TECHNIQUE

1) The ridge or tissue side of the Western Hinge is painted with green-paint on investment.

2) Preparation of the stone model is as follows: relieve undercuts as usual; relieve ridge for retention by staying about 1/4" (5 mm) to the posterior of the tooth.

3) Duplicate the model in partial denture investment. Design and wax case completely with exception of area where hinge is to be placed.

4) The finishing line adjacent to hinge must be at least 1/16" (2 mm) in thickness so that acrylic saddle can be finished flush with the metal.

5) With ridge side of the hinge down (green side), set the head of the hinge in contact with the tooth, and the tail in proper relationship to the posterior end of the ridge. Raise the tail of the Western Hinge about 1 mm above the ridge.

6) Attach the hinge to the waxed case with wax, being sure that the wax does not run under the Western Hinge.

7) Wax saddle retention and encase tail of the hinge to the retention. Leave the shank of the hinge exposed at least 1/16" (2 mm) between the head and the encasement of retention.

8) Because the saddle is separated from the case by the hinge, it is necessary to sprue both the saddle and the case (see sketch below). DO NOT OVERHEAT THE ALLOY.

9) After casting, sandblast case and check for any obstructions which could prevent the free movement of the Western Hinge.

10) Finish case, sandblast and deplate with electrolytic solution. DO NOT POLISH CASE.

11) Cut sprue leads from bar saddles.

12) Check if the hinge has any movement. In case the hinge does not move, DO NOT ATTEMPT TO MOVE BY FORCE! Proceed as follows:

13) Hold case and warm hinge over a bunsen burner flame. Place 2 or 3 drops of penetrating oil (3 in 1 or similar) in the hinge and warm again to allow oil to break oxide film.

14) Hold case and gently move saddle down. If the Western Hinge does not move, repeat step 13.

15) When hinge starts to move, work up and down very gently. Again, warm hinge over bunsen burner flame and add 1 or 2 drops of oil to hinge. Repeat to allow oil penetration.

16) Continue to work the Western Hinge in an up/down motion to free hinge from oxides. Remove oil residue in an ultrasonic cleaner.

17) After acrylic saddles are finished, warm metal adjacent to acrylic finishing line sufficiently so, when the saddle is forced down, the acrylic will compress against the wall of the hot metal.

18) The degree of movement in the hinge can be controlled by the amount of compression of acrylic saddle against the finishing line.

WARNINGS

The use of a respirator and a dust/fume collection system is required, see SDS for proper handling instructions.

Western Hinge is a prescription only device under the direction of a dental technician or dentist.

Western Hinge is intended for use by dentist and trained dental technicians. Do not use if patient is known to be allergic to any components of the alloy.

Remove partial denture before entering any MRI.

CAUTION: Wear OSHA approved eye protection recomended for torch melting.

Authorized representative in the European Community Manufacturer Caution

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Rev 4/2017
Form 5165WhDFU