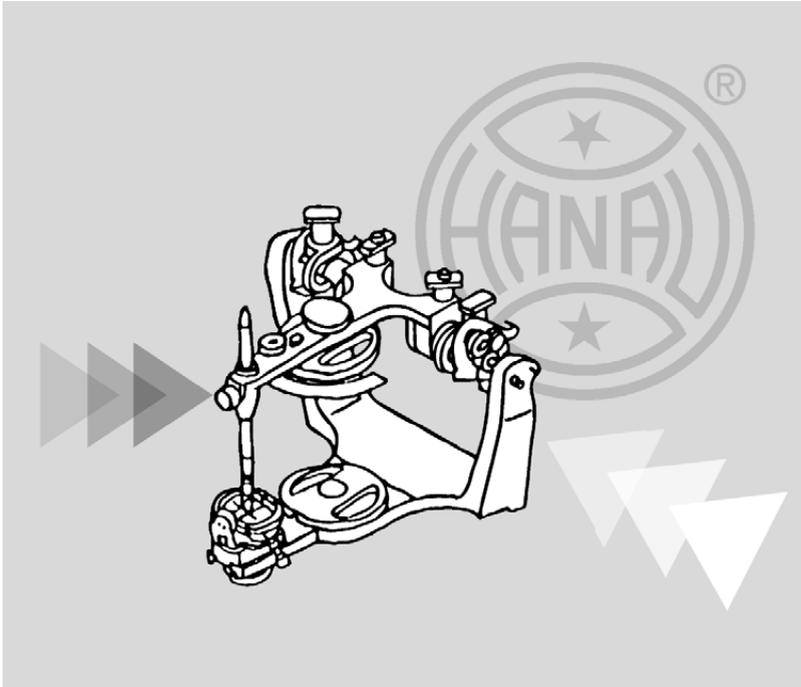


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# The Hanau™ Modular Articulator System 190

Fixed 11 cm width, adjustable Bennett Angle and/or Adjustable Protrusion



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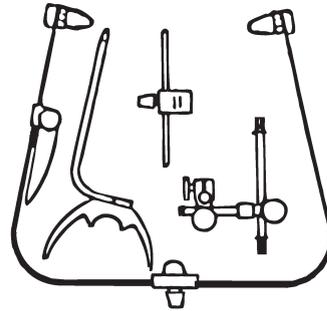
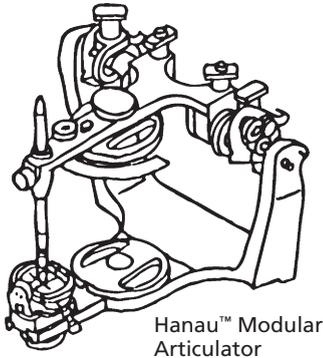
## Illustrated Instruction Manual



## A Study Case for Occlusal Analysis

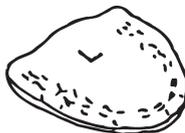
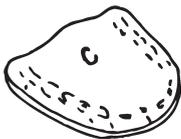
This instruction manual presents a study case for occlusal analysis using the Hanau™ Modular Articulator.

The Hanau™ Spring-Bow is used in this text to record and transfer the patient's condyle/maxillary arch relation to the Modular Articulator.

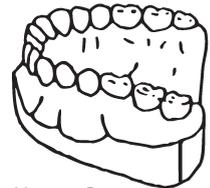
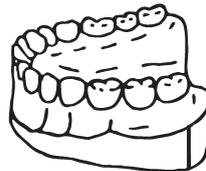


Three interocclusal relation records are required. One centric relation; one right and one left lateral position shifts of the jaw.

Casts of the maxillary and mandibular arch are required. Their occluding surfaces must be dry and free of nodules. The casts must seat snugly in the cusp imprints of the interocclusal records.



Centric, right & left lateral interocclusal relation records.

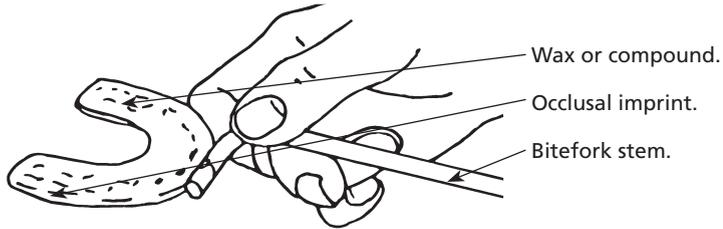


Stone casts of the mandibular and maxillary arch.

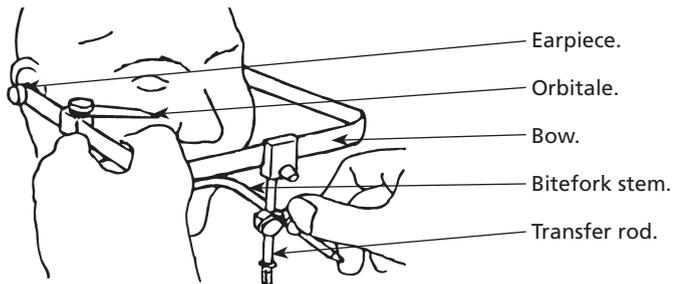
## Illustrated Procedure

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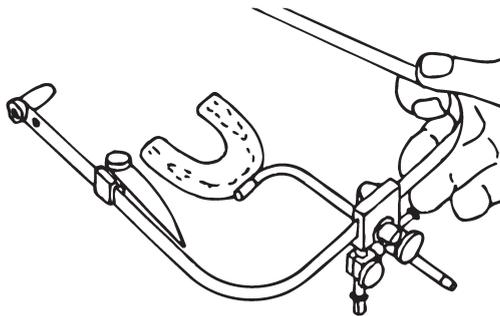
- 1** Cover bitefork for maxillary occlusal imprint.



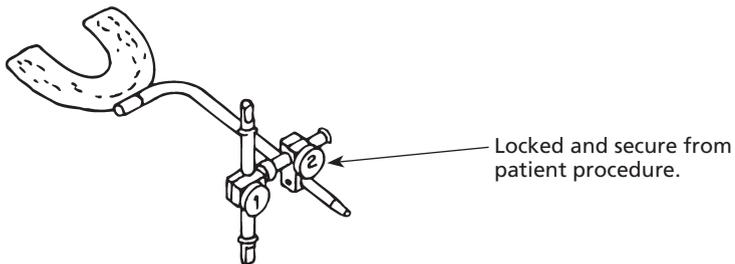
- 2** Spring-bow application.



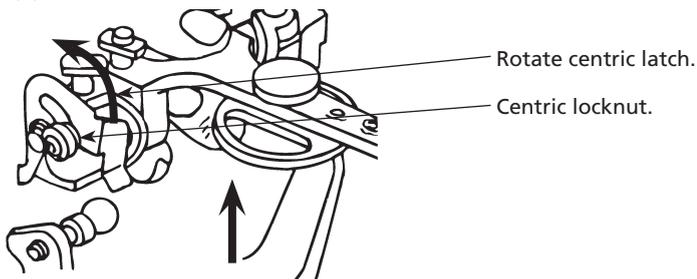
- 3** Remove the Spring-bow from the patient.



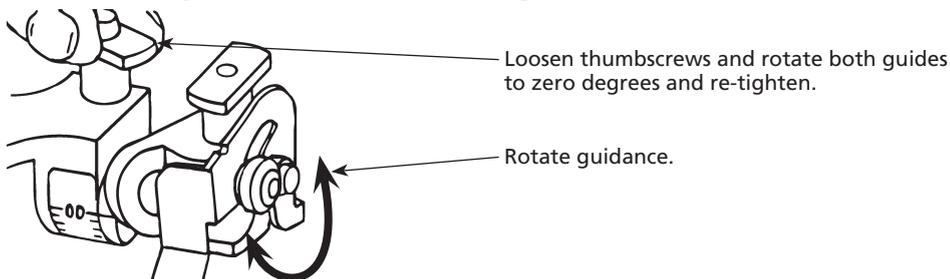
- 
- 4** Separate transfer rod/bitefork index assembly from bow and send to the lab.



- 
- 5** Release centric locknuts and disengage both centric latches, removing upper member.

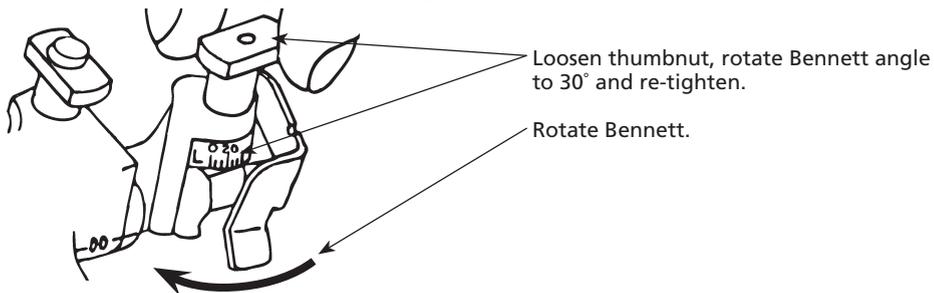


- 
- 6** Set both condylar inclinations at zero degrees.



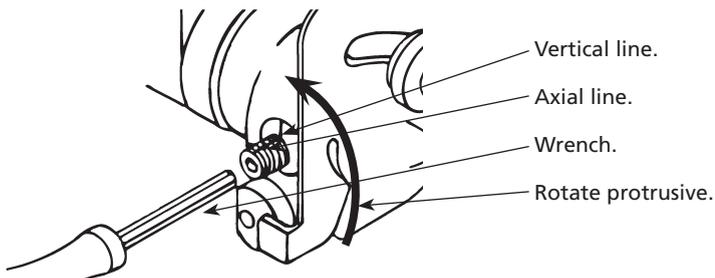
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**7** Set both Bennett angles at 30 degrees.



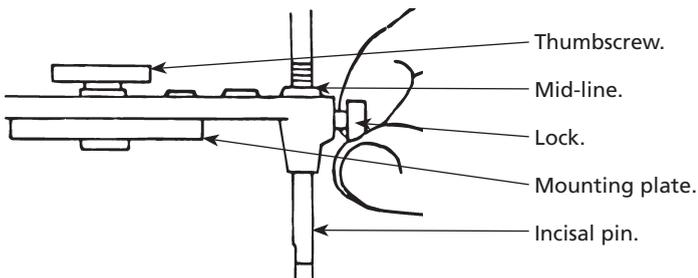
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**8** If protrusion adjustment is included on this articulator, set at zero centric.



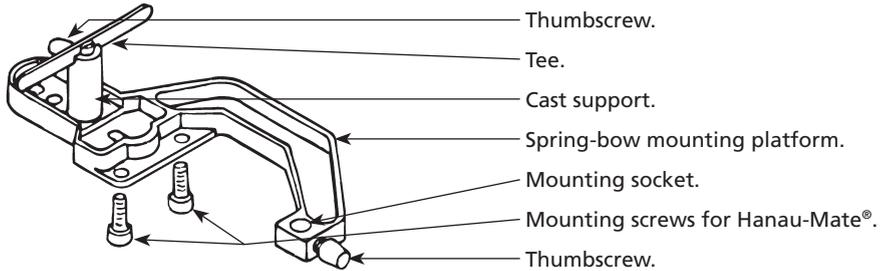
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**9** Set incisal pin at mid-line and attach mounting plate.



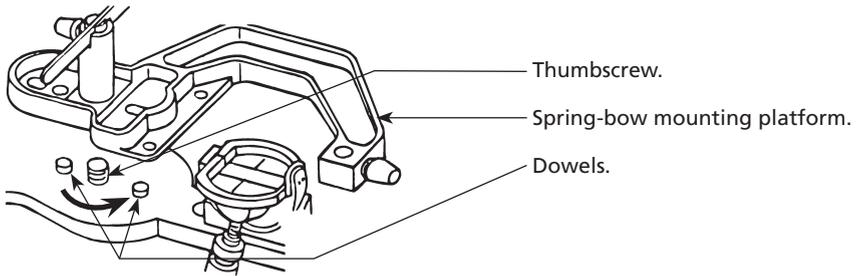
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**10** Accessory Spring-bow mounting platform with cast support.



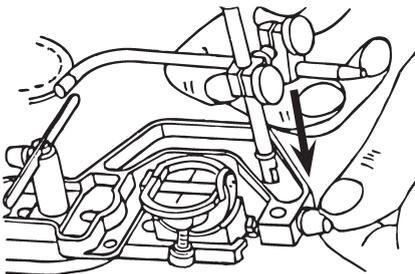
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**11** Attach Spring-bow mounting platform.



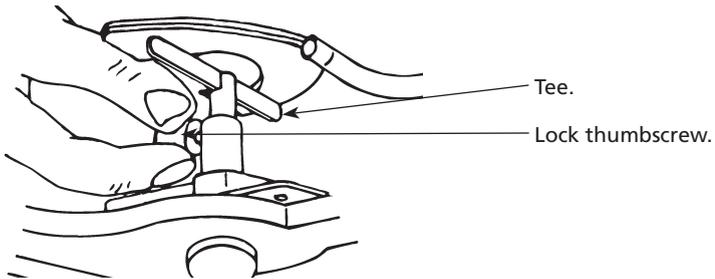
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**12** Insert transfer rod into mounting socket.



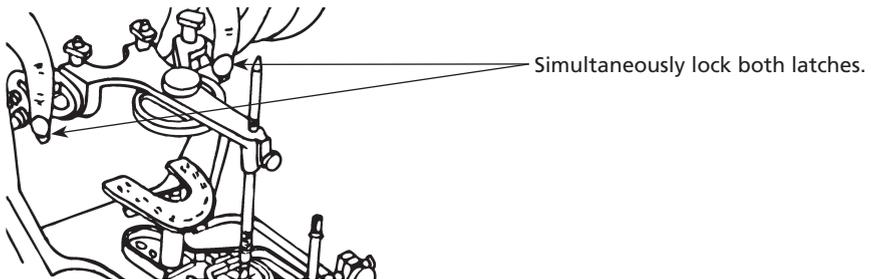
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**13** Additional weight of stone cast is supported by cast support.



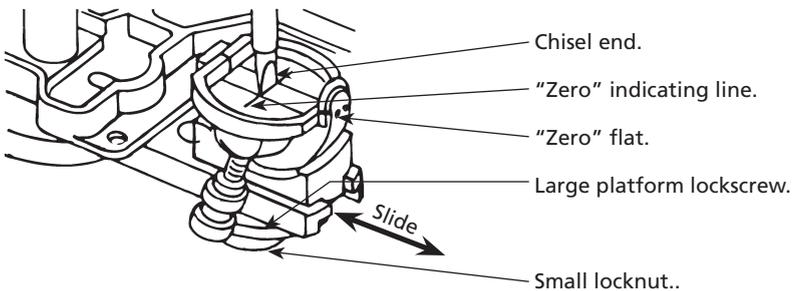
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**14** Replace upper member and lock in centric.

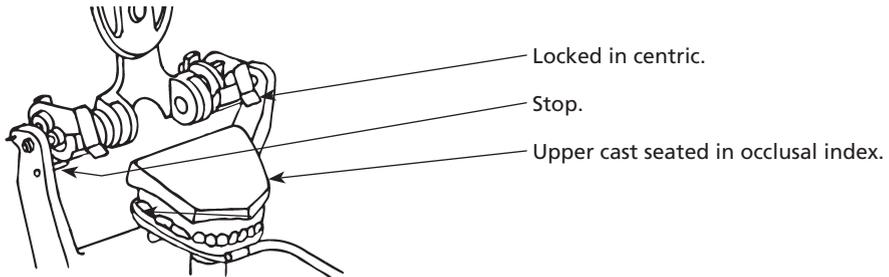


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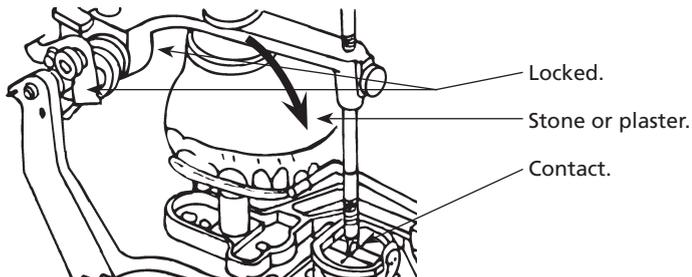
**15** Align adjustable incisal guide.



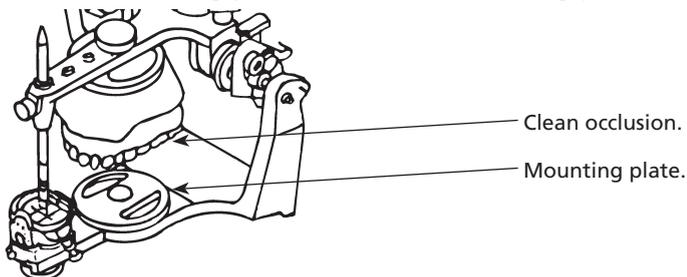
- 
- 16** Swing upper member open to the stop.  
Seat and lute upper cast in occlusal index.



- 
- 17** Close upper member to push cast and mounting plate into stone.

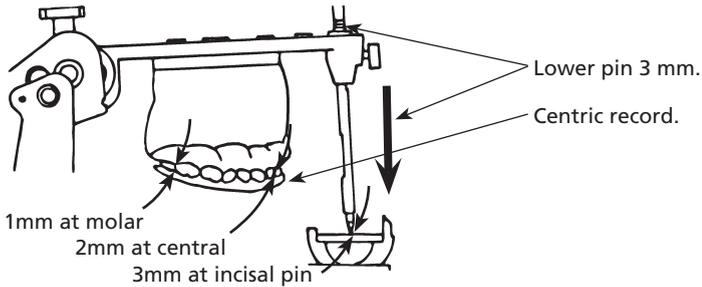


- 
- 18** Remove mounting platform, attach mounting plate.



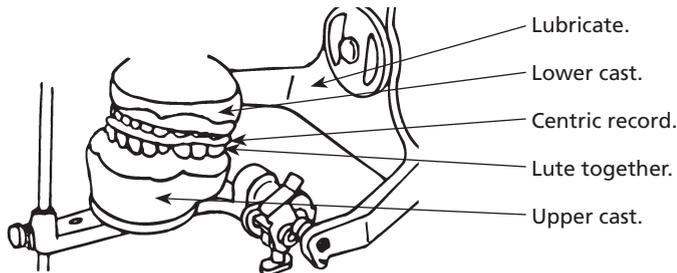
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**19** Centric record compensation = thickness at third molar x 3.



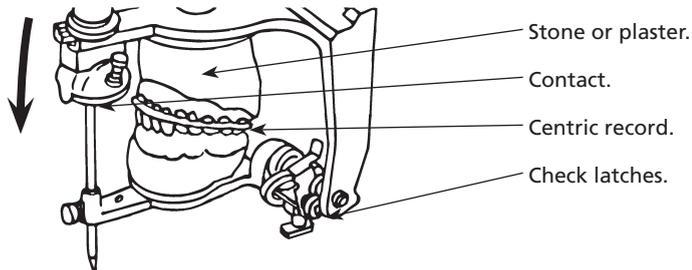
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**20** Invert articulator, swing lower member back, and seat and lute upper/lower casts in centric.

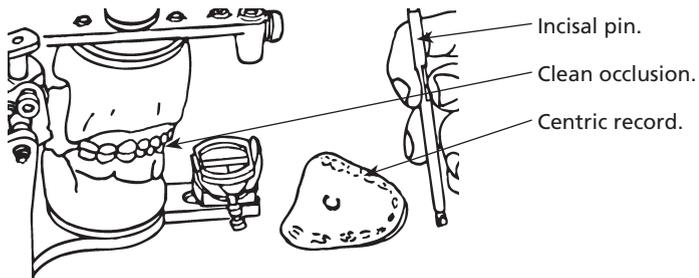


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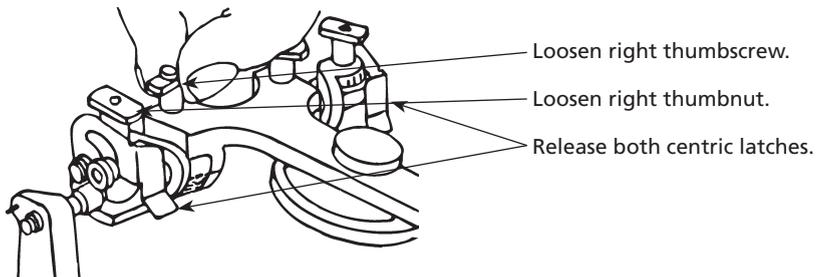
**21** Use stone or plaster to mount the lower cast at this centric relation.



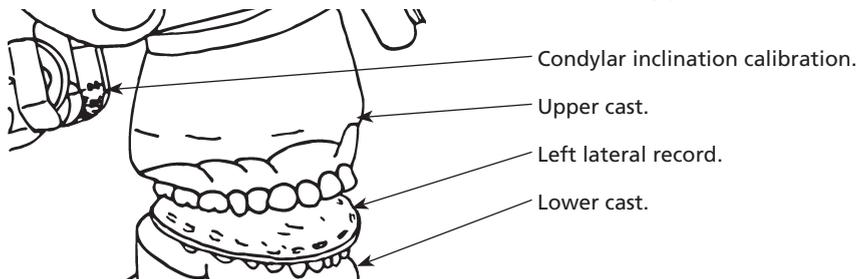
- 
- 22** Turn the articulator over, remove the luting and the centric relation record.



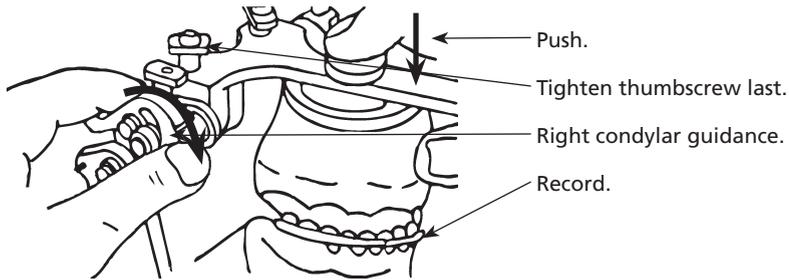
- 
- 23** Loosen condylar guidance latches and right thumbscrew and thumbnut.



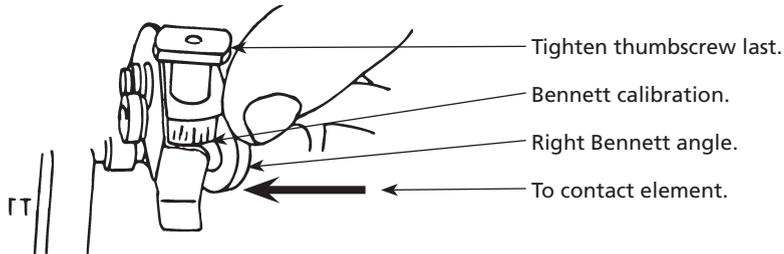
- 
- 24** Place the left lateral relation record between the upper and lower cast.



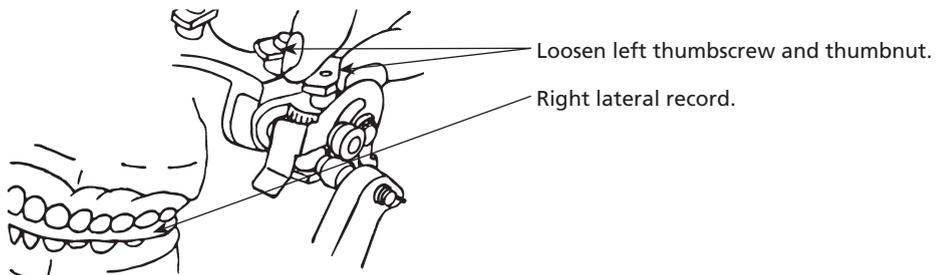
- 
- 25** Hold cast in record, rotate guidance until contact is made between superior surface and condylar element.



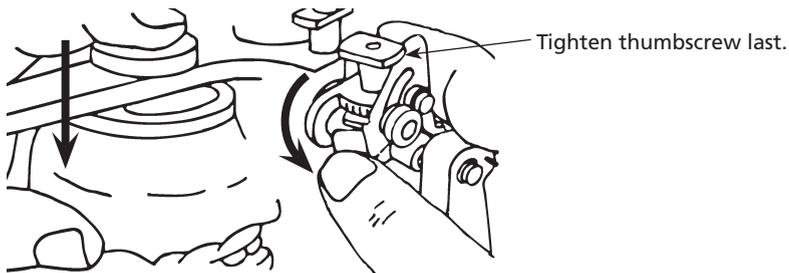
- 
- 26** With the left lateral record in place, guide the right Bennett angle to contact the balancing condyle.



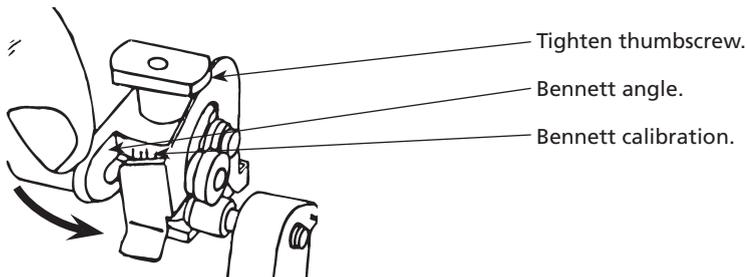
- 
- 27** Loosen the left thumbscrew and thumbnut. Place right lateral record between casts



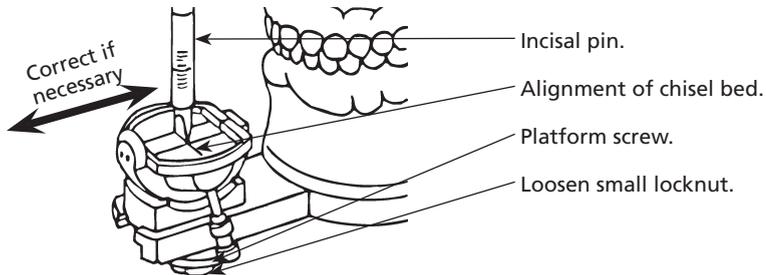
- 
- 28** Push upper cast down, rotate guidance to position both casts into lateral record.



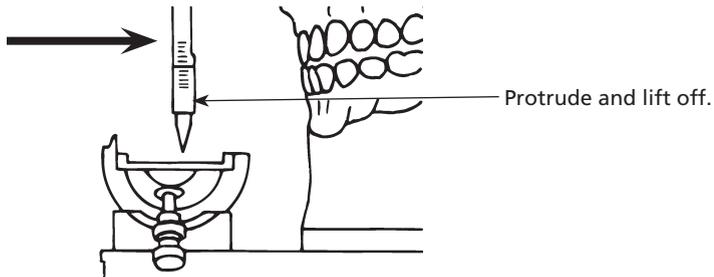
- 
- 29** Rotate the left Bennett angle to contact the condylar element.



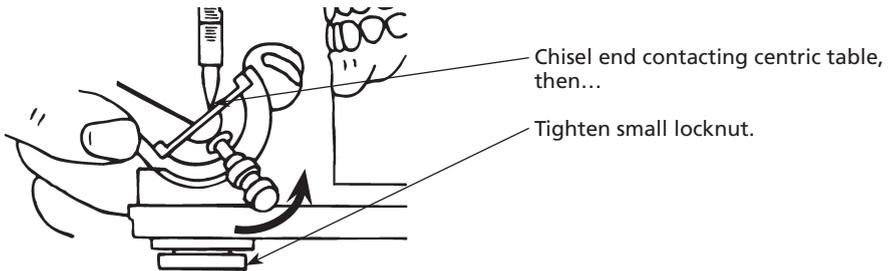
- 
- 30** Place the left lateral relation record between the upper and lower cast.



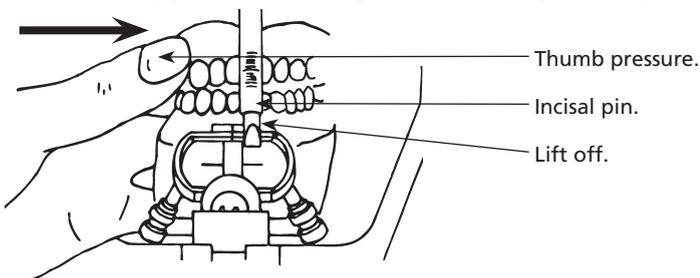
- 
- 31** Loosen centric latches and protrude lingual of upper to incisal of lower and push.



- 
- 32** Rotate adjustable incisal guide to contact central table with chisel end pin.

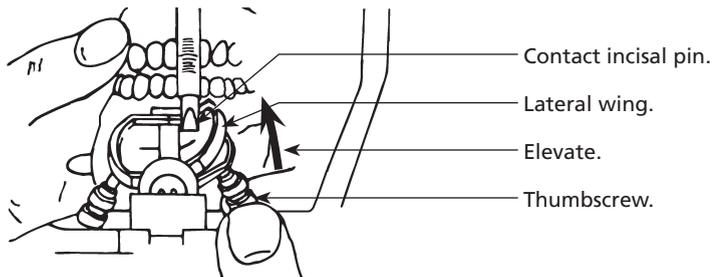


- 
- 33** Guide the upper cast to a right lateral, cusp-to-cusp relation and push.



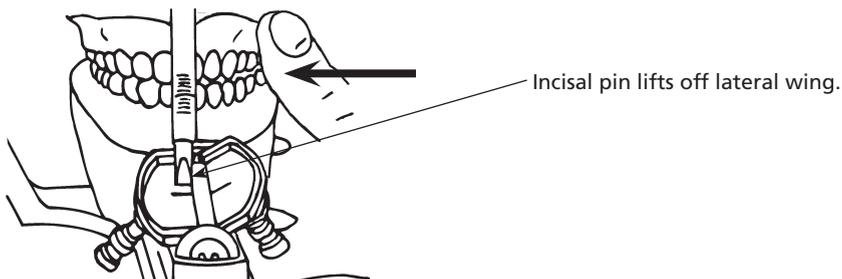
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**34** Turn thumbscrew to elevate lateral wing to contact the corner of incisal pin.



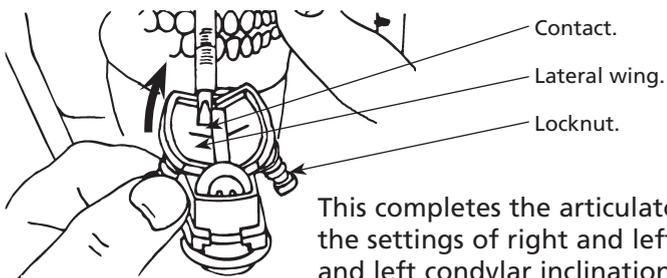
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**35** Guide upper cast with thumb into a left lateral cuspid to cuspid relation.



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**36** Raise the lateral wing to contact incisal pin. Secure both wings with locknuts.



This completes the articulator adjustment. Record the settings of right and left Bennett angles, right and left condylar inclinations, right and left protrusion (if used) and the articulator serial number.

## Articulator Care and Maintenance

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Your Whip Mix articulator is a precision instrument and requires care and maintenance. Periodic cleaning and lubricating as described below will assure prolonged life and dependable service from the instrument. Failure to follow these instructions will void your warranty.

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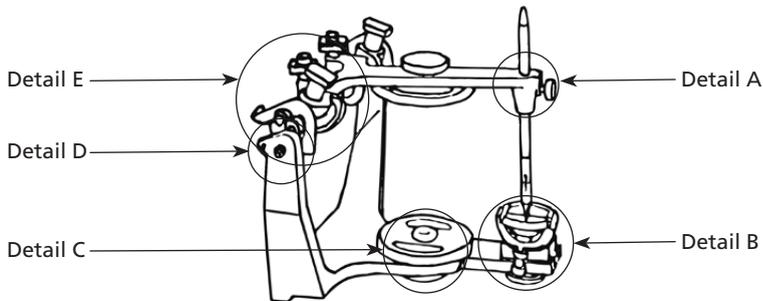
### CLEANING

Use a mild soap and water solution with the aid of a brush to dissolve accumulations of wax and to wash away carborundum grit. Then air dry and lubricate. **DO NOT** use strong detergents, alkalies, gasoline or naphtha as cleaning agents!

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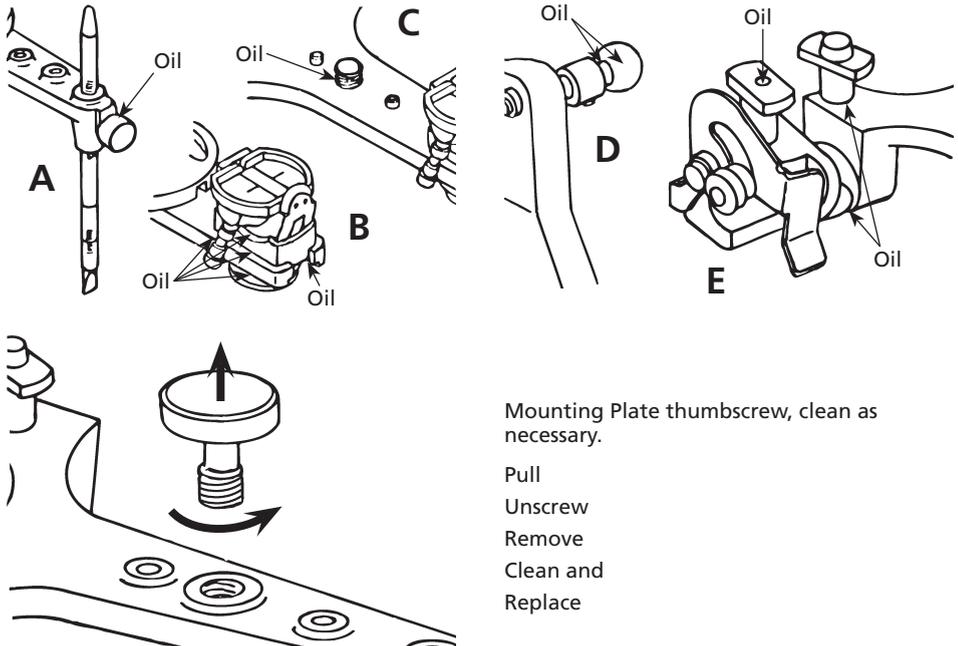
### LUBRICATION

Lubricate the working and bearing components with a **thin film** of sewing machine or high speed handpiece type oil. Wipe off excess oil to prevent accumulations of dust or grit. A thin coating of petroleum jelly must be applied to all articulator surfaces that will be contacted by the gypsum mounting material.



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## Lubrication points.



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## STORAGE

Store the articulator in a clean, dry atmosphere free of plaster and carborundum dust; away from acids, alkalis or corrosive medicaments. Wait a full day after mounting casts before storing the articulator in a carrying case or corrugated carton. Moisture dissipation from the stone in an enclosed area causes alkalinity of the stone mixture which can damage the articulator surface.

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## **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 of the defect 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 of its products and manufacturing methods, 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.





RESTORATIVE ORAL HEALTH

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