



# UNIVERSAL CHAIRSIDE SPACE MAINTAINER Instructions for Use

This guide is intended to provide the technical information needed to successfully use NuSmile Universal Chairside Space Maintainers. Your success is important to us, questions and comments are always welcome.

**INTENDED USE and INDICATIONS:** NuSmile Universal Chairside Space Maintainers are used to maintain space after premature loss of primary posterior teeth.

## TRIAL FITTING

Select the appropriate size band. Bands are universal in their shape, and can easily be adapted to fit upper and lower molars. Any incorrect band sizes that were tried on must be sterilized. The right band size should fit snugly on the tooth and be resistant to dislodgement. A band pusher and/or a band seater can be used to fit and adapt the band to the tooth. Covering the height of contour (buccal bulge) ensures resistance to dislodgement. Crown crimpers may be utilized to increase retention and prevent cement washout. No pressure should be placed on the tubes or weld during the band fitting process.

## MEASURE SPACE, SELECT AND CUT WIRE LOOP COMPONENT

Measure extracted tooth or mesial-distal dimension of extraction space and select one of the wire loop options below.

- **PLAIN LOOP:** The plain loop is a versatile option that can be used in most cases, however, this loop should be reserved for cases when space loss does not permit use of the curved loop without trimming the tubes. Plain loops have a greater incidence of slipped contact and gingival impingement (resulting in possible space loss) if a child bites on hard foods or objects.
- **CURVED LOOP:** The curved loop is the loop of choice for most cases. It's design prevents the loop from slipping below the contact and impinging on the gingival tissue. The curved loop will better engage the surface of the adjacent tooth, particularly if the tooth it is contacting is only partially erupted.
- **DISTAL SHOE:** In the case where the first permanent molar has not erupted yet, and a second primary molar is removed, a distal shoe can be placed subgingivally to guide the eruption of the permanent molar. Radiographic imaging is required to confirm proper placement of the blade of the spacer adjacent to the mesial surface of the unerupted permanent molar. Ideally, the blade should contour and make contact with the mesial surface of the permanent molar. It is acceptable to place the blade in the most distal aspect of the distal root socket of the extracted tooth, if necessary. Using wire cutters, or a bur in a high-speed handpiece, cut the length of wire loop component so that it fits the mesio-distal width of the extraction space. Cut one wire end slightly shorter than the other for easier insertion into the tubes. The wire should insert 2.5-3mm (inserting longer wire end first) completely into the tubes.

## ASSEMBLE, ADJUST AND CRIMP THE TUBES

Place the assembled space maintainer back onto the tooth and slide the wire component with a plastic instrument until it contacts the abutment tooth. The loop should contact the tooth just below the





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proximal contact point, but not impinge on the gingival tissue. Additionally, be sure that the wire loop portion of the space maintainer does not come in contact with an opposing tooth when in occlusion. Once you have a proper fit, using a crimper of your choice, crimp the tubes of the space maintainer 1.5mm from the open end of the tube before removing from the mouth to ensure the wire is locked into place. After removing from the mouth, make additional circumferential crimps near the open end on both tubes to ensure the wire is well secured and no sharp edges exist.

## CEMENTATION

Clean any blood or saliva from the tooth and the inside of the band, and dry. Apply luting cement to the inner surface of the band loading from the gingival aspect. Seat the band on the tooth using a band pusher and/or band seater (Do not engage the tubes/wire component to position, only the band). Make sure the wire loop engages the tooth below the proximal contact point. Allow the cement to set and then remove excess.

## CLEANING AND STERILIZATION

Bands are provided in non-sterile packaging. Clinician may choose to sterilize before use. Cold sterilization, autoclave or steam sterilization may be used according to the standard instructions of the manufacturer of the sterilant or sterilizer.

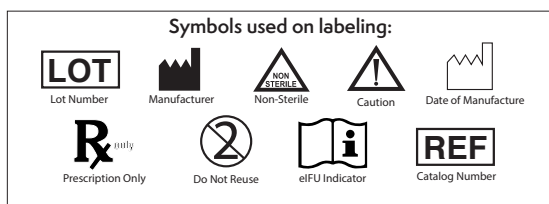
**CAUTION:**  **BANDS CEMENTED FOR INTRAORAL SERVICE should NOT be cleaned and sterilized to use for another patient.**

## PRECAUTION:

- The stainless steel substructure of this product has an approximate 8-14% nickel content. Allergic reaction may occur in individuals highly sensitive to nickel.
- Bands that are reprocessed after cementation in another patient may cause infection resulting in possible long term health effects.
- Dental bands may cause artifacts in MRIs, MRI technician should be notified of any dental bands.

## STORAGE:

Bands should be stored in a clean storage container.



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