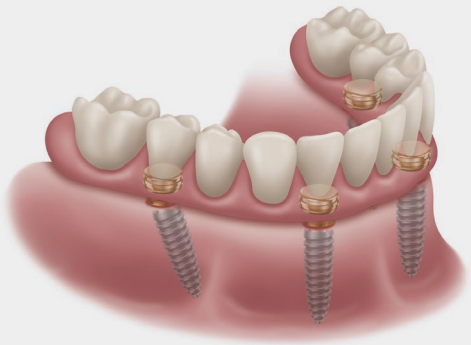
# LOCATOR® Denture
Workflow Guide

SprintRay | ZEST DENTAL SOLUTIONS

LOCATOR FIXED®



## Clinical Record Capture for LOCATOR Fixed and LOCATOR Removable Overdentures Prosthetics

This step-by-step guide outlines the clinical scan acquisition protocol for designing LOCATOR-supported prostheses. It applies to:

- Fixed provisionals using OnX Tough 2 resin
- Removable overdentures using Apex Denture resin

This guide focuses on the clinical record capture and file upload process. For printing, post-processing, and delivery, refer to the SprintRay Complete 3D Printing Workflow Guide.

## Step 1: Prepare for Scanning

Confirm the patient has a reference denture and existing LOCATOR abutments in place.

**Prepare:**
- Zest LOCATOR scan bodies
- PVS impression material
- Intraoral scanner

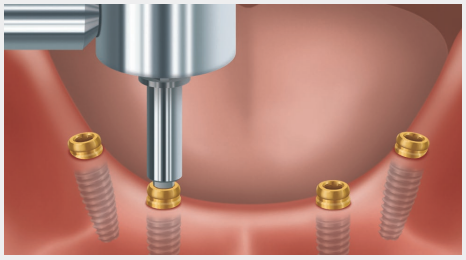
## Step 2: Capture Required Scan Sets

**Goal: Generate scan sets for design input.**

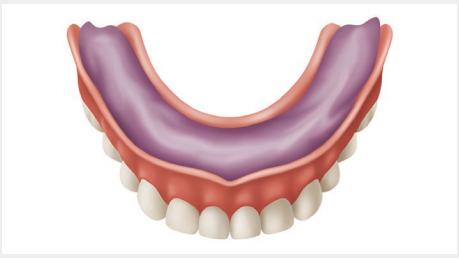
**Scan File Set 1 –** Reference Denture Workflow
Captures occlusion and tissue relationships using a relined denture without LOCATOR Housings inside denture.

**Required Scans**:
- Scan 1: 360° scan of relined denture (extraorally)
- Scan 2: Opposing Arch Scan (intraorally)
- Scan 3 & 4: Bite Scans – right and left with patient in occlusion

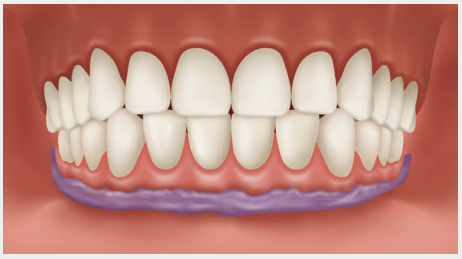
## Clinical Technique Overview



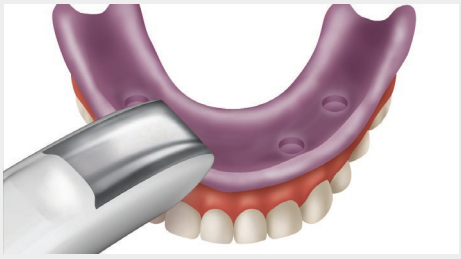
Torque LOCATOR Abutments to 30Ncm or tighten to the recommended torque from the implant manufacturer.



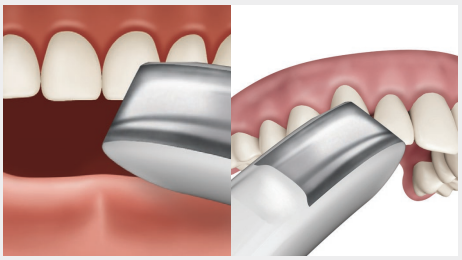
If present, remove existing LOCATOR Housings with a Trephine Bur. Inject PVS wash material into the intaglio of the denture. (Adhesive is not required.)



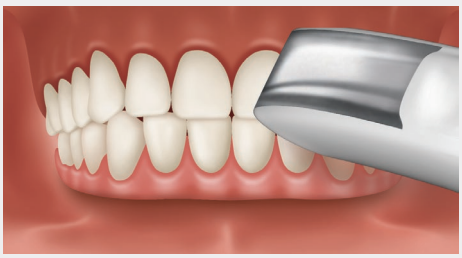
Seat the denture intraorally and have the patient bite into light occlusion. Conduct border molding procedure and allow the material to polymerize completely.



After the material sets, remove the denture and perform a 360° scan of the relined denture outside the mouth (Scan 1).



Capture an intraoral scan (or extraorally when applicable) of the opposing arch (Scan 2).

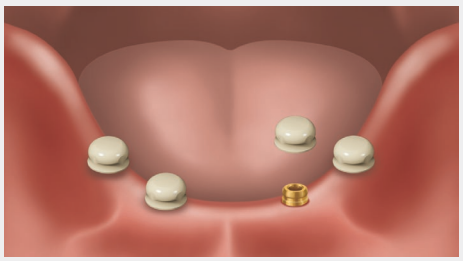


Reseat the denture and take bite scans on both sides (Scans 3 and 4).

**Scan File Set 2 – LOCATOR Scan Bodies**
Captures the precise location and angulation of the abutments.

**Required Scan:**
Intraoral scan of the edentulous arch with Zest LOCATOR scan bodies seated on each abutment

## Clinical Technique Overview



Seat LOCATOR scan bodies on each LOCATOR abutment.

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Perform a full intraoral arch scan with scan bodies in place. In addition to capturing the scan bodies, central ridge, and palatal surfaces, be sure to capture as much of the prosthetic border as possible.

Scanning Tips: On the mandible, scan the lingual side of the ridge, starting from the retromolar pad and continuing to the midline, and then move back towards the retromolar pad on the buccal surface. Repeat on the patient's other side.

On the maxilla, begin the scan in the patient's posterior region of either side. Scan along the central ridge to the opposing side and then scan the entire palate region. Complete the capture by scanning the buccal surface of the central ridge.

## Step 3: Upload to SprintRay Cloud Design Services

Visit SprintRay Cloud Design and upload the following files:

- 360° scan of relined denture (Scan 1)
- Opposing arch scan (Scan 2)
- Bite scans (Scans 3 and 4)
- Intraoral scan of LOCATOR scan bodies

SprintRay AI-powered design will merge the scan body file with the relined denture to align tooth and tissue relationships. The LOCATOR geometry is matched using a proprietary Zest file to create retentive recesses.

## Step 4: Design Output Options

SprintRay Cloud Design generates a ready-to-print STL for:

| Application | Material | Design Style |
|---|---|---|
| LOCATOR Fixed | OnX Tough 2 | Monolithic Full-Arch Prosthesis |
| LOCATOR Removable | Apex Denture Resin | Removable Overdenture |

## Step 5: Printing, Finishing & Delivery

For printing and post-processing:

- Visit SprintRay Dashboard.
- Follow steps for print setup.
- Print, wash, and cure according to resin and hardware guidelines
- Characterize tissue with modifiers or esthetic composites (optional)
- Doctor tries in the prosthesis, picks up housings intraorally, and delivers the case

**Refer to the SprintRay Final Workflow Guide for detailed steps on 3D printing, post-processing, and polishing.**
support.sprintray.com/s/materials