



Radiation Products Design, Inc.

Item 260-000 Operating Instructions for Bite Block System

Bite Tray Dental Impression:

If applicable, remove dentures from patient. Patient may sit in chair for dental impression.

Caulk Reprosil Heavy Body Mixing Instructions (See Note D)

1. Place 2 1/2" strips from each tube on mixing paper.
2. Mix together for 30 seconds using wooden stick.
3. Place on tray and build up both sides where teeth will bite for one minute.
4. Wait 30 seconds for dental material (Reposil) to set.
5. Have patient open mouth, place bite tray in mouth so that front teeth are 1/4" over edge of bite tray. Make sure bite tray is perpendicular to face. Have patient close mouth and press Reprosil with tongue in back of front teeth. Leave bite tray in mouth for two minutes, then remove tray from mouth.

Initial Set-Up Using Bite Tray:

The bite tray is now ready for attaching to the head immobilization unit. Position the patient's head in one of the six head-neck supports. When the patient's head is tilted back so that the chin to sternal notch distance is as needed, such as 15cm, place the most suitable head-neck support under the patient's neck.

Mount the bite tray in the head immobilizer. Leave the tray angle knob loose. Adjust the vertical and horizontal travel to obtain the proper tray angle in the mouth. Always support the vertical travel with your hand and adjust slowly. The bite tray must be adjusted slowly in millimeters, otherwise it can cause pulling or pushing pressure on the jaw. Discuss with the patient if there is pulling or pushing pressure on their jaw.

Record the following:

1. Head-Neck Support Letter
2. Vertical Height
3. Horizontal Distance
4. Tray Angle
5. Chin to sternal notch distance

Subsequent Set-ups:

1. Mount bite tray in head immobilizers
2. Lock Horizontal Distance as recorded.
3. Install recorded head-neck support.
4. Place patient's head in head-neck support and adjust head for recorded chin to sternal notch distance.
5. Lower bite tray into mouth and lock vertical height and tray angle as recorded.

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Bridge Tray or Nasal Tray:

A fast set-up can be accomplished by using these trays. Rest the patient's head in the correct head-neck support, adjust the head for the desired chin to sternal notch distance, lower the tray and lock. Ask the patient if there is excessive pressure.

Tongue Tray:

Used to press the tongue down.

Chin Tray:

This tray is placed so that the 3/8" round bump is at the bottom edge of chin. This tray will allow patient to know when their mouth is opening or when their head is sagging.

Cork Screw Tray:

Used to spread jaw apart. Different size corks (Item 274-812, 813, 816, 818) can be screwed onto the tray. Sides of the cork can be notched for the teeth.

Adjustable Base Plate:

In some treatment set-ups it may be necessary to angle the head to the right or left. For these treatments, place the adjustable plate on the base plate and lock in position with two thumb screws. The head-neck supports also fit onto pins located on the adjustable base plate.

Pediatric Base Plate:

This Base Plate will move the head/neck support toward the post allowing the Horizontal bar scale to be in readable range.

Sterilization:

Sterilization of the trays can be by a gas sterilizer. Warm-up phase in one hour at 130°F. Conditioning phase at 130°F for 30 minutes. Inject gas, type 12% Ethylene Oxide and 88% Freon, and hold for two hours or type 100% Ethylene Oxide and hold for 225 minutes at 85°F or 62 minutes at 130°F. Mechanically aerate for forty hours at 120°F or twenty hours at 130°F or ten hours at 140°F or room shelf aerate for 7 days.

Cidex may also be used for sterilization. Washing can be done with soap and water at temperatures not exceeding 130°F. DO NOT clean acrylic with alcohol, as this may cause fracturing.

Notes:

- A. It is highly recommended that each technician practice with this bite block system before using it on patients.
- B. Every set-up should be checked for the proper chin to sternal notch distance.
- C. Make sure that radiation treatments are not given in such a manner that the beam passes through the head-neck support or tray before reaching the skin.
- D. The impression material can be removed and the bite tray sterilized and reused for another patient. We recommend not using any type of tray adhesive on the polycarbonate bite tray, as this material can not be removed from the tray.

* Caulk Reprosil Heavy Body Vinyl Polysiloxane Impression Material, Mfg. by L. D. Caulk Company and available through Radiation Products Design, Item 266-100.

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