



AD2 LOWER CAST MOUNTING MANUAL

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Lower Cast Mounting

The next step after mounting the upper cast is to mount the lower one.

The following materials are necessary for this procedure (Fig.1):

1. Articulated upper cast
2. Lower cast
3. Centric relation records – blue wax
4. Mandibular mounting stand
5. Incisal table (green)
6. Mounting plate
7. Fast-setting, white mounting plaster



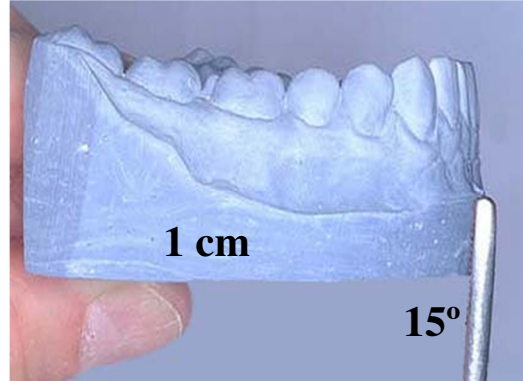
Figure 1. Materials for mounting the lower cast

Steps for mounting the lower cast.

Step 1

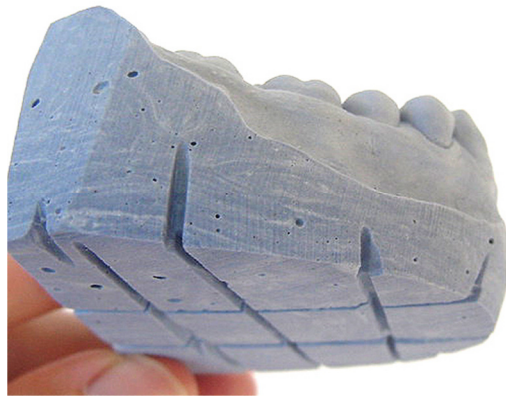
Trim the base of the lower cast leaving it parallel to the occlusal plane and not more than 1 cm. high.

Trim the perimeter of the cast at a 15° angle, to avoid cutting teeth and the gingival area.



Step 2

Make notches on the base and angled areas so there is greater retention with the mounting plaster.



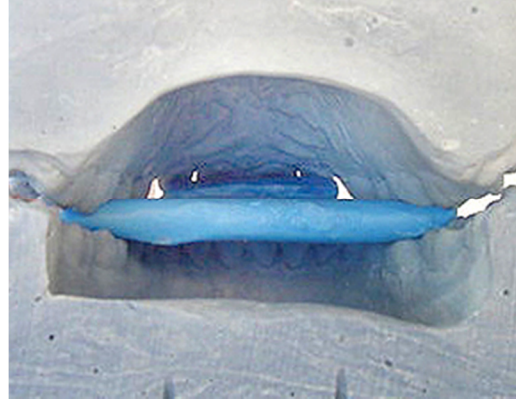
Step 3

Hold both models with the blue wax between them to check if they fit the wax bite perfectly.



Step 4

Check that the wax does not contact the hard palate or soft tissue.



Step 5

Lock the articulator in centric – close centric lock and centric latch.

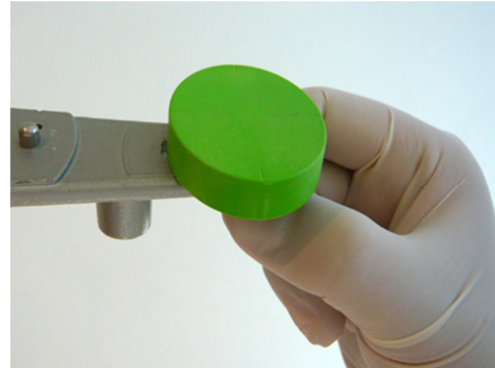


Step 6

Remove the mounting fixture (black) and replace it with the green incisal table that will permit lateral movements.

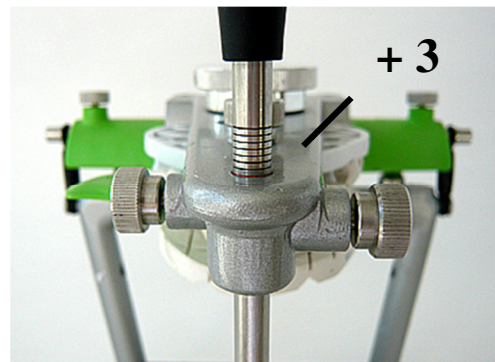
Either table could be used, but the green one allows for lateral movements of the articulator.

Place the mounting plate on the lower frame of the articulator.



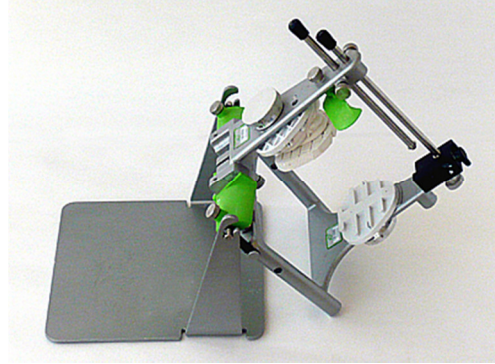
Step 7

Set the incisal pin at the red line (should be even with the top of the articulator), three (3 mm) lines above zero. This raises (opens) the top of the articulator 3 mm.

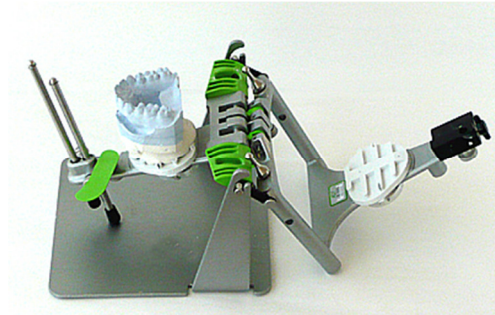


Step 8

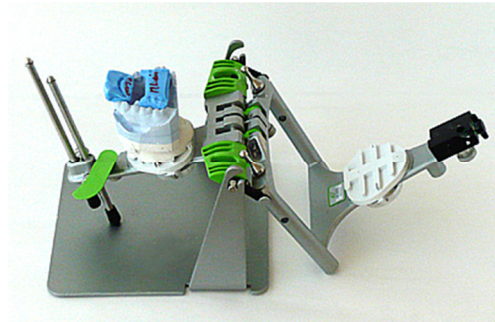
Insert the lateral screws of the analogs in the slots of the mandibular mounting stand. The top of the articulator should be over the base of the mounting stand.

**Step 9**

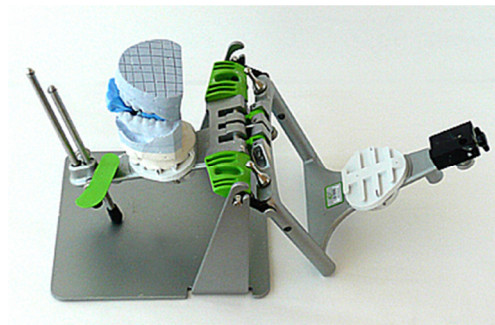
Rotate the upper frame back 180° and place the upper cast on the split cast wafer. Use the posterior pin to support the upper member of the articulator.

**Step 11**

Place the blue wax bites and check again that they are well adapted and that they do not come in contact with soft tissue.

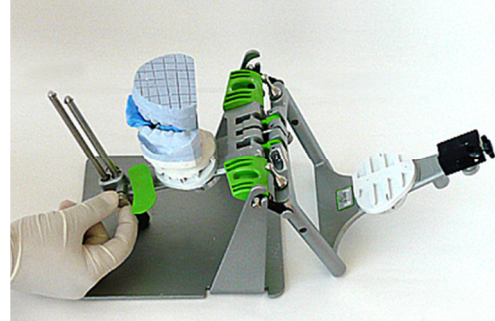
**Step 11**

Moisten the lower cast and place it carefully into the wax bites. Check for adaptation and stability.



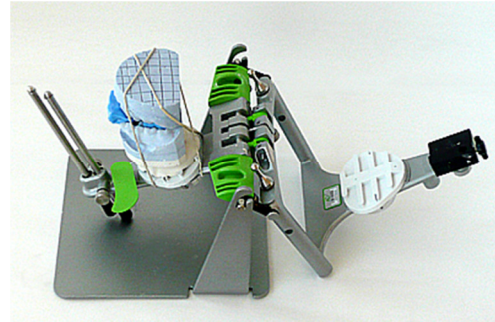
Step 12

Adjust the height of the posterior pin so that the base of the lower model is parallel to the table top. This will help to keep the mounting stone on the lower model.



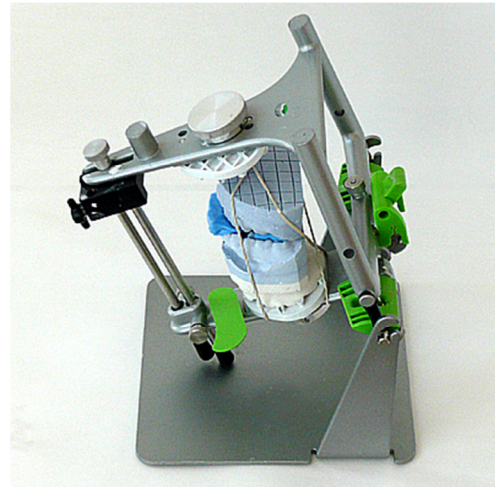
Step 13

If necessary, cross two elastic bands to hold the lower model in place in the wax bites.



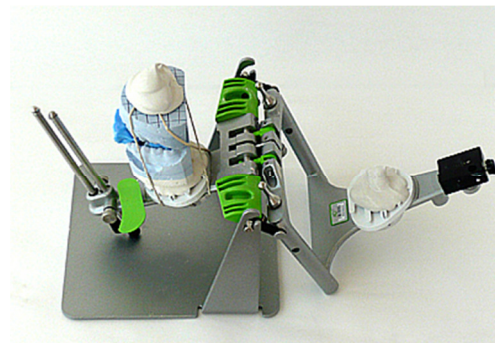
Step 14

Close the lower frame of the articulator until the incisal pin touches the incisal table. Check to see how much mounting plaster is needed to attach the model to the mounting plate.



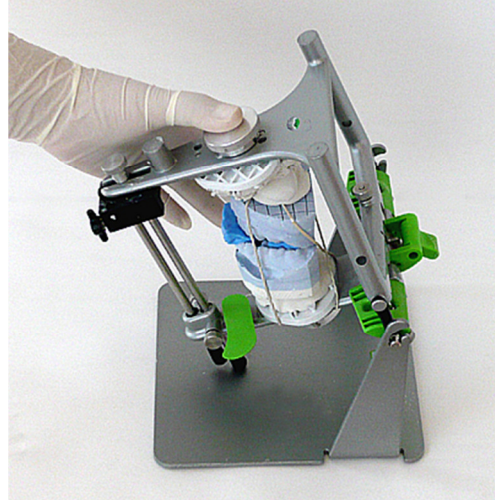
Step 15

Open the articulator and put some plaster (a creamy mix) on the mounting plate and on the lower cast.

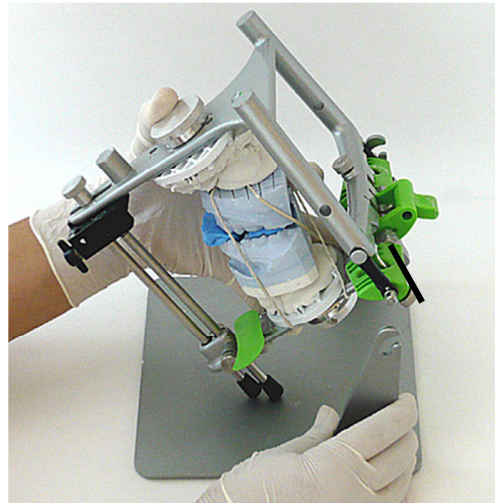


Step 16

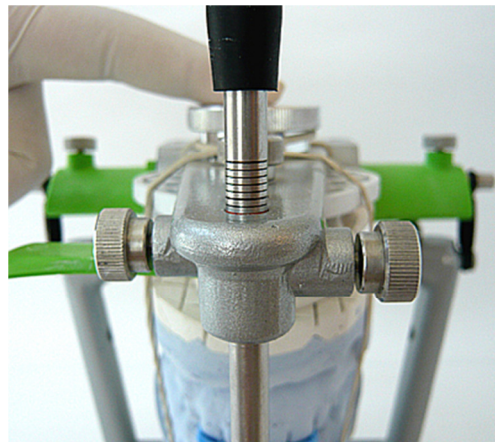
Close the articulator and make sure the incisal pin contacts the incisal table.
Maintain this position until the plaster has set (approximately 5 min.)

**Step 17**

Once the plaster has set, remove the articulator from the mounting stand by gently lift it up and posteriorly.

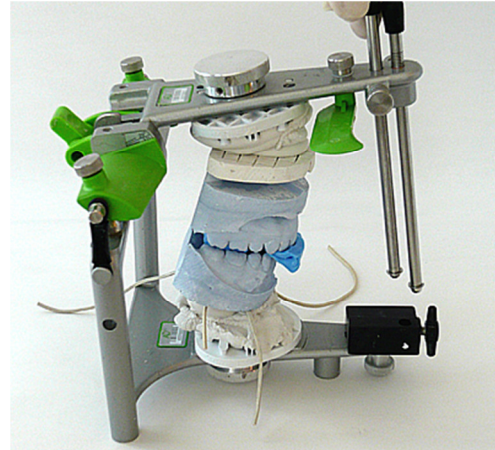
**Step 18**

With the blue wax bite in place, check that the incisal pin is in contact with the incisal table and that the pin height is + 3mm (red).



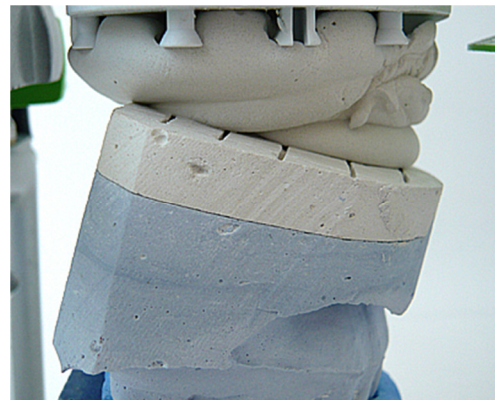
Step 19

Keep the wax segments in place, cut the elastics (if used). Hold the upper cast in place and open the articulator.



Step 20

Split cast check the accuracy of the lower mounting. Take the upper model off, remove the wax bites, then reseal the wax bites and seat the upper model into the wax bites. Slowly close the articulator until the split cast wafer and upper model come together fitting exactly in the grooves. If it does not fit or the model moved to make the fit – then the mounting is incorrect and the lower model must be remounted.



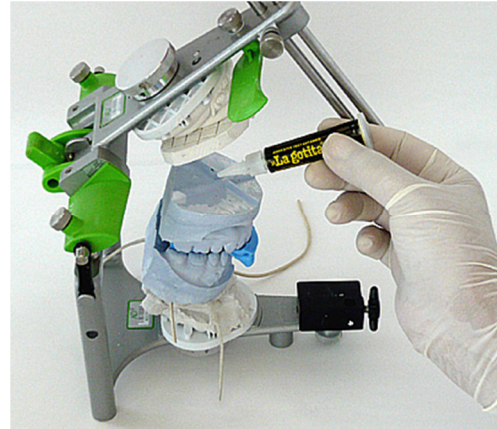
Step 21

If there is a gap between the upper cast and split cast, the lower cast must be mounted again. Check the fit of the wax, looking for irregularities on the cast's occlusal surfaces, etc.



Step 22

If the split cast wafer and the upper cast fit perfectly, without any interferences, then bond them with instant adhesive or “super glue”.



Step 23

Remove the wax and the upper and lower casts from the articulators. For a neater finish, add more mounting plaster, making sure not to surpass the mounting plates or the cast's gingival tissues.

Then place the models on the articulator. Open the articulator and raise both anterior pins. Slowly close the articulator until first contact of the teeth (usually one posterior on one side). This is first contact in CR.

