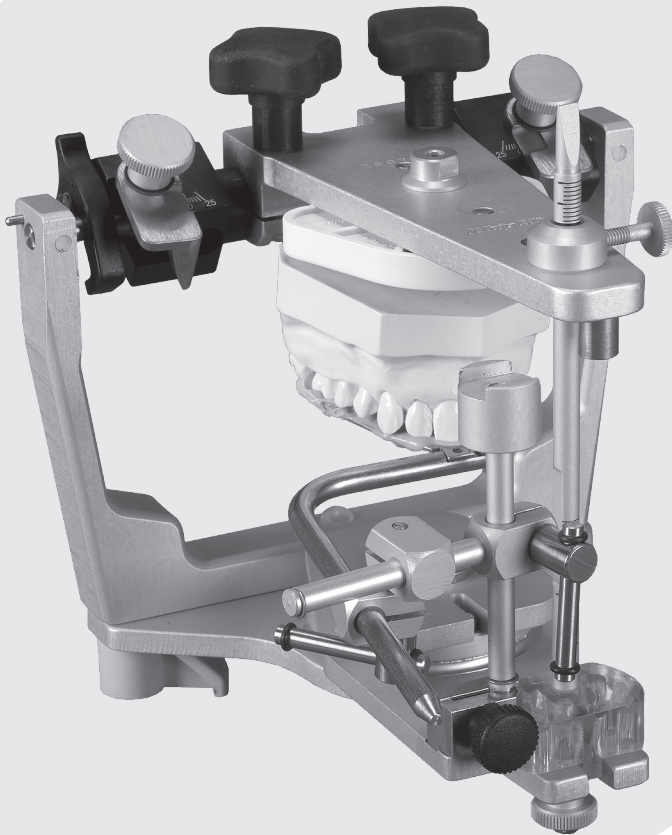




RESTORATIVE ORAL HEALTH

# Facebow Registration Instructions



## Facebow Registration

### Items needed for a facebow registration (Figure 1)

1. Facebow with nasion relator assembly, transfer jig, and bitefork
2. Wax or bite registration material
3. Rubber band (optional)

### Preparing Facebows

1. Clean and properly disinfect the plastic ear pieces before each use. If replacing them, make sure the hole on the flat side of each is above the side arm, and the plastic is seated until it touches the shoulder of the arm.
2. Attach the transfer jig to the facebow and tighten thumb screw on top. (Figure 2 and 3)
3. A rubber band may be easily positioned on the facebow to aid in its manipulation. (Figure 4)



Figure 1

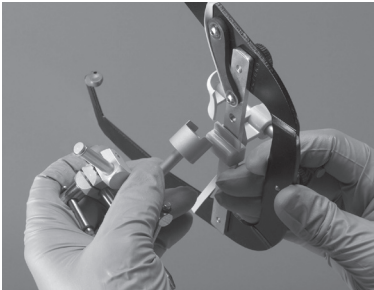


Figure 2

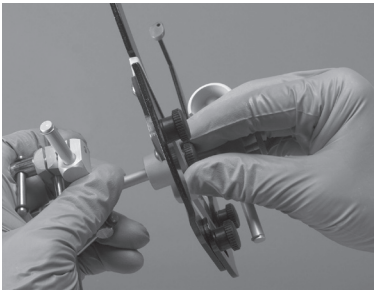


Figure 3

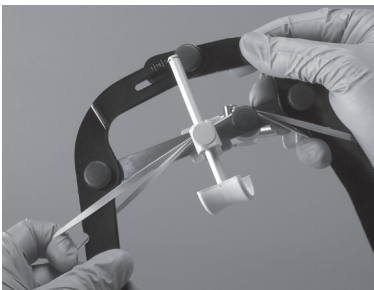
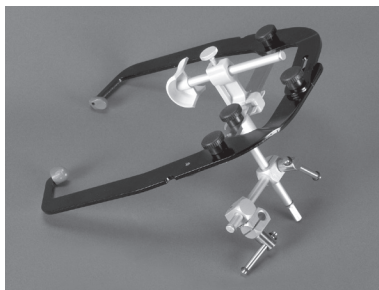


Figure 4



4. Center the nasion relator assembly on the crossbar of facebow.
5. Loosen the thumbscrew on top of the facebow that allows both arms to slide apart. If using the Whip Mix metal facebow, you will need to loosen the three thumbscrews on top of the facebow.
6. Loosen both thumbscrews on the transfer jig.

## Preparing the Facebow Bitefork

1. Make sure the bitefork has been properly sterilized.
2. Place wax or bite registration material uniformly over the top surface of the bitefork.
3. Position the bitefork so that the midline of the bitefork aligns with the facial midline and support the fork until the material is set. (Figure 5)



Figure 5

The record should make a shallow registration of the maxillary cusp tips, and not perforate through to the bitefork.

4. Inspect the registration for any soft tissue or deep occlusal registrations. It is only necessary to record the maxillary cusp tips, all else should be trimmed away using a sharp Bard-Parker blade.

## Positioning the Facebow on the Patient

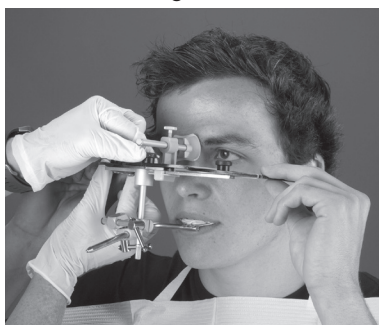
1. Before attempting to place the facebow onto the bitefork, it is suggested the operator rehearse the following procedure with the patient. Caution the patient that the plastic ear pieces in the auditory canal will greatly amplify noises during the procedure.
2. A finger cot placed over each ear piece will help facilitate proper disinfection of the facebow.
3. With the bitefork positioned in the patient's mouth, slowly slide the transfer jig on to the bitefork shaft. (Figure 6)



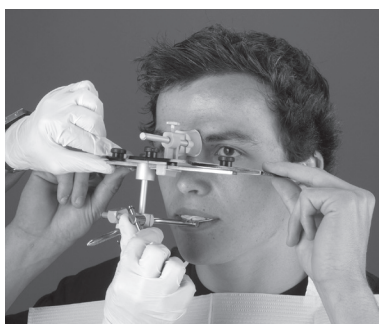
Figure 6



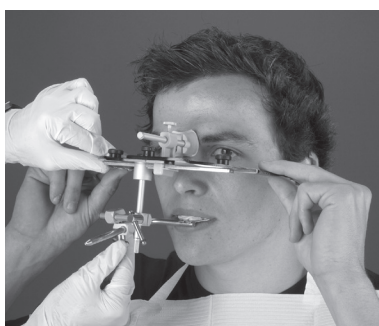
**Figure 7**



**Figure 8**



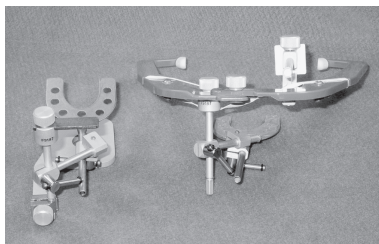
**Figure 7**



**Figure 10**

4. Have the patient grasp both arms of the facebow and bring them backwards to a position just forward of the patient's ears. Then have the patient place each earpiece in the external auditory meatus and hold in place with a firm forward pressure.
5. Center the plastic nose piece on the patient's nasion and exert firm pressure on the nose piece shaft while tightening the thumbscrew of the nasion relator assembly. This pressure will help to firmly seat the ear pieces into the external auditory meatus.(Figure 7)
6. Tighten the thumbscrew on top of the facebow.( Figure 8)
7. Support the horizontal bar with one hand and tighten the thumbscrew on the vertical rod. (Figure 9)
8. Support the horizontal bar with one hand and tighten the thumbscrew on the horizontal rod. (Figure 10)
9. Verify the facebow is level and all thumbscrews are tight.
10. Remove the facebow from the patient in a similar manner. Loosen the thumbscrew and slide the nasion relator away from the patient's nose.

11. With the patient's help, loosen the center thumbscrew and remove the facebow from the patient's ears.
12. Together, remove the facebow and bitefork from patient.



**Figure 11**



**Figure 12**

**Note:** The transfer jig and biteforks for all Whip Mix facebows (except those with quick lock toggle) have been updated as of January, 2017. If your system was purchased before that date, the bitefork will have a straight, center shaft and the transfer jig horizontal bar will extend to the right. (Figure 11)

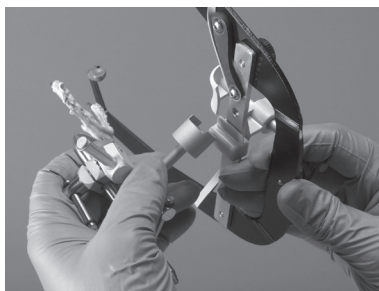
For these earlier systems, and when using indirect mounting of the maxillary model, the incisal guide pin will need to be removed and a support bar will be needed at the top of the transfer jig. (Figure 12)

## **Indirect Mounting of the Maxillary Model**

1. Separate the transfer jig from the facebow by unscrewing the thumbscrew on the crossbar. Remove thumbscrew first, then separate. (Figure 13 and 14)



**Figure 13**



**Figure 14**





Figure 15

2. Place the transfer base assembly on the lower member of the articulator and secure it. (Figure 15)

**Note:** Please refer to instructions in articulator manual for adjustment settings.



Figure 16

3. Insert the vertical rod of the transfer assembly into the transfer base. Tighten the clamp screw so that the vertical rod fits securely in the transfer base. (Figure 16)

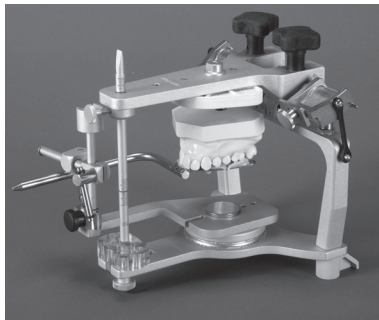


Figure 17

4. Position the upper model into the bite registration and mount the maxillary model. (Figure 17)

**Note:** Please refer to instructions in articulator manual for mounting mandibular models.

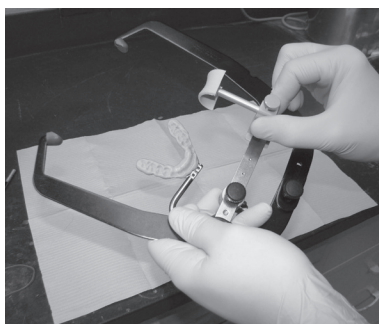


Figure 18

## Direct Mounting of the Maxillary Model

1. Slide the nasion relator assembly to the patient's left, away from the center of the horizontal crossbar. Loosen the center thumbscrew on the top of the facebow. Continue to use the rubber band on the facebow as it aids in manipulation. (Figure 18)

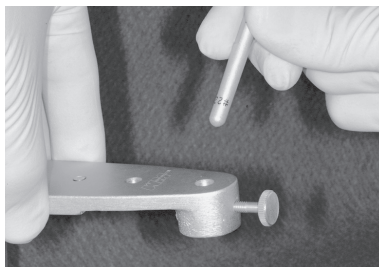


Figure 19

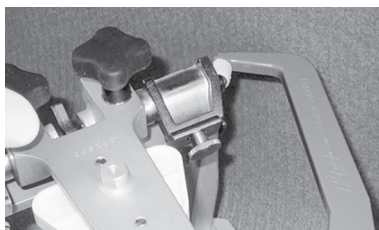


Figure 20

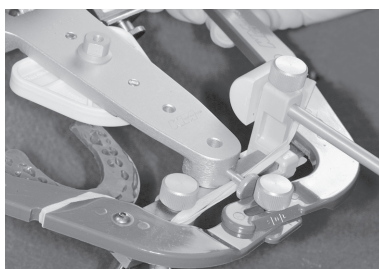


Figure 21

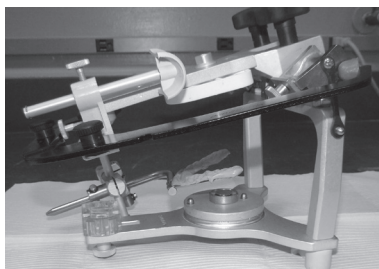


Figure 22

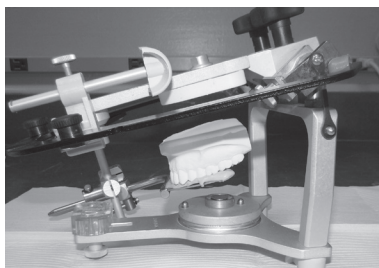


Figure 23

2. Loosen and remove the incisal guide pin. (Figure 19)

**Note:** Please refer to instructions in articulator manual for adjustment settings.

3. Guide the facebow beneath the upper frame of the articulator. The ear pieces should be even with the brass mounting pin.
4. Position the brass mounting pin located on the outer edge of the upright on the lower frame into the hole on the medial side of each earpiece of the facebow. (Figure 20)
5. Allow the anterior end of the upper frame of the articulator to rest on the horizontal crossbar of the facebow. (Figure 21)
6. Securely tighten the thumbscrew on top of the facebow.
7. Because the guidance of this instrument is part of the upper frame and the facebow is, in effect, one piece with this frame, the facebow bitefork is in fixed relation to the upper frame. (Figure 22)

8. Position the upper model into the bite registration and mount the maxillary model. (Figure 23)

**Note:** Please refer to instructions in articulator manual for mounting mandibular models.



RESTORATIVE ORAL HEALTH

Whip Mix Corporation  
361 Farmington Avenue  
Louisville, KY USA 40209  
Toll-Free: 800-626-5651  
Phone: 502-637-1451  
Fax: 502-634-4512  
[www.whipmix.com](http://www.whipmix.com)