

Instruction Manual

**Reference LF Articulator and Face Bow Systems
Reference AB, Reference AB junior, Condylograph Set,
Condylograph comfort Set, and Condylograph comfort Set I**



Important notice:



For your own safety, as well as for operational safety, please read these instructions thoroughly before beginning to operate the device. Always comply with any and all warnings included in these instructions, and/or on the device itself.



Instruction Manual

Reference LF Articulator and Face Bow Systems Reference AB, Reference AB junior, Condylgraph Set, Condylgraph comfort Set, and Condylgraph comfort Set I CPV (Condylar Position Variator)

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1 Warnings and safety information



The instruments are designed for use in the dental practice and lab. Initial start-up and operation must be according to the instruction manual.

Furthermore, it is the owner's responsibility to check up on the adequacy and applicability of the devices for the intended purpose before initial start-up, unless it is listed in the instruction manual.

The manufacturer does not assume liability for damages caused by improper usage, incorrect handling or improper repair.

All maintenance and servicing tasks, other than operations mentioned in the instruction manual, should only be done by authorized specialists.

Use original GAMMA spare parts only!

2 Intended purpose and mode of application

The face bows of the Reference system serve two purposes. Firstly, they are required accessories to the CADIAX system, because the flags and styli of the CADIAX are mounted onto the face bows. Secondly, the face bows are used for determining the relation of the patient's jaw to a cranial reference plane. This assessment of jaw relation is necessary for mounting the jaw models in the correct position within the articulator.

During the application of the face bow, the following circumstances can prevent or limit the usage of the face bow:

- General diseases:
Patients with diseases that prevent the mounting of a face bow. The diseases can be physical or psychological in nature. (e.g. spasticity, epilepsy, claustrophobia, injuries or diseases regarding the bony skull or soft tissue structures of the skull, such as the ear, etc.)
- Special diseases in the aural area:
Patients with diseases in the area of the ear. (e.g. painful inflammations, tinnitus, pain in the ear, etc.)

This instruction manual describes the application of the devices. The usage of articulators and face bows is part of the dental medical education. A briefing regarding the handling of the products by our own personnel or by personnel of our retailers is not required.

Interference and/or operation of the devices by the patient is not intended. However, active cooperation of the patient is necessary for obtaining the desired examination results. For this reason, special attention has to be given to the patient's cognitive abilities during the examination of children, elders or handicapped people. This group of patients has to be carefully prepared for the examination in particular.

The application of the face bows on the patient during the assessment of jaw relation is completed in a few minutes. Articulators are not used on the patient.

3 Reference AB face bow



The Reference AB face bow (06-230430) is used for mounting the upper jaw model into the articulator according to the anatomic hinge axis.



Soften the Bite Tabs (06-642150) in warm water at approximately 45°C and place three of them on the bite fork. Apply wax to the bite fork.



Place the prepared bite fork onto the upper teeth of the patient in median-sagittal direction with slight pressure on all waxed points. Try to get equally shallow impressions. The teeth should not touch the metal fork.



Loosen the glabella support. The 3D joint support is not yet attached to the face bow. Insert the porus supports into the patient's ear canals. Tighten the screw to fix the position.

Gently push the porus supports into the ear canals.



Stretch the forehead skin.



Push the glabella support carefully and without pressure onto the nasion and tighten the Glabella support screw.



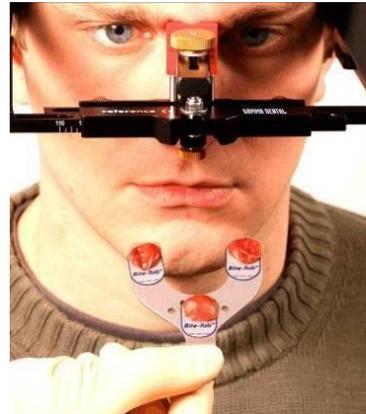
Optionally, to improve the stability of the face bow further, you can attach the retention straps (01-SP0040). Stretch them equally on both sides and close them at the back of the head with the hook-and-loop fastener. Control that the face bow fits properly.



Attach the bite fork to the face bow with the joint support.



Press the bite fork gently onto the upper teeth.

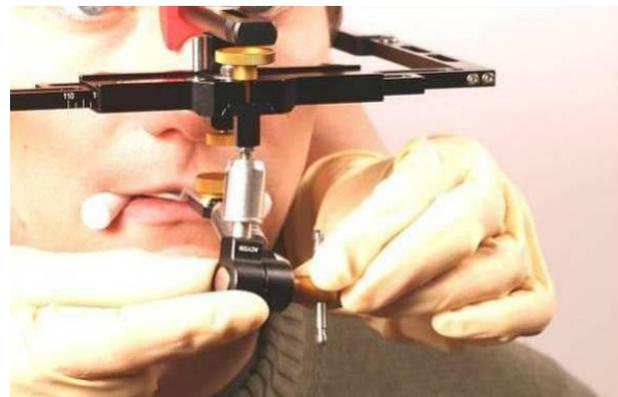


Tighten the toggle nut of the joint in two steps:

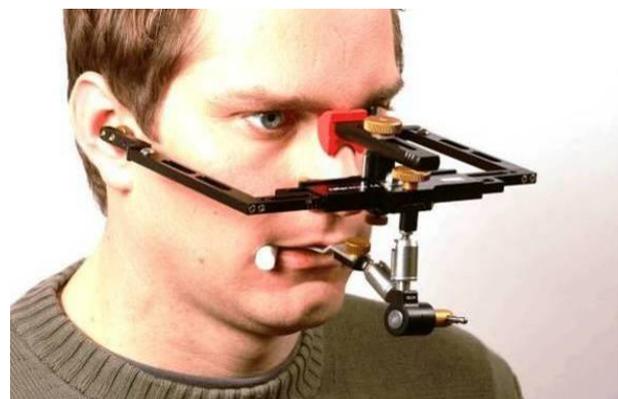
Step 1: to fix the bite fork in-situ, and

Step 2: for safe transportation.

Centralize the toggle and hold the joint support with the other hand to counter the torque and to absorb the pressure on the glabella support.



The face bow is in correct position and the joint support fixed without tension, when the bite fork will not drop considerably lower from the upper teeth.



Open the face bow and pull it carefully away from the patient, in forward and downward direction. (If retention straps have been used, open them carefully in advance.)



The procedure on the patient is completed.



4 Reference AB junior face bow



The Reference AB junior face bow (06-230430-J) is used for mounting the upper jaw model into the articulator according to the anatomic hinge axis. This face bow is intended for children and people with smaller cranial width.



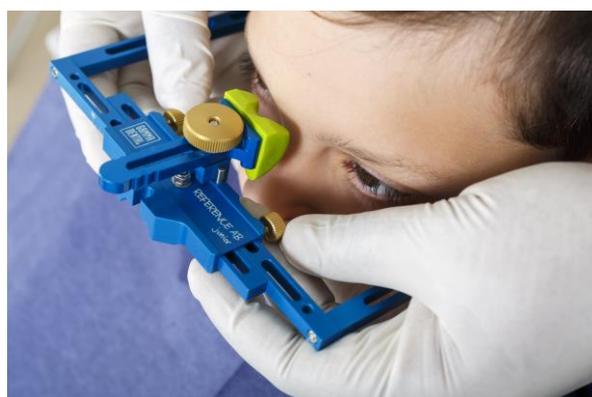
Soften the Bite Tabs (06-642150) in warm water at approximately 45°C and place three of them on the bite fork. Apply wax to the bite fork.



Place the prepared bite fork onto the upper teeth of the patient in median-sagittal direction with slight pressure on all waxed points. Try to get equally shallow impressions. The teeth should not touch the metal fork.



Loosen the glabella support. The 3D joint support is not yet attached to the face bow. Insert the porus supports into the patient's ear canals. Tighten the screw to fix the position.



Gently push the porus supports into the ear canals.



Stretch the forehead skin.



Push the glabella support carefully and without pressure onto the nasion and tighten the Glabella support screw.



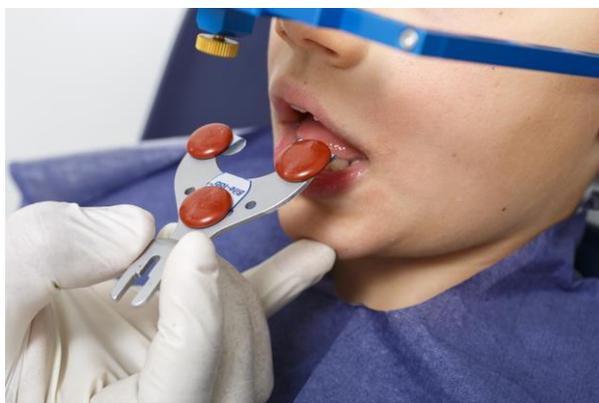
Optionally, to improve the stability of the face bow further, you can attach the retention straps junior (01-SP0040-J). Stretch them equally on both sides and close them at the back of the head with the hook-and-loop fastener.



Make sure that the face bow fits properly.



Press the bite fork gently onto the upper teeth.



Attach the bite fork to the face bow with the joint support.



Tighten the toggle nut of the joint in two steps:

Step 1: to fix the bite fork in-situ, and

Step 2: for safe transportation.

Centralize the toggle and hold the joint support with the other hand to counter the torque and to absorb the pressure on the glabella support.



The face bow is in correct position and the joint support fixed without tension, when the bite fork will not drop considerably lower from the upper teeth.



Open the face bow and pull it carefully away from the patient, in forward and downward direction. (If retention straps have been used, open them carefully in advance.)



The procedure on the patient is completed.

5 Reference LF articulator

5.1 Introduction

REFERENCE LF ARTICULATOR

06-232100



The Reference LF articulator is a semi-adjustable articulator, designed for use in the dental practice and laboratory. The device is used for the spatial mounting and relation of jaw models, for movement simulation, as well as for the design and manufacturing of dental prostheses, applicable for dentists and dental technicians.

The articulator offers a mounting system with integrated magnetic retention, by which models of the upper and lower jaw can be fixed in specified spatial relations to a coordinate system (e.g. Frankfurt Horizontal facial plane). The articulator is equipped with both right and left condylar joints, for movement simulation. These elements offer the possibility of defining the inclination angles for both the sagittal as well as the transversal components of the guidance.

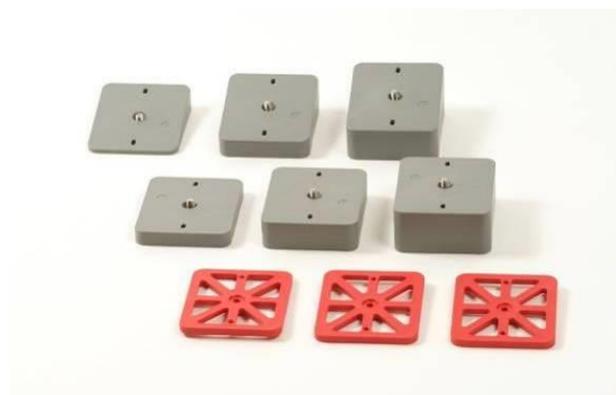
5.2 Mounting system

REFERENCE Distance blocks

- 06-231510 (pair, horizontal 1, standard)
- 06-231511 (pair, horizontal 2, + 8 mm)
- 06-231512 (pair, horizontal 3, + 16 mm)
- 06-231520 (pair, slanted A, standard)
- 06-231521 (pair, slanted B, + 8 mm)
- 06-231522 (pair, slanted C, + 16 mm)

REFERENCE Mounting plates

- 06-231550 (50 pc.)



The distance blocks and the attached mounting plates are used in fixing the cast models to the upper and lower articulator units, to establish the necessary retention for the cast.

The mounting plates must be screwed to the distance blocks with the 2.5 mm Allen key.

The mounting plates are disposable parts and should be stored with the models.

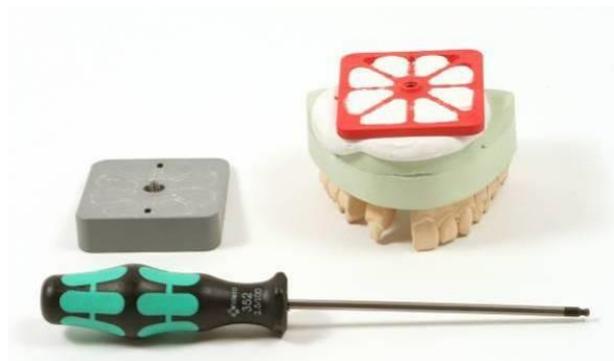
The distance blocks are designed for multiple use and can be screwed into and unscrewed from the mounting plate.

To enable exact identification of the distance block, the type of base used and its position are encoded in the cast. When remounting a block, the correct type and position can be easily determined.

Nevertheless, for reasons of precision, it is recommended that the distance blocks and mounting plates are not separated until after completion of the case. For manufacturing technological reasons, the distance blocks and plates may differ slightly.

To mount the block into the articulator, the block is placed at the posterior attachment edge and then lowered and locked onto the guiding pins.

The block is retained by the magnet, located in a metal case, built into the articulator.



Removing the blocks must only be done with the red release buttons. Incorrect ejection of the blocks (e.g. by tilting or turning) can cause the block to detach from the mounting plate!



5.3 Transferring the upper jaw model according to the anatomic axis

5.3.1 Using the Reference AB face bow

After taking off the face bow from the patient, remove the porus supports from the side arms, thus making the mounting registrations (adapter plates) accessible.

To be sure not to lose the porus supports, they may be mounted on the outer side of the side arm.



Remove the adapter plates.



Attach the mounting axis.



Close the centric locks (left and right) of the articulator. The articulator should be adjusted symmetrically (e.g., 40° SCI).



Preparing the articulator for mounting: first, remove the incisal table and the incisal pin unit; then, the face-bow support (06-230480) and the bite fork support (06-230585) must be attached. The correct position of the face-bow support is achieved, when the writing can be read normally. The supporting beams of the bite fork support, equipped with a pressure spring, must be moved downwards and fixed.



The upper part of the articulator remains open, resting on the upper index pin.

Move apart the side arms of the Reference AB face-bow leading parallel and remove the nasion support from the bow.



The adapter plates can now be tilted and fixed to the corresponding casings. To do so, the Reference AB face-bow is pushed together gently but firmly, until both guides slide firmly in place on the articulator, without wobbling. After locking it in place, the face-bow is placed on the bow support, and the anterior bow fixing screw is tightened, thus locking the bow.



Now the bars of the bite fork supports can be moved upwards, until they touch the bite fork; then they can be fixed. The position of the bite fork must not be altered.



The next step is selecting the ideal distance block. First, the upper jaw model must be set into the corresponding impressions on the bite fork; then close the upper section of the articulator that it rests in solid contact on the anterior face-bow pins. Analyze the distance between the upper section and the model. The distance block which best fills the spatial requirements can now be chosen. Make sure that there is a thin, but even layer of plaster on the selected block. This will minimize the distortion effects of plaster expansion.

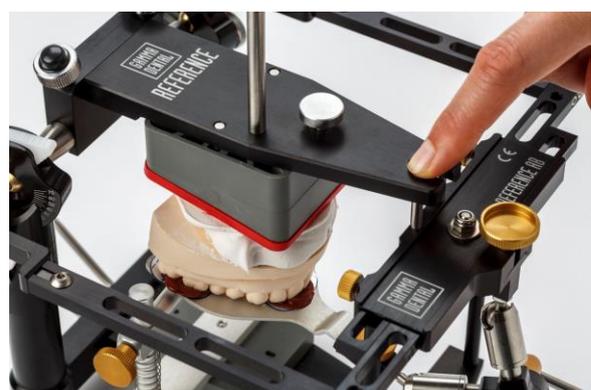


The articulator can now be opened and the distance block, with mounting plate already attached, can be fitted in. Moisten the model, and make sure to apply sufficient mounting plaster on both the mounting plate and the model.



Close the articulator and allow the plaster to harden, following the manufacturer's instructions.

Afterwards, the Reference AB face-bow can be removed from the articulator.



ATTENTION:

The mounting axis have to be removed before using the face-bow on a patient!



5.3.2 Using the Reference AB face bow and transfer stand AB2

Close the centric locks (left and right) of the articulator. The articulator should be adjusted symmetrically (e.g., 40° SCI).



Remove the incisal table and the incisal pin.



Mount the bite fork support (06-230585) and the transfer stand AB 2 (06-231400).

The supporting bars of the bite fork support, equipped with a pressure spring, must be moved downwards and fixed. The upper part of the articulator remains open, resting on the upper index pin.



Insert the 3D-joint support (06-230470) till it stops and fix it.

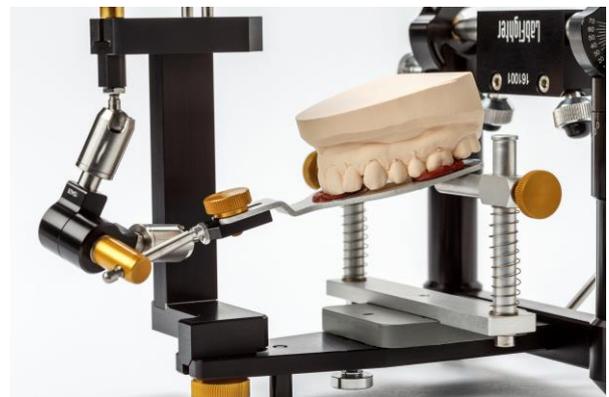


Move the bars of the bite fork support upwards, until they touch the bite fork, then fix them.

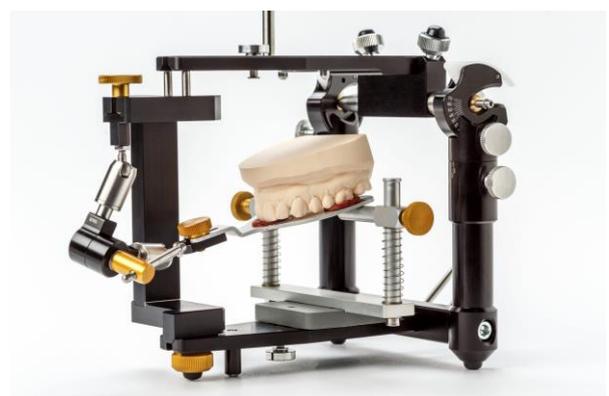
The position of the bite fork must not be altered!



Set the upper jaw model into the corresponding impression on the bite fork.



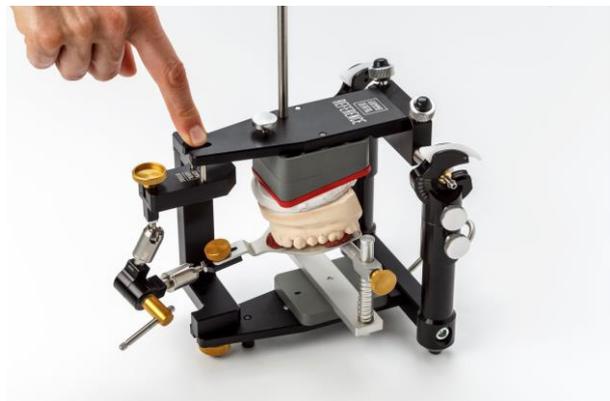
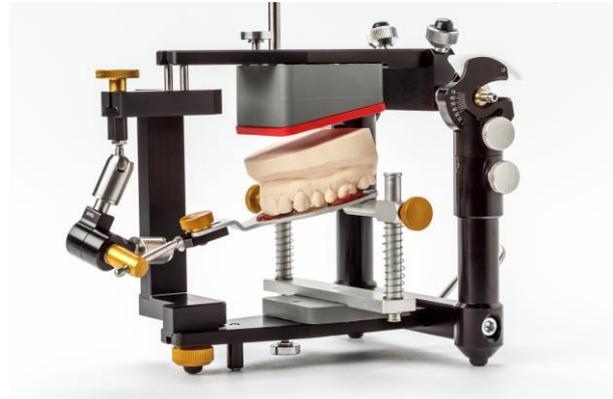
Close the upper section of the articulator that it rests in solid contact on the transfer stand pins.



The next step is selecting the ideal distance block. First, the upper jaw model must be set into the corresponding impressions on the bite fork; then close the upper section of the articulator that it rests in solid contact on the anterior face-bow pins. Analyze the distance between the upper section and the model. The distance block which best fills the spatial requirements can now be chosen. Make sure that there is a thin, but even layer of plaster on the selected block. This will minimize the distortion effects of plaster expansion.

The articulator can now be opened and the distance block, with mounting plate already attached, can be fitted in. Moisten the model, and make sure to apply sufficient mounting plaster on both the mounting plate and the model.

Close the articulator and allow the plaster to harden, following the manufacturer's instructions.



5.3.3 Using the Reference AB junior face bow

For directly transferring the upper jaw model using transfer stand AB2 junior (06-231400-J) or for indirectly transferring the position of the bite fork using transfer stand AB junior (06-216280-J), please refer to the actual version of the respective manual.



5.4 Transferring the upper jaw model according to the kinematic axis

5.4.1 Using Condylgraph comfort Set or Condylgraph comfort Set I



Mounting the upper jaw model in the articulator according to the kinematic (exact) hinge axis and individual reference plane, is carried out using the Condylgraph *comfort* Set (04-GCR311) or the Condylgraph *comfort* Set I (04-GCR311).



With the GAMMA Condylgraph *comfort*, you can localize both the right and left hinge axis points directly on the patient and mark them on the writing labels stuck to the red flags (mandibula in Reference Position!).



In addition, the orbital reference point is marked with the reference point indicator. When using the Condylgraph *comfort* Set, this is carried out with the reference point indicator P that has the blue adjustment ring.



In case of the Condylograph *comfort* Set I, the individual reference point indicator in position P is used instead.

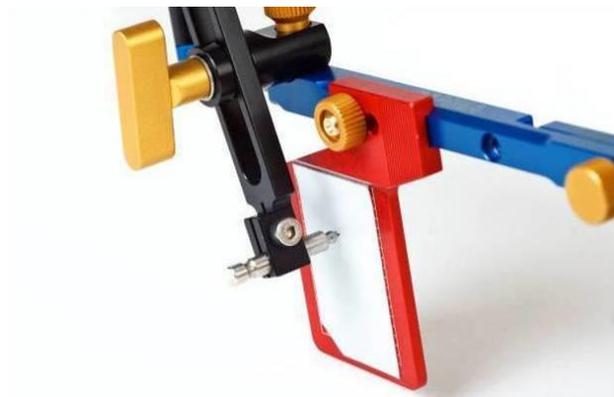
With these three points (anterior reference point, right and left hinge axis points) you can create a reference plane with a zero-line (hinge axis in Reference Position), which will be transferred into the articulator as follows:

The bite fork must be attached, with the impressions exactly positioned on the teeth. Then, connect the bite fork to the upper face-bow.

Tighten the screws of the bite fork support and thus fix the position of the upper jaw to the face bow.

Please check that all of the face-bow screws are tightened correctly. Then the elastic retention band can be opened, and the face-bow should be carefully pulled away from the patient, forward and down.

Mount the axis indicator holder to the face bow, and then adjust and fix the short axis pins to the marked hinge axis points.



Now the red flags may be removed.



Before inserting the face bow on the transfer stand, the nasion support of the Condylograph *comfort* must be removed.



Centering the model in the articulator:

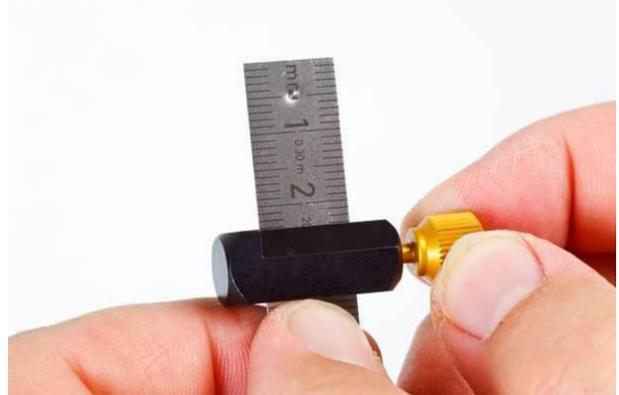
The slide of the distance ruler must be moved completely to the end and then fixed. Insert the ruler on one side by attaching the slot of the ruler onto the corresponding needle of the axis indicator holder. Now you can read the distance to the other side on the magnified 2 mm scale of the ruler.



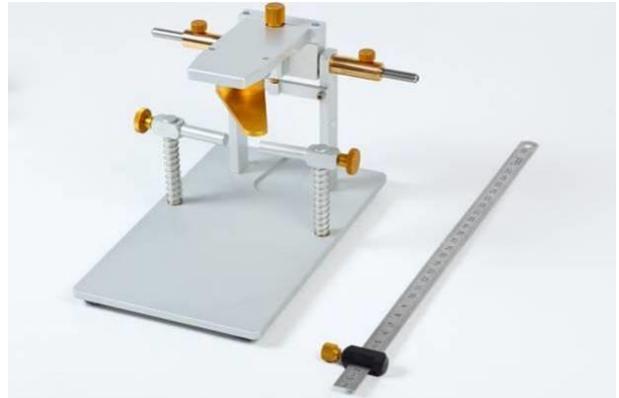
It is important to use the correct measuring edge.



According to the measured value, the slide on the ruler has to be positioned exactly on the 1 mm scale and then fixed there.



Preparing the transfer stand: The attachment screws of the two axes (brass elements) must be loosened, so that the axis springs push them completely to the ends. The bars of the built-in bite fork support must be moved completely to the bottom. The height setting of the upper section is turned to the top.



The distance of one axis is set and fixed with the previously centered ruler. The other axis remains open.



After removing the glabella support, insert the face bow with the axis pin into the bore of the open axis and move it towards the center, until it is possible to hook in the fixed axis of the other side.

The second axis can now be locked. The two axes must be positioned in equidistance.

The face-bow is now resting on the bite fork joint, propped up on the white pedestal. Carefully move the bars of the bite fork support upwards to the bite fork, for further stability.



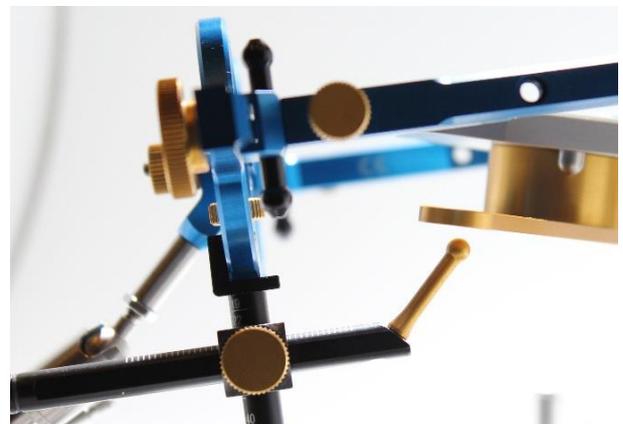
Adjust the face bow depth measured with the reference point indicator P on the reference point indicator T (with the silver adjustment ring). The reference point indicator T is attached to the face bow by means of magnetic retention.



When working with the Condylograph *comfort* Set I, the individual reference point indicator is used instead of the magnetic reference point indicator T. Move the individual reference point indicator into position T and calculate the depth to set by dividing the depth in position P by factor 1.15. This value must be set on the reference point indicator without changing the face bow height that was measured on the patient. Subsequently, fixate the reference point indicator on the face bow using the upper clamp screw.



Lower the upper section of the transfer stand by turning the adjustment screw, until the reference plane adjustment reed slightly touches the anterior ball of the reference point indicator.



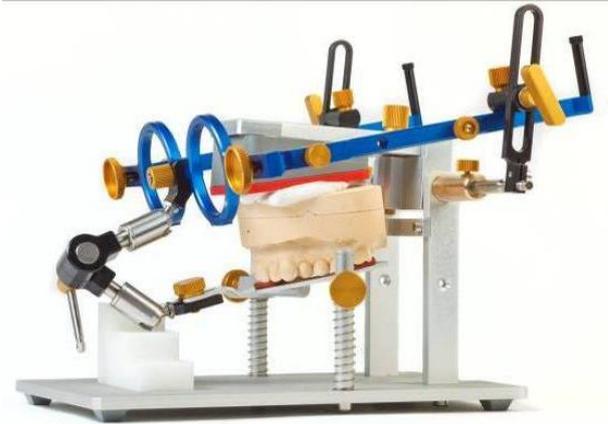
The adjustment reed may slightly touch the reference point indicator but must not push it downwards.



Remove the reference plane adjustment reed and the reference point indicator. Now you can insert the upper cast into the corresponding imprints in the bite fork. After closing the transfer stand, you can analyze the distance between the upper section and the model. Choose the best-fitting block. Make sure that the layer of plaster is as thin as possible. This will minimize the distortion effects of plaster expansion.

Open the transfer stand and fit in the distance block, with a mounting plate already attached. Moisten the model, and make sure to apply an adequate amount of plaster on the mounting plate and the model. Close the transfer stand, and allow the plaster to harden, according to the manufacturer's instructions.

Now you can remove the model from the transfer stand and insert it into the articulator, for mounting the lower jaw model.



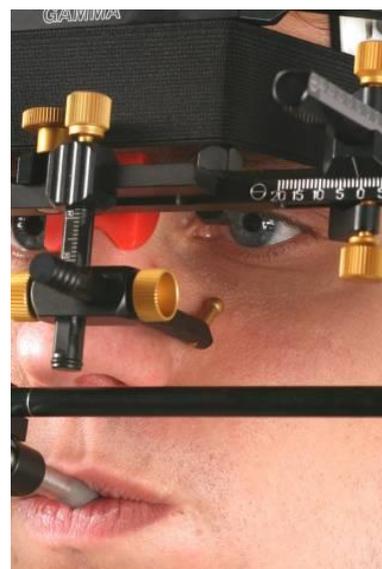
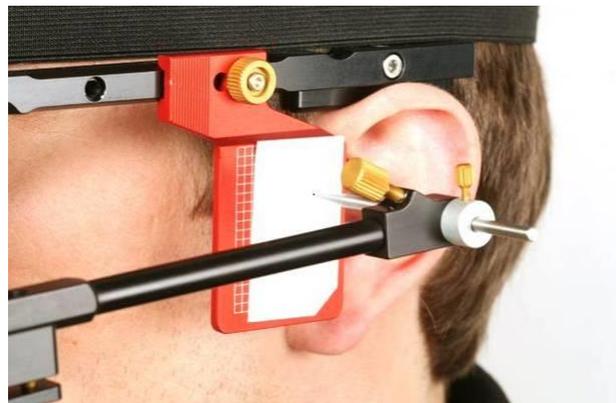
5.4.2 Using Condylgraph Set



Mounting the upper jaw model in the articulator according to the kinematic (exact) hinge axis and individual reference plane, can also be carried out using the Condylgraph set (04-GCR309).

With the Condylgraph face bow, you can localize both the right and left hinge axis points directly on the patient and mark them on writing labels stuck to the red flags.

In addition, the anterior reference point is marked with the reference point indicator. With these three points (anterior reference point, right and left hinge axis points) you can create a reference plane with a zero-line (hinge axis in Reference Position), which will be transferred into the articulator as follows:

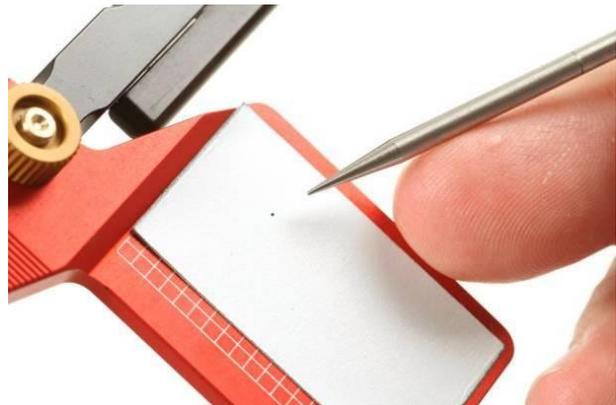


The bite fork must be attached, with the impressions exactly positioned on the teeth. Then, connect the bite fork to the upper face-bow.

Please check that all of the face-bow screws are tightened correctly. Then the retention strap can be opened, and the face-bow should be carefully pulled away from the patient, forward and down.



The red flags, marked with the axis points, can be mounted.



Then mount the axis indicator holder to the upper face-bow and fix and adjust the short axis pins to the marked axis point.





Now the red flags may be removed.



Before inserting the face-bow on the transfer stand, the glabella support must be removed.



Centering the model in the articulator:

The slide on the distance ruler must be moved completely to the end, and then fixed.



Insert the ruler on one side by attaching the slot of the ruler onto the corresponding needle of the axis indicator holder.

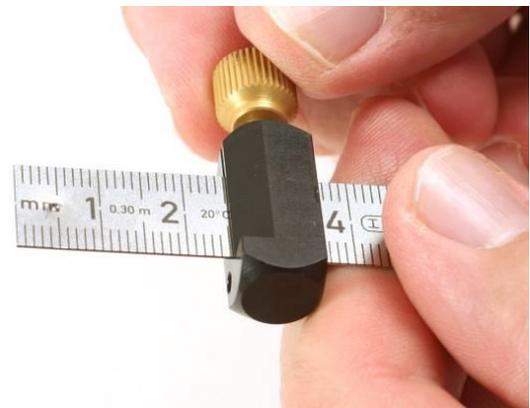
Now you can read the distance to the other side on the 2 mm scale of the ruler.



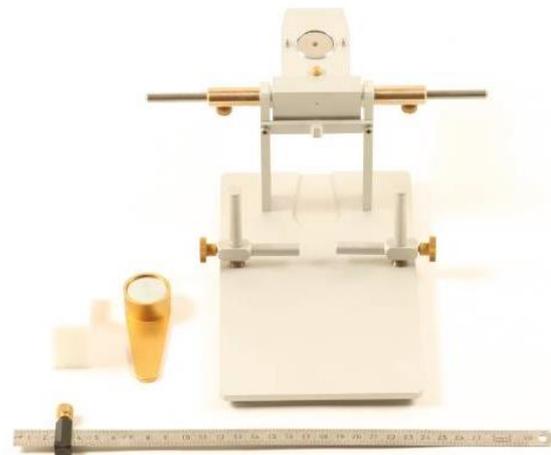
It is important to use the correct measuring edge.



The slide on the ruler has to be positioned exactly on the 1 mm scale, according to the measured value, and then fixed there.



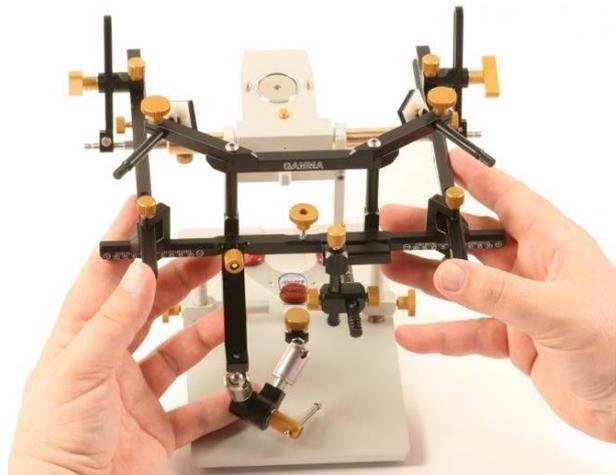
Preparing the transfer stand: the attachment screws of the two axes (brass elements) must be loosened, so that the axis springs push them completely to the ends. The bars of the built-in bite fork support must be moved completely to the bottom. The height setting of the upper section is turned to the top.



The distance of one axis is set and fixed with the previously centered ruler. The other axis remains open.



Remove the glabella support. Insert the face-bow with the axis pin into the bore of the open axis, and move it towards the center, until it is possible to hook in the fixed axis of the other side.



The second axis can now be locked. The two axes must be positioned in equidistance.

The face-bow is now resting on the bite fork joint, propped up on the white pedestal support. Carefully move the bars of the bite fork support upwards to the bite fork, for further stability.



The reference plane adjustment reed is fixed on the upper section of the upper jaw transfer stand by means of magnetic retention.



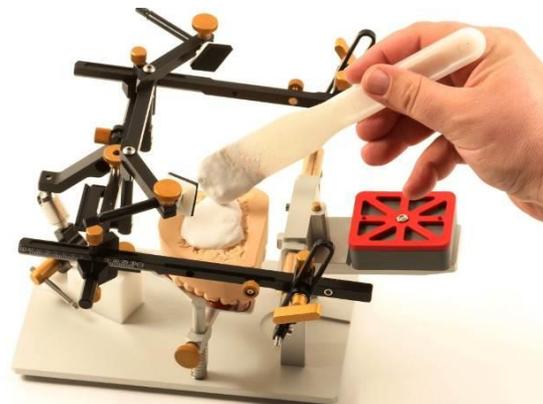
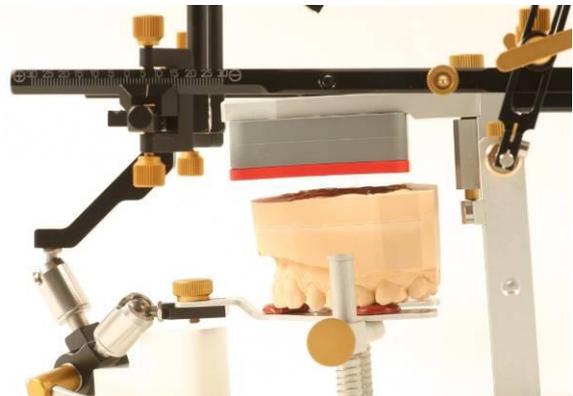
Lower the upper section of the transfer stand by turning the adjustment screw, until the reference plane adjustment reed slightly touches the ball of the reference point indicator.



Remove the reference plane adjustment reed and the reference point indicator. Now you can insert the upper cast into the corresponding imprints in the bite fork. After closing the transfer stand, you can analyze the distance between the upper section and the model. Choose the best-fitting block. Make sure that the layer of plaster is as thin and even as possible. This will minimize the distortion effects of plaster expansion.

A mounting plate is fixated to the distance block using the 2.5 mm Allen key and nut. Open the transfer stand and fit in the distance block. Moisten the model, and make sure to apply an adequate amount of plaster on both the mounting plate and the model. Close the transfer stand, and allow the plaster to harden, following the manufacturer's instructions.

Now, you can remove the model from the transfer stand and insert it into the articulator, for mounting the lower jaw model.



5.5 Mounting the lower jaw models in the articulator

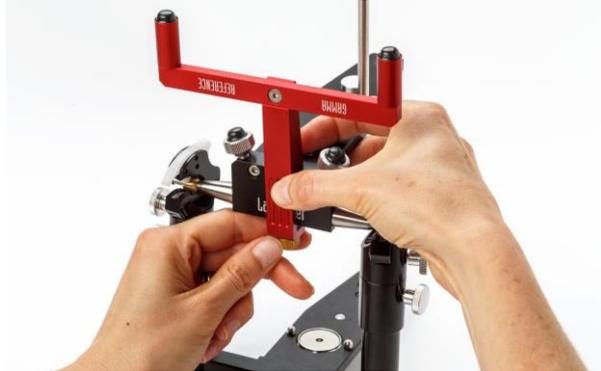
Mounting the lower jaw, relative to the axis, is carried out in the articulator. To achieve a stable position of the articulator upside down and to avoid errors due to manual handling, attach the mandible mounting clamp (06-230566) to the upper part of the articulator.

Lock the articulator in centric and place it upside down on the table; then place the registration on the upper jaw model carefully.

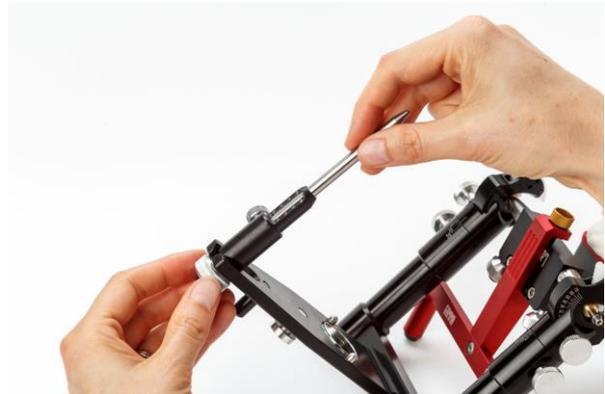
Insert the lower jaw model into the registration imprints.

By examining the central marking area of the articulator, you can estimate (or better, measure) to what extent the occlusion is locked by the centric record.

The incisal pin must be pulled out to twice the amount indicated, starting at the zero line (locked).



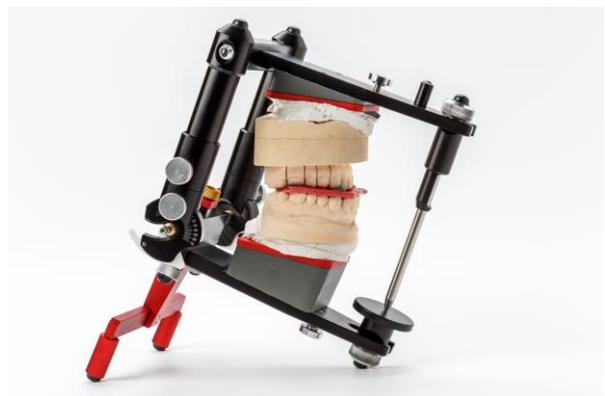
Remount the incisal pin.



Select the distance block for the lower jaw in the same way as for the upper jaw. Open the articulator and insert the distance block with a previously attached mounting plate.



Moisten the model and apply an adequate amount of plaster on both the mounting plate and the model.



Close the articulator and allow the plaster to harden, following the manufacturer's instructions.



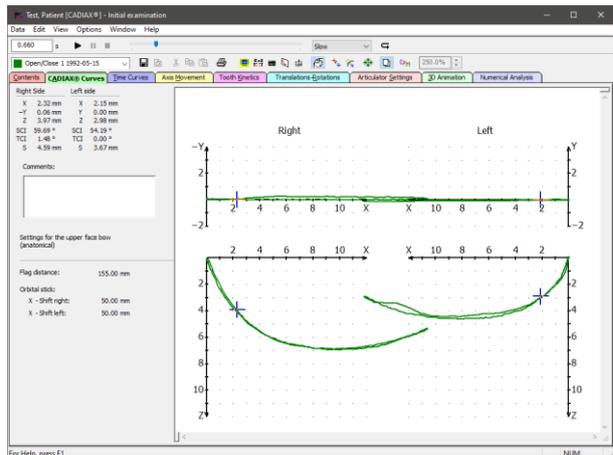
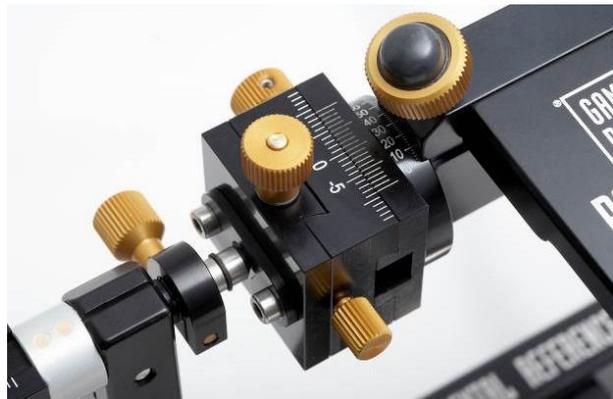
6 CPV (Condylar Position Variator)

The Condylar Position Variator CPV is used for repositioning jaw models that have been mounted in the articulator. The variator is synchronized with the articulator, so that the models can be transferred directly.

Typical fields of application are the controlled repositioning of the mandible as per the requirements of splint therapy or functional diagnostics.

The setting of the lower jaw position can be adjusted with the specifically constructed condylar housings of the device.

The coherent construction of the Reference system makes it possible to adjust the coordinates of the CADIAX system records directly on the scale of the CPV.



Unlocking of axes:

Each setting housing of the CPV has four screws. Two screws are for adjusting and shifting the Vernier scale in horizontal (X) and vertical (Z) direction. Additionally, there are two fixing screws (A and B) to fix the axes independently of one another.

The transversal axis (Y) can be opened with clamp C.



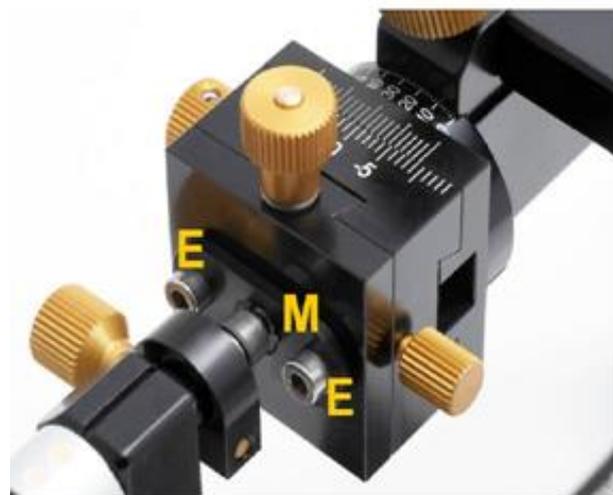
Zero setting:

Adjust all scales of the CPV to zero.

As appropriate check the zero-position with the Reference calibration key. If the calibration does not show satisfying results (clearly visible gap during examination with calibration key) it is necessary to adjust the device exactly and following the instructions (see below).

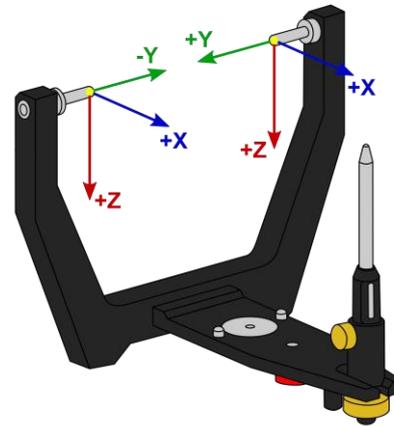


In case the results of the adjustment of the unit are not satisfying despite precise setting of the scales, it is possible - with the calibration key closed - to unscrew the lateral adjustment plates with an Allen key (included in delivery) and then newly adjust and fix them.



Setting the lower jaw position:

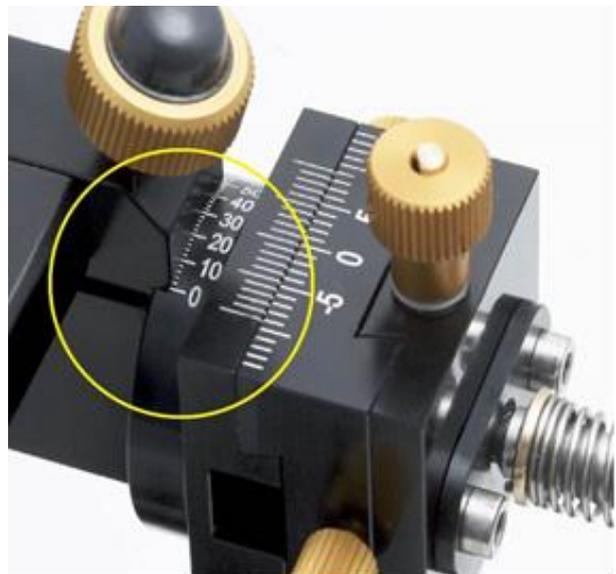
There are two possible ways for altering the position of the lower jaw.



Method A: X/Y/Z offset

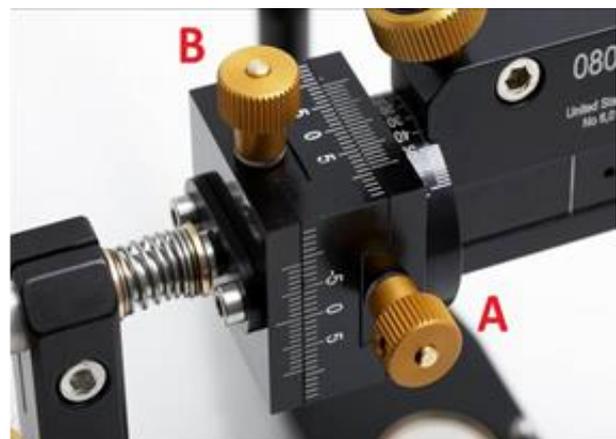
First, set the inclination of the condylar housings to zero.

Determine the desired lower jaw position of the hinge axis with the articulator coordinate system in mm for the left and the right axis. (X/Z values for right and left, and Y for transversal shift)

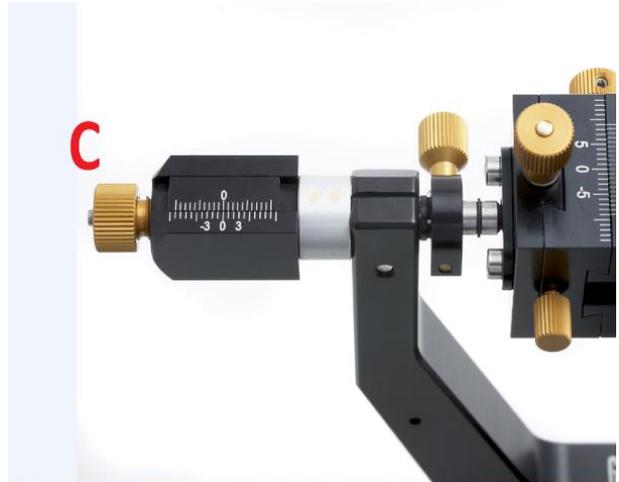


Set the X-value (protrusion/retrusion) with adjustment screw **A** at the back side of the housing. The setting can be read on the Vernier scale at the top of the housing. A positive value indicates a setting in protrusive direction (LJ forward direction), a negative value stands for a backward positioning (retrusion).

Setting of Z-value (distraction/compression) is made with screw **B** at the top of the housing. The setting can be read on the Vernier scale at the back of the housing. A positive value of the Z-axis means distraction (LJ downwards), a negative value stands for a cranial positioning (compression).



Y-value is set with screw **C** and can be read directly on the Vernier scale of the transversal axis. Positive values mean a movement of the LJ position to the right side, negative values mean a shift towards left.



Method B: SCI angle and protrusion distance

With method B, the actual SCI values of the patient are used for setting the condylar housings.

Determine the arbitrary lower jaw position in mm, using the protrusion value of the hinge axis for the left and the right side of the joint.

The value is set with screw **A** – located at the backside of the housing – and can be checked on the Vernier scale of the housing.

The transversal shift (Y) can be adapted analogous to the setting in method A.



After having finished the setting the screws A, B and C need to be fixed again on both sides.

For transferring the new position of the mandible into the articulator, prepare a bite registration in the variator. Please note that in order to preserve the anatomically fixed relation between lower jaw model and hinge axis, the upper jaw model must be remounted. Use the bite registration to mount the upper jaw model to the lower jaw model in the articulator.



7 Maintenance and cleaning

Clean the articulator system and face bow gently and without using solvents. For a long-lasting function of the articulator it is not necessary to use lubricants.

The instruments should not get in contact with strong acids, avoid cleaning it in an ultrasonic bath. Do not use corrosive liquids, scrubbing brushes, wire brushes or similar materials!

Only use cleaning agents suitable for disinfecting and cleaning light alloys. (The reaction times are listed in the manufacturer's instruction.)

Sterilization must be carried out in an autoclave: 5 mins. at 134°C, 20 mins. at 120°C

Preparing for use:

Bite fork:

Disinfect in a disinfecting tank or use disinfectant spray. Clean the registration material off the bite fork. If a thermoplastic material has been used, it is advisable to place the bite fork in a refrigerator. The registration material is then easier to remove from the bite fork. Sterilize in an autoclave.

Glabella support:

Spray the nasion with disinfectant. Wash off any residues under running water. May be autoclaved but is not absolutely essential.

Porus supports:

Unscrew the porus supports and immerse them in disinfectant. The porus supports are best cleaned with a steam cleaner. To steam the hole, hold the nozzle of the steam cleaner in the acoustics hole and spray it clean. May be autoclaved but is not absolutely essential.



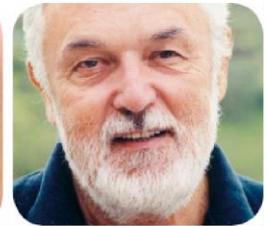
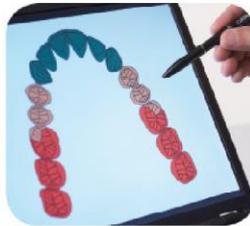






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