



TOPICS OF DENTURE

Addition 1 : Impression procedures for edentulous alveolar ridges based on anatomical landmarks

Addition 2 : How to use the remounting jig

by Tadashi Sotokawa

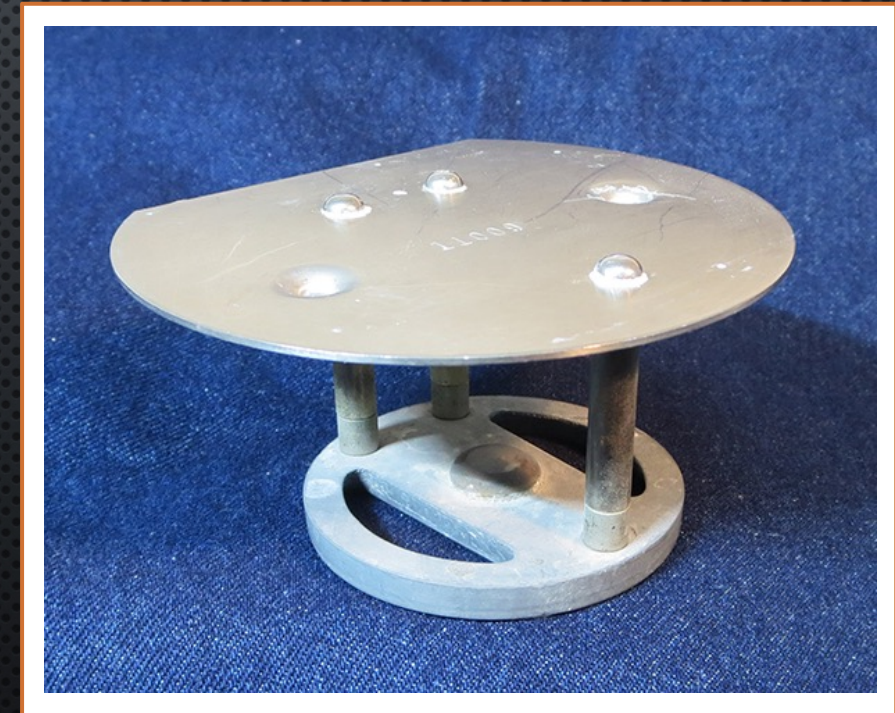
(Topics of Denture Addition 2)



HOW TO USE THE REMOUNTING JIG

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How to use the remounting jig

1. What is a remounting jig?

The remounting jig is one of the components that come with the articulator. It is used to place plaster on its table, mark the occlusal surface of the denture prosthesis on the plaster, and mount the denture removed from the plaster model in place on the articulator.

This section describes its use.

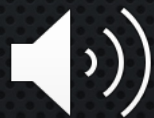


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2. Denture and cast after polymerization

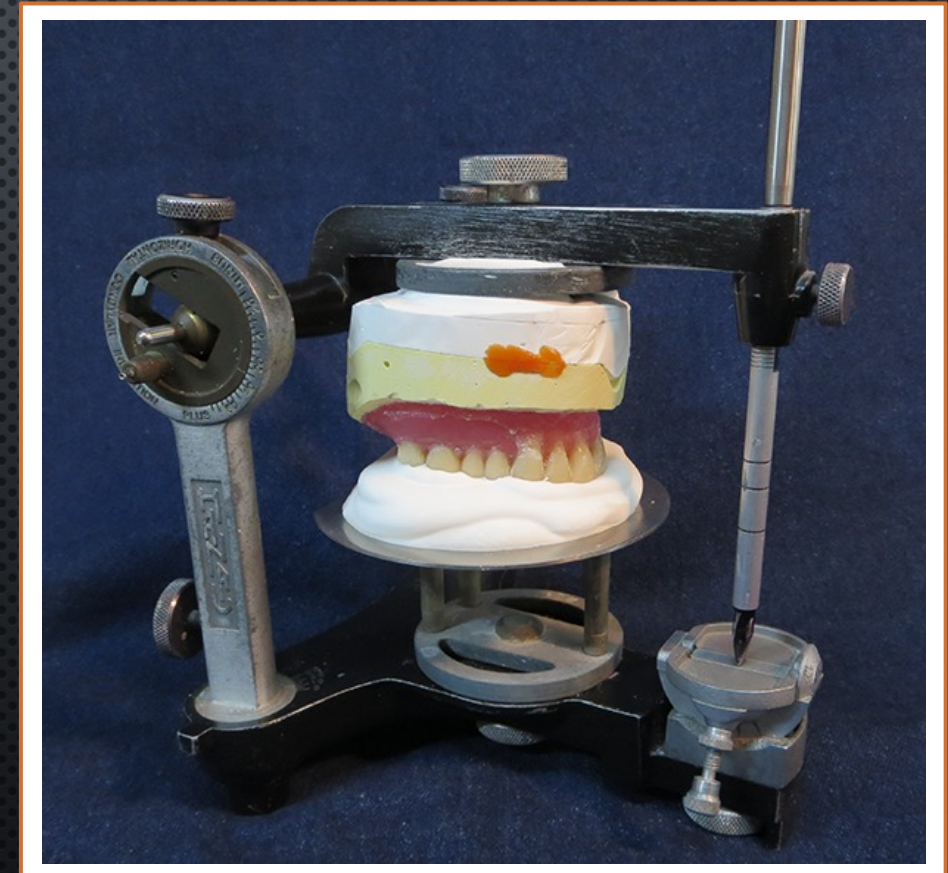
As shown in the photo on the right, the post-curing maxillary denture is removed with the working model attached.



How to use the remounting jig

3. Recording of the occlusal surface of a polymerized denture

The post-curing denture and cast are returned to the articulator. The mixed plaster is placed on the table of the remounting jig. As shown in the photo on the right, the occlusal surface of the post-curing denture is gently placed on the plaster before curing. As a result, the occlusal surface of the artificial tooth is marked on the plaster.



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4. Recording cast of denture occlusal surface

As shown in the upper photo on the right, an occlusal surface recording cast taken off the table of the remounting jig. The chart number and date taken will be noted on the surface of the plaster. As a result, its maxillary denture can be mounted to the articulator at any time.

As shown in the lower photo on the right, the back of the occlusal surface recording cast. The cast number of the remounting jig used is marked.



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5. Denture trimming and polishing

As usual, after polymerization, the denture is removed from the plaster cast and trimmed and polished.

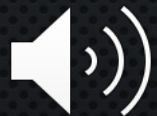


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6. Preparation of casts for mounting

The undercut area of the denture is blocked out by filling it with wet paper. As shown in the upper photos, dentures are boxed by utility wax and plaster is injected into the mucous membrane surface.

As shown in the lower photos on the right, the cast is made for mounting.



7. Articulator mount for maxillary denture

As shown in the photo on the right, that maxillary denture is placed on the occlusal recording cast of the remounting jig and mounted in place on the articulator.



8. Equipment to be prepared for denture fitting

As shown in the photo on the right, the equipment to be prepared for denture fitting.

The following is to be done on the day of denture fitting.

Bite taking in centric relation and protrusive position of mandible

Mount the mandibular denture in the articulator

Measure sagittal condylar inclination

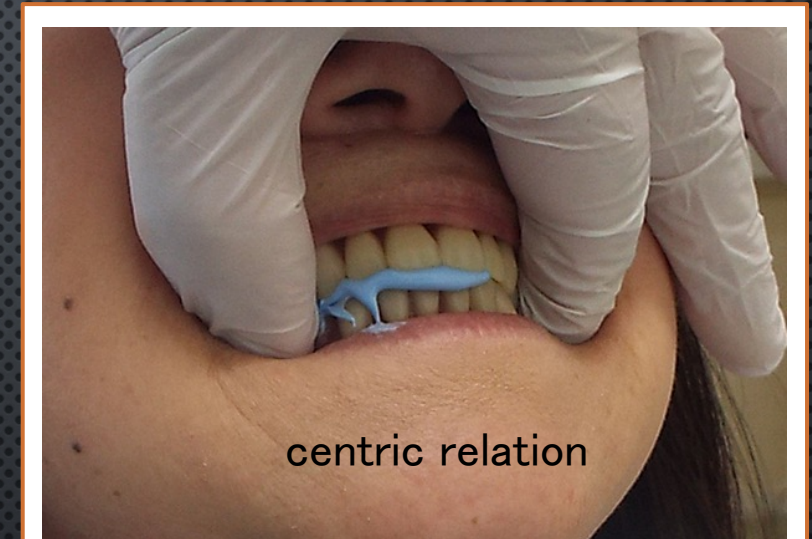
Occlusal adjustment of denture

Denture fitting and explanation of denture management



9. Occlusion taking in central and anterior mandibular position

After trimming and polishing, the denture is used to obtain the occlusion in the centric relation and protrusive position of mandible.



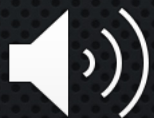
10. Remounting of polymerized dentures

Remount the mandibular denture in the articulator using a centric relation occlusal record.



11. Measurement of sagittal condylar inclination

The sagittal condylar inclination is measured using occlusal records of the protrusive position of mandible.



12. Occlusal adjustment

Since full dentures are supported by elastic mucous membranes, precise intraoral occlusal adjustment is not possible. Therefore, the occlusal adjustment of complete dentures is performed on the articulator in one of the following three stages.

Wax denture stage

After polymerization and before removal from the cast

After post-trimming and polishing stage

The last of those steps can provide the patient with a denture with the least amount of error.

Occlusal adjustments are made by selective and automatic grinding. At this time, we sometimes find out how large the error of occlusal grading or polymerization shrinkage caused by temporary dentures can be.



13. Denture fitting and explanation of management

The use of remounting jig adds complexity to the process. However, dentists can provide patients with highly accurate complete dentures through the use of remounting jig.





How to use the remounting jig

References

- 1) Boucher, C.O., Hickey, J.C. and Zarb, G.A. :Prosthodontic treatment for edentulous patients 7th ed., 107~157, C. V. Mosby Company, Saint Louis, 1975..

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