

Whip Mix Indirect Mounting and Direct Mounting Facebow Instructions



A face-bow is a dental instrument used in the field of prosthodontics. Its purpose is to transfer functional and aesthetic components from a patient's mouth to the dental articulator.

Facebow Registration:

Items needed for a facebow registration:

- a. Indirect or Direct Facebow with nasion relator assembly
- b. Transfer jig
- c. Bitefork
- d. Bite registration material
- e. Cotton rolls



Figure 1

Indirect Mounting Facebow is shown above. (*Figure 1*)

Preparing Facebows

1. Clean and properly disinfect the plastic earpieces 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. (*Figure 2*)



Figure 2

2. Attach the Transfer Assembly to the crossbar and tighten thumb screw on top. (Figure 3)



Figure 3

Instructions for Attaching Facebow Transfer Assembly.

3. The nasion relator assembly moves left and right along the crossbar, and the facebow caliper design allows the arms to move equal distances during the opening and closing motions. Center the nasion relator assembly on the crossbar of the facebow. (Figures 4a and 4b)



Figure 4a

Figure 4b

If the upright post needs to be replaced, just clip in place. A replaceable upright post does not come with the nasion rod. (Figure 5)



Figure 5

4. Loosen the thumbscrews on top of the facebow that allows both arms to slide apart. (*Figures 6a and 6b*)



Figure 6a



Figure 6b

5. Loosen both "T" screws on the transfer jig.



Preparing the Facebow Bitefork:

1. Make sure the bitefork has been properly sterilized.
2. Place bite registration material uniformly over the top surface of the bitefork. (*Figure 7*)



Figure 7

3. Position the bitefork so that the midline of the bitefork aligns with the facial midline and supports the fork until the material is set. (*Figure 8*)



Figure 8

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. The record should make a shallow registration of the maxillary cusp tips and not perforate through to the bitefork. (*Figure 9*)



Figure 9

Instructions for Attaching Facebow Transfer Assembly.

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 earpieces in the auditory canal will greatly amplify noises during the procedure.

2. A finger cot placed over each earpiece will help facilitate proper disinfection of the facebow. (Figure 10)

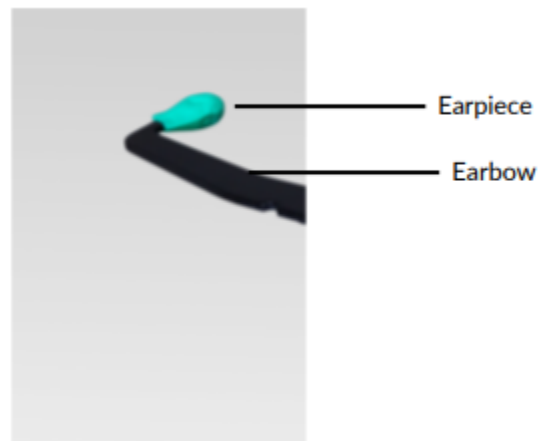


Figure 10

3. With the bitefork positioned in the patient's mouth, slowly slide the transfer jig on to the bitefork shaft. (Figures 11a and 11b)

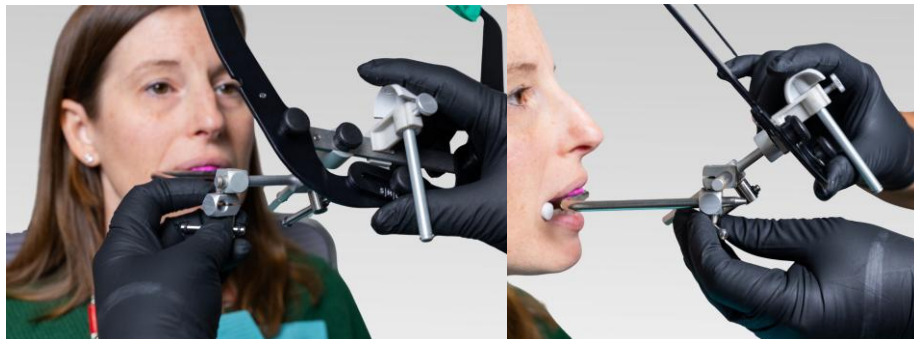


Figure 11a

Figure 11b

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 earpieces into the external auditory meatus. (*Figure 12*)



Figure 12

6. Tighten the thumbscrew on top of the facebow. (*Figure 13*)



Figure 13

7. Support the horizontal bar with one hand and tighten the thumbscrew on the vertical rod. (*Figure 14*)



Figure 14

8. Support the horizontal bar with one hand and tighten the thumbscrew on the horizontal rod. (*Figure 15*)



Figure 15

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. (*Figures 16a and 16b*)



Figure 16a



Figure 16b

11.With the patient's help, loosen the center thumbscrew and remove the facebow from the patient's ears. (*Figure 17*)



Figure 17

12.Together, remove the facebow and bitefork from patient.

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, please contact Customer Service to discuss upgrading your facebow components or to reorder the bitefork with the straight shaft.

For the earlier version of the facebow system, and when using direct mounting technic for the maxillary model, the incisal guide pin will need to be removed, and a support bar will need to be placed into the slot provided at the top of the vertical rod. (*Figures 18a and 18b*)



Figure 18a



Figure 18b

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 19)



Figure 19

2. Place the transfer base assembly on the lower member of the articulator and secure it. To secure you can use the metal disk that is part of the QMS Mounting system or a maxillary fork support. (Figures 20a, b, c and d).



Figure 20a



Figure 20b



Figure 20c



Figure 20d

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

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 21*)



Figure 21

Secure transfer base to the articulator using a maxillary cast support or metal disc from the mounting plate. (*Figure 22*)



Figure 22

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



Figure 23

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

Mounting the Maxillary Model using Model 8645 Direct Mounting Facebow.

1. 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. (Figure 24)



Figure 24

2. Loosen and remove the incisal guide pin. (Figure 25)



Figure 25

Note: Please refer to instructions in articulator manual for adjustment settings.
When direct mounting on the 2240/2240Q articulator only. Set the condylar guide assembly for both the left and right sides to the F/B mark. This reading is located on the outsides of the guide assembly. (Figure 26)

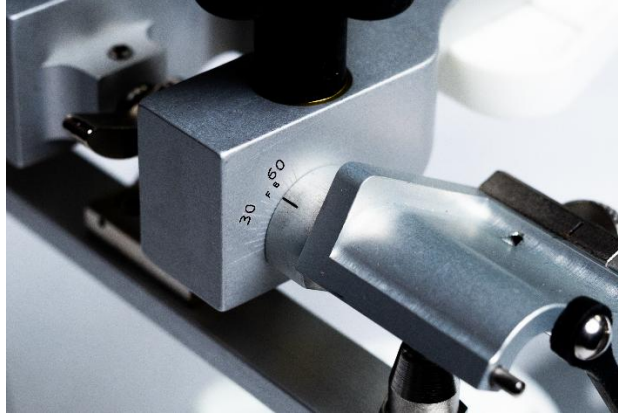


Figure 26

3. Guide the facebow beneath the upper frame of the articulator. The earpieces should be even with the facebow mounting pins, located on the outside edge of the condylar guides. (Figure 27)



Figure 27

4. Guide the holes of the earpieces onto the mounting pins, located on the medial side of each earpiece, onto the facebow mounting pin. Make sure the earpieces are touching the side of the condylar guides. (*Figure 28*)



Figure 28

5. Allow the anterior end of the upper frame of the articulator to rest on the horizontal crossbar of the facebow. (*Figure 29*)



Figure 29

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. Allow the facebow, as it is attached to the upper frame to settle onto the tabletop. (*Figure 30*)



Figure 30

NOTE: Many clinicians/dental technicians prefer to use some sort of lifting device to place the upper member parallel to the tabletop for mounting procedures. This will allow more room to use a maxillary cast support. (*Figure 31*)



Figure 31

8. Position the upper model into the bite registration and mount the maxillary model.

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

Cleaning Procedure:

If there is any debris on the device, be sure to remove debris before the cleaning process. Use a soft bristle brush and cold running water to remove any debris. After debris removal follow the guidelines below.

- Clean the face-bow apparatus before each use.
- A fingercot can be placed over each earpiece or use an alcohol wipe to clean earpieces and nasion support (if included).
- Use lint-free cloth to dry

Sterilization of Bite Fork and Shaft:

Sterilization of equipment, methods, and parameters vary greatly from facility to facility therefore Whip Mix Corporation cannot guarantee sterility of our dental devices, but using the below guidelines should provide sterility for the bite fork and shaft.

If there is any debris on the bite fork, be sure to remove debris before the sterilization process using the cleaning guidelines described above.

- The bite fork and shaft should be sterilized before each use.
- Do not autoclave the Face-bow or Transfer Jig.

Sterilize the Metal bite fork and shaft using the following parameters and following the autoclave manufacturer's instructions.

Bite fork and shaft Sterilization parameters

Type of Sterilizer	Load Configuration	Exposure time at 132°C (269°F)	Exposure time at 134°C (270°F)	Drying Time
Vacuum or Gravity Displacement	Nonporous items only	≥ 4 Minutes	≥ 3 Minutes	15- 30 minutes

Warranty:

Refer to the website: www.whipmix.com

Please check online at
www.whipmix.com
 for the most current
 instructions and parts list.

Symbols and Their Descriptions:

SYMBOL	DESCRIPTION
	Manufacture by
	CE marking
	Medical Device
	Importer
	EU Authorized Representative
	Lot number
	Item Number or Model Number
	eIFU- Electronic Instruction For Use
	Unique Device Identifier



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