Screw-retained crown using the conical temporary abutment

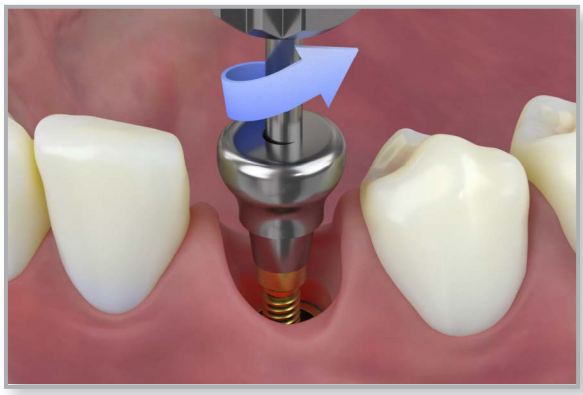
Use this technique for the fabrication of a multiple unit implant-supported, screw-retained hybrid in a partially or fully edentulous patient.

component options

- Conical temporary abutment
- Abutment screw
- .050" (1.25mm) hex driver
- Torque wrench

1 Remove the healing abutment

Remove the healing abutment using an .050" (1.25mm) hex driver. Make sure the prosthetic platform is free of bone and soft tissue.



2 Seat the temporary abutment

Seat the temporary abutment, engaging the conical grooves of the implant. Hand tighten the abutment screw using an .050" (1.25mm) hex driver.

3 Mark the abutment

Evaluate inter-occlusal dimensions, angulation, and tissue contour. Mark the abutment for the required vertical reduction and gingival contour.

Important:
Abutments with a post height less than 4.0 mm are intended for multi-unit restorations only.

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4 Modify the abutment

Remove the marked abutment from the site using an .050" (1.25mm) hex driver. Modify the abutment for vertical clearance and gingival margins using a carbide bur. An analog can be used as a handle during abutment modification.

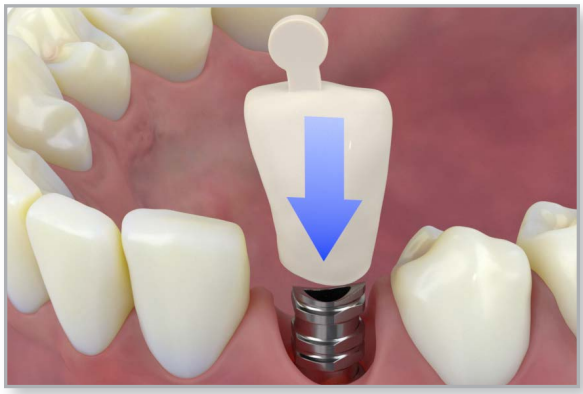
Note:
Replace the healing abutment immediately to prevent soft tissue collapse over the implant.

5 Seat the modified abutment

Verify the implant prosthetic platform is free of bone and soft tissue. Irrigate the internally-threaded connection of the implant and dry. Place the modified temporary abutment onto the implant using the abutment screw and an .050" (1.25mm) hex driver. Hand tighten.

6 Try in the shell crown

Try in the appropriate polycarbonate/shell crown and modify as needed.



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7 Create an access hole

Remove the abutment screw from the modified abutment and replace it with the block out screw. Create a screw-access hole through the shell crown allowing the block out screw to come through. Hand-tighten.

8 Fill the shell crown

Mix acrylic or another material of choice and place inside the shell crown. Position the shell crown over the block out screw onto the modified temporary abutment.

Note:
Undercuts on adjacent teeth should be blocked-out prior to this reline procedure.

9 Remove and polish the crown

Remove the block out screw and the relined shell crown. Place the screw-retained temporary crown onto an analog using the abutment screw. Contour and polish the temporary crown.

screw-retained crown using the Conical temporary abutment

10 Re-seat the crown

Make sure the implant prosthetic platform is free of bone and soft tissue. Irrigate the internal connection of the implant and dry. Try in the prosthesis to confirm fit and contour. Modify as necessary and polish after making necessary adjustments. Re-seat the prosthesis onto the implant and hand tighten the abutment screw using an .050" (1.25mm) hex driver.

Note:
Take a radiograph along the long axis of the implant to ensure the abutment is seated completely onto the implant.

11 Check and modify the temporary

Check the occlusion and contacts. There should only be light contact in centric occlusion and no contact in lateral excursions. Modify as necessary and polish after making necessary adjustments.

12 Tighten the abutment screw

Tighten the abutment screws to 20 Ncm using a calibrated torque wrench and an .050" (1.25) hex driver.

13 Fill the screw access channel

Place a resilient material of choice (gutta-percha, silicone or temporary filling material) into the screw access channel. This allows for easy access to the abutment screw in the future. Fill the remainder of the channel using a composite resin material of choice.

Take an x-ray for temporary prosthesis delivery records.

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