**Preliminary and Initial Attachment Procedures**

**Phase 1:** Always refer to the Preliminary and Initial Attachments Procedures, page 8. Only this will guarantee a successful restoration.

**Phase 2: TECHNICAL**

1. Survey the master model to locate a favorable path of insertion considering abutment alignment and ridge center.  
2. Use the Aii Height gauge to determine the available vertical, buccal/lingual space for selection of the appropriate ASC 52 attachment.
3. Using the mandrel, attach the female to the wax-up as low as possible. It may even touch the ridge. When waxing to the metal females, cover the buccal and lingual retention grooves with wax to maximize fixation. The wax may extend to the buccal/lingual aspect of the female.
4. Invest and burn out at a minimum of 1450 degrees Fahrenheit.
5. Once the casting is seated on the die, the male is attached to the female. The complete male can then be luted to the framework with self-curing acrylic resin. The male housing may instead be soldered or welded to the framework. The internal mechanism of the male, however, must be removed from the housing prior to investing. If vertical resilience is requested by the dentist, the male should be shimmed from the female with a piece of Ash #7 metal (or several folds of aluminum foil) before attaching the male housing of the attachment to the framework.
6. A wax bite block may be fabricated with the males in place. Setting the posterior teeth should be part of your planning phase to verify occlusal clearance. Complete the set-up and grind a resin tooth to loosely fit over the male of the attachment. Complete the wax-up for either a try-in or for processing.

**7A. Processing with Crowns**

Invest wax-up and boil out case. Block out gingivally under the female attachment. Also block out the junction of the female and male and buccally/lingually around the female. Process acrylic.

**7B. Processing without Crowns (optional method)**

Using the ASC 52 screwdriver, remove the internal mechanism from the male housing and replace it with the brass processing plug. Cover knurled area of processing plug and guide plane of set-up with plaster. Invest wax-up in the usual manner. Block out the buccal/lingual area of the processing plugs. Processing plugs are purchased separately.

8. After processing, the case is remounted and checked for proper occlusion - then finished and polished. If the optional method has been used, remove the processing plugs and replace with the internal male components. Verify function of the attachment with the abutments/crowns.

9. If the top of the female has been polished down or reduced to provide space, it will be necessary to “flair” the occlusal opening and bevel the distal occlusal flange with a tapered stone or fine diamond of appropriate size. (Failure to complete these two steps will create an insertion problem for the patient.) Verify entry of the assembly.

10. The final restoration and instructions should be delivered to the dentist, with the screwdriver, if necessary, to adjust the tension of the spring. The attachments are delivered with minimum tension on the springs, for ease of insertion.

Procedures continued next page
ASC 52 2.8mm & 3.0mm and Novat

**Adjusting the ASC 52**

1. The ASC 52 screwdriver is used to unscrew the internal mechanism from the male housing.
2. The tension of the spring is adjusted by holding the spherical head of the male very carefully with hemostats and turning the small collar/nut on the end of the dowel with the No. 4 position of the universal ASC 52 screwdriver or with the small end of the double ended regular screwdriver. (The hemostat tips should be wrapped in cotton, cloth or rubber dam to protect the sphere from damage.) (J)
3. Although the tension may be increased, a slight spring action is required to allow the male to retract and engage the female.
4. The spring may be replaced by removing the small adjusting nut. (Turn counterclockwise for loosening or removal - clockwise for tightening.)

**Note:** For Reline Procedures, consult this Attachments & Implants Reference Manual pg. 63.

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**Extracoronal Procedures**

**Partial Dentures**

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**Plaster Processing**

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