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Universal Plunger Loc Attachment

Universal Plunger Loc Complete

Universal 7.5mm length TI plunger attachment.

Compatible with Low Passive and Swiss Loc NG.

1.5mm plunger, 7.5mm long, may be reduced to 4mm in length.

Plunger Tip 2mm long.

Complete attachment comes with extra delrin insert to allow easy servicing.



Universal Plunger Loc Processing Jig

Processing Jig. Sold individually.

Plunger Tip 3.4mm long



Universal Plunger Loc Male Only

Titanium plunger with Plastic insert



Universal Plunger Loc Twist Drill



Applications

Removable prosthetics such as Bar Overdentures, Removable Telescopic Crowns and Bridges, and Partial Dentures.

Specifications

Housing Diameter = 2.9mm

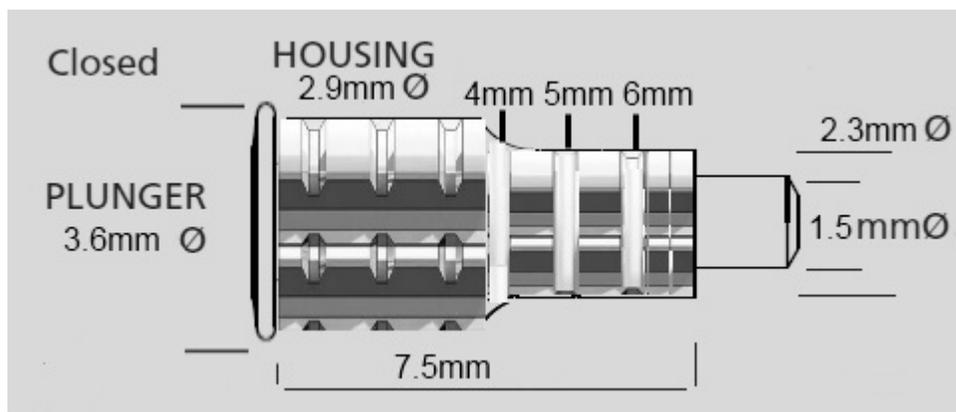
Plunger/Pin Diameter = 1.5mm

The pin diameter of the Universal Plunger Lock Attachment is the same as the SwissLoc NG and the Lew Passive Attachments.

Length = 7.5mm, but may be reduced to 4mm.

Length is measured from head of plunger to end of housing in a closed position.

Material: Titanium



Note:

**Do not pull the plunger pin out of the housing. Pulling the plunger pin out of the housing will destroy the internal plastic sleeve. If the plunger pin has been pulled out of the housing, it needs to be replaced by a new pin.

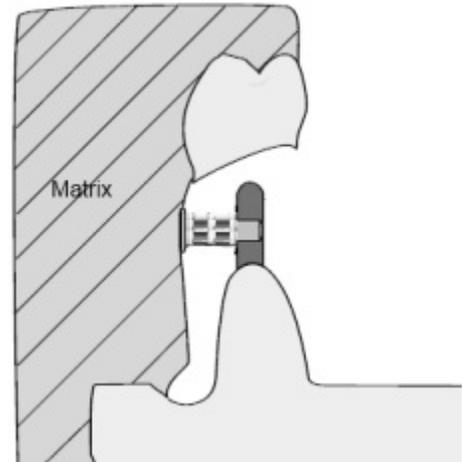
**The Universal Plunger Lock attachment is titanium and therefore not suitable for casting. Polymerize into acrylic resin, or bond into a secondary structure.

When reducing the length of the Universal Plunger Loc, cut at **slow speeds or with water coolant to avoid generating heat and damaging the plastic insert.

Technique

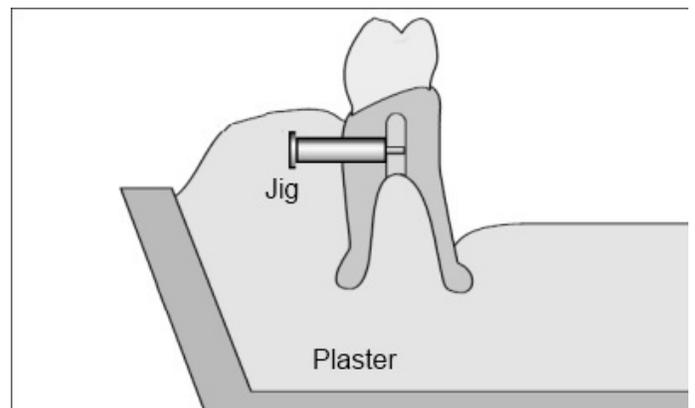
For removable partial dentures, wax the crown as usual. A milled lingual support arm and rest is designed into the abutment tooth crown. Wax--or place a pre-formed 0 degree, 1mm thick plastic pattern as holder for the Universal Plunger Lock attachment.

For overdenture bar constructions, use a 1.5mm reamer to pre-drill a hole into plastic or gold bar extension. Use a 1.5mm carbide to place the hole in titanium bar structures.



Utilize a silicone matrix of the tooth set-up to verify the position of the bar pattern as well as to determine the proper length of attachment needed.

After try-in and a passive bar fit verified, seat the wax denture over the bar. Make horizontal access holes in the buccal flange for processing jigs. Wax-up completely around the processing jigs. Flask the completed set-up, making sure that the processing jig is indexed in plaster/stone, and boil out.



Wax-up completely around the processing jigs. Flask the completed set-up, making sure that the processing jig is indexed in plaster, and boil out.



Seal any gaps around the processing jig and bar with liquid latex or Rubber Sep. Block out all undercuts as well as all attachments, cylinders, and screws. Block out the bar occlusally if resilient function is desired.

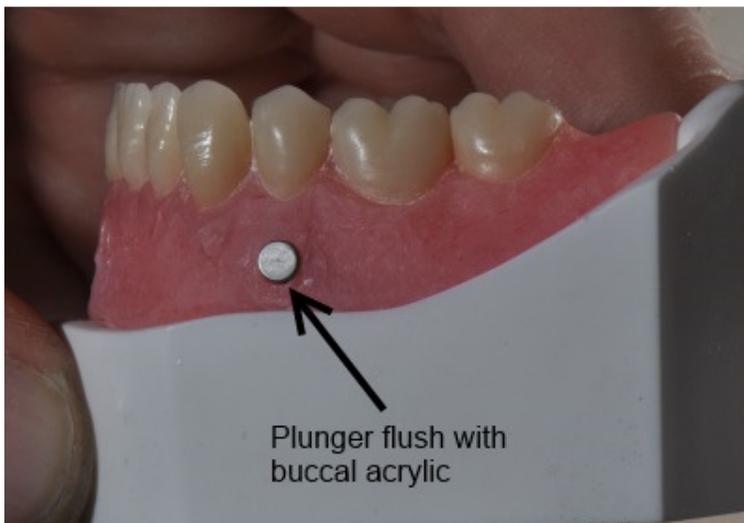
Process acrylic.



When processing on a master cast, do not remove the denture until the attachments are cured into position.

When processing on a duplicate cast, the denture may be removed, finished, and then seated on the master cast.

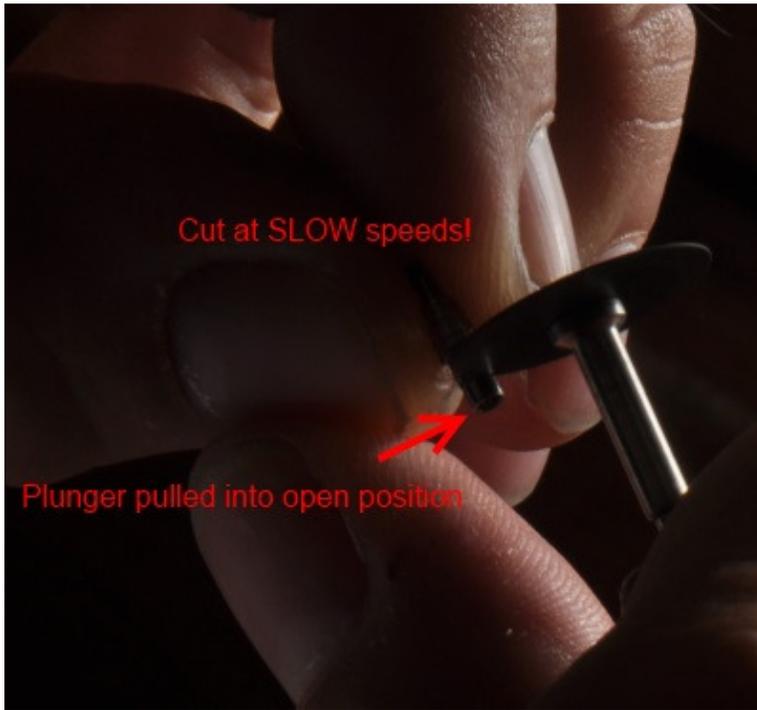
Remove the processing jigs by turning and pulling with pliers. Apply heat to the jigs to facilitate removal.



Place the Universal Plunger Lock attachments into the access hole created by the processing jigs.

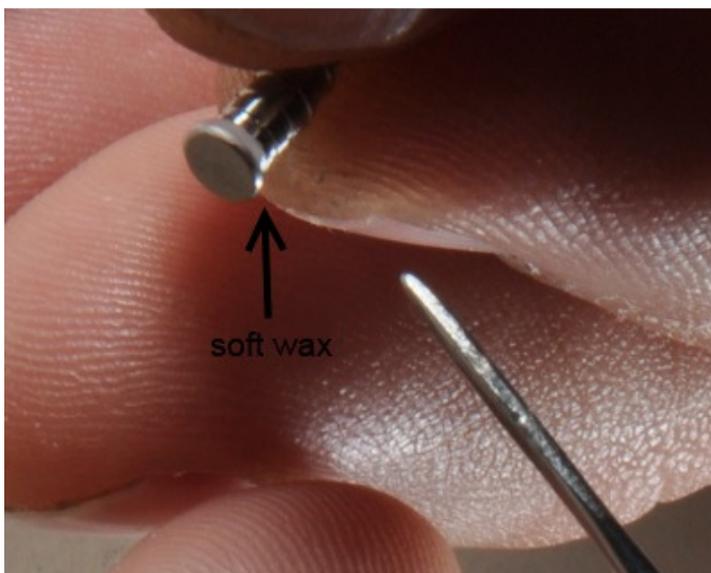
The attachments should fit loosely inside the access hole; however, acrylic may be reduced to facilitate placement. Place the attachments all the way into the hole of the bar.

The housing of the attachment should be flush with the buccal acrylic.



To shorten the attachment, pull the plunger into an open position and cut the plunger and housing together with a diamond disk.

Cut at **SLOW SPEEDS and/or with water coolant** to avoid distorting the plastic plunger insert.



Before placing the attachment back into the access hole, with the attachment in a closed position, **carefully seal the exit point of the plunger and housing with soft wax.**

The wax will prevent self-curing acrylic from getting inside the attachment. Seal any gaps between the attachment and bar, if necessary.





Insert the attachment back into the access hole of the buccal flange and all the way into the bar access hole. Make sure the attachment is fully seated, and apply runny auto-polymerizing acrylic around the retentive housing in the access hole. Cure in a pressure pot.



After curing, pull the plunger to an out position and finish the acrylic around the attachment.

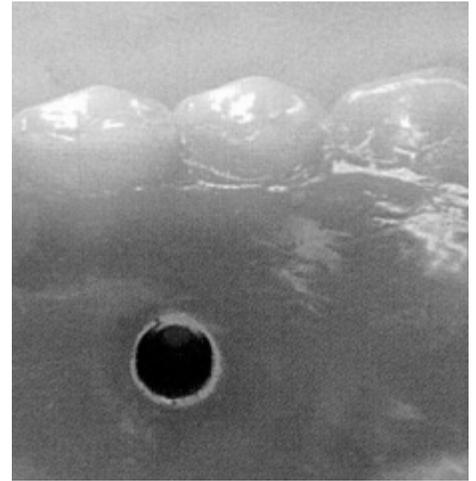
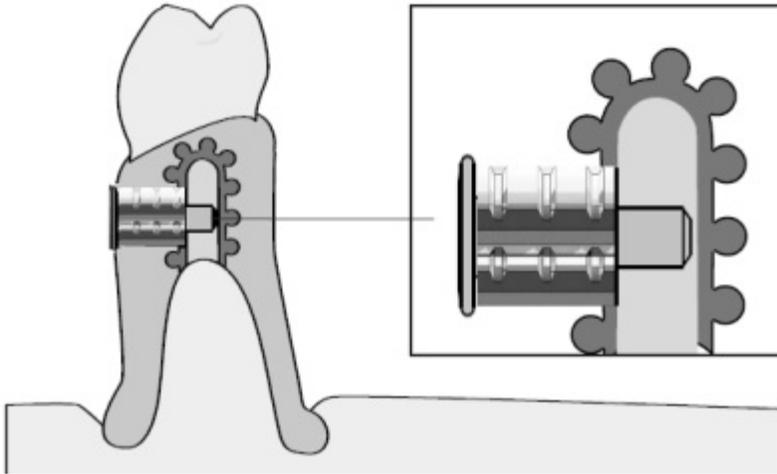
Create a slight mesial depression in the acrylic to facilitate removal by the patient.

The tip of the plunger pin may also be rounded and smoothed to facilitate insertion by the patient.

Secondary Structure Fabrication

On the master cast, place the processing jigs into the holes in the primary structure. Check for proper positioning and relieve undercuts. A thin layer of vaseline may be placed on the jigs to make removal of the pattern of secondary structure easier. Wax the secondary structure, adding retentions. Remove the pattern, check for fit on the primary structure, and make any adjustments needed.

Once the secondary structure is cast and finished, it should have a friction fit with the primary structure. The horizontal access hole should be visible through both the primary and secondary structures. Acrylic is processed in the usual manner, placing the processing jig in through the secondary and fully seated inside the hole in the primary structure.



A 1:1 mixture of Ceka site may be used to bond the Plunger Lock attachment into the framework, or the attachments may be picked up with a runny mixture of self curing acrylic.

Servicing

Servicing the Universal Plunger Loc is very simple.

If you need to replace a male plunger, or if a male plunger at any time has been removed entirely from the metal housing, a new Plastic Insert is required. Remove the broken plastic from the male plunger, and use an explorer or like instrument to remove the remaining plastic from inside the metal housing.

Push the narrow end of the plastic insert into the metal housing and then push the metal male plunger into the housing/insert. A second plastic housing is now included with all Universal Plunger Loc attachments to facilitate servicing.

