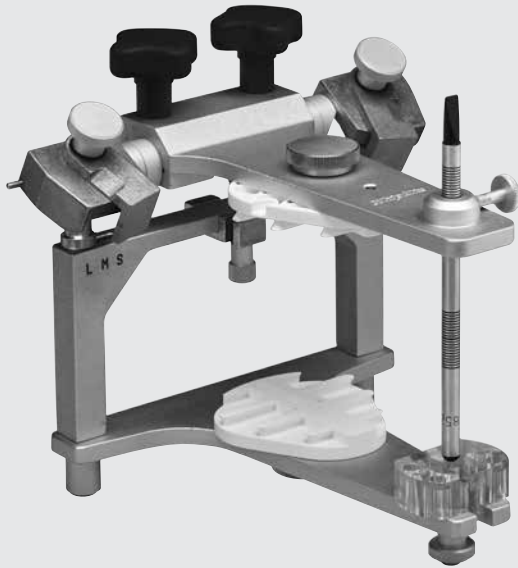




8500 Series Articulator System



Model 8500 Instruction Manual

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Parts List available at www.whipmix.com

Introduction

Whip Mix articulators are designed to enable the user to quickly and easily mount casts of a patient's dentition on a mechanical device that will reproduce their natural relationship and movements with an acceptable degree of accuracy. The simplicity and speed with which the necessary registrations are obtained and transferred to a Whip Mix articulator enable the operator to accomplish corrective and restorative dentistry with much greater precision than has ever before been possible without the use of expensive equipment and time consuming techniques.

Being arcon type instruments, Whip Mix articulators are ideal for the study of occlusion and the movements of the temporomandibular joints. With the condyle located on the lower member and the guidance on the upper member, Whip Mix semi-adjustable articulators have become the preferred choice of many teaching institutions.

Features

The 8500 Series Articulator System Features:

Protrusive Condylar Inclination:

adjustable 0 – 70 degrees

Progressive Side Shift:

adjustable 0 – 40 degrees

Adjustable intercondylar distance:

S (96mm)

M (110mm)

L (124mm)

Spring latch assembly holds articulator in centric position when locked and allows for easy separation of upper and lower members when released

Non-skid rubber feet for stabilizing articulator when open

8500 Series Articulator System

Articulator Manipulations

To attach or remove the incisal guide pin, loosen or tighten the incisal guide pin screw.



The upper and lower frames are made parallel by aligning the top of the pin boss with the dark line which completely encircles the pin.



Spring Latch Operation

To engage the spring latch, pull down on the spring and slide into the latch bracket. To remove the upper member, slide the spring latch out of the latch bracket.

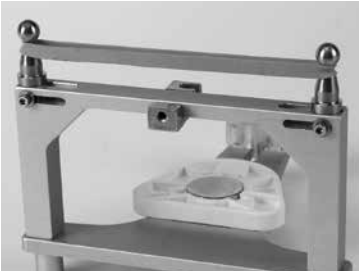


Adjust Intercondylar Distance

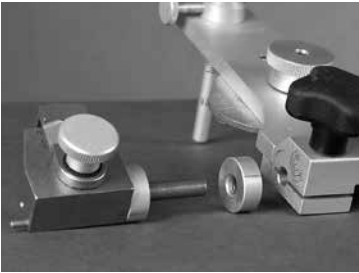
The lower frame of the articulator has the letters L, M, and S engraved on each of its top corners.

Each of the two condylar elements should slide to one of the settings to correspond with the patient's intercondylar width as recorded on the facebow.



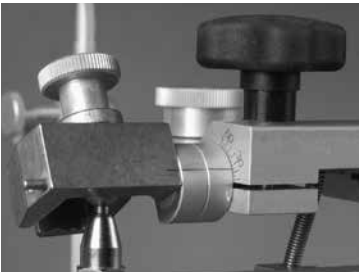


Once the condylar elements are roughly in the correct setting, lightly tighten the screw in the back of the slot. Place a rubber band around the condyle elements to hold them tightly together.

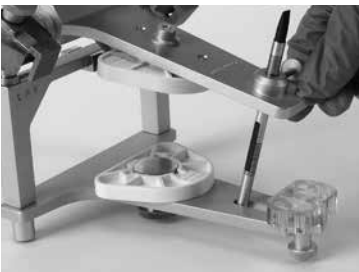


Set the upper frame of the articulator to the same width by removing or adding the correct number of spacers on the shafts of the condylar guides.

Use two spacers on each shaft for Large, one on each shaft for Medium, and no spacers for Small. Make certain that the shafts are replaced so that the spacers are in tight contact on both sides between the articulator frame and the condylar guides.

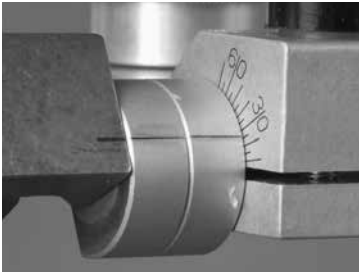


When spacers are used, always place those with the beveled sections closest to the condylar guides with the bevels next to the guides. Also, be sure that the horizontal line on each spacer aligns with that on the back of the condylar guide.



Set the upper member on the lower member and attach the latch spring. Slide the incisal pin through the slot of the lower member and center it. Keeping the incisal pin centered, tighten the screws in the back of the slot to secure the condylar element. Remove the upper member and take off the rubber band.

Articulator Adjustments



Protrusive Condylar Inclination: the angle of the fossa in relation to the occlusal plane.

The inclination of the protrusive condylar path can be adjusted by loosening the large black clamp knob. The protrusive condylar path inclination scale is on the side of the upper member and is calibrated in increments of 5 degrees. The protrusive adjustment range is 0 – 70 degrees.



Progressive Side Shift: the path the orbiting condyle follows on the medial wall of the fossa as it orbits around the rotating condyle.

To set the progressive side shift, loosen the side shift guide locking knob and move the side shift guide until it touches the side of the condyle element. The scale for the progressive side shift adjustment is located on top of the condylar guide and is calibrated in 5 degree increments. The progressive side shift range is 0 – 40 degrees.

Mounting Casts on the 8500 Series Articulators

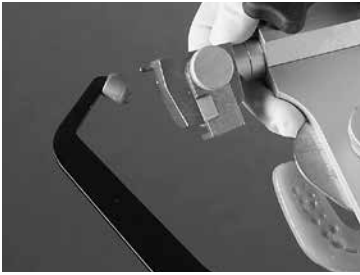
In addition to a facebow record, the only records needed for complete programming of the 8500 series are:

- Lateral bite records
- Protrusive bite record

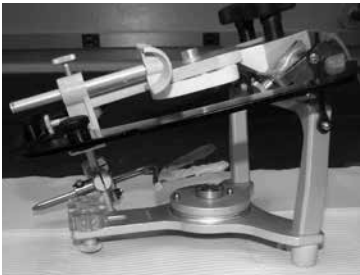
Direct Mounting the Maxillary Cast

Remove or sufficiently raise the incisal guide pin so the upper member of the articulator will be able to rest on the horizontal crossbar of the facebow.

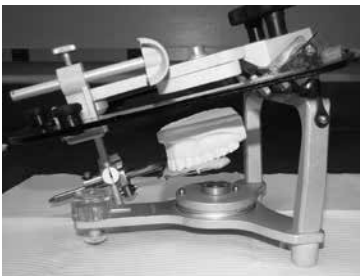
Note: Set each condylar guide to 30 degrees on the condylar inclination scale in preparation for attaching the facebow assembly to the upper frame of the articulator.



Position the mounting pin located on the outer edge of the upright on the lower member into the hole on the medial side of each plastic earpiece of the facebow



Allow the anterior end of the upper member of the articulator to rest on the horizontal cross bar of the facebow. Make sure the articulator with attached facebow is stable. You may want to use a facebow fork support to stabilize the maxillary cast during mounting procedures.



Position the maxillary cast into the bite registration. A fork support may be used to steady the bite fork.

Mounting the Mandibular Cast

Engage the Spring Latch and secure the upper member to the lower member.

Set both progressive side shift guides to the "0" position.

Invert the articulator and make sure the condylar elements will seat in their most retruded position in the condylar guides. Position the mandibular cast on the CR or MI bite registration.

Complete the mounting of the casts.



Accessories

Whip Mix® Direct Mounting Facebow Model 8645

This facebow provides a convenient, quick and accurate method of securing an axis location without the use of expensive equipment and time-consuming techniques.



Maxillary Fork Support

The adjustable “T” supports the bitefork and maxillary cast when mounting the facebow record on the articulator. Versions available for both magnetic and screw type mounting.



Dual-End Incisal Pin

Has a chisel end for use with an adjustable incisal guide table and a spherical end for use with a flat anterior guide table. Both ends are calibrated for vertical adjustments.



8575 Remounting Jig

Temporarily replaces the mandibular cast. It eliminates the need for a second facebow recording and transfer if remounting finished dentures. Screw type.



FlexiMount™ Universal Mounting Support

Quickly and easily provide dynamic stability when mounting the lower cast without glue, paper clips or accelerants.



Adjustable Guide Table

May be moved anteriorly or posteriorly which minimizes having to adjust for the “x” dimension. Incline may be adjusted and locked from 0 to 40 degrees protrusive. Adjustable lateral wings establish the degree of incisal freedom from 0 to 45 degrees.

Care and Maintenance

Your Whip Mix articulator is a sturdily constructed instrument that will provide many years of service with reasonable care. Both the upper and lower members are made of cast aluminum. All aluminum parts are anodized to prevent corrosion or staining. The condyle elements and the condylar guidance assemblies are of stainless steel.

- **A thin film of lubricant or silicone spray applied to the surfaces upon which the condylar elements move will provide a smooth action of these parts.**
- Failing to remove excess stone, or not keeping the articulator clean may result in corrosion of articulator surfaces.
- Apply silicone spray to articulator frame to prevent plaster or stone from sticking to surfaces.

Failure to follow these instructions will void your warranty.

Warranty

Whip Mix Corporation warrants the articulator system to be free from defects in material and / or workmanship for a period of one year. In the event of a defect, please notify the factory in writing prior to returning the instrument. Whip Mix Corporation will, at its option, either repair, replace or issue credit for such defects.

Because Whip Mix Corporation is continually advancing the design and manufacturing method of its products, it reserves the right to improve, modify or discontinue products at any time, or to change specifications or prices without notice and without incurring obligations.



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