Co/Cr Partial Dentures – Metal Framework Jaw Registration

Inspect the articulated metal framework with added wax rims on the working models

Reassess the occlusion prior to inserting the denture, making a note of the reference teeth in ICP

Reconfirm the dentures seat fully and the metal components are well fitting

Insert the upper denture and assess the stability, retention and support

Correct any over or underextensions, relieve the frenulum areas and adjust the labial/ buccal thickness of the wax rims

Remove wax from the palatal aspect as it is often bulky

Orientate the posterior occlusal plane parallel to the alar-tragus line

Orientate the incisal plane parallel to the inter-pupillary line

Insert the lower denture and assess the stability, retention and support

Correct any over or underextensions, relieve the frenulum areas and adjust the labial/ buccal thickness of the wax rims

Remove wax from the lingual aspect as it is often bulky

Cut back the heels on the upper and lower rims until there is an even bilateral occlusion intra-orally

This stage is similar to the jaw registration stage except with a metal framework under the wax.

Check:

- 1. Adaption.
- 2. Flange extensions.
- 3. The denture bearing areas of the casts are free from laboratory-induced defects.
- Stability: rocking at this stage will be caused by poor adaption of the wax, poor mucosal coverage and flange overextensions.
- Retention: poor retention is a result of over/ underextensions and an inaccurate fit.
- · Support: will be provided by rest seats.

Use a heated wax knife to remove and add wax as necessary.

Aim for an average naso-labial angle of 90-100°. Judge the aesthetics and lip fullness.

This improves tongue space and phonetics.

A Foxes bite plane or a wooden spatula can be used.

At rest, 2mm of wax should display. Inform the patient the pink wax will be white tooth at delivery, pass them a mirror and ensure they are happy with the amount of tooth display at rest and when smiling.

Use a heated wax knife to conform the labial aspect to the patient's skeletal pattern.

Judge the aesthetics and lip fullness.