Partial Dentures – Jaw Registration

Check the record blocks on the study models.

Assess the fit, extensions and occlusion

Assess the upper record block inside the mouth.

Assess the stability, retention and support

Correct any over and underextensions with a heated wax knife

Adjust the labial/buccal thickness

Adjust any under/over extensions and relieve the frenulum areas

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

Orientate the incisal plane parallel to the inter-pupillary line

Remove wax from the palatal aspect as it is often bulky

Assess the lower record block inside the mouth

Adjust the labial/buccal thickness. Remove wax from the lingual aspect as it is often bulky

Correct any over/under extensions

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

Ask the patient to close in ICP with both rims in place, check if the reference teeth are separated

The rims should not be rocking on the casts. Minor faults can be corrected chairside, but major faults would require new impressions and to remake the record blocks.

- Stability: Rocking may be caused by excess plaster on the working model, poor trimming of the cast, poor mucosal coverage and flange overextensions.
- Retention: poor retention is a result of over/ underextensions and an inaccurate fit.
- · Support: good mucosal coverage is necessary.

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

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

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. The older population tend to display more lower teeth when smiling.

This improves tongue space and phonetics.

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

Judge the aesthetics and lip fullness.

Trim any premature contacts until the reference teeth contact as before.