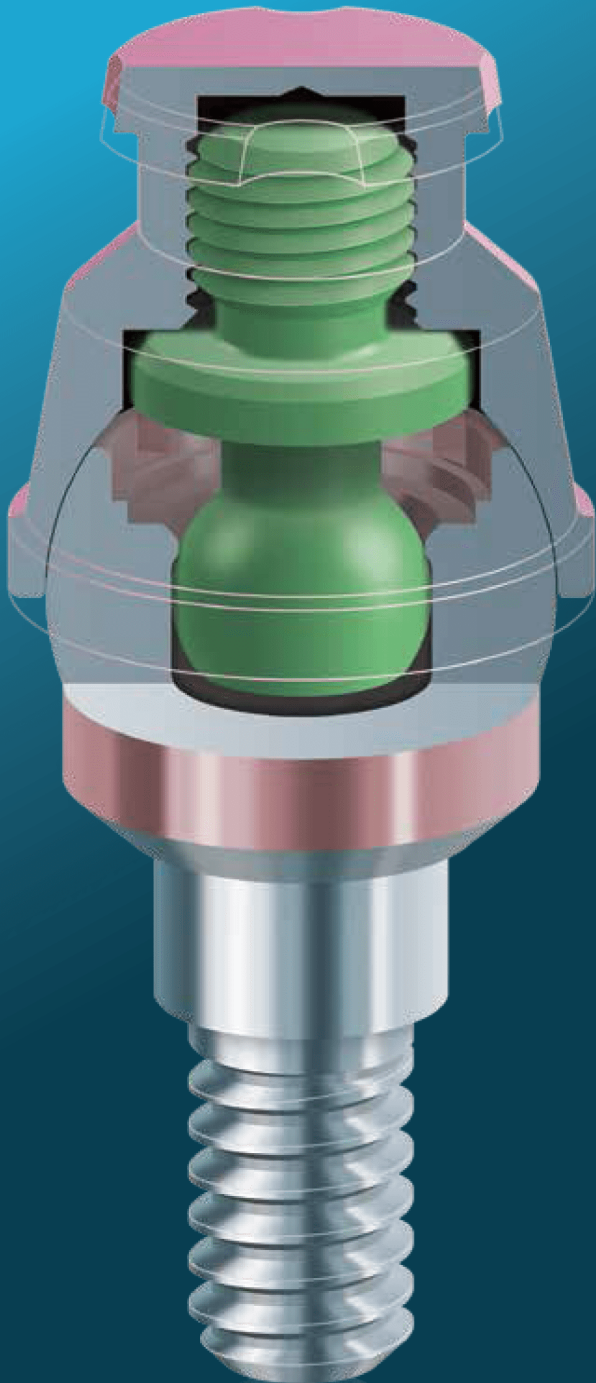




**LOCATOR F-Tx™**  
FIXED ATTACHMENT SYSTEM



LOCATOR F-Tx™ FIXED  
ATTACHMENT SYSTEM  
**TECHNIQUE MANUAL**

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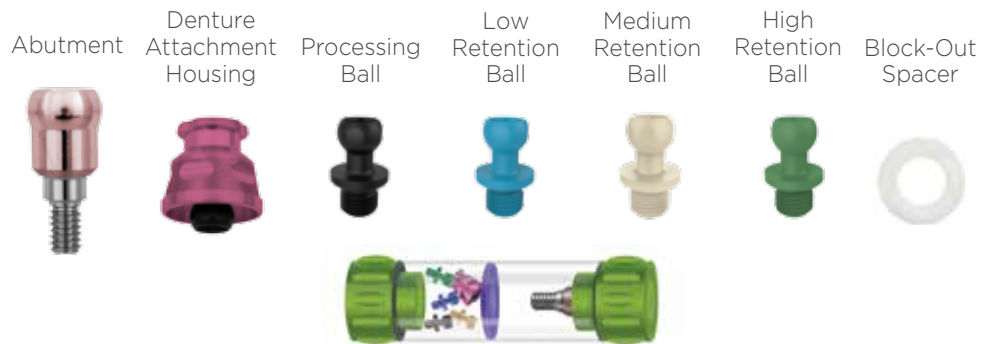
**IMPORTANT:** This document is designed to serve as a reference guide for dental clinicians using **PREAT CORPORATION LLC** Products. It is not intended to be a substitute for professional training and experience. Please refer to the instructions for use for further information.

# LOCATOR F-Tx™ COMPONENTS REFERENCE

## LOCATOR F-Tx ATTACHMENT SYSTEM

### PACKAGED WITH:

- Abutment
- Denture Attachment Housing with pre-inserted Processing Ball
- Extra Processing Ball (**Black**)
- Low Retention Ball (**Blue**)
- Medium Retention Ball (**Tan**)
- High Retention Ball (**Green**)
- Block-Out Spacer (2x)



## LAB PROCESSING



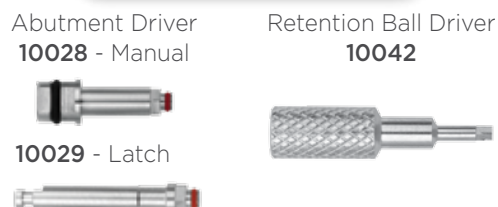
## RETENTION BALLS



## HEALING CAP



## TOOLS



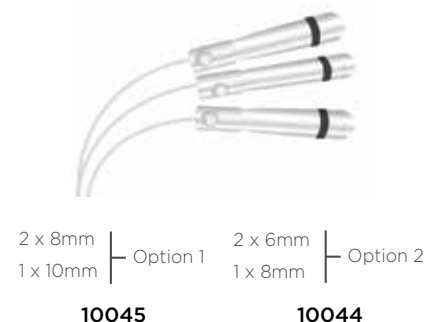
## LOCATOR F-Tx PROSTHESIS REMOVAL SYSTEM

### INFLATION DEVICE

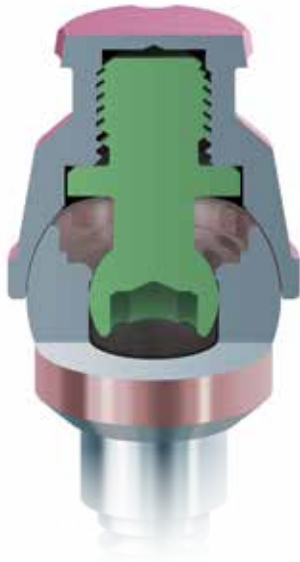


## LOCATOR F-Tx PROSTHESIS BOOSTER

### BOOSTER CUSHIONS



# INTRODUCING LOCATOR F-Tx™. THE FIRST FIXED FULL-ARCH RESTORATION WITHOUT COMPROMISE.



## SECURE SNAP-FIT DESIGN

This revolutionary, patent-pending retention system works similar to a ball and socket, allowing the Denture Attachment Housing to securely snap into place and then pivot to the desired position. Once in place, it's fixed for the patient, and can easily be removed by the clinician during hygiene and maintenance visits.

## REVOLUTIONARY PROsthESIS REMOVAL SYSTEM

Removing the LOCATOR F-Tx Prosthesis is quick and easy by using simple hydraulic displacement to disengage the prosthesis from the LOCATOR F-Tx Abutments.



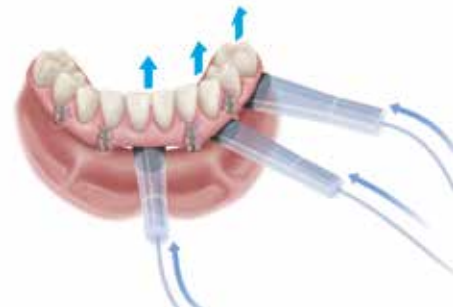
Prosthesis Booster cushions inserted under the prosthesis between the prosthesis and soft tissue.



Denture Attachment Housing pivots 20 degrees in any direction allowing for the Housing to be positioned into the ideal location for the prosthesis.

## SIMPLIFIED ANGLE CORRECTION/STRESS FREE PASSIVE FIT

- The LOCATOR F-Tx Abutment features a unique, spherical coronal geometry which allows the Denture Attachment Housing to rotate in any direction and correct up to 40 degrees of convergence/divergence between two implants eliminating the need for angled abutments.
- Chair side processing procedures at final prosthesis delivery ensures a stress free passive fit.



Prosthesis Booster cushions filled with water, and hydraulic displacement applied.



Prosthesis disengages from the LOCATOR F-Tx Abutments.

# INTRODUCING LOCATOR F-Tx™. THE FIRST FIXED FULL-ARCH RESTORATION WITHOUT COMPROMISE.



## DENTURE ATTACHMENT HOUSING

- Denture Attachment Housing is threaded internally to accept a PEEK Retention Ball that snaps into the LOCATOR F-Tx Abutment.
- Features an anodized pink finish for improved esthetics.
- Aggressive grooves and flats limit vertical and rotational movement.
- Denture Attachment Housing is passively picked-up in the prosthesis via a chair side technique.



## RETENTION/PROCESSING BALLS

- PEEK Retention Balls are available in low, medium and high retention levels based on the needs of the case.
- A Processing Ball comes pre-inserted with the Denture Attachment Housing, and an additional Processing Ball is included, both are used for provisionalization and laboratory procedures.



LOW



MEDIUM



HIGH



PROCESSING

## ABUTMENT

- Spherical Abutment geometry allows the Denture Attachment Housing to pivot in any direction to align the Housings and create a more parallel draw for the prosthesis.
- DuraTec™ Coating provides a hard, smooth and wear-resistant abutment exterior with an esthetically pleasing gingival tone.

## ALL-IN-ONE PACKAGING

- LOCATOR F-Tx features all-in-one packaging that is sterile and includes everything you need. Abutment (with cap to deliver the abutment to the implant site), Denture Attachment Housing with pre-inserted Processing Ball, an extra Processing Ball, as well as one Blue (**Low**), Tan (**Medium**), and Green (**High**) Retention Balls to be used with the final restoration.

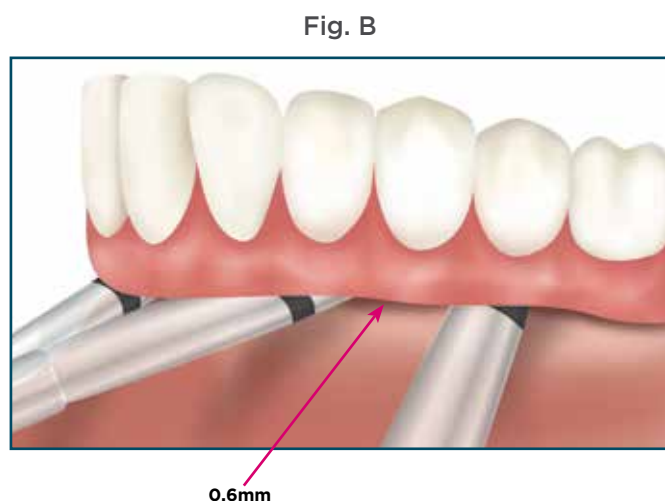
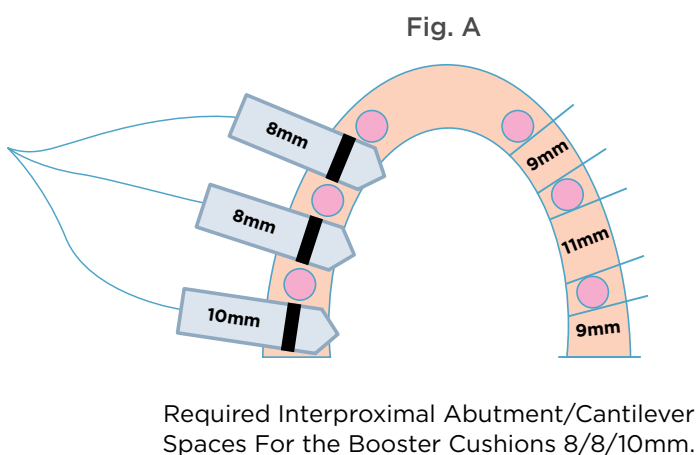


When planning to restore a patient with the LOCATOR F-Tx Fixed Attachment System, specific surgical guidelines that outline quantity and spacing between implant sites must be followed in order to ensure that the system functions as indicated.

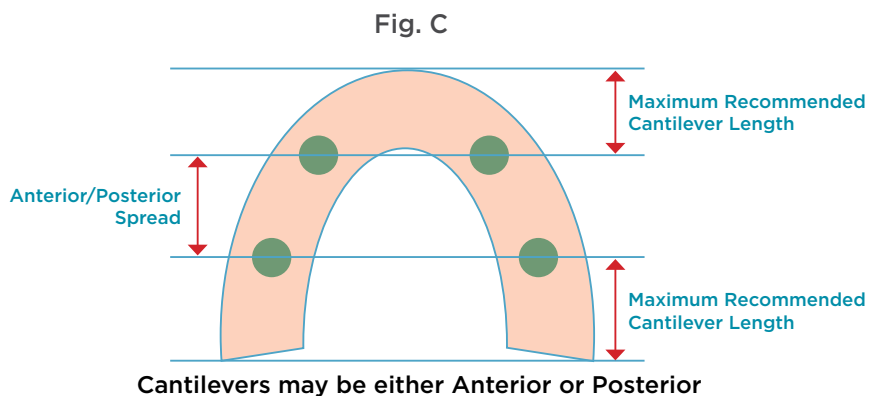
ZEST DENTAL SOLUTIONS believes that the LOCATOR F-Tx Fixed Attachment System is most suited to cases involving 4-6 implants in an arch. When eight (8) or more implants are used, there may be insufficient space between the implants to insert LOCATOR F-Tx Prosthesis Removal System Boosters. The implants must be positioned across the arch allowing for optimum support of the prosthesis while limiting the cantilever to one time (1x) the anterior/posterior spread.

**INTERPROXIMAL ABUTMENT SPACING:** Two (2) 9mm, and one (1) 11mm interproximal Abutment/cantilevers are required per quadrant for the removal of the prosthesis. **Fig. A**

**BOOSTER CUSHIONS SPACING:** 0.6mm of clearance between the prosthesis and soft tissue is recommended to allow for the Boosters to slide under the prosthesis when its removal is performed. **Fig. B**



**CANTILEVER GUIDELINES:** A cantilever counts as One (1) space and must not be more than one (1x) time the anterior/posterior spread. It can be anterior or posterior. Excessive cantilevers could result in the dislodgement of the prosthesis. **Fig. C**



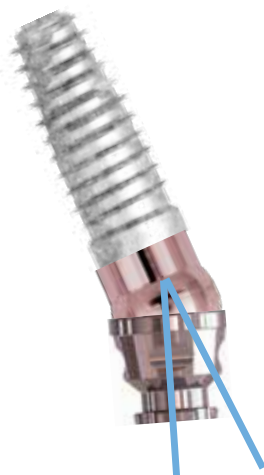
Cantilevers and A/P Spread Guideline is 1x A/P Spread. Posterior Cantilevers require higher Retention Balls to be placed in the most anterior abutments to offset the loads. Anterior Cantilevers require higher Retention Balls to be placed in the most posterior abutments to offset the loads.

**PROSTHETIC CLEARANCE:** The minimum attachment height requirement is 5.6mm. This dimension is needed from the abutment implant interface to the top of the Denture Attachment Housing. Therefore, the proper selection of the cuff size is imperative when pre-planning a case. Also, the choice of restorative material may require more vertical clearance. **Fig. D**

**ALIGNMENT CORRECTION:** The design of the LOCATOR F-Tx Abutment allows for 20 degrees of pivot of the Denture Attachment Housing. The pivot will correct up to 40 degrees of convergence/divergence between implants without affecting the performance of the F-Tx Fixed Attachment System. **Fig. E and Fig. F**



Fig. E



20 Degrees Correction From The Vertical

Fig. F

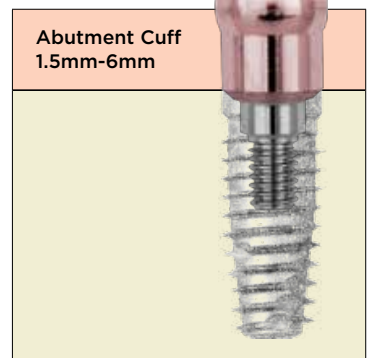


40 Degrees Correction Between Implants

**CUFF HEIGHT SELECTION:** If a LOCATOR F-Tx Abutment cuff height is chosen where more than the top half of the Abutment sphere is visible supragingivally, it can create a situation during the pick-up of the Denture Attachment Housing (DAH) where a channel of material is formed between the intaglio of the prosthesis and the bottom rim of the DAH. This is generally not an issue when the implants are quite parallel, but in cases of convergence/divergence, this channel restricts the ability for the DAH and Retention Ball to seat properly. **Fig. G**

To avoid this potential complication, choose an Abutment cuff height where no portion of the bottom half of the abutment sphere is visible above the tissue. If the proper cuff height is not available, use a block out material to restrict the flow of material below the midpoint of the Abutment sphere.

Fig. G



Supragingival DAH Interface

**PROSTHESIS REMOVAL SYSTEM GUIDELINES:** All three Cushions of the LOCATOR F-Tx Prosthesis Removal System Boosters must be deployed for prosthesis removal. The use of fewer Cushions will limit the disengagement capacity of the LOCATOR F-Tx Prosthesis Removal System. Three (3) 0.6mm areas of clearance must be present in designated interproximal/cantilever spaces to allow for the Booster Cushions to be under the prosthesis to help remove the prosthesis from the mouth.

**RETENTION BALL CRITERIA AND SITE SELECTION:** The chart below indicates the maximum number of High Retention Balls (**Green**) that can be used in a **quadrant** given the total number of implants that will be used in the arch.

- As an example, in a six (6) unit case, the clinician can use a maximum of two High Retention Balls (**Green**) per quadrant and must use Medium (**Tan**) or Low (**Blue**) Retention Balls for the remaining single units.
- Where red is indicated, the clinician must only use Medium (**Tan**) or Low (**Blue**) Retention Balls on all abutments.

**NOTE:** The use of any High Retention Balls (**Green**) is contraindicated in seven (7) unit cases and higher as the retention force will exceed the limits of the LOCATOR F-Tx Prosthesis Removal System.

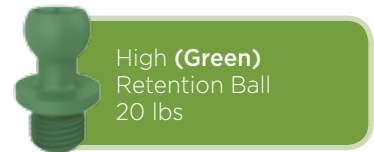
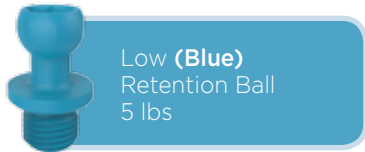
### RECOMMENDED NUMBER OF HIGH (GREEN) RETENTION BALLS PER QUADRANT

High Retention Ball	4 Implants	5 Implants	6 Implants	7 Implants	8 Implants
	0	✓	✓	✓	✓
1	✓	✓	✓	✗	✗
2	✓	✓	✓	✗	✗



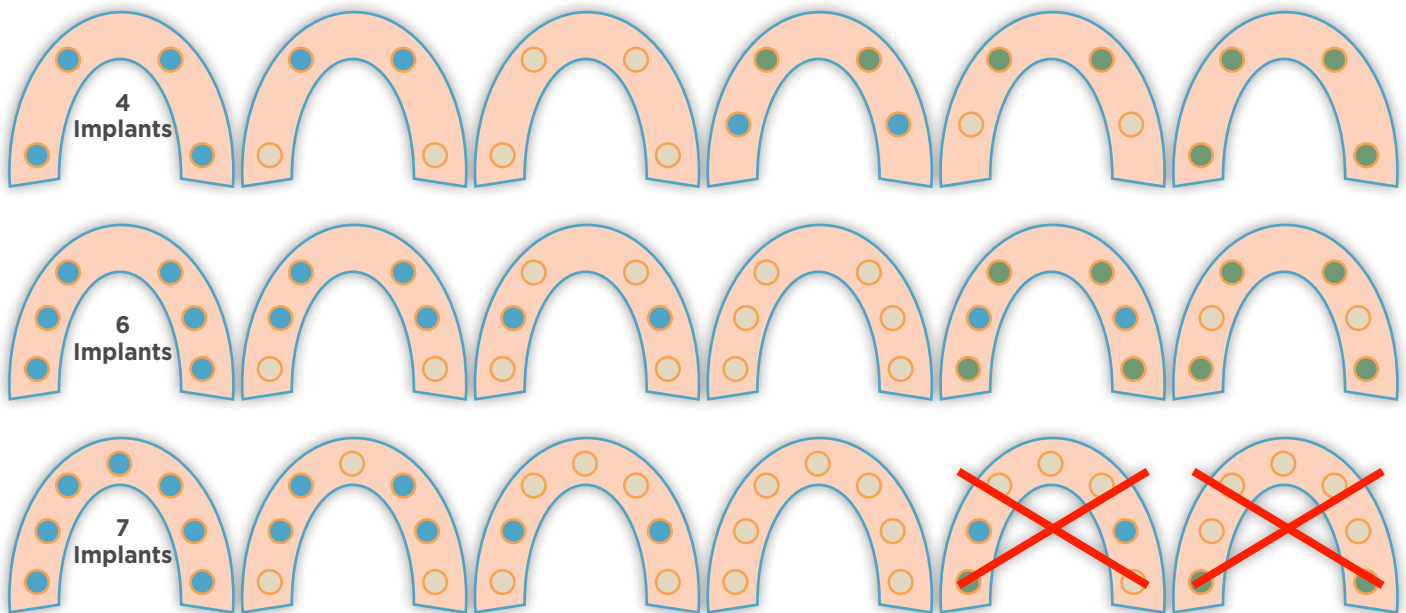
### RECOMMENDED RETENTION BALLS COMBINATION SELECTION

Long Cantilevers Require Higher Retentive Balls. In order to minimize dislodgment, higher Retention Balls must be used on the opposite end of the cantilever.



Maximum 2 High Balls per Quadrant

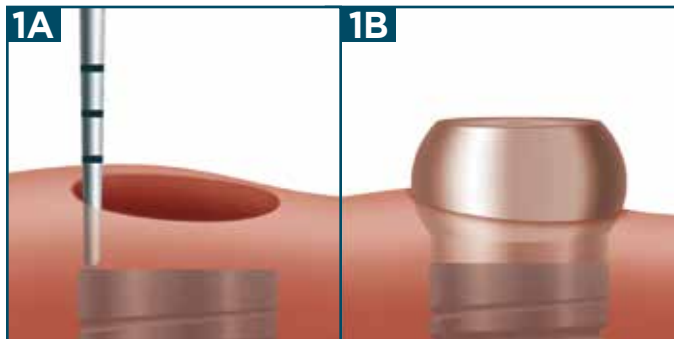
MINIMUM ← → MAXIMUM



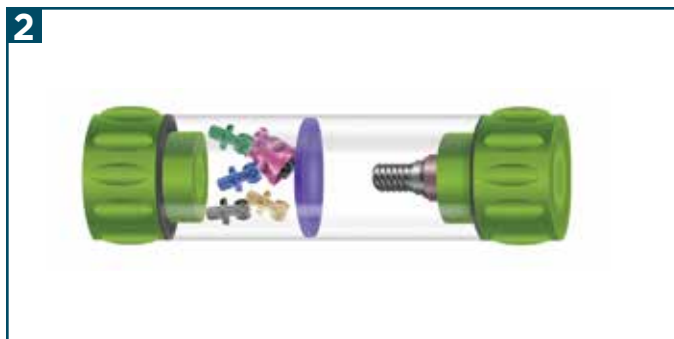
**NO GREEN HIGH RETENTION BALL ON 7 OR MORE LOCATOR F-Tx ABUTMENTS IN A SINGLE ARCH**

# LOCATOR F-Tx™

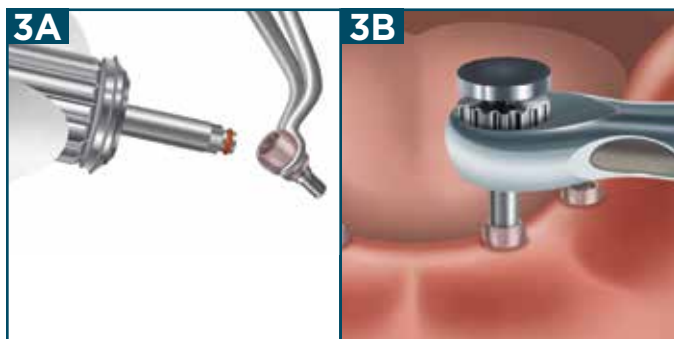
## ABUTMENT PLACEMENT



**1A-1B** Using a periodontal probe, measure the height of the gingiva and select the appropriate Abutment cuff size based on that measurement. **The cuff size should match the tissue height**, as this will place the prosthetic finish line right at the gingival height and maximizes the retention surface of the Denture Attachment Housing in the prosthesis. The cuff margin is at the widest portion of the sphere (midpoint of the Abutment sphere). For sub-gingival finish line, choose a shorter cuff size.



**2** The LOCATOR F-Tx Fixed Attachment System comes in an all-inclusive package that contains an Abutment, a Denture Attachment Housing with a pre-assembled Black Processing Ball, an extra Black Processing Ball, one each of Retention Balls; Low (**Blue**), Medium (**Tan**) and High (**Green**) and two Block-Out Spacers. All components contained in the vial are provided sterile. The Block-Out Spacers are packaged outside the vial and provided clean but not sterile.



**3A-3B** Using the LOCATOR F-Tx Abutment Driver, engage the LOCATOR F-Tx Abutment and seat the Abutment onto the implant. Torque each Abutment according to the implant manufacturer's recommendations using a calibrated Torque Wrench and confirm seating.

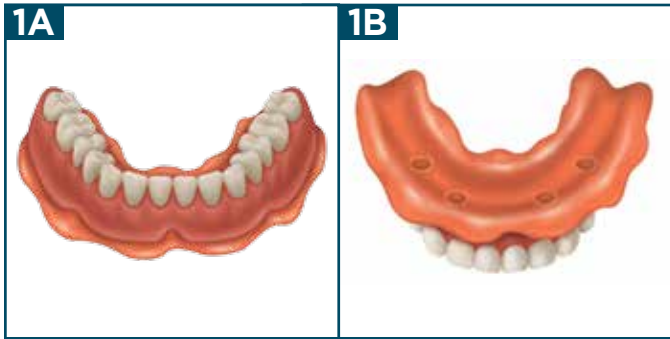
**NOTE:** The use of higher torque values than recommended could cause fracture of the LOCATOR F-Tx Abutment. Prior to starting the case, the clinician should ensure that the proper Abutment Drivers are available to seat the LOCATOR F-Tx Abutments to their recommended torque. Some torque wrenches will use a square-drive mechanism for insertion while others will accept a latch-lock. Zest Dental Solutions offers both types of drivers for LOCATOR F-Tx Abutments.



**4** A direct or indirect technique may be used for processing the Denture Attachment Housings into the prosthesis. Please refer to page 9 for direct and page 15 for indirect processing technique.

# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## DIRECT TECHNIQUE - CONVERSION OF AN EXISTING DENTURE



**1A-1B** After seating of all the LOCATOR F-Tx Abutments, apply fit check marking paste on the intaglio surface of the denture and insert it into the mouth in position over the F-Tx Abutments to mark the areas where the prosthesis will need to be relieved. This will allow space for the Denture Attachment Housings to be picked up.



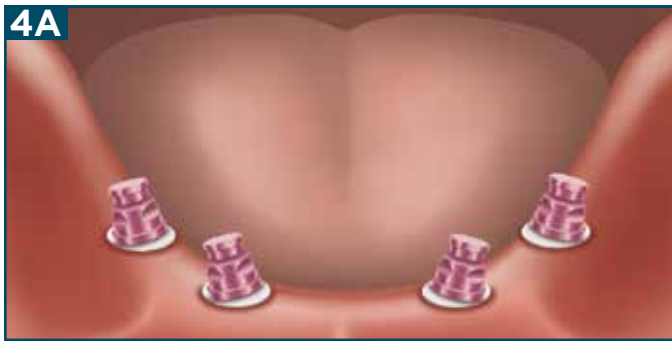
**2A-2B** Using the CHAIRSIDE® Vent Bur, mark the center of the Abutments in the denture. Peel away the marking paste and use the Recess Bur to relieve the marked areas to the minimum depth of 5.0mm. Use slight pressure and a small rocking motion to get the tip of the bur started followed by a straight downward motion to create the desired recess sites.



**3** Place a White Block-Out Spacer around each LOCATOR F-Tx Abutment pressing it down to contact the soft tissue. The Spacer is necessary to minimize the possibility of locking the prosthesis onto the LOCATOR F-Tx Abutment's undercut areas during the pick-up technique. If an additional Block-Out Spacer is needed, the LOCATOR F-Tx Fixed Attachment System package includes one extra spacer.

# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## DIRECT TECHNIQUE (CONTINUED)



**4A-4B** Before seating the Denture Attachment Housings with black Processing Ball onto the LOCATOR F-Tx Abutments, it is recommended to verify that the black Processing Balls are seated and finger tight. It is possible that the black Processing Balls can loosen during transit or during repeated insertion/removal from the Abutments.

Do not over tighten as the hex in the Processing Balls can strip. This component only needs to be finger tight. In the event a black Processing Ball becomes stripped, it can be grabbed and unthreaded with the use of the dedicated Retention Ball Driver or hemostat.

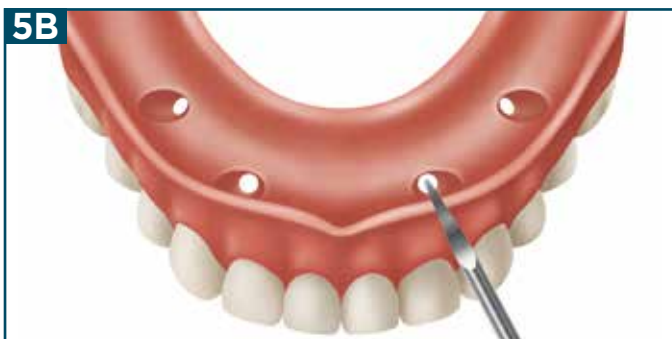


Seat the Denture Attachment Housings onto the LOCATOR F-Tx Abutments and align the Housings to be as parallel to one another as possible and still fit within the confines of the prosthesis. There must be no contact or interference of the Denture Attachment Housings with the relief area created in the prosthesis. The LOCATOR F-Tx Fixed Attachment System allows 20 degrees of angle correction from the vertical and up to 40 degrees of divergence/convergence between implants.

**NOTE:** It is very important for the Denture Attachment Housings to be clean and dry during the processing procedures. To accommodate this, use a rubber dam over all the Denture Attachment Housings to prevent blood, saliva and other fluids from contacting the surface of the Denture Attachment Housings. The Denture Attachment Housings can be cleaned with gauze and air dried prior to processing.



**5A-5B** Use the CHAIRSIDE® Undercut Bur to cut an undercut around the circumference of the relief areas for mechanical retention. The prosthesis must fully seat onto the tissue and over the Denture Attachment Housings without any interference. It is recommended to cut vent windows in the prosthesis with the CHAIRSIDE Vent Bur to visualize full seating and for all excess material to vent.



# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## DIRECT TECHNIQUE (CONTINUED)



**6** Apply a small amount of CHAIRSIDE Attachment Processing Material around the circumference of each Denture Attachment Housing and into each recess. Seat the prosthesis over the Denture Attachment Housings and have the patient close into light occlusion and hold in that position while the CHAIRSIDE Material sets. For accelerated curing time, the use of a curing light is recommended (See Chairside Attachment Processing Material IFU for additional information).

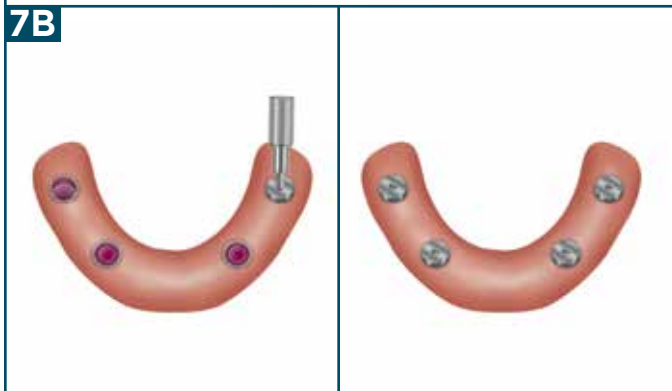
No excess CHAIRSIDE Attachment Processing Material should be placed on top of the Denture Attachment Housings or inside the denture recesses. Doing so will cause hydraulic pressure preventing full seating of the prosthesis into the Denture Attachment Housings.

**NOTE: Avoid tipping the Denture Attachment Housings and altering the alignment during insertion of the prosthesis.**



**7A-7B** Once the material has set, disengage the prosthesis from the LOCATOR F-Tx Abutments and remove it from the mouth. Verify that the Denture Attachment Housings have been securely processed into the prosthesis. Fill any voids and light cure as needed.

Prior to modifying the overdenture, replace the Processing Balls with Polishing Caps using the dedicated Retention Ball Hex Driver to protect the Denture Attachment Housing from possible damage.



Use the CHAIRSIDE® Grind Bur to remove any excess acrylic material.

# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## DIRECT TECHNIQUE (CONTINUED)

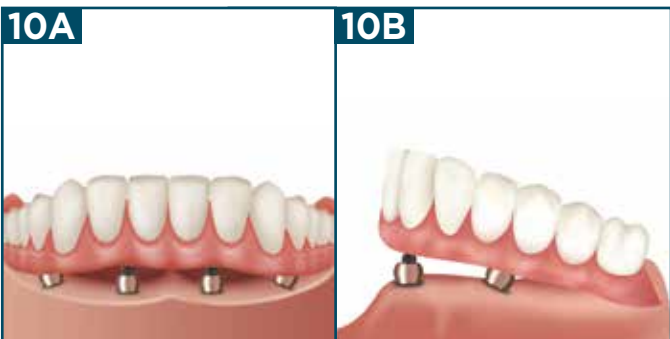


**8** Use the CHAIRSIDE Trim Bur to remove any excess acrylic material remaining on the prosthesis and to make any needed modifications to the prosthesis.



**9** Use the CHAIRSIDE Polish Bur to create a smooth finish of the prosthesis.

**NOTE:** Three (3) 0.6mm areas of clearance must be present in designated Abutment interproximal/cantilever spaces to allow for the Boosters to be inserted under the prosthesis, up to the designated black mark, to help remove the prosthesis from the mouth.



**10A-10B** Unscrew the Polishing Caps and replace with the black Processing Balls. Re-seat the prosthesis by aligning at least two (2) Denture Attachment Housings with the black Processing Balls on top of the LOCATOR F-Tx Abutments and pressing down to engage the black Processing Balls. Pivot the prosthesis to engage the rest of the Abutments. This step will line up the prosthesis directly over the Abutments. Verify the fit, comfort, esthetics and occlusion.

**NOTE:** When highly angulated abutments are present, engage them first before engaging the rest of the Abutments.

# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## DIRECT TECHNIQUE (CONTINUED)



**11A-11B** Once all functional and aesthetic requirements are met, proceed by removing the prosthesis from the mouth and grind the denture flanges to convert the denture into a hybrid/high water prosthesis with sufficient space for hygiene and maintenance. Three (3) 0.6mm areas of clearance must be present in designated interproximal/cantilever spaces to allow for the Booster Cushions to get under the prosthesis to help remove the prosthesis from the mouth.

Finish and polish.



**NOTE:** Cantilevers must be minimized to 1x the Anterior/Posterior spread. Excessive cantilevers could result in the dislodgement of the prosthesis.



**12A-12B** As a final step prior to final delivery, choose the most appropriate Retention Balls for the patient. Using the dedicated Retention Ball Hex Driver, unscrew the black Processing Balls and replace them with the appropriate Retention Balls. Refer to the Retention Ball chart on page 14.

- For an immediately loaded transitional prosthesis, the use of the Low (**Blue**) Retention Balls is recommended.
- For permanent delayed loading prosthesis, select the most appropriate Retention Balls based on quantity, tooth position, cantilevers length and occlusal scheme.

The removal of a prosthesis with medium or high Retention Balls prior to complete implant integration could negatively impact the implants.

**NOTE:** The Retention Balls are intended to be screwed with light finger pressure using the dedicated Retention Ball Hex Driver. Use care when screwing the Retention Balls into the housings to avoid stripping of the hex or cross-threading.

# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## DIRECT TECHNIQUE (CONTINUED)



**13A-13B** Firmly seat the prosthesis in place by carefully placing the prosthesis over the LOCATOR F-Tx Abutments, taking care not to bend or damage the Retention Balls. Align two visible Retention Balls over the LOCATOR F-Tx Abutments, and engage these into the Abutments. Pivot the prosthesis over the rest of the Abutments and ensure that all Retention Balls are aligned within the Abutment cavities.

**NOTE:** When highly angulated Abutments are present, engage these first before engaging the rest of the Abutments.

Firmly snap the prosthesis into place, ensuring that each Denture Attachment Housing is fully seated onto each Abutment. An audible snap should be heard when the Retention Balls engage the Abutments and the patient should confirm the fit. Have the patient bite on cotton rolls or on a bite stick for further confirmation that the Retention Balls are fully seated.

The use of an X-Ray is helpful in determining the fit of the Housings onto the Abutments. There should be no gaps between the Denture Attachment Housings and the spherical outer surface of the Abutments.

Instruct the patient on proper home care maintenance and recommended recall visits.

**NOTE:** When more than four (4) implants are used, a maximum of four (4) High (Green) Retention Balls is recommended per arch. Two (2) as close to the midline as possible and two (2) as posterior as possible to maximize retention and minimize the cantilever effect. All remaining Retention Balls must be Medium (Tan) or Low (Blue) Retention.

**FOR ANY CASE OVER SIX (6) IMPLANTS, ZEST DENTAL SOLUTIONS RECOMMENDS USING MEDIUM (TAN) OR LOW (BLUE) RETENTION BALLS ON ALL LOCATOR F-Tx ABUTMENTS.**

### RECOMMENDED NUMBER OF HIGH (GREEN) RETENTION BALLS PER QUADRANT

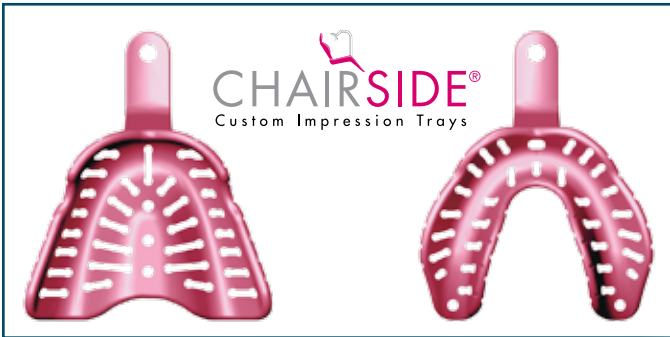
High Retention Ball	4 Implants	5 Implants	6 Implants	7 Implants	8 Implants
	0	✓	✓	✓	✓
1	✓	✓	✓	✗	✗
2	✓	✓	✓	✗	✗



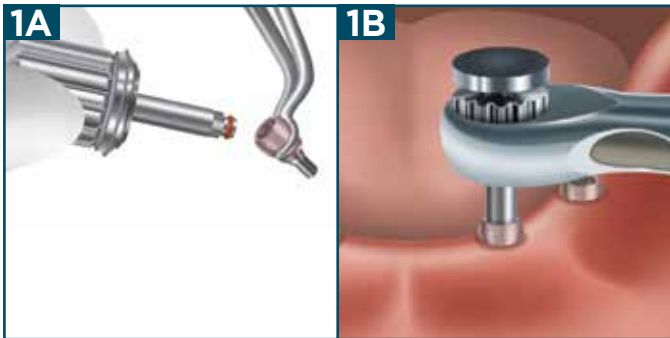
# PROCESSING OCATOR F-Tx™ ATTACHMENT HOUSINGS

## INDIRECT TECHNIQUE - ALL ACRYLIC BRIDGE EXAMPLE

### INDIRECT TECHNIQUE/LABORATORY PROCESSING

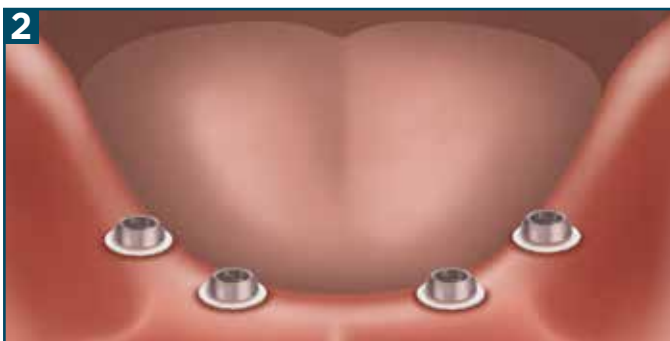


**NOTE:** Being that the LOCATOR F-Tx attachment system relies heavily on the accuracy and passive fitting of the prosthesis, ZEST DENTAL SOLUTIONS recommends the use of a custom impression tray for this procedure.



**1A-1B** Using the LOCATOR F-Tx Abutment Driver, engage the LOCATOR F-Tx Abutment and seat the Abutment onto the implant. Torque each Abutment according to the implant manufacturer's recommendations using a calibrated Torque Wrench and confirm seating.

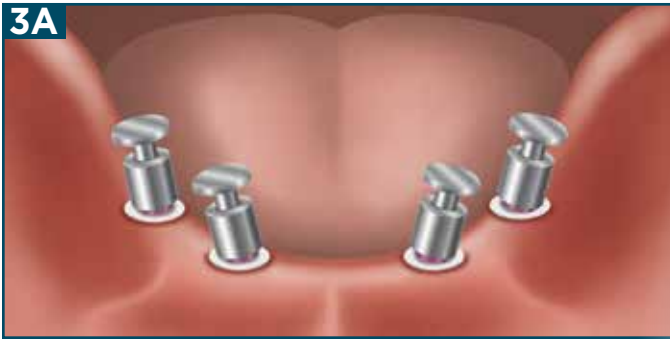
**NOTE:** The use of higher torque values than recommended could cause fracture of the LOCATOR F-Tx Abutment.



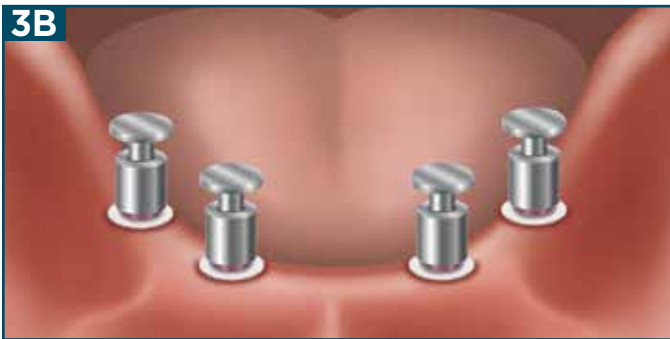
**2** Place a White Block-Out Spacer around each LOCATOR F-Tx Abutment pressing it down to contact the soft tissue. If an additional Block-Out Spacer is needed, the LOCATOR F-Tx Fixed Attachment System package includes one extra spacer. If the two Block-Out Spacer are not sufficient, a block-out material can also be used.

# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## INDIRECT TECHNIQUE (CONTINUED)

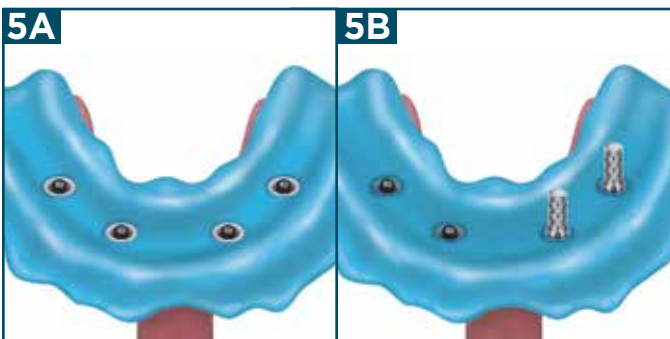


**3A-3B** Seat Impression Copings with the black Processing Balls onto each LOCATOR F-Tx Abutment. Align the Impression Copings as parallel to one another as possible and still fit within the confines of the final prosthesis. The LOCATOR F-Tx Fixed Attachment System allows up to 20 degrees of angle correction per implant and 40 degrees of divergence/convergence between implants.



**4** Syringe a light or medium body impression material around the circumference of each Impression Coping and fill the custom impression tray with a medium or heavy impression material and take an impression. After the impression material has set, remove the impression tray from the mouth.

**NOTE:** Avoid hitting the Impression Copings during insertion of the impression tray to prevent tilting/tipping and loss of alignment.



**5A-5B** The Impression Copings will get picked up in the impression. Remove the Block-Out Spacers from the Impression before seating the Analogs. Snap a LOCATOR F-Tx Abutment Analog onto each Impression Coping ensuring that these are seated properly and pour a working model.

# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## INDIRECT TECHNIQUE (CONTINUED)

AT THIS STAGE, THE CLINICIAN HAS THREE (3) CHOICES:



- A. Reseat the provisional prosthesis back on the LOCATOR F-Tx Abutments.
- B. Unscrew the LOCATOR F-Tx Abutments from the mouth and place the implant manufacturer's Healing Abutments back on the implants.
- C. Seat a LOCATOR F-Tx Healing Cap onto each LOCATOR F-Tx Abutment to protect the tops of the Abutments. This will require creating recesses in the existing prosthesis that allow full seating with no interferences with the Healing Caps.



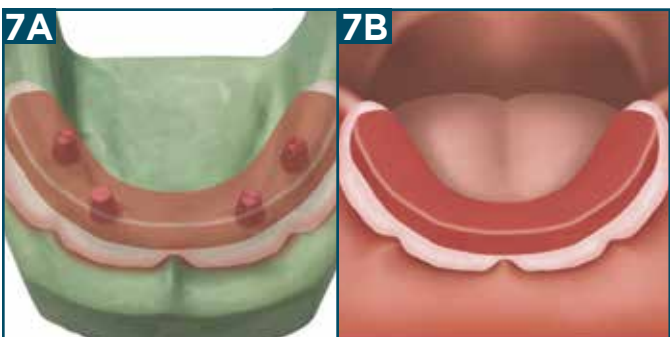
**NOTE:** If desired, add soft reline material in the recesses to eliminate the inadvertent loading of the Abutments. A slight engagement of the undercut area on the Healing Cap will be noticed while seating or removing the prosthesis due to the soft reline material interference.

PROSTHESIS FABRICATION:



**6** Impressions of both arches are completed and models are poured. Fabrication of the prosthesis can begin.

Replace the Impression copings with the Denture Attachment Housings.



**7A-7B** The Denture Attachment Housings with the black Processing Balls may be processed into the baseplate to provide stabilization during bite record and try-in.

## PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

### INDIRECT TECHNIQUE (CONTINUED)

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**8** After the bite registration has been recorded, start the fabrication of the prosthesis teeth set up. Have the patient try the teeth set up and approve the fit, function, aesthetics, phonetics and occlusion. Always ensure that the black Processing Balls are snug in the Denture Attachment Housings.

Removal of the Denture Attachment Housings from the model is recommended prior to finalizing the wax up and flasking the denture for processing. Simply remove by pulling them in an upward direction. Separate the flask and remove all the wax. Place the Denture Attachment Housings with the black Processing Balls back on the LOCATOR F-Tx Abutment Analogs and press down firmly to ensure that they are fully seated.



**9** Apply a small amount of VPS impression material or Rubber-Sep® in the Processing Caps and seat them on top of the Denture Attachment Housings. Wipe the excess and let the material set. This will keep the Processing Caps in place over the Denture Attachment Housings during the processing technique and prevent dislodgement.

Place the cast back into the flask and verify that there is no contact of any part of the Processing Caps with the denture teeth. Close the flask and process the denture.



**10** Remove the prosthesis from the flask, finish, and polish. Ensure that a 0.6mm gap between the prosthesis and soft tissue is maintained in areas where the Booster Cushions will be placed for the removal of the prosthesis.

# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## INDIRECT TECHNIQUE (CONTINUED)

### DELIVERY



11

**11** Prior to seating the prosthesis intra-orally, practice proper insertion and seating of the prosthesis on the working model. This step will help ease the final seating and eliminate any misalignment and possible damage of the Retention Balls.



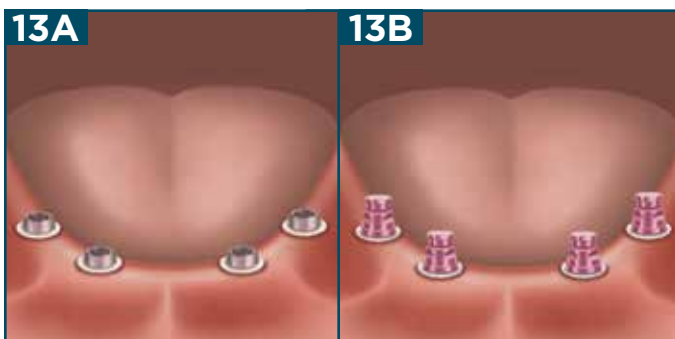
12A

**12A-12B** Remove the provisional prosthesis, Healing Caps, or Healing Abutments depending upon the situation. If not already in place, torque each Abutment according to the implant manufacturer's recommendations using a calibrated Torque Wrench and confirm seating.

**NOTE:** The use of higher torque values than recommended could cause fracture of the LOCATOR F-Tx Abutment.



12B



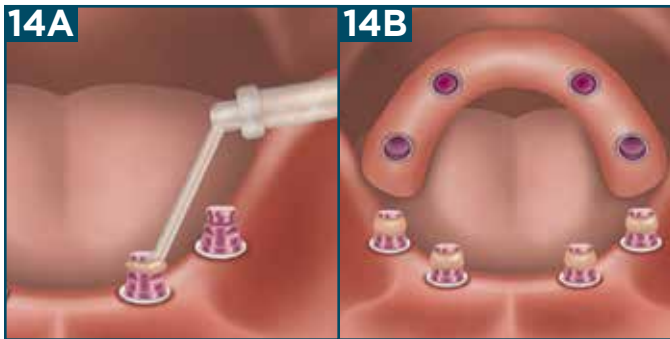
13A

13B

**13A-13B** Use Block-Out material or Block Out spacers on all visible undercuts of the LOCATOR F-Tx Abutment cuff to prevent locking the prosthesis on the Abutments.

Seat the Denture Attachment Housings with new black Processing Balls onto each of the LOCATOR F-Tx Abutments. Place the Hybrid/High water prosthesis in the mouth. The milled recesses will help align the proper path of insertion of the prosthesis onto the Denture Attachment Housings. It also provides the correct vertical occlusal stop. Have the patient approve the fit, function, aesthetics, phonetics and occlusion. If everything fits and the patient is satisfied, cementation of the Denture Attachment Housings to the milled recesses can begin.

## PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS INDIRECT TECHNIQUE (CONTINUED)

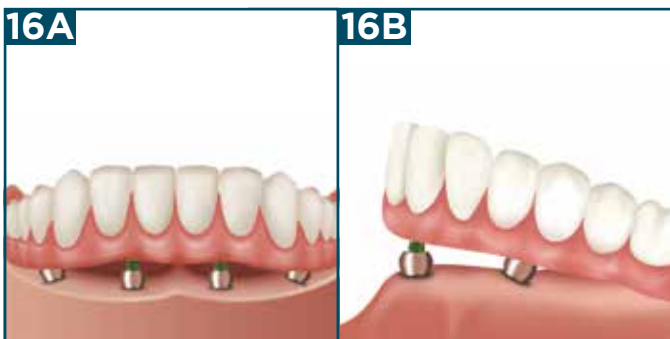


**14A-14B** Add CHAIRSIDE® Attachment Processing Material or choice of cement to the undercut area and sides of the Denture Attachment Housings and Processing Caps and seat the prosthesis in place. **No excess CHAIRSIDE Attachment Processing Material or metal to metal cement should be placed on top of the Denture Attachment Housings or inside the Processing Caps. Doing so will cause hydraulic pressure preventing full seating of the prosthesis into the Denture Attachment Housings.** Have the patient bite into light centric occlusion until the cement or acrylic is set. Remove the prosthesis and proceed to delivery procedure.



**15A-15B** As a final step prior to final delivery, choose the most appropriate Retention Balls for the patient. Using the dedicated Retention Ball Hex Driver, unscrew the black Processing Balls and replace them with the appropriate Retention Balls. Refer to the Retention Ball chart on page 21.

**NOTE: The Retention Balls are intended to be screwed with light finger pressure. Use care when screwing the Retention Balls into the housings to avoid stripping of the hex or cross-threading.**



**16A-16B** Carefully place the prosthesis over the Abutments, taking care not to bend or damage the Retention Balls. Align two visible Retention Balls over the Abutments, and engage these into the Abutments. Pivot the prosthesis over the rest of the Abutments and ensure that all Retention Balls are aligned within the Abutment cavities. Firmly seat the prosthesis in place and verify that all the Retention Balls have been seated properly onto the LOCATOR F-Tx Abutments.

**NOTE: When highly angulated Abutments are present, engage these first before engaging the rest of the Abutments.**

An audible snap should be heard when the Retention Balls engage the Abutments and the patient should confirm the fit. Have the patient bite on cotton rolls or on a bite stick for further confirmation that the Retention Balls are fully seated.

The use of an X-Ray is helpful in determining the fit of the Housings onto the Abutments. There should be no gaps between the Denture Attachment Housings and the spherical outer surface of the Abutments.

Instruct the patient on proper home care maintenance and recommended recall visits.

# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## INDIRECT TECHNIQUE (CONTINUED)

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**NOTE:** When more than four (4) implants are used, a maximum of four (4) High (Green) Retention Balls is recommended per arch. Two (2) as close to the midline as possible and two (2) as posterior as possible to maximize retention and minimize the cantilever effect. All remaining Retention Balls must be Medium (Tan) or Low (Blue) Retention.

**FOR ANY CASE OVER SIX (6) IMPLANTS, ZEST DENTAL SOLUTIONS RECOMMENDS USING MEDIUM (TAN) OR LOW (BLUE) RETENTION BALLS ON ALL LOCATOR F-Tx ABUTMENTS.**

### RECOMMENDED NUMBER OF HIGH (GREEN) RETENTION BALLS PER QUADRANT



High Retention Ball	4 Implants	5 Implants	6 Implants	7 Implants	8 Implants
0	✓	✓	✓	✓	✓
1	✓	✓	✓	✗	✗
2	✓	✓	✓	✗	✗

# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## MILLED FRAMEWORK

SCANNING PROCEDURE: Please refer to Impression Technique on page 15 prior to proceeding.



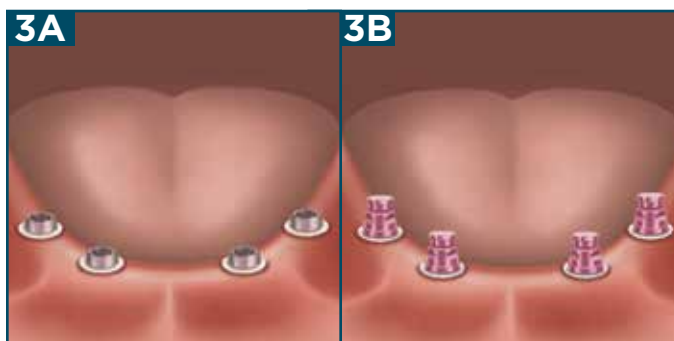
**1** After the model has been poured, verify that the Denture Attachment Housings are properly seated on the LOCATOR F-Tx Abutment Analogs. Spray the Denture Attachment Housings with powder scan spray and proceed with scanning the model for the fabrication of a milled framework of choice. Proceed with the fabrication of the desired prosthesis.

### NOTE:

- When designing the framework, ensure that there is a minimum relief area of 0.2mm around each of the Denture Attachment Housings to allow for cement space of the framework to the Denture Attachment Housings.
- It is recommended that small undercuts are created in the framework to increase luting strength of the Denture Attachment Housing to the framework.
- Maintain a very small gap (0.6mm) between the soft tissue and the framework to give the LOCATOR F-Tx Prosthesis Booster Cushions the required space to be inserted for removal and maintenance of the prosthesis.



**2** Prior to seating the prosthesis intra-orally, practice proper insertion and seating of the prosthesis on the working model. This step will help ease the final seating and eliminate any misalignment and possible damage of the Retention Balls.

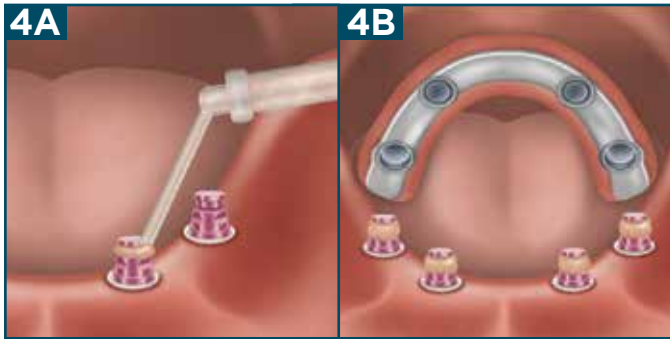


**3A-3B** Use Block-Out material or Block Out spacers on all visible undercuts of the LOCATOR F-Tx Abutment cuff to prevent locking the prosthesis on the Abutments.

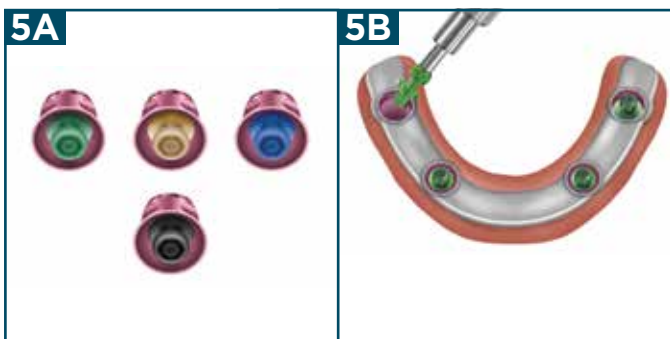
Seat the Denture Attachment Housings with new black Processing Balls onto each of the LOCATOR F-Tx Abutments. Place the Hybrid/High water prosthesis in the mouth. The milled recesses will help align the proper path of insertion of the prosthesis onto the Denture Attachment Housings. It also provides the correct vertical occlusal stop. Have the patient approve the fit, function, aesthetics, phonetics and occlusion. If everything fits and the patient is satisfied, cementation of the Denture Attachment Housings to the milled recesses can begin.



## PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS MILLED FRAMEWORK (CONTINUED)

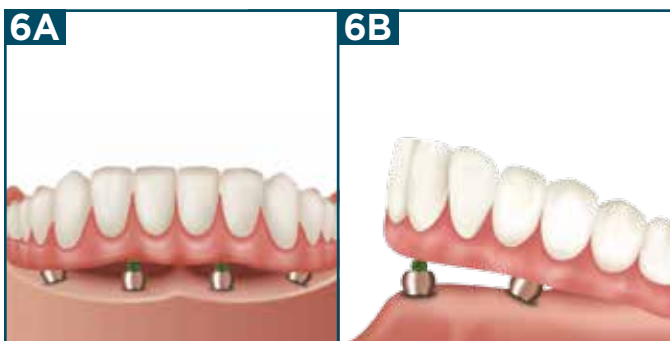


**4A-4B** Add CHAIRSIDE® Attachment Processing Material or choice of metal-to-metal cement to the undercut area and sides of the Denture Attachment Housings. Seat the prosthesis in place. **No excess CHAIRSIDE Attachment Processing Material or cement should be placed on top of the Denture Attachment Housings or inside the framework. Doing so will cause hydraulic pressure preventing full seating of the prosthesis into the Denture Attachment Housings.** Have the patient bite into light centric occlusion until the cement or acrylic is set.



**5A-5B** As a final step prior to final delivery, choose the most appropriate Retention Balls for the patient. Using the dedicated Retention Ball Hex Driver, unscrew the black Processing Balls and replace them with the appropriate Retention Balls. Refer to the Retention Ball chart on page 24.

**NOTE: The Retention Balls are meant to be screwed with light finger pressure. Use care when screwing the Retention Balls into the housings to avoid stripping of the hex and cross-threading.**



**6A-6B** Firmly seat the prosthesis in place and verify that all the Retention Balls have been seated properly into the LOCATOR F-Tx Abutments. Carefully place the prosthesis over the Abutments, taking care not to bend or damage the Retention Balls. Align two visible Retention Balls over the Abutments, and engage these into the Abutments. Pivot the prosthesis over the rest of the Abutments and ensure that all Retention Balls are aligned within the Abutment cavities.

**NOTE: When highly angulated Abutments are present, engage these first before engaging the rest of the Abutments.**

An audible snap should be heard when the Retention Balls engage the Abutments and the patient should confirm the fit. Have the patient bite on cotton rolls or on a bite stick for further confirmation that the Retention Balls are fully seated.

The use of an X-Ray is helpful in determining the fit of the Housings onto the Abutments. There should be no gaps between the Denture Attachment Housings and the spherical outer surface of the Abutments.


Instruct the patient on proper home care maintenance and recommended recall visits.

## PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS MILLED FRAMEWORK (CONTINUED)

**NOTE:** When more than four (4) implants are used, a maximum of four (4) High (Green) Retention Balls is recommended per arch. Two (2) as close to the midline as possible and two (2) as posterior as possible to maximize retention and minimize the cantilever effect. All remaining Retention Balls must be Medium (Tan) or Low (Blue) Retention.

**FOR ANY CASE OVER SIX (6) IMPLANTS, ZEST DENTAL SOLUTIONS RECOMMENDS USING MEDIUM (TAN) OR LOW (BLUE) RETENTION BALLS ON ALL LOCATOR F-Tx ABUTMENTS.**

### RECOMMENDED NUMBER OF HIGH (GREEN) RETENTION BALLS PER QUADRANT



High Retention Ball	4 Implants	5 Implants	6 Implants	7 Implants	8 Implants
0	✓	✓	✓	✓	✓
1	✓	✓	✓	✗	✗
2	✓	✓	✓	✗	✗

## PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS CAST FRAMEWORK

**WAXING OF FRAMEWORK:** Please refer to Impression Technique on page 15 prior to proceeding



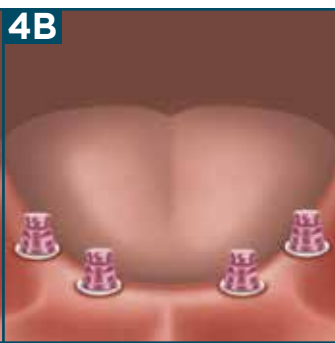
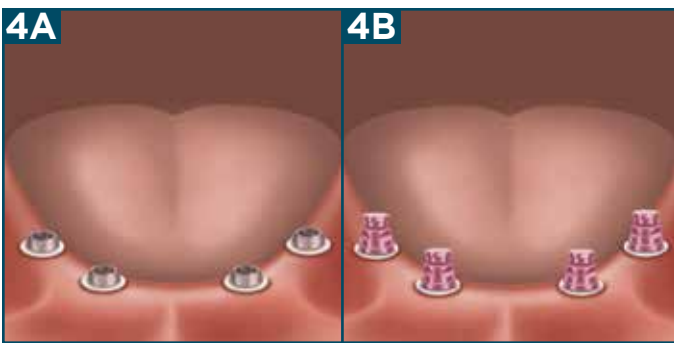
**1** After the model has been poured, verify that the Denture Attachment Housings are properly seated on the LOCATOR F-Tx Abutment Analogs. Seat a Waxing Cap onto each Denture Attachment Housing and reduce the height of the post extension as required by the occlusion. Wax the desired framework, invest and cast using standard laboratory techniques.

**2** Divest and finish the fabrication of the prosthesis as needed. The prosthesis is delivered to the patient with the new black Processing Balls. Have the patient approve fit, function, aesthetics, phonetics and occlusion. If everything fits and the patient is satisfied, cementation of the Denture Attachment Housings to the framework can begin.

## PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS CAST FRAMEWORK (CONTINUED)

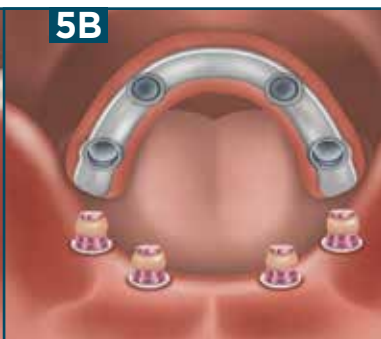
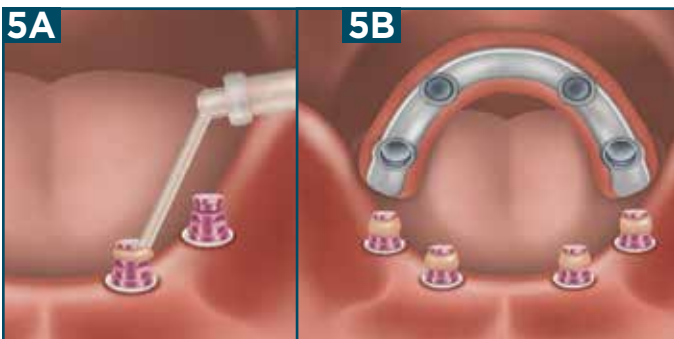


**3** Prior to seating the prosthesis intra-orally, practice proper insertion and seating of the prosthesis on the working model. This step will help ease the final seating and eliminate any misalignment and possible damage of the Retention Balls.



**4A-4B** Use Block-Out material or Block Out spacers on all visible undercuts of the LOCATOR F-Tx Abutment cuff to prevent locking the prosthesis on the Abutments.

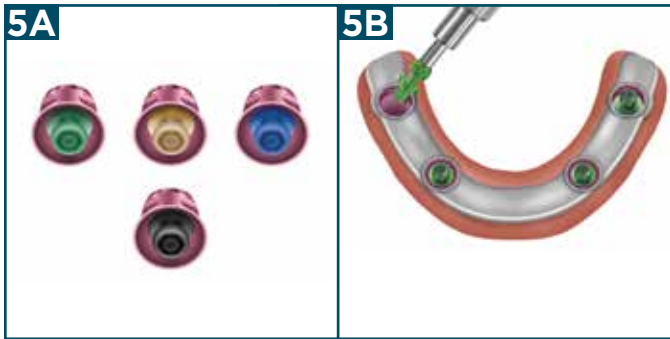
Seat the Denture Attachment Housings with new black Processing Balls onto each of the LOCATOR F-Tx Abutments. Place the Hybrid/High water prosthesis in the mouth. The milled recesses will help align the proper path of insertion of the prosthesis onto the Denture Attachment Housings. It also provides the correct vertical occlusal stop. Have the patient approve the fit, function, aesthetics, phonetics and occlusion. If everything fits and the patient is satisfied, cementation of the Denture Attachment Housings to the milled recesses can begin.



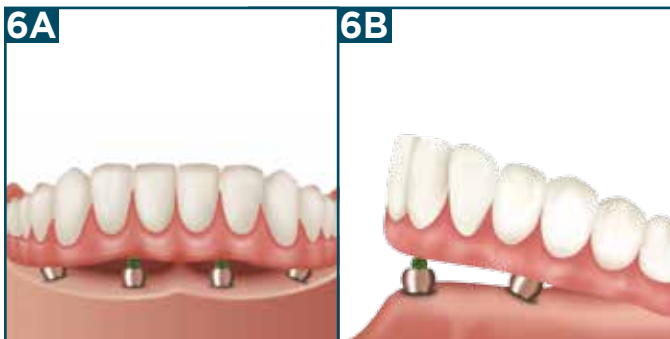
**5A-5B** Add CHAIRSIDE® Attachment Processing Material or choice of metal to metal cement to the undercut area and sides of the Denture Attachment Housings only and seat the prosthesis in place. **No excess CHAIRSIDE Attachment Processing Material or cement should be placed on top of the Denture Attachment Housings or inside the framework. Doing so will cause hydraulic pressure preventing full seating of the prosthesis into the Denture Attachment Housings.** Have the patient bite in light centric occlusion until the cement is set.

# PROCESSING LOCATOR F-Tx™ ATTACHMENT HOUSINGS

## CAST FRAMEWORK (CONTINUED)



**5A-5B** As a final step prior to final delivery, choose the most appropriate Retention Balls for the patient. Using the dedicated Retention Ball Hex Driver, unscrew the black Processing Balls and replace them with the appropriate Retention Balls. Refer to the Retention Ball chart below.



**6A-6B** Firmly seat the prosthesis in place and verify that all the Retention Balls have been seated properly onto the LOCATOR F-Tx Abutments. Carefully place the prosthesis over the Abutments, taking care not to bend or damage the Retention Balls. Align two visible Retention Balls over the Abutments, and engage these into the Abutments. Pivot the prosthesis over the rest of the Abutments and ensure that all Retention Balls are aligned within the Abutment cavities.

**NOTE:** When highly angulated Abutments are present, engage these first before engaging the rest of the Abutments.

Firmly snap the prosthesis into place, ensuring that each Denture Attachment Housing is fully seated onto each Abutment. An audible snap should be heard when the Retention Balls engage the Abutments and the patient should confirm the fit. Have the patient bite on cotton rolls or on a bite stick for further confirmation that the Retention Balls are fully seated.


The use of an X-Ray is helpful in determining the fit of the Housings onto the Abutments. There should be no gaps between the Denture Attachment Housings and the spherical outer surface of the Abutments.

Instruct the patient on proper home care maintenance and recommended recall visits.

**NOTE:** When more than four (4) implants are used, a maximum of four (4) High (Green) Retention Balls is recommended per arch. Two (2) as close to the midline as possible and two (2) as posterior as possible to maximize retention and minimize the cantilever effect. All remaining Retention Balls must be Medium (Tan) or Low (Blue) Retention.

**FOR ANY CASE OVER SIX (6) IMPLANTS, ZEST DENTAL SOLUTIONS RECOMMENDS USING MEDIUM (TAN) OR LOW (BLUE) RETENTION BALLS ON ALL LOCATOR F-Tx ABUTMENTS.**

### RECOMMENDED NUMBER OF HIGH (GREEN) RETENTION BALLS PER QUADRANT



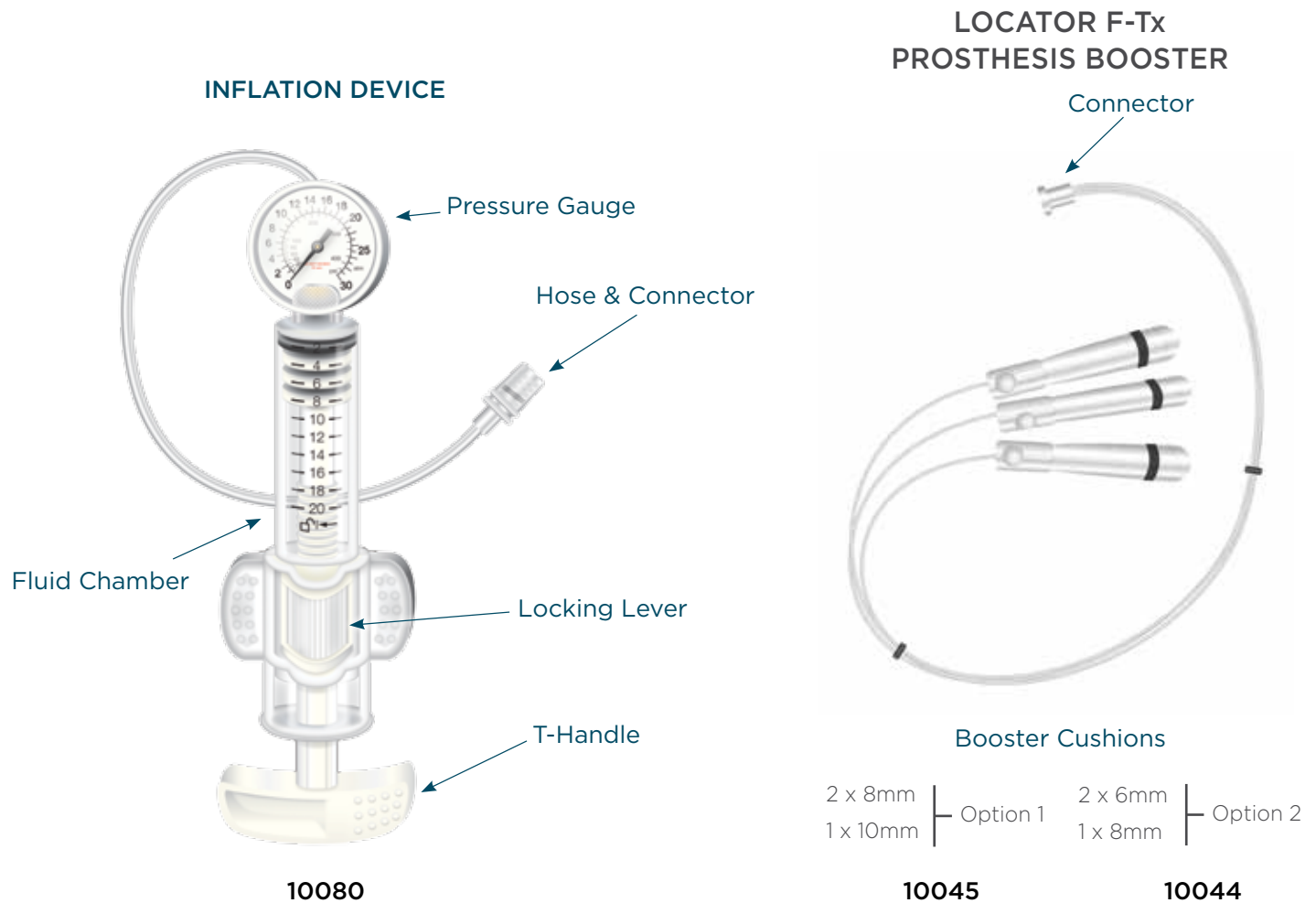
High Retention Ball	4 Implants	5 Implants	6 Implants	7 Implants	8 Implants
0	✓	✓	✓	✓	✓
1	✓	✓	✓	✗	✗
2	✓	✓	✓	✗	✗

# LOCATOR F-Tx™ PROSTHESIS REMOVAL PROCEDURE

## DESCRIPTION OF LOCATOR F-Tx™ PROSTHESIS REMOVAL SYSTEM

The LOCATOR F-Tx Prosthesis Removal System engages a prosthesis and produces the lifting force required for disengagement of the Retention Balls from the LOCATOR F-Tx Abutment. The system is comprised of an Inflation Device and Prosthesis Booster.

### LOCATOR F-Tx PROSTHESIS REMOVAL SYSTEM



### REMOVAL PROCEDURE

#### Required Materials

- Prosthesis Removal System
- Minimum 20cc water. Deionized or Sterile water recommended to prevent hard water deposits that could affect gauge performance
- Bowl

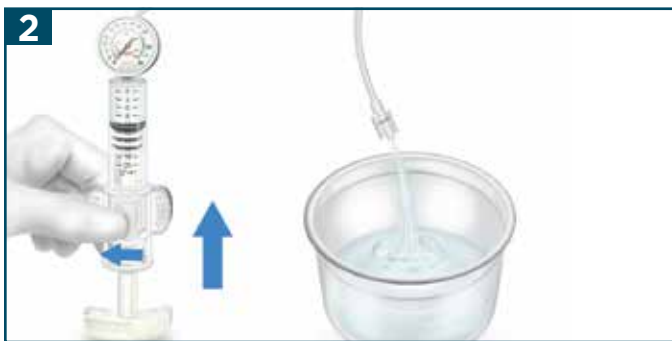
# LOCATOR F-Tx™ PROSTHESIS REMOVAL PROCEDURE (CONTINUED)

## SYSTEM ASSEMBLY AND PREPARATION



**1** Fill bowl with at least 20cc of water. With the Inflation Device Connector under water, press the Locking Lever to release the T-Handle and pull back to fill the Inflation Device with 20cc of water. Release the Locking Lever.

Face the Gauge and place the Inflation Device upright with the T-Handle on a hard surface.



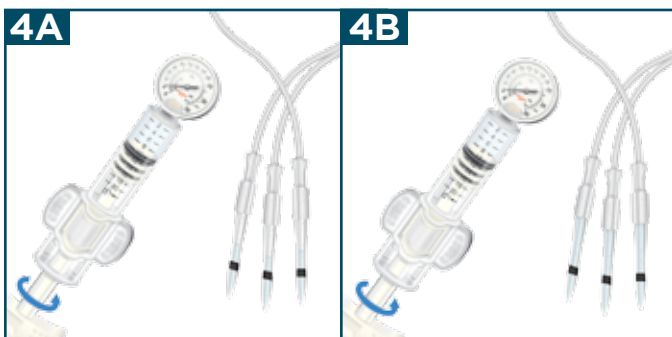
**2** Empty water from the Fluid chamber to the 10cc mark by pressing the Locking Lever and pushing down on the T-Handle at the same time.

**NOTE:** Verify no large air bubbles are trapped in the Fluid Chamber or Hose. If any large air bubbles are visible, drain the water from Fluid Chamber and repeat steps above.



**3** Insert and twist the Prosthesis Booster Connector to the Inflation Device Connector.

## AIR ELIMINATION



**4A-4B** While holding the Booster Cushions upside down with the tips facing downward, turn the T-Handle of the Inflation Device clockwise to fill the Cushions with water. Water will start to fill the tips of the cushions.

Fill all three cushions.

# LOCATOR F-Tx™ PROSTHESIS REMOVAL PROCEDURE (CONTINUED)

## SYSTEM PRESSURE CHECK

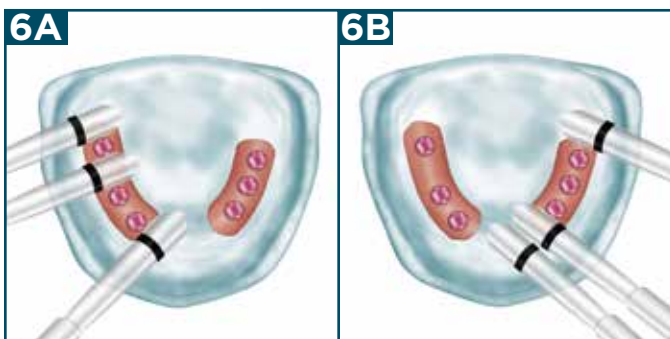


**5A-5C** To flatten the Booster Cushions, pull the T-Handle while pressing the Locking Lever. Also, squeeze the Cushions flat in preparation for insertion.

Use of all three (3) Cushions is recommended for the most effective prosthesis removal and all Cushions should be placed as close to each other as possible to most effectively combine removal forces.



**Optional:** Local anesthetic is recommended in areas where the cushions will be placed when the patient expresses discomfort.



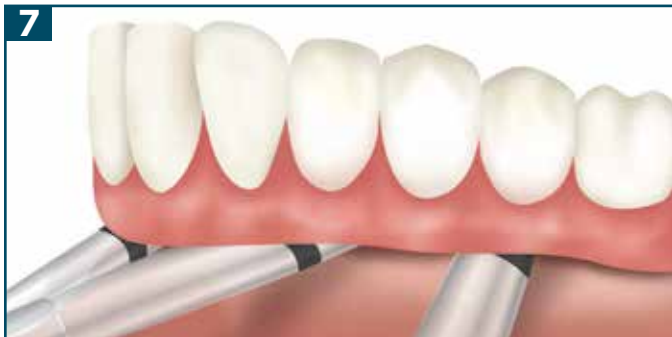
**6A-6B** When the prosthesis is closely adapted to the tissue, it can be hard to see the gaps between Abutments. If a stone study model has been produced for the case, it can be used to identify implant/abutment positions and suggest the best spots for insertion of the Booster Cushions.

# LOCATOR F-Tx™ PROSTHESIS REMOVAL PROCEDURE (CONTINUED)

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## SYSTEM PRESSURE CHECK

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**7** Place the Cushions under the prosthesis by holding the proximal end and maneuvering the tip between the prosthesis and soft tissue. Insert up to the Black line on the Booster Cushion.

A small amount of Vaseline may be applied to the Booster Cushions to assist with insertion between the underside of the prosthesis and the patient's tissue.

**Avoid kinking the thin tubing.**



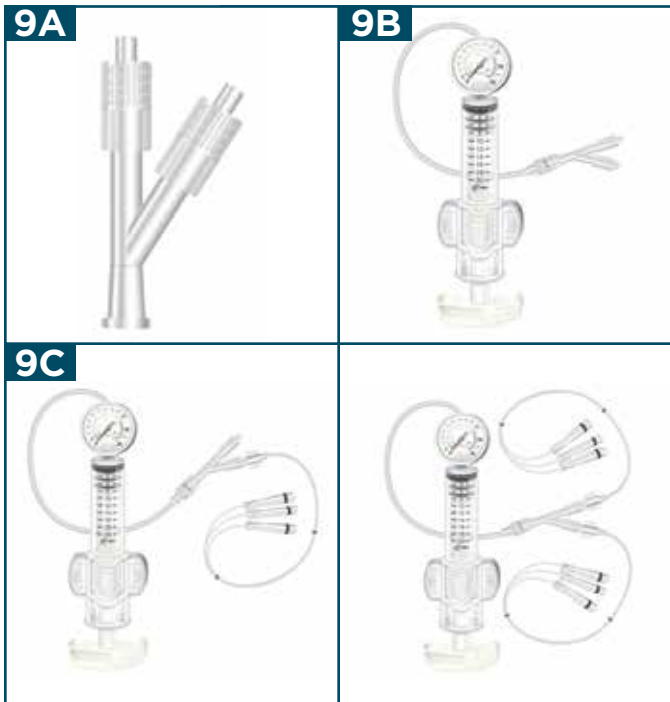
**8A-8B** Gently release the T-Handle while pressing the Locking Lever. Turn the T-Handle clockwise to quickly build lifting pressure in the Booster Cushions.

Prosthesis should disengage from the Abutments. If the pressure causes excessive discomfort to the patient, quickly turn the T-Handle counter clockwise to relieve the pressure.





# LOCATOR F-Tx™ PROSTHESIS REMOVAL PROCEDURE (CONTINUED)



**9A-9B-9C** NOTE: If 250psi has been reached and the prosthesis fails to disengage from the Abutments, or patient discomfort becomes a concern, a second Booster set should be used to facilitate the removal of the prosthesis while minimizing pressure. This will require the “Y” connector to be attached to the Inflation Device Connector and the two sets of Boosters connected to the “Y”. Place all Booster Cushions under the prosthesis as close to each other as possible and repeat the removal steps.



**10** Press the Locking Lever and pull the T-Handle to release the pressure.

Repeat the removal procedure until the prosthesis is completely disconnected from all LOCATOR F-Tx Abutments.

**NOTE:** Hold the prosthesis when disengaging the final Abutments, as the prosthesis can spring off the Abutments.

\* Please refer to page 35 for more information about Multi-Use Devices, Disassembly and Disinfection of Prosthesis Removal System.

# IMPORTANT INFORMATION ABOUT THE LOCATOR F-Tx™ FIXED ATTACHMENT SYSTEM

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## IMPORTANT

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This document contains the most current Instructions for Use. Please read and retain.

## DESCRIPTION

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The LOCATOR F-Tx Fixed Attachment System is an implant attachment for rigid connection of fixed, partial and full arch restorations on endosseous dental implants. The system includes Abutment, Denture Attachment Housing, Processing Ball and three (3) levels of Retention Balls, Healing Cap, Impression Coping, Processing Cap, Abutment Analog, Waxing Cap, Polishing Cap and seating and removal tools. The system enables the clinician to remove and re-seat the prosthesis when needed.

## LOCATOR F-TX FIXED ATTACHMENT SYSTEM VIAL CONTENTS

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- 1x Abutment
- 1x Denture Attachment Housing
- 2x Black Processing Ball (1 attached to the Denture Attachment Housing and 1 additional)
- 1x Blue Low Retention Ball (5 Lbs)
- 1x Tan Medium Retention Ball (10 Lbs)
- 1x Green High Retention Ball (20 Lbs)
- 2x Block Out Spacers (**Packed Separately**)

## INDICATIONS

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The LOCATOR F-Tx Fixed Attachment System is designed to support fixed, partial or full arch restorations on endosseous dental implants in the mandible or maxilla for the purpose of restoring masticatory function. It is used in fixed hybrid restorations that can be attached with a snap-in system.

### IMPLANT COMPATIBILITY:

[http://www.zestdent.com/products/F-Tx\\_IFU](http://www.zestdent.com/products/F-Tx_IFU)

## CONTRAINDICATIONS

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- Not appropriate for single tooth restorations.
- Not appropriate where a resilient connection is required.
- Not appropriate for use on an implant with divergence greater than 20 degrees (from vertical).

- Not appropriate for a unilateral bridge.

Dental implants should not be used in patients with serious medical problems or in a poor general state of health. Patients with medical problems such as uncontrolled bleeding disorders, drug or alcohol abuse, weakened immune system, or uncontrollable endocrine disorders should be carefully evaluated prior to treatment.

## CAUTION

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Federal (USA) law restricts this device to sale by or on the order of a licensed dentist.

## STORAGE AND HANDLING

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The LOCATOR F-Tx Fixed Attachment System in its undamaged, original packaging is not subject to any special considerations for storage or handling.

## MRI SAFETY INFORMATION

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The LOCATOR F-Tx Fixed Attachment System has not been evaluated for safety and compatibility in the MR environment. It has not been tested for heating, migration, or image artifact in the MR environment. The safety of the LOCATOR F-Tx Fixed Attachment System in the MR environment is unknown. Scanning a patient who has this device may result in patient injury.

## WARNINGS AND PRECAUTIONS

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- **The use of this or any dental restorative product requires that the clinician be thoroughly familiar with the product and the method for its use and application.** They must also be familiar with all instruments and surgical/restorative procedures required, including device sterilization.
- The clinician must use reasonable judgment in deciding when and where to use the product. This should include a complete assessment of the patient prior to performing any procedure.
- The clinician should also determine if the patient has a metal allergy to titanium alloy (6Al-4V) in which case, use of the system may be contraindicated.
- A minimum of four (4) implants are required to support a prosthesis with cross arch stabilization.
- **A maximum of Two (2) Green High Retention Balls per quadrant is recommended in arches with 6**

# IMPORTANT INFORMATION ABOUT THE LOCATOR F-Tx™ FIXED ATTACHMENT SYSTEM (CONTINUED)

implants or less. All others balls should either be Tan Medium, or Blue Low Retention Balls.

- **In arches with 7 or more implants, No Green High Retention Balls are recommended. Only Tan Medium or Blue Low can be used.**
- **Two (2) 9mm and one (1) of 11mm interproximal Abutment spaces/cantilevers are required per quadrant for the removal of the prosthesis. Cantilever counts as a space.**
- **0.6mm of clearance must be present in these interproximal/cantilever spaces to allow for the Boosters to get under the prosthesis, up to the designated black mark, to help remove the prosthesis from the mouth.**
- Based on the results of the patient's assessment, the clinician should select the appropriate restorative components, including Abutments that accommodate the desired gingival tissue thickness and place the appropriate Retention Balls for each quadrant of the prosthesis.
- Ensure the length of any cantilever is no more than **one (1) time x the Anterior/Posterior spread.**
- Care should be taken when utilizing small components as they can be dropped and contaminated, ingested or aspirated.
- Consumption of sticky foods should be avoided when no Medium or High Retention Balls are in use.
- Components must be assembled and maintained as described in this document. Parafunctional habits, such as bruxism or clenching may result in overloading, loosening or improper fitting of the components, causing them to fracture and/or fail during normal use.

## SINGLE-USE DEVICES

- Components of the LOCATOR F-Tx Fixed Attachment System are single-use only.
- Single-Use Devices must not be reused or re-sterilized.

## MULTI-USE DEVICES

- The Abutment and Retention Ball drivers are multi-use devices.
- Multi-Use Devices must be cleaned and sterilized prior to re-use.

## CLEANING OF MULTI-USE DEVICES

### Cleaning Prep

- Disassembly not required for drivers

### Manual Cleaning

- Mix enzymatic cleaning solution according to the manufacturer's instructions.
- Soak devices in enzymatic cleaning solution by completely submerging for 20 minutes.
- Scrub devices using a soft-bristled, nylon brush until all visible residue has been removed.
- Remove devices from the enzymatic cleaning solution and rinse with tap water for a minimum of 3 minutes. Make sure to thoroughly flush difficult to reach areas such as internal holes/crevices.
- Remove excess moisture from devices with a clean, absorbent, non-shedding wipe.

## STEAM STERILIZATION

- All Attachment System components contained in the Abutment vial are supplied **STERILE**.
- Healing Cap, Impression Coping, Abutment Drivers, and Retention Ball Drivers must be sterilized prior to use.

### Sterilization Prep

- Disassembly not required for drivers or pre-assembled Denture Attachment Housings and Impression Copings with Processing Balls.
- Use an FDA cleared autoclave bag or wrap.
- Sterilize the components and devices according to the following parameters:

	Gravity Autoclave	Pre-Vacuum Autoclave
Temperature	132°C	132°C
Exposure Time	15 minutes	4 minutes
Dry Time	30 minutes	20 minutes

# IMPORTANT INFORMATION ABOUT THE LOCATOR F-Tx™ FIXED ATTACHMENT SYSTEM (CONTINUED)

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## PROSTHESIS MAINTENANCE (BY CLINICIAN)

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- Routine maintenance visits may be conducted as required for hygiene and attachment function evaluation for both the Maxilla and Mandible.
- All F-Tx Abutment cavities must be checked and cleaned prior to reseating the prosthesis with new Retention Balls. They must be free from any debris.

**NOTE: Use of plastic instruments is recommended for scaling. Do not use metal instruments, which may cause scratches on the Abutment surface. Examine the patient for signs of inflammation around the Abutments and for implant mobility. When the prosthesis is removed, retighten the Abutments according to the implant manufacture's recommendations using a calibrated torque wrench and confirm seating and replace the Retention Balls with new ones.**

## PATIENT CARE

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- Good oral hygiene is vital to Attachment System success. The LOCATOR F-Tx Fixed Attachment System must be thoroughly cleaned each day to prevent plaque build-up. The patient should be instructed to use a soft nylon bristle or end-tufted toothbrush and super-floss to clean the Abutments. Non-abrasive toothpaste is recommended.

# IMPORTANT INFORMATION ABOUT THE LOCATOR F-Tx™ REMOVAL SYSTEM

## INDICATIONS

The LOCATOR F-Tx Prosthesis Removal System is designed to remove a partial or full arch restoration held by the LOCATOR F-Tx Fixed Attachment System.

**Note: Two (2) interproximal Abutment or cantilever spaces of 9mm and one (1) of 11mm are required per quadrant for the Booster cushions to function properly.**

## CONTRAINDICATIONS

- Removal of prosthesis with more than four (4) Green High Retention Balls for a full arch restoration.
- Removal of prosthesis with more than two (2) Green High Retention Balls per quadrant.
- **Do not use above 350psi.**

## CAUTION

Federal (USA) law restricts this device to sale by or on the order of a licensed dentist.

## STORAGE AND HANDLING

The LOCATOR F-Tx Prosthesis Removal System in its undamaged, original packaging is not subject to any special considerations for storage or handling.

## WARNINGS AND PRECAUTIONS

- The use of this or any dental restorative product requires that the clinician be thoroughly familiar with the product and the method for its use and application. The clinician must use reasonable judgment in deciding when and where to use the product.
- Removal of prosthesis prior to full implant integration with High or Medium Retention Balls could cause implant failure.
- The use of the 6/6/8 Booster alone, must not be used when Green Retention Balls are used.

**Note: In order to perform as intended, prior to use, the Prosthesis Removal System must be filled with water and have the majority of air removed.**

## SINGLE-USE DEVICES

- The LOCATOR F-Tx Prosthesis Booster is single-use only.
- Single-Use Devices must not be reused or re-sterilized.

## MULTI-USE DEVICES

- The LOCATOR F-Tx Inflation Device is for multi-use.
- Multi-use devices must be disinfected prior to re-use.

## DISASSEMBLY OF MULTI-USE INFLATION DEVICE

- Disconnect the used Prosthesis Booster from the Inflation Device and discard.
- Pull T-Handle until fully extended.
- Press the Locking Lever and eliminate remaining water from the syringe. Cycle the T-Handle back-and-forth several times to remove as much water from the system as possible.
- Flush the Inflation Device by aspirating and expelling 20cc of 70% isopropanol. This should facilitate elimination of remaining water droplets and expedite drying.

## DISINFECTION OF INFLATION DEVICE

Spray disinfectant over the Inflation Device, taking care to get into crevices, recesses, and areas of likely contamination.

- **Do not Autoclave**
- **Do not Dry Heat**
- **Do not Chemiclave**

**Note: The Fluid Chamber should be clear. For safety reasons, if the Fluid Chamber is frosty or cracked please discard the Inflation Device.**

## RETURN POLICY AND WARRANTY

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### ORDERING

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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

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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

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- 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

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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

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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. 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.

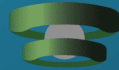
### RETURN POLICY

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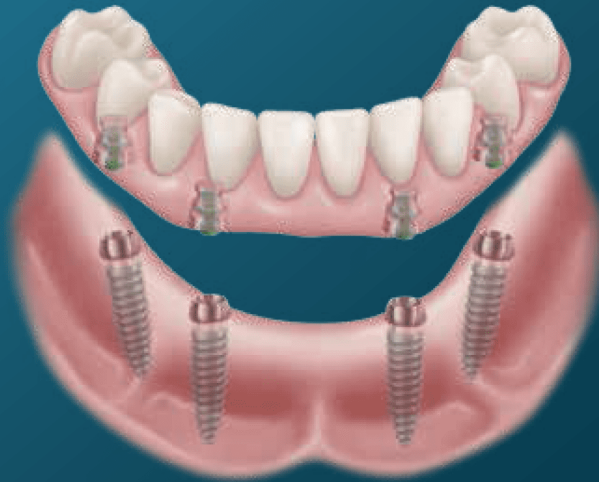
Please Observe the Following Guidelines:

- 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.





**LOCATOR F-Tx™**  
FIXED ATTACHMENT SYSTEM



VISIT

**WWW.PREATDENTAL.COM**

24 HOURS A DAY | 7 DAYS A WEEK

TO PLACE ORDERS ONLINE OR TO FIND THE LATEST  
SUPPORT TOOLS FOR LOCATOR F-Tx™



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