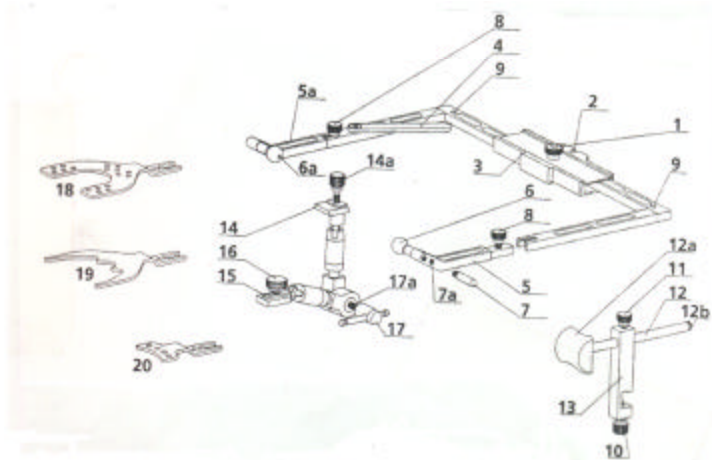


# Instructions for use of the Rotofix Facebow and Model Transfer

This guide shows the easy and reliable way to register the relationship of the cranium to the hinge-axis, using the 3-D Rotofix facebow (Artex System from Jensen), which will then be transferred to the articulator in the same relationship.

## Description of Rotofix Facebow — #48600

a) Facebow frame with	
1 set screw	48602
2 support mounting slot	
3 rest for axis plane indicator	
4 axis plane pointer	48605
5 right support of porous button	48603
5a left support of porous button	48603
6 porous button	48607
porous button long	48609
6a porous button hole	
7 removable axis pin	48608
7a axis pin thread	
8 support bracket screw	48604
9 thread for telescopic legs	
b) Placement of nose piece with	
10 fixing screw for nasion bridge	48692
11 set screw for support rod	47693
12 rod	48613
12a nose adaptor	47695
12b O-ring (5/pkg)	47614
13 nasion bridge	48695
c) Jointed arm with	
14 dove-tail adaptor to bow	48632
14a locking screw for adaptor	47696
15 fork mounting	47633
16 collar screw	47634
17 toggle nut complete	48696
17a toggle screw	48697
18 bite fork for partial prosthesis	47611
19 bite fork for total prosthesis	47661
20 handle for special tray	47928



### Note:

The supports of the porous buttons (5 + 5a) can be mounted at either side. If the axis pins are screwed in, the bow can be adapted to the main axis points, and in this assembly can be mounted directly to the axis of the articulator.

### Important:

Do not put any part of the ROTOFIX facebow into an ultrasonic bath (the eloxation layer will come off). All parts can be autoclaved, except the plastic parts, and items 1-3.

## Adapting the Facebow to a Dentulous Arch

### Preparation of the bite fork:

1. Soften a thermoplastic bite compound according to manufacturer's instructions.
2. Apply it to three points of the bitefork (Fig. 1). In case of missing teeth, add build-up in wax or bite compound for support.

- 3) Tighten set screw 1 (or two set screws in newer versions), position nose adaptor 12 at the glabella using slight pressure (Fig. 3 next page).
- 4) The nasion bridge is fixed at the facebow with screw 10. Screw 11 is loosened (not opened), the rod 12 is pulled back.

Do not take too deep of an impression of the maxillary teeth.

For facebow adaptation, the bite fork can either be removed, or held in place by the patient.

### Miscellaneous:

Generally, only loosen screws (never unscrew them completely), so they immediately grip upon tightening. Otherwise, they might get stuck on the rivet side (this includes screw 1 and screw 16).

### Arbitrary adaptation of the facebow (also see Figures next page):

1. The patient sits in upright position.
2. Loosen set screw 1 and put porous buttons 6 into the outer auditory canals (Fig. 2).

You may also use hard wax or silicone in place of bite compound, but they won't show contours as sharply, and their final hardness is lower.

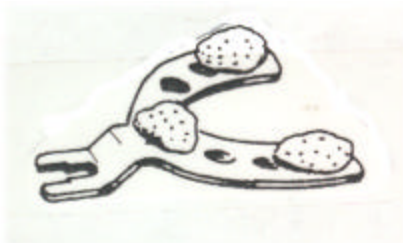


Fig. 1

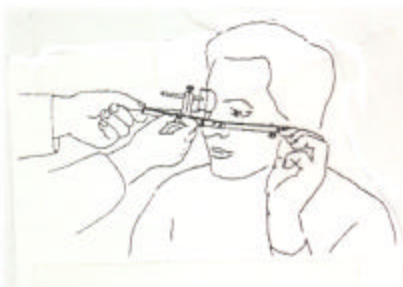


Fig. 2



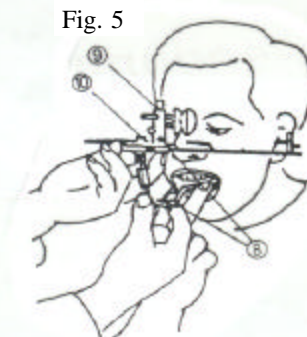
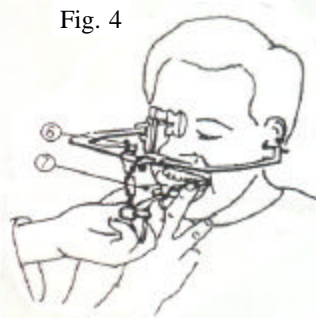
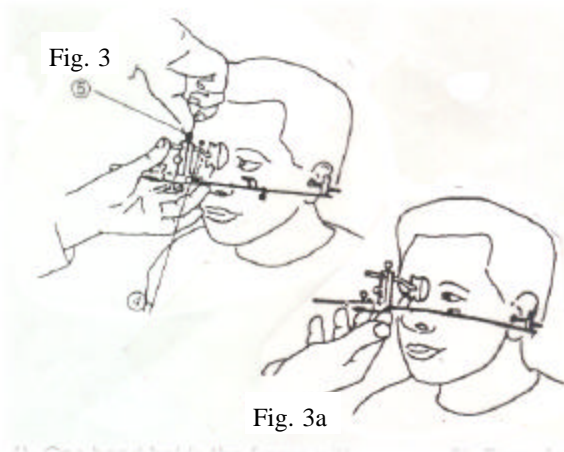


Fig. 3a

- 4) One hand holds the frame with 3 fingers while the thumb slightly presses the rod against the glabella (Fig. 3)
- 5) When it sits tightly, use the other hand to tighten the set screw 11 for the support rod. The bow is tight enough if the head inevitably follows every movement that is made with the bow. For testing purposes, hold the frame with two fingers from below and push it slightly upwards. (Fig. 3a)
- 6) From frontal direction, insert the jointed arm (toggle nut 17 and collar screw 16 must be loosened) completely into the dove-tail shaped guidance 2, and fix it with locking screw 14a. The toggle should be on the dentist's right side (i.e. the patient's left side). (Fig. 4)
- 7) Stabilize the bitefork in the retral field with some cotton rolls and let the patient close his/her mouth. Insert the bitefork mounting 15 (collar screw and nut look upwards), then firmly tighten collar screw (Fig. 4).
- 8) When tightening toggle nut 17 firmly, the toggle must be in the middle in order to apply pressure uniformly and to avoid tensions in the facebow. On fixing the toggle nut, support the frame with one hand (Fig. 5).
- 9) As soon as the situation is fixed, set-screw 11 of the rod can be loosened. While doing so, the frame must be held.
- 10) Loosen set-screw 1, open frame, have patient open mouth, and remove the registration downwards.

Fig. 6



Fig. 7

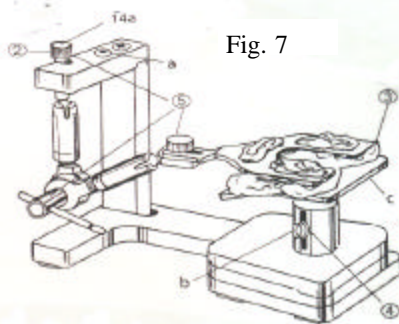
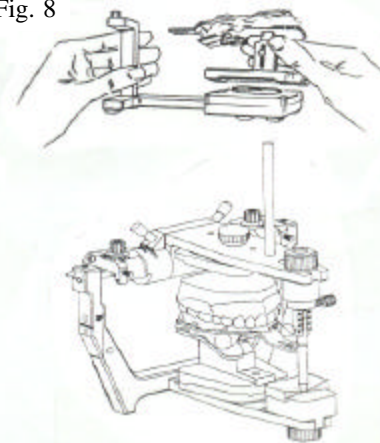


Fig. 8



### Fixing the Registration for Transport (data transfer)

- 1) Loosen adapter screw 14a and remove #d support from facebow frame (Fig. 6).
- 2) Insert the jointed arm into adapter of transfer stand. Tighten screw 14a.
- 3) Mix a small amount of fast-setting plaster and place it below the bite fork, directly onto the transfer table (Fig. 7).
- 4) Loosen screw b and raise the table c **carefully** until the bite fork rests safely in the plaster. Then screw b is tightened with an allen wrench. Put the allen wrench back into its socket-type receptacle a.
- 5) After the plaster has completely set, screw 14a, the toggle screw 17, and the collar screw 16 are loosened, and the jointed arm is removed from the bite fork.
- 6) Then the table is separated from the transfer stand (Fig. 8), and passed on to the lab for mounting the models in the articulator.