

## RETURN POLICY

Check with your Distributor for their policy on returns.

## WARRANTY

Zest Anchors, Inc. provides a limited warranty for its products, to the original purchaser, to be free from defects in workmanship and materials under normal use for a period of one year from the date of purchase. Zest Anchors, Inc. will, at its option, substitute the returned product that proves to be defective with a similar product, free of charge.

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### EU AUTHORIZED REPRESENTATIVE

VENTURA IMPLANT AND ATTACHMENT SYSTEMS  
69 The Avenue, Ealing, London, W13 8JR, England  
LOCATOR U.S. Patent No. 6,030,219 and 6,299,447.  
LOCATOR is a registered trademark of Zest Anchors, Inc.

Illustrations by Ted Suggs  
L8002-TM REV. D



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## ATTACHMENT SYSTEM FOR IMPLANT LOCATOR® by TBR®

**IMPORTANT :** This document contains the most current instructions for using LOCATOR® by TBR® attachment system.

### CLASSIFICATION

Universal hinge, resilient attachment for endosseous implants.

### INDICATIONS

The Locator Implant Attachment System is designed for use with overdentures or partial dentures retained in whole or in part by endosseous implants in the mandible or maxilla.

### CONTRAINDICATIONS

Not appropriate where a totally rigid connection is required. Use on a single implant with divergence of greater than 20 degrees is not recommended.

### CAUTION

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

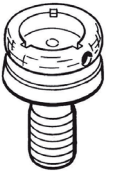
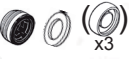








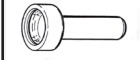



### STERILIZATION

All components and instruments are supplied NON-STERILE. Implant abutments and metal instruments may be sterilized following standard clinical procedures, prior to use.

### FEATURES

- 1. LOWEST VERTICAL HEIGHT :** The total height of the Locator Attachment (abutment plus male) is only 2.5mm on a non-hexed implant.
- 2. LOCATING DESIGN :** Self-locating design allows a patient to easily seat their overdenture without the need for accurate alignment of the attachment components.
- 3. RETENTION INSIDE AND OUT :** The patented Dual Retention innovation provides the Locator Attachment with greater retention surface area than ever before available with other attachments. A combination of inside and outside retention ensures the longest lasting performance.
- 4. ROTATIONAL PIVOTING ACTION :** The design of the pivoting Locator Male allows a resilient connection for the prosthesis without any resulting loss of retention. The retentive nylon male remains completely in contact with the abutment socket while its titanium denture cap has a full range of rotational movement over the male.
- 5. USE WITH NON-PARALLEL IMPLANTS :** The Locator Replacement Males can be used to restore an implant with up to 10 degrees of divergence (20 degrees between implants). The Locator Extended Range Replacement Males can accommodate a divergent implant between 10 and 20 degrees (40 degrees between implants).

## PARTS IDENTIFICATION

ATTACHMENTS LOCATOR by TBR		
REFERENCES	DESCRIPTION	
	<b>O-LOC320</b>	Locator implant abutment 3,5 mm x 2,0 mm
	<b>O-LOC340</b>	Locator implant abutment 3,5 mm x 4,0 mm
	<b>O-LOC360</b>	Locator implant abutment 3,5 mm x 6,0 mm
	<b>O-LOC420</b>	Locator implant abutment 4,0 mm x 2,0 mm
	<b>O-LOC440</b>	Locator implant abutment 4,0 mm x 4,0 mm
	<b>O-LOC460</b>	Locator implant abutment 4,0 mm x 6,0 mm
	<b>O-LOC520</b>	Locator implant abutment 5,0 mm x 2,0 mm
	<b>O-LOC540</b>	Locator implant abutment 5,0 mm x 4,0 mm
	<b>O-LOC560</b>	Locator implant abutment 5,0 mm x 6,0 mm
 x3	<b>ASCLOC100</b>	Locator Pack : Titanium cap + black low density male + Retentions (1 blue + 1 pink + 1 clear + 1 block out spacer)
	<b>ASJLOC200</b>	LIGHT retention (x5) - RED Angulation maxi : 40° - 0,45 kg
	<b>ASJLOC300</b>	STANDRAD retention (x5) - GREEN Angulation maxi : 40° - 1,81 kg
	<b>ASJLOC400</b>	EXTRA LIGHT retention (x5) - BLUE Divergence maxi : 20° - 0,68 kg
	<b>ASJLOC500</b>	LIGHT retention (x5) - PINK Angulation maxi : 20° - 1,36 kg
	<b>ASJLOC600</b>	STANDARD retention (x5) - CLEAR Anuglation maxi : 20° - 2,27 kg
INSTRUMENTATION LOCATOR by TBR		
REFERENCES	DESCRIPTION	
	<b>A-CLOC100</b>	Locator core tool
	<b>A-ECDL100</b>	Square drive torque wrench driver
	<b>A-GALOC100</b>	Angle measurement guide
	<b>A-PALOC100</b>	Parallel post
IMPRESSION LOCATOR by TBR		
REFERENCES	DESCRIPTION	
	<b>TDLOC100</b>	Impression copping
	<b>HLOC400</b>	Female analog dia. 3,5 / 4mm
	<b>HLOC500</b>	Female analog dia. 5mm

NOTE: The Replacement Male will not stay on the tool when it is turned upside down due to the varying sizes of males available. It is best to hold the denture with the base side down and snap the male into the metal denture cap.

## F. RELINE AND REBASE

1. Remove each existing nylon male from its metal denture cap following the steps in HOW TO CHANGE THE LOCATOR MALE (Section E). Replace them with Black Processing Replacement Males. The built-in spacer of the Black Processing Male will maintain the overdenture in its upper level of vertical resiliency during the reline process.

2. Take a reline impression using the existing overdenture as a tray. The Black Processing Males will engage the Locator Implant Abutments and hold the prosthesis in place while the impression material sets.

3. When the impression is withdrawn, the Black Processing Replacement Males will remain in the metal denture caps.

4. Snap a Locator Female Analog onto each Black Processing Cap Male and pour a master model.

5. After processing the reline and polishing the denture base, replace the Black Processing Males with the final Locator Replacement Males.

## G. PATIENT CARE

Good oral hygiene is vital to implant success. The Locator Implant Abutments must be thoroughly cleaned daily. The use of a soft nylon bristle or end-tufted toothbrush, and superfloss to polish the abutments should be taught. A non-abrasive gel toothpaste, and an irrigation system is recommended to keep the socket of the Locator Abutment clean.

Patients should maintain a three to four month recall for cleaning and implant evaluation. The sulcus area around the implant abutment is the primary area of concern. Use plastic instruments for scaling the abutments. Do not use metal instruments which may create scratches on the abutment surface. Examine patients for signs of inflammation around the implant abutments, and for implant mobility. Use the gold plated Abutment Driver (contained in the Locator Core Tool) to make sure the Locator Implant Abutment is tight before dismissal.

9. Re-insert the Locator Black Processing Cap Male into each Female Analog, leaving the White Block-Out Spacer beneath it. The Black Processing Male will maintain the overdenture in the upper limit of its vertical resiliency during the processing procedure.

10. Complete the processing and discard the white spacer. Avoid damage to the final male by polishing the denture base before changing to the final male.

11. Use the Locator Male Removal Tool attached to the Locator Core Tool to remove the Black Processing Male from the metal denture cap. The sharp circular edge on the end of the removal tool should be wedged tightly down into the very bottom of the plastic insert so that it will catch the inside of the black plastic insert and pull it at an angle out of the metal housing.

12. The Locator Male Seating Tool is used to firmly push a Locator Replacement Male into the empty metal denture cap. The replacement male must seat securely into place, level with the rim of the cap.

NOTE : The Replacement Male will not stay on the tool when it is turned upside down due to the varying sizes of males available. It is best to hold the denture with the base side down and snap the male into the metal denture cap.

## E. HOW TO CHANGE THE LOCATOR MALE

1. The Locator Core Tool, which contains a Locator Male Removal Tool and Locator Male Seating Tool, is used to remove the nylon male from the metal denture cap and replace it with another Locator Replacement Male.

2. Use the Male Removal Tool attached to the Locator Core Tool to remove the nylon male from the metal denture cap. The sharp circular edge on the end of the removal tool should be wedged tightly down into the very bottom of the plastic male so that it will catch the inside of the plastic insert and pull it at an angle out of the metal housing.

3. The Male Seating Tool is used to firmly push a Locator Replacement Male into the empty metal denture cap. The replacement male must seat securely into place, level with the rim of the cap. Use of multiple Locator attachments (3 or more) in the same dental arch may require use of the 3.0 lbs. (light retention) pink colored Replacement Male No. 8527 or 1.5 lbs. (extra light retention) blue colored Replacement Male No. 8529, for easier removal of the prosthesis by the patient.

## A. PLACEMENT OF THE LOCATOR IMPLANT ABUTMENT

1. To select the proper Locator Implant Abutment, determine the type of implant and the diameter being used. Then measure the tissue thickness from the apical rim of the implant body to the crest of the gingiva at the highest side of the implant site. Choose the corresponding abutment tissue cuff height that exactly equals the tissue measurement, or is the next closest higher size available. The exact tissue cuff height of Locator abutment will position the proper 1.5mm of working attachment above the surrounding gingival level (which should not be submerged below the tissue).

2. After the secondary gingival healing period is complete, remove the healing cuff according to instructions provided by the manufacturer of the implant system being used.

3. It is imperative that all bone and soft tissue be removed from the superior aspect of the implant body to guarantee complete seating of the Locator Implant Abutment.

4. A special gold plated Abutment Driver (contained in Locator Core Tool, Zest order is designed to engage the inside diameter of the Locator Abutment and thread it into the implant.

5. Final torque tightening of the Locator Abutment to prevent screw loosening is achieved using the 30N-cm TBR Torque Wrench.

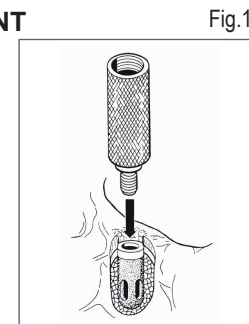


Fig.1

## B. ANGLE MEASUREMENT OF A DIVERGENT IMPLANT

1. Place the Locator abutment into the implant,

2. Then snap a Locator Parallel Post onto it.

3. Use the Angle Measurement Guide behind the Parallel Post to determine the angle of the implant.

4. Choose the final Locator nylon male retention liner based upon the determined angle measurement of each implant. If the divergence of an implant is less than 10 degrees, use one of the Locator Replacement Males (clear = 5 lbs., pink = 3 lbs., and blue = 1.5 lbs.). If the divergence of any implant is between 10 degrees and 20 degrees, then use one of the Extended Range Replacement Males (green = 4 lbs., orange = 2 lbs. and red = 1 lbs.) which can accommodate a divergent implant up to 20 degrees (40 degrees between implants).

5. Follow the steps in Section C, LOCATOR MALE PLACEMENT BY THE DENTIST for chairside placement of the Locator Male, or the steps in Section D, LOCATOR MALE PLACEMENT BY THE LABORATORY for indirect placement of the Locator Male.

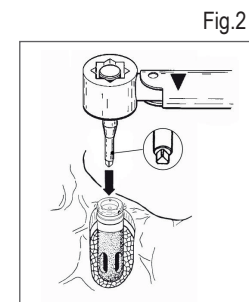


Fig.2

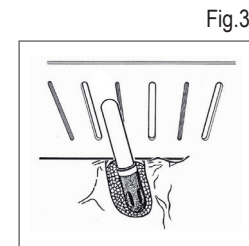
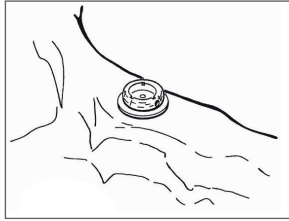


Fig.3

### C. LOCATOR MALE PLACEMENT BY THE DENTIST

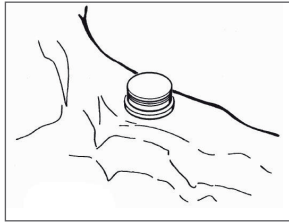
Fig.4



1. Insertion of the proper Locator Implant Abutment at tissue level must be completed (see Section A-1) before beginning the procedure for placement of the Locator Male.

2. Place a White Block-Out Spacer over the head of each Locator Abutment. The spacer is used to block out the area immediately surrounding the abutment. The space created will allow the full resilient function of the pivoting metal denture cap over the Locator Male.

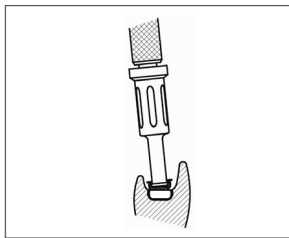
Fig.5



NOTE : If the White Block-Out Spacer does not completely fill the space between the tissue and the metal denture cap, it is necessary to block out any remaining undercuts to prevent the added acrylic resin from locking the denture onto the abutment. This can be accomplished by stacking more Block-Out Spacers.

3. Insert a Locator Cap with Black Processing Male into each Locator Implant Abutment, leaving the White Block-Out spacer beneath it. The Black Processing Male will maintain the overdenture in the upper limit of its vertical resiliency during the processing procedure.

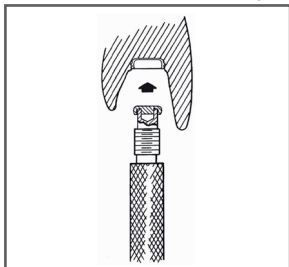
Fig.6



4. Prepare a recess in the denture to accommodate the protruding Locator Male. There must be no contact between the denture and the titanium cap. If the denture rests on the metal cap, excess pressure on the implant will result.

5. Mix a permanent self-curing acrylic and place a small amount in the recess of the denture and around the metal cap of the Processing Cap Male.

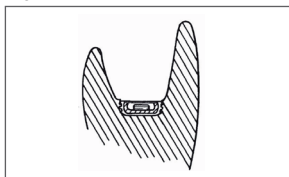
Fig.7



6. Insert the denture into position in the oral cavity. Guide the patient into occlusion, maintaining a proper relationship with the opposing arch. Maintain the denture in a passive condition, without compression of the soft tissue, while the acrylic sets. Excessive occlusal pressure during the setting time may cause tissue recoil against the denture base and could contribute to dislodging and wear of the nylon males.

7. After the acrylic resin has cured, remove the denture and discard the white spacer. Use a bur to remove excess acrylic, and polish the denture base before changing to the final male.

Fig.8



8. Use the Locator Male Removal Tool (attached to the Locator Core Tool) to remove the Black Processing Male from the metal denture cap. The sharp circular edge on the end of the removal tool should be wedged tightly down into the very bottom of the plastic male so that it will catch the inside of the black plastic insert and pull it at an angle out of the metal housing. To discard the nylon male from

the new tip on the Core Tool, point the tool down and away from you and tighten the new Male Removal Tool clockwise back onto the Core Tool. This will activate the removal pin and dislodge the nylon male from the tip end of the Male Removal Tool.

9. The Locator Male Seating Tool (contained in Locator Core Tool) is used to firmly push a Locator Replacement Male into the metal Denture Cap. The replacement male must seat securely into place, level with the rim of the cap.

NOTE : The Replacement Male will not stay on the tool when it is turned upside down due to the varying sizes of males available. It is best to hold the denture with the base side down and snap the male into the metal denture cap.

10. Instruct the patient in the path of insertion. Have the patient insert and remove the appliance several times.

### D. LOCATOR MALE PLACEMENT BY THE LABORATORY

1. Insertion of the proper Locator Implant Abutment at tissue level must be completed (see Section A-1) before beginning the following impression procedure.

2. Place a Locator Impression Coping with Black Processing Male

3. Take an impression using a firm body impression material, exercising caution not to compress the soft tissue. The Locator Impression Coping is designed with minimum retention to be picked up with the impression material.

4. Snap a Locator Female Analog onto each Impression Coping in the impression. The analog female must not fall off when turned upside-down with vibration.

5. Pour the master cast. Upon separation, the Locator Female Analog is a part of the master cast replicating the position of the Locator Implant Abutment in the oral cavity.

6. Before waxing and processing the appliance, place a Locator Cap with Black Processing Male into each Female Analog in the master cast. Make sure the male is fully seated.

7. Set the teeth and wax the appliance. Proceed with the processing technique of your choice through the boil-out step.

8. After the boil-out, remove the Processing Cap Male. Place a White Block-Out Spacer over the head of each Female Analog. The spacer is used to block out the immediate area surrounding the Locator Implant Abutment. The space created will allow the full resilient function of the pivoting metal denture cap over the Locator Male.

Fig.9

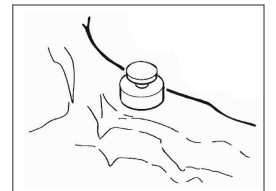


Fig.10

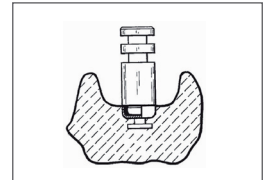


Fig.11

