drilling depth.

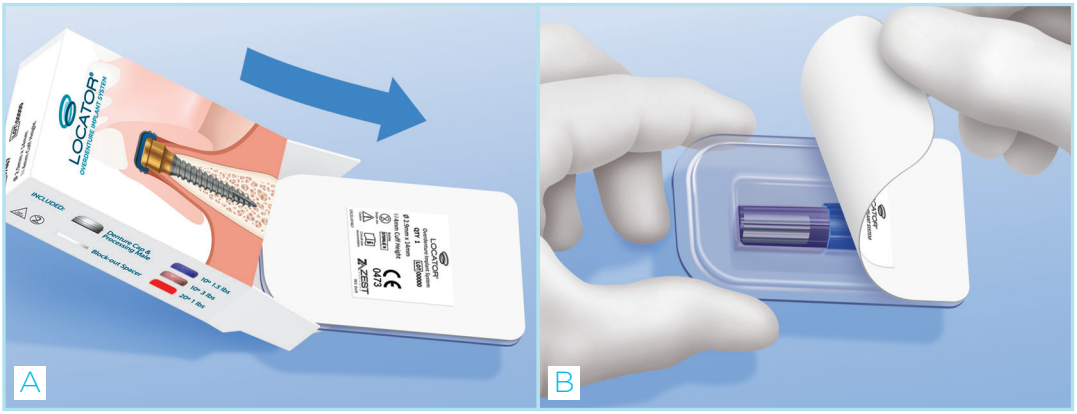
Alternatively, drill to the proper laser depth marking on the drill calculated by adding the implant length plus the gingival tissue height. The recommended drilling speed is 800-1200rpm. Continue osteotomy preparation to the desired depth at each implant site.



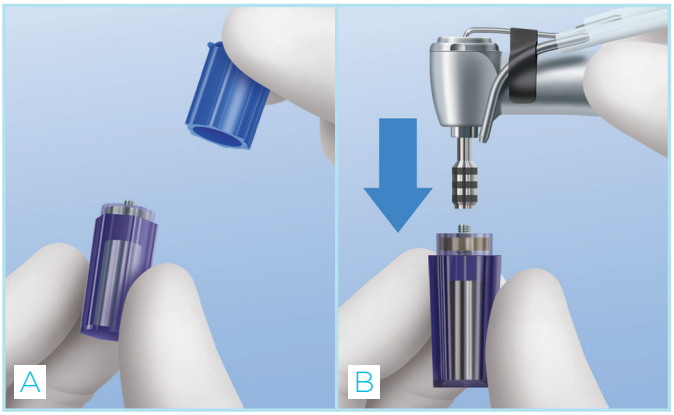
MANDIBULAR PLACEMENT OF FOUR **2.9MM X 12MM** IMPLANTS SHOWN IN TYPE D1 BONE (CONTINUED)

5A-5B Place the 1.6mm diameter (large) end of the Direction Indicator into the osteotomies to verify proper alignment. Place the proper length Drill Stop onto the 2.4mm drill (07376) according to the desired drilling depth.

Alternatively, drill to the corresponding laser depth marking on the drill calculated by adding the implant length plus the gingival tissue height. The recommended drilling speed is 800-1200rpm. Continue osteotomy preparation to the desired depth at each implant site.

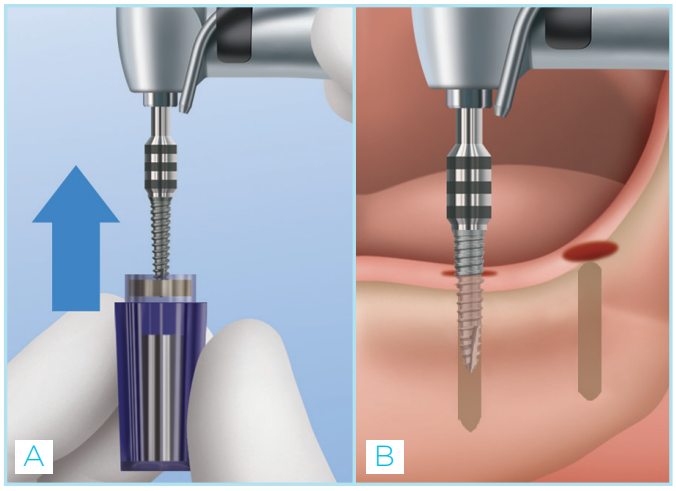


6A-6B Remove the implant package from the box and peel back the Tyvek® seal from the plastic tray. Place the sterile implant vial on the sterile surgical tray. The contents of the plastic tray are sterile and should only contact components within the sterile field.



7A-7B Remove the cap from the implant vial and **do not discard**. The LOCATOR® Abutment is included in the cap. Set the drilling unit speed at 30rpm and the placement torque at 35Ncm. Place the Implant Latch Driver (07357) in the handpiece. Seat it onto the hex on the top of the implant and press down to engage securely. The bottom of the driver should contact the abutment seating surface and fully engage the entire length of the implant hex.

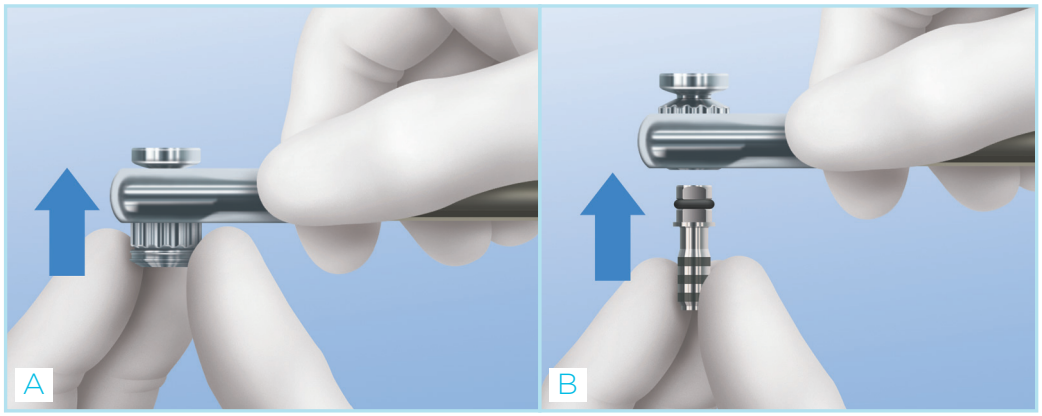
IMPLANT PLACEMENT
(CONTINUED)



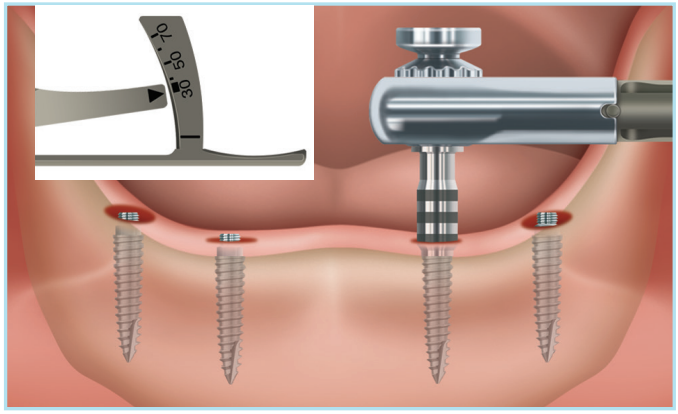
MANDIBULAR PLACEMENT OF FOUR **2.9MM X 12MM** IMPLANTS SHOWN IN TYPE D1 BONE (CONTINUED)

8A-8B Remove the implant from the vial. Carry the implant to the mouth, place it into the osteotomy and insert at 30rpm. Use the Latch Driver to drive the implant three quarters (3/4) of the way into the osteotomy and finalize insertion with a Torque Indicating Ratchet Wrench (07362).

Warning: Do not use an implant that comes into contact with any non-sterile area. Replace with a new sterile implant.



9A-9B Assemble the Square Torque Ratchet Wrench Insert (08926) and the Torque Wrench (07362) to finalize seating. Short and long Implant Drivers are available in the surgical kit.

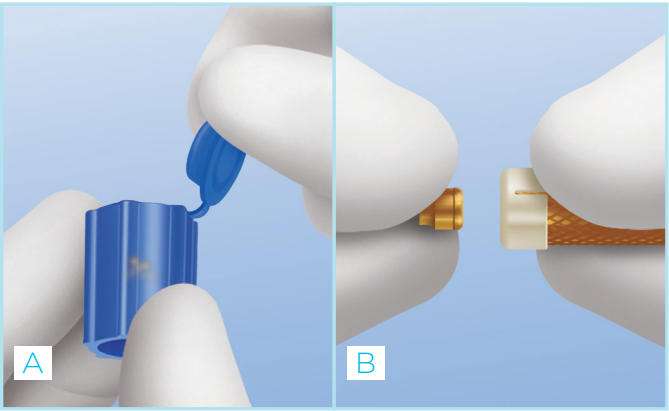


10 Engage the Implant Driver onto the hex on the top of the implant and verify that it is fully engaged. Slowly ratchet the implant to full depth. If final seating torque measures 30Ncm or above, the implant may be placed into immediate function at the discretion of the clinician, with the patient adhering to recommended post-surgical hygiene and care protocols. If the final seating torque measures below 30Ncm, relieve the overdenture acrylic and place a soft liner in the overdenture around the LOCATOR® Abutments during the implant integration period. If 70Ncm of torque is reached prior to full seating, the implant should be removed and the osteotomy should be enlarged.

LOCATOR HEALING ABUTMENT & LOCATOR® ABUTMENT PLACEMENT

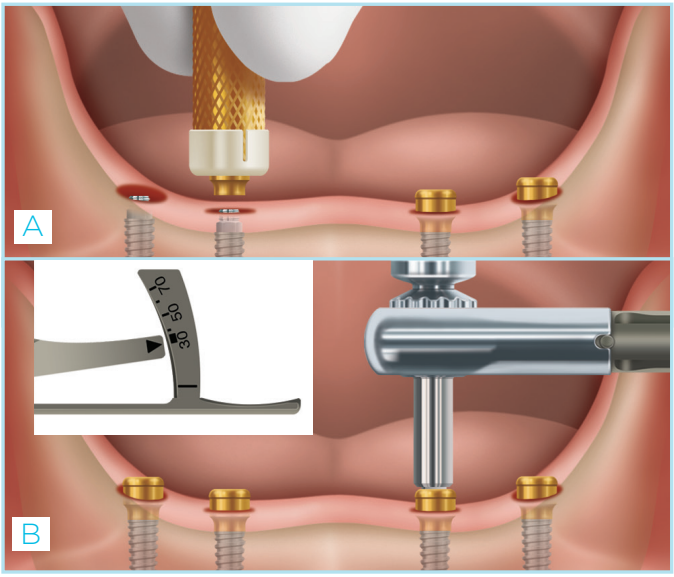
HEALING ABUTMENT PLACEMENT

1 **Optional:** If the implant does not reach a final seating torque of 30Ncm, a LOCATOR Healing AbutmentS (07339 or 07340) are available. Use a 0.050 inch (1.25mm) Hex Driver and thread the Healing Abutment with the appropriate cuff height on the implant until finger tight. Relieve the overdenture acrylic and place a soft liner in the overdenture around the LOCATOR Healing Abutments during the implant integration period.

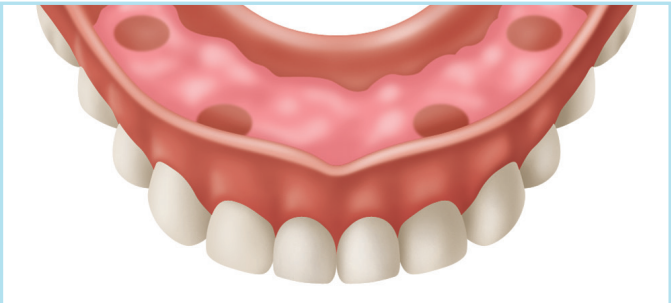


LOCATOR ABUTMENT PLACEMENT

2A-2B Open the flip cap on the top of the vial cap and remove the LOCATOR Abutment. Place the Abutment Holder Sleeve onto the LOCATOR Abutment Driver and insert into the tri-lobe channel of the LOCATOR Abutment.

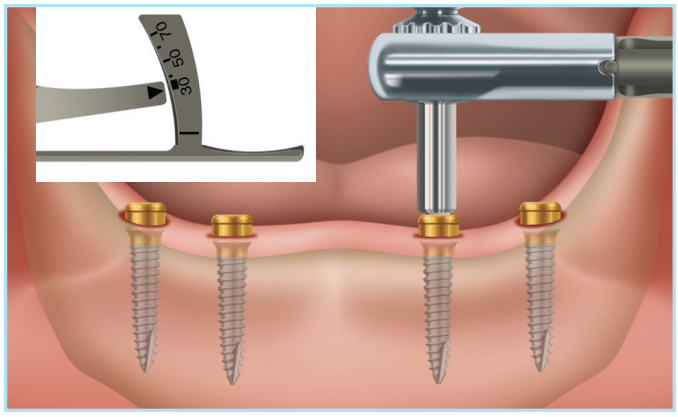


3A-3B Thread the LOCATOR Abutment onto the implant until finger tight. If the implant placement torque was 30Ncm or greater, the Abutments may be tightened to the recommended torque level of 30Ncm. If the implant placement torque did not reach 30Ncm, the Abutment should only be hand tightened. Assemble the LOCATOR Abutment Square Torque Driver Insert and the Torque Indicating Ratchet Wrench (07362) with LOCATOR Torque Wrench Driver (08926) and torque the attachments to 30Ncm.



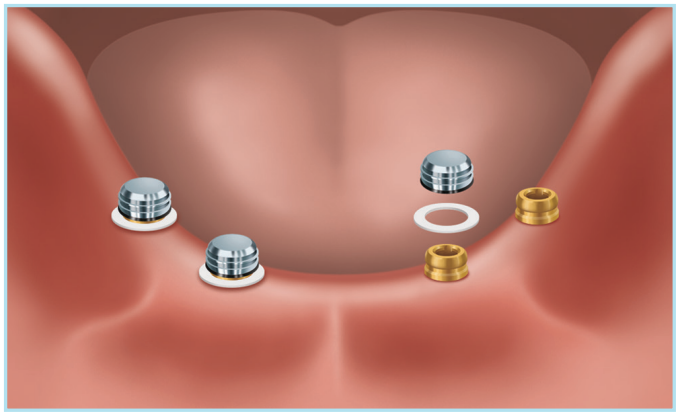
4 If the implant placement torque was 30Ncm or greater, follow the steps for processing the LOCATOR Denture Cap and Males into the overdenture. If the implant placement torque was less than 30Ncm, relieve the overdenture acrylic and place a soft liner in the overdenture around the LOCATOR Abutments during the implant integration period.

PROCESSING LOCATOR® DENTURE CAP & MALES INTO THE OVERDENTURE

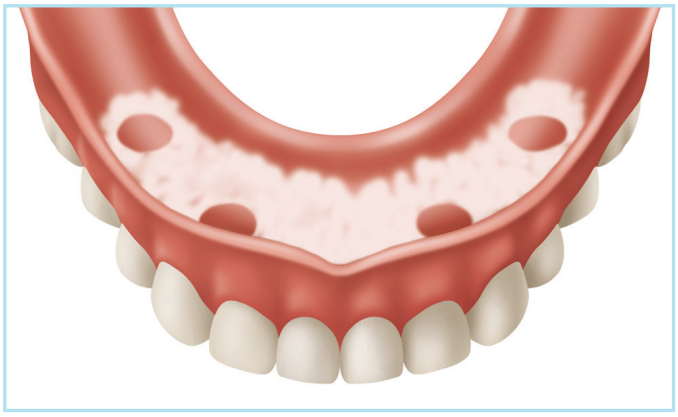


DIRECT TECHNIQUE: CHAIRSIDE PROCESSING (NEW OR EXISTING OVERDENTURE)

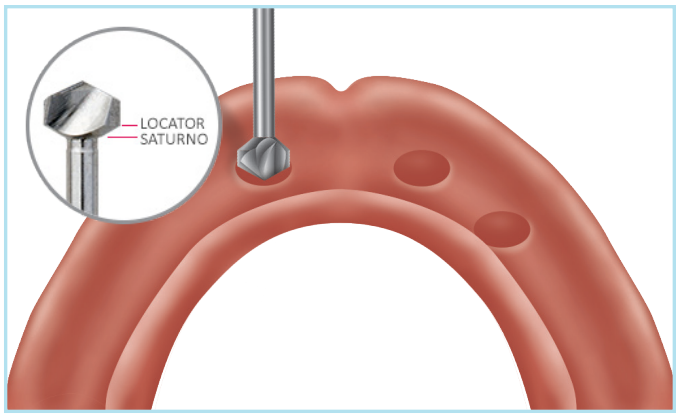
1 Torque the LOCATOR Abutments to 30Ncm using an assembled Torque Indicating Ratchet Wrench and Insert.



2 Place a White Block-Out Spacer Ring around each Abutment and press it down to the tissue. Place a Denture Cap with a Black Processing Male inside of it and place the Cap/Male assembly onto each Abutment, pressing down firmly.

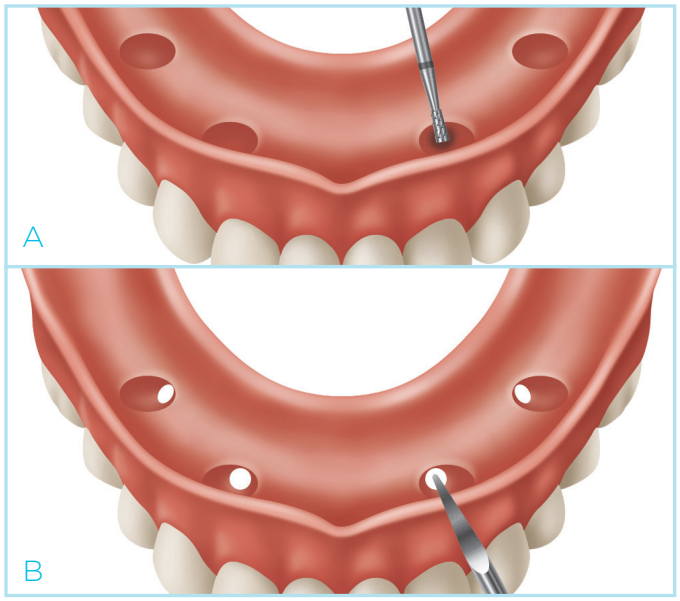


3 Apply fit check marking paste inside of the overdenture. Insert it into the mouth in position over the Denture Caps to mark areas where the overdenture will need to be relieved to allow space for the Denture Cap to be picked up.



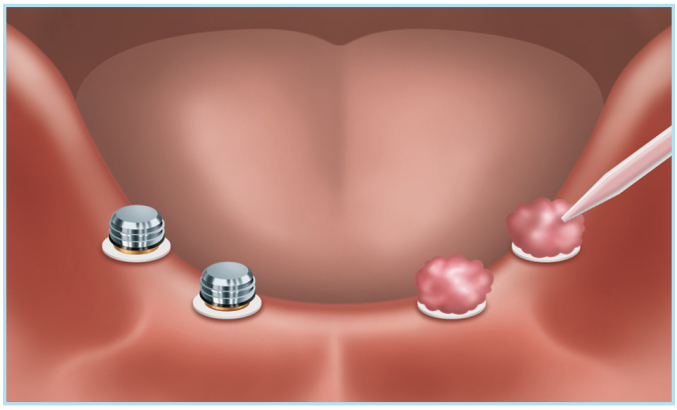
4 Relieve the areas marked with a CHAIRSIDE® Recess Bur (09576). Zest recommends using slight pressure to get the tip of the Bur started followed by a straight downward motion to create the desired recess site. This efficient Bur has distinct depth landmarks which indicate where to stop when drilling for the Denture Cap.

PROCESSING LOCATOR® DENTURE CAP & MALES INTO THE OVERDENTURE (CONTINUED)

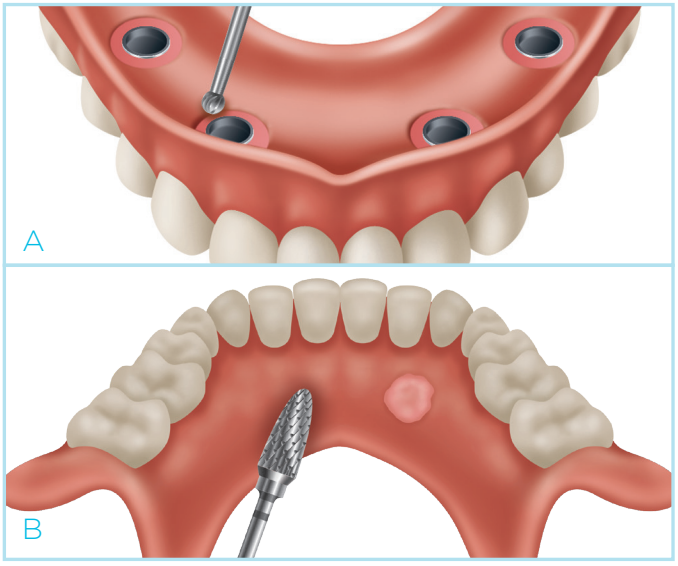


DIRECT TECHNIQUE: CHAIRSIDE PROCESSING (CONTINUED)

5A-5B Use the CHAIRSIDE® Undercut Bur (09577) to cut an undercut around the circumference of the relief areas for mechanical retention. Cut lingual/palatal vent windows in the denture with the CHAIRSIDE Vent Bur (09578) to visualize full seating and for excess material to vent.

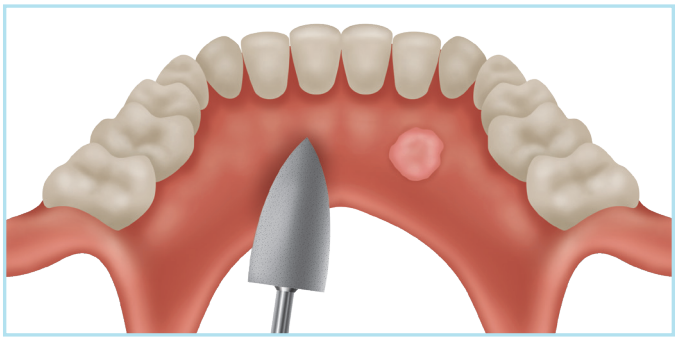


6 Dry the Denture Caps. Apply a small amount of CHAIRSIDE Attachment Processing Material (09566) around the circumference of each cap. Place CHAIRSIDE Material into the relief areas of the overdenture and seat it over the Caps and onto the tissue. Maintain the overdenture in very light occlusion, without compression of the soft tissue while the acrylic sets. Excessive occlusal pressure during the setting time may cause tissue recoil against the overdenture base and could contribute to dislodging and wear of the Males. The set time of the material from the time the material is mixed, to the time it is set is five (5) minutes; working time is one (1) minute, forty-five (45) seconds.

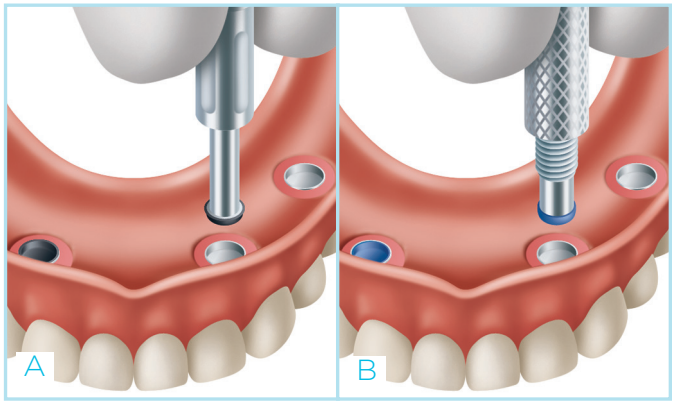


7A-7B Disengage the overdenture from the Abutments and remove from the mouth. Verify that the Denture Caps have been securely processed into the overdenture. Fill any voids and light cure. The material will bond to itself and will cure within 30 seconds with light application. Use the CHAIRSIDE Trim (09579) and Grind Burs (09583) to remove any excess acrylic material remaining in the overdenture.

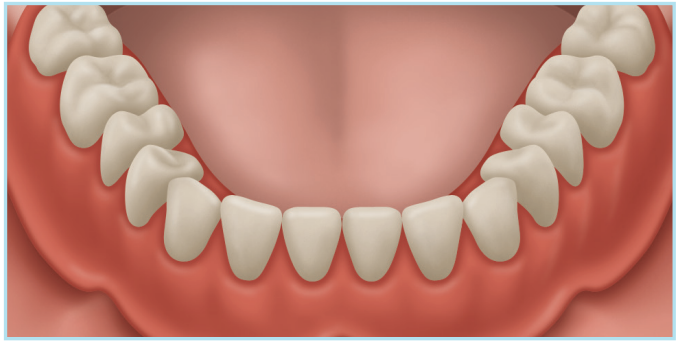
PROCESSING LOCATOR® DENTURE CAP & MALES INTO THE OVERDENTURE (CONTINUED)



8 Use the CHAIRSIDE® Polish Bur (09580) to create a smooth finish in and around the overdenture.

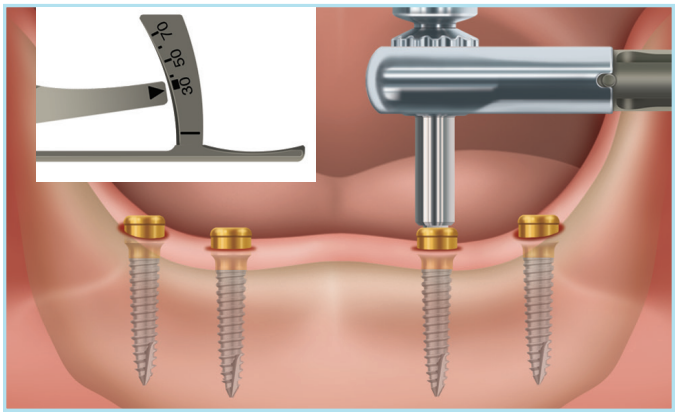


9 See the LOCATOR 3-In-1 Core Tool instructions on page (8). Remove the Black Processing Male using the Removal Tool. Place the selected final Male into each Denture Cap using the Insertion Tool. Insert the lowest retentive option during try-in.



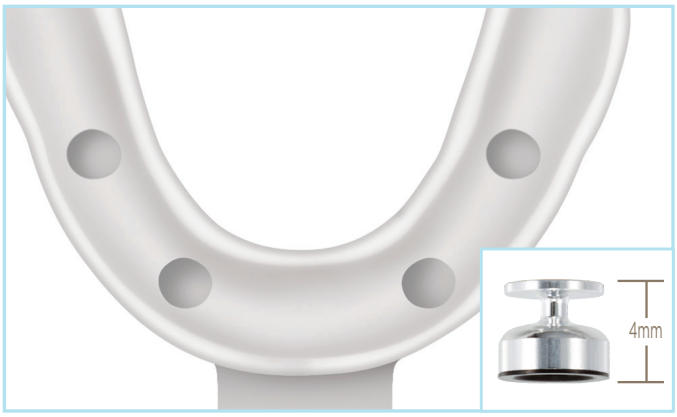
10 Seat the overdenture and press down to engage the Male on the LOCATOR Abutments and verify the occlusion. Instruct the patient on how to remove and insert the overdenture. If the retention is not satisfactory, remove the Males and replace with the next level of retention. See the Male retention chart on page (7). Instruct the patient on proper home care maintenance and required recall visits.

PROCESSING LOCATOR® DENTURE CAP & MALES INTO THE OVERDENTURE (CONTINUED)

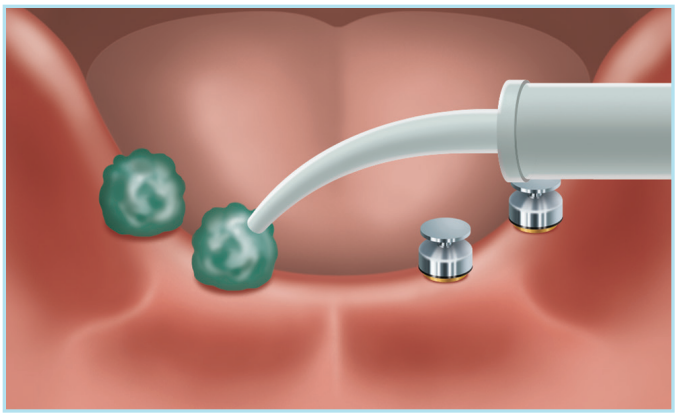


INDIRECT TECHNIQUE: LABORATORY PROCESSING

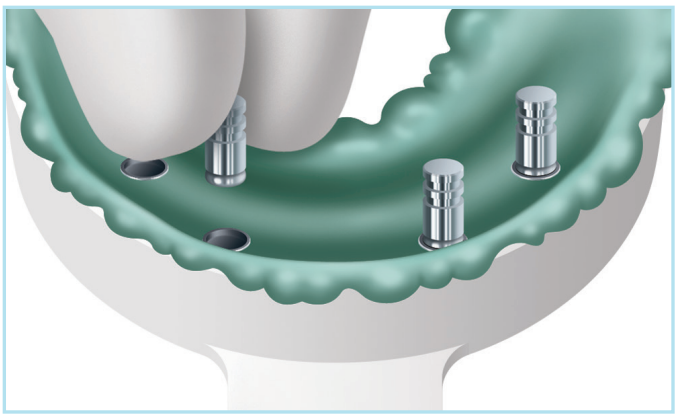
1 Torque the LOCATOR Abutments to 30Ncm using an assembled Torque Ratchet Wrench and Insert.



2 A stock or custom impression tray may be used. Ensure that each recess has enough space for the height of the LOCATOR Impression Copings (08505).

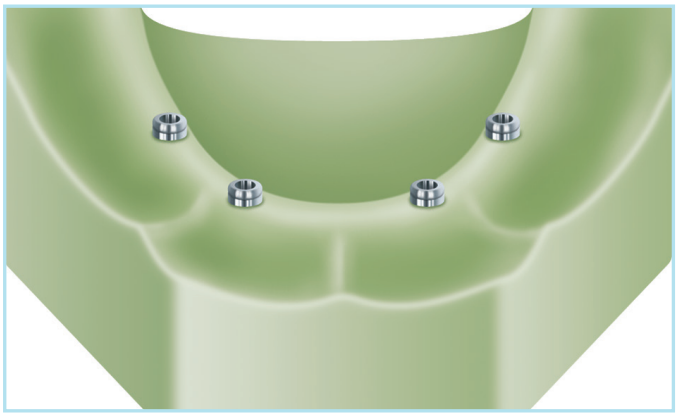


3 Place a LOCATOR Impression Coping on each Abutment and press down firmly. Syringe a medium body impression material around the circumference of each coping. Fill the impression tray and insert it over the copings and onto the tissue. Allow the material to set. Remove the impression and verify that there are no draws in the impression.



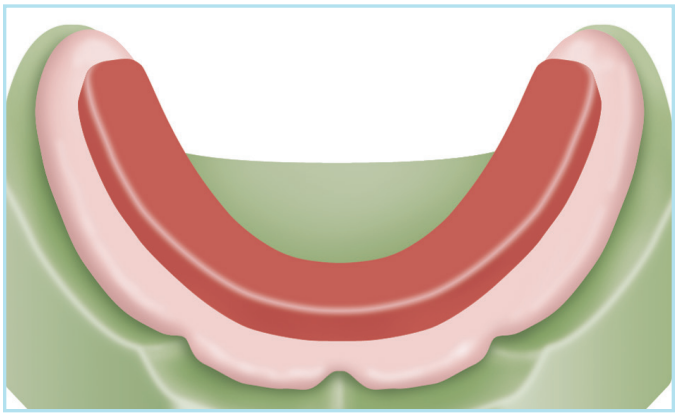
4 Press the LOCATOR Analogs (08530) into each Impression Coping and send the impression to the laboratory.

PROCESSING LOCATOR® DENTURE CAP & MALES INTO THE OVERDENTURE (CONTINUED)

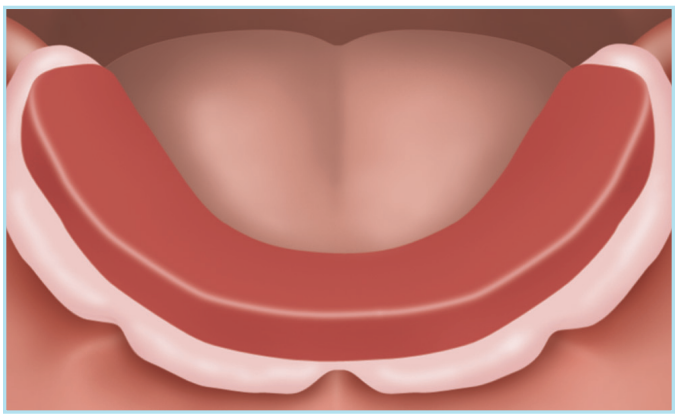


INDIRECT TECHNIQUE: LABORATORY PROCESSING

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

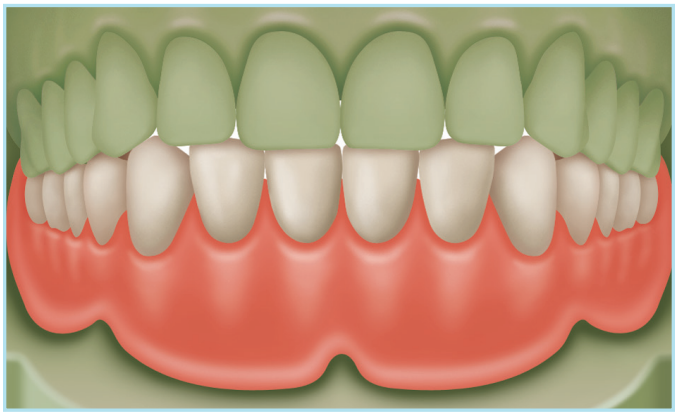


2 Fabricate the baseplate and wax rim on the cast for the bite registration. The Denture Caps with Black Processing Males may be processed into the baseplate to provide stabilization during record making and try-in.



BITE RECORDS

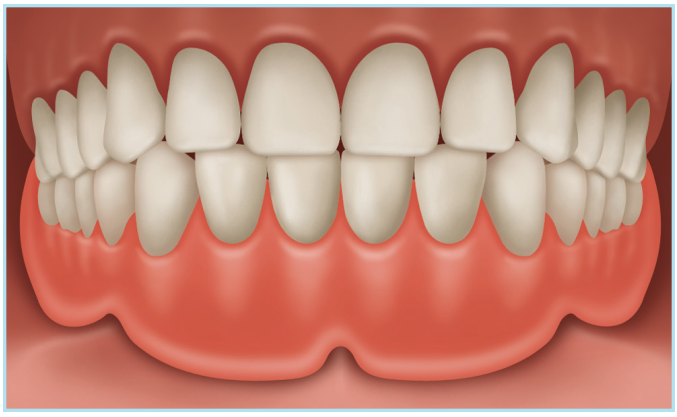
1 Place the bite block into the mouth and record the jaw relation. Take an impression of the opposing arch and pour the cast. Select a shade for the overdenture teeth.



LABORATORY STEP

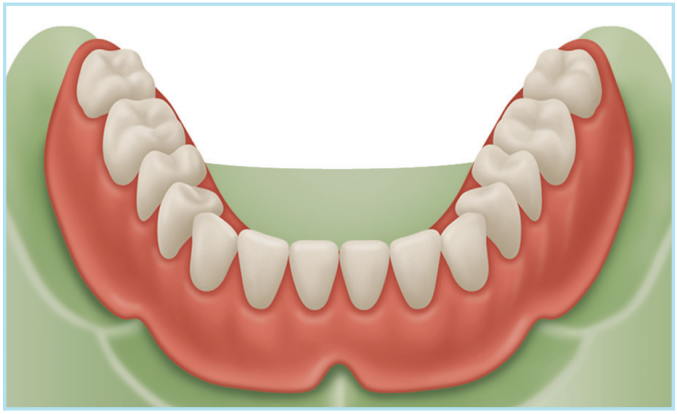
1 Articulate the models and proceed with the overdenture teeth set up.

PROCESSING LOCATOR® DENTURE CAP & MALES INTO THE OVERDENTURE (CONTINUED)



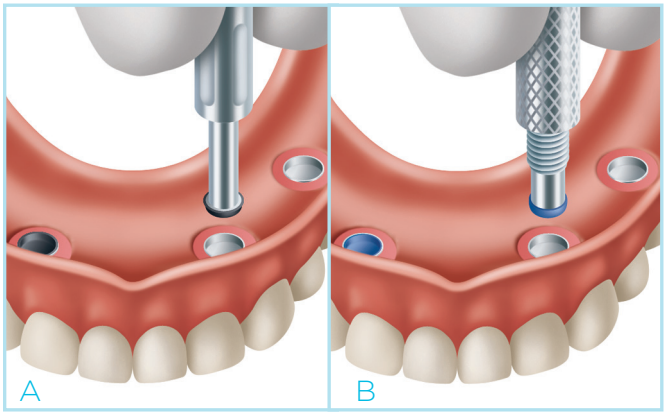
OVERDENTURE TRY-IN

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

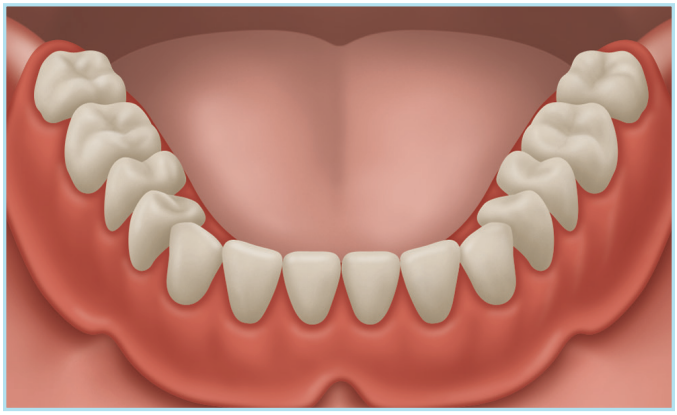


LABORATORY STEP

1 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.



2A-2B See the LOCATOR 3-In-1 Core Tool instructions on page (8). Remove the Black Processing Male using the Removal Tool. Place the selected final Male into each Denture Cap using the Insertion Tool. Insert the lowest retentive option during try-in. See the Male retention chart on page (7).



PROSTHESIS DELIVERY

1 Seat the overdenture in the mouth and press down to engage the Males on the LOCATOR Abutments and verify the occlusion. Instruct the patient on how to remove and seat the overdenture. If the retention is not satisfactory, remove the Males and replace with the next level of retention. See the Male retention chart on page (7). Instruct the patient 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 Nylon 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 Males 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 snap 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 thumb under the left edge and one finger under the right edge of the overdenture rim and pull one side upward and the other side downward, simultaneously. They may also use their tongue to aid in removal of the lower overdenture. 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 simple step daily for cleaning an overdenture.

1 Fill a washing basin with warm water to prevent fracture of the overdenture. Apply detergent 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 will get caught in the Retention Inserts 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® and Efferdent® must be used, it is recommended that the denture be soaked for fifteen minutes or less.
- Brushing the Abutments increases wear; if the patient brushes their Abutments, they should visit the dentist for regular inspection and maintenance of the Abutments, Males and Denture Caps.
- Refrain from picking at the Abutments or Males with toothpicks or other foreign objects.
- Refrain from eating without the overdenture in place as food will scratch the Abutment or Male and may result in failure of the dental implant. Food trapped in the Abutment's drive cavity can also result in improper seating.
- Oral rinse such as Listerine® mouthwash can be used safely without any poor effect on the Abutments or Males.
- Do not wash the overdenture in the dishwasher.

THE ZEST DENTAL SOLUTIONS® 10 YEAR WARRANTY

THE ZEST DENTAL SOLUTIONS NARROW AND STANDARD RIDGE IMPLANT WARRANTY: LOCATOR® OVERDENTURE IMPLANT ("LODI") AND SATURNO™ NARROW DIAMETER IMPLANT ("SNDI")

Zest Dental Solutions ("Zest") is committed to providing quality products and dedicated to gathering feedback about its products. Zest actively collects and reviews the feedback of users of our products in compliance with regulatory reporting requirements and to better help us understand market expectations and validate our products' performance. The collection method Zest utilizes for such feedback is the Zest Product Experience Report ("PER") form. The PER form is to be completed from information provided by the attending clinician to share their Zest product experience.

Pursuant to the Zest NDI WARRANTY, Zest will replace covered LODI and SNDI products for a $25 processing fee for each such qualifying covered implant that is returned (as such terms are defined below). Upon a request for replacement under the Zest NDI WARRANTY, Zest will send a replacement product once ZEST receives the returned product and completed PER form and confirms that the returned product is covered under the Zest NDI WARRANTY. Upon shipment of the replacement product, Zest will issue the customer an invoice at $25.

ONLY DIRECT ZEST CUSTOMERS MAY MAKE A WARRANTY CLAIM. In order to make a claim under the Zest NDI WARRANTY please return the items mentioned below in protective packaging and send these via a shipping method which enables the package to be tracked:

Printed copy of PER form completed from information provided by the attending clinician.

Explanted product(s) in sterile condition (NON-STERILE products will not qualify for replacement)

If a product failure or loss of integration has occurred, please additionally send relevant radiographs (these will not be returned unless specifically requested, please send copies)

Send shipment to: Zest Dental Solutions
ATTN: Customer Service (US customers) or Wholesale Distribution (Distributors/OEM Partners)
2875 Loker Ave East Carlsbad, CA 92010

If using the electronic form, please include the Tracking Number for the returned product package.

Download Zest NDI Product Experience Report (PDF) AT WWW.ZESTDENT.COM

Zest Dental Solutions ("Zest") NARROW DIAMETER IMPLANT ("NDI") WARRANTY (Valid as of May 1, 2015)

1. Warranty beneficiary and scope: Zest Dental Solutions ("Zest") hereby warrants to the direct Zest customer purchasing the NDI from Zest ("Customer") that the Zest LOCATOR Overdenture Implant ("LODI") and SATURNO Narrow Diameter Implant ("SNDI"), when implanted according to the respective Zest LODI/SNDI Technique Manual and other written instructions provided by Zest by a clinician (the "User"), will be free from any loss or lack of integration, fracture or other structural failure for the period of 10 years ("Warranty Period") from the time of treatment by the User (collectively, the "Zest NDI WARRANTY"). This warranty only applies to the Customer. Third parties, particularly patients, are not covered by the Zest NDI WARRANTY and have no rights hereunder. Customers' sole remedy and Zest's sole liability under this Zest NDI WARRANTY is the replacement of the LODI/SNDI implant by Zest as set forth herein. The Zest NDI WARRANTY only covers the replacement of the LODI/SNDI implant and not any associated costs or expenses, including, but not limited to, chair time, laboratory fees and any other associated treatment.

2. Zest Warranty conditions: In the event that any request for warranty service for an NDI is made by a Customer under the Zest NDI WARRANTY during the Warranty Period, Zest will replace such NDI with the same or substantially equivalent product subject to the terms and conditions herein. The replacement product will be sent upon receipt of the returned product and the completed PER form and confirmation that the product is covered under the Zest NDI WARRANTY. To qualify for coverage under the Zest NDI WARRANTY, the claim must be made within the applicable Warranty Period by a Customer and all conditions below must be met. Once these requirements are satisfied, Zest will send the replacement part(s) and charge the Zest Customer a $25 processing fee per unit. The following REQUIRED conditions must be met and documented in order for coverage of a returned NDI under this Zest NDI WARRANTY:

1. The LODI/SNDI was used exclusively with all components, connections, attachments and other technology provided by Zest and not in combination with any other manufacturer's products or technology;

2. The LODI/SNDI is returned in sterile condition (or disinfected if delivered as such);

3. The LODI/SNDI was implanted by a User and inspected and maintained in full compliance with the respective Zest LODI/SNDI Technique Manual valid at the time of treatment and all other Zest written instructions as well as recognized dental procedures, during and after the treatment;

4. The patient had good oral hygiene which was monitored and documented by the User

5. The LODI/SNDI was not subjected to damage caused by misuse, misapplication, accident, trauma or any other damage caused by external factors or the User, the patient or a third party;

6. A completed and signed PER was completed and submitted no later than 10 days after the complaint is made. Customer is responsible to ensure that the PER is completed and submitted from information provided by the applicable User. Details of the incident are imperative to determine whether vigilance reporting is required to regulatory authorities.

3. Limits and limitations: This Zest NDI WARRANTY is the only guarantee provided by Zest and shall apply in addition to any warranty rights conferred under any written sales agreement executed by Zest. The User remains free to claim rights against his supplier. EXCEPT AS SET FORTH HEREIN AND IN A WRITTEN SALES AGREEMENT EXECUTED BY ZEST, ZEST HEREBY DISCLAIMS ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO LODI/SNDI OR ANY OTHER ZEST PRODUCTS, SERVICES OR INFORMATION, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF FITNESS FOR PURPOSE OR MERCHANTABILITY, OR NON-INFRINGEMENT OF THIRD PARTY RIGHTS, OR ANY WARRANTY BY COURSE OF PERFORMANCE OR OTHERWISE.

ZEST SHALL NOT BE LIABLE TO THE CUSTOMER, THE USER, THE PATIENT, OR ANY THIRD PARTY, FOR LOST EARNINGS OR PROFITS, DIRECT OR INDIRECT DAMAGES AS WELL AS COLLATERAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, DIRECTLY OR INDIRECTLY RELATED TO LODI OR ANY OTHER ZEST PRODUCTS, SERVICES OR INFORMATION.

4. Zest Warranty territory: This Zest NDI WARRANTY applies worldwide to LODI/SNDI implants sold by Zest, a Zest affiliated company or an official distributor of Zest on or after the validity date stated above.

5. Modification or termination: Zest may modify or terminate this Zest NDI WARRANTY at any time in whole or in part. Changes to, or the termination of the Zest NDI WARRANTY, will not affect the warranty given for LODI/SNDI installed prior to the date of the change or termination.

LOCATOR OVERDENTURE IMPLANT (LODI) and SATURNO NARROW DIAMETER IMPLANT (SNDI) PRODUCT EXCHANGE POLICY

Zest Dental Solutions understands that customers may need to adjust inventories of LOCATOR Overdenture Implant (LODI) and SATURNO Narrow Diameter Implant (SNDI) Products in order to achieve the correct mix of sizes to treat their patients. Zest Dental Solutions will waive normal restocking fees (1:1 or greater) for exchanges during the first six months following the original purchase. Packaging cannot be written on or in any way adulterated. Shipping will still be the responsibility of the customer requesting the exchange.

LOCATOR®

OVERDENTURE IMPLANT SYSTEM

VISIT OUR WEBSITE AT
WWW.ZESTDENT.COM TO
PLACE ORDERS ONLINE
24 HOURS A DAY 7 DAYS A WEEK.

ZEST DENTAL SOLUTIONS®

ZEST DENTAL SOLUTIONS
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CARLSBAD, CA 92010
USA

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