mouth for intra-oral recording of the Gothic Arch tracing. A clear Gothic Arch tracing with a sharp apex should be recorded, and the assembly removed from the mouth and thoroughly dried.

Note that the discs of cellophane supplied with the tracer are adhesive on both sides. Remove the individual disc from its tape covering, and place it over the Gothic Arch tracing, centering it approximately relative to the apex of the tracing. Turn up the center of the tracing, centering it covering, and place it over the Gothic Arch tracing. Form a wax rim around the buccal and lingual surfaces of the upper base plate. While the wax is still warm and uniformly soft, place the stylus in the desired position. A portion of the hole upward. Drop the disc down and press it firmly onto the adhesive cellophane. If cellophane discs are not used, lute the centric lock disc in position with sticky wax. The complete upper and lower assembly with the centric lock disc in position on the tracing plate is now removed into the mouth. The patient should be instructed to move the jaw until the stylus drops into the hole in the centric lock disc. This position should be held with just sufficient pressure to maintain contact between the stylus and the tracing plate. Excessive pressure should be avoided. Fast setting plaster should be placed on the buccal sides of the upper and lower assembly, engaging the notches on the upper and lower wax rims. When the plaster forming the centric locks has set, the locks may be removed and the tracing assembly removed from the mouth one unit at a time. If preferred, the entire assembly of both the upper and lower bite blocks may be removed from the mouth as one unit.

Complete, illustrated instructions for use of the Simplex® Articulator, the Simplex Intra-Oral Gothic Arch Tracer and the Kinematic Relator may be obtained by writing to:

DENTSPLY International
5/70 West College Ave.
York, PA 17401
1-800-243-5963
prosthetics.dentsply.com

Step by Step Instructions:

Preparation of the Simplex Intra-Oral Gothic Arch Tracer

With a mushbite or bite blocks, mount the articulator in a tentative centric relation and vertical dimension. Position and relieve

the casts according to the requirements of the case and prepare stabilized base plates. Determine the posterior height of the tracing table by extending a line on both borders of the cast from the middle of the retromolar pads. Place the lower stabilized baseplate on the cast and build up a wax rim level with the posterior height lines on the borders of the cast. In the anterior region the height of the tracing table should be 76 mm, from the mucosal fold (peripheral border), measured adjacent to the labial frenum. The occlusal plane or plane of orientation thus established helps in consideration of the curve to which the teeth will be set. Place the tracing table on the wax rim and brush it lightly, sufficiently to soften, but not melt the wax. Press the tracing table to the desired position. After the wax and plate are properly cooled, contour the labial, buccal and lingual surfaces with additional wax. Trim the wax to the outer edges of the tracing plate, beveling it toward the periphery, making a notch on either side for the plaster centric locks. Flame the wax with a small torch and smooth it thoroughly.

Adjust the articulator to the desired vertical dimension (38 mm) between the maxillo-labial folds (peripheral border) in the average case. The vertical dimensions must not be changed in the articulator after the Gothic Arch tracing has been made. Mark the center of the upper cast with a pencil by tracing over the median suture anterosuperiorly. Extend this line onto the anterior and posterior base of the cast. Place a pencil mark across the mesiodistal line halfway between the labial edges of the ridge and the posterior edge of the pontum, and project it onto the buccal side of the cast. These marks facilitate the mounting and centering of the stylus assembly. Place the colored plastic stylus positioning disc on the tracing table and place the stylus in the hole. Close the articulator and check for any interference from the upper baseplate when the stylus is centered. Adjust the stylus screw if necessary. Open the articulator and place a cone of softened wax or modeling compound on top of the stylus assembly. This serves as a means of attachment of the stylus to the upper baseplate. While the wax is still warm and uniformly soft, close the articulator, aligning the stylus with the median line and transverse line to properly center it. After the wax has sufficiently hardened, open the articulator and lute the wax to the stylus assembly and to the upper baseplate.

Form a wax rim around the buccal and labial surfaces of the upper baseplate, and contour the wax around the stylus assembly for easy release of the plaster centric locks. Cut notches with a warm knife blade in the upper wax rim in the buccal area. These will be used to engage the plaster centric locks. Flame the wax and smooth it thoroughly over all. Close the tracing plate with alcohol or carbon tetrachloride and pumice on the laptop fluid according to the manufacturer’s directions. The complete upper and lower stabilized baseplate assembly is now ready for insertion in the

case in the articulator. It may also be used without the Kinematic Relator solely as a means of determining centric relation. It is a precise instrument made of stainless steel and brass, and will not rust. It can be cold sterilized or boiled.

Contraindications: None Known

Indications for Use:
The Simplex® Intra-Oral Gothic Arch Tracer is designed specially for use with the Kinematic Relator and the Simplex® Articulator. It may be used with the Kinematic Relator as an aid to determining the antero-posterior position of the

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