

SETON

INS 1018.0

Instructions for Re-Seal™ Cone-Top™ Tubes and Crowns

NORYL** CROWNS IN FIXED-ANGLE & SWINGING BUCKET ROTORS*

Rotors: BECKMAN, SORVALL & KONTRON ROTORS

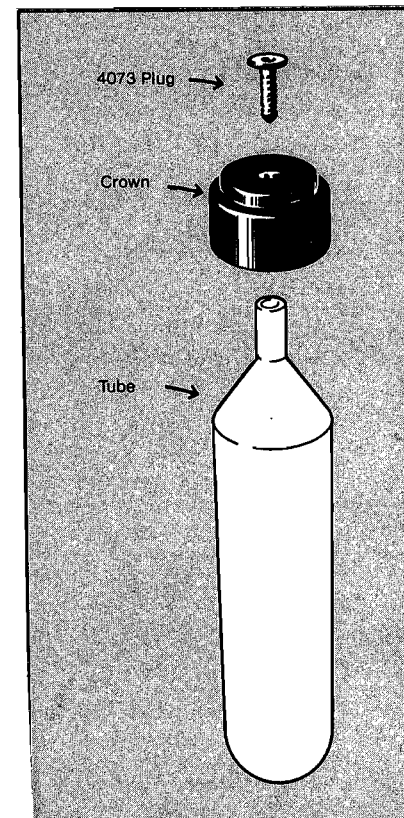
Crowns: 4216, 4219, 4246, 4247, 4249, 4249 (white Delrin)

Plug: 4073, 4075=pkg 10

Tubes: 9011, 9012, 9024, 9025, 9029, 9032, 9040, 9050, 9051 Polyallomer

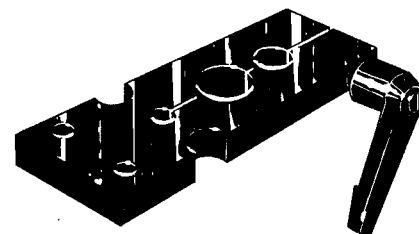
FOR OPERATING SPEEDS CONSULT THE APPROPRIATE ROTOR MANUAL.

- 1.1 Fill the tube so that the meniscus coincides with the junction of the tube conical dome and stem. Since heat is not used to make the seal, a head space in the dome is not required. Remember, the tubes must be filled or the tube will distort during centrifugation causing leakage.
- 1.2 Place the crown over the stem, making sure the crown is seated against the top of the tube.
- 1.3 Hold the tube and crown together with one hand and screw the stainless steel plug part way into the tube stem with the hex key wrench (PN 4088). For larger sized crowns, 25 , 16 or 14mm dia, the crown and tube can be held in the hand and the screw tightened without the use of a bench vise.
- 1.4 When the crown and tube are of small diameter, 11 or 13mm dia), they may not be easily held in the fingers while tightening the plug and forming a compression seal. In this case, to hold the crown/tube assembly, place it into the bench-mounted vise (PN 4172). Insert the assembly into the 11 or 13mm diameter hole from the underside of the vise. Position the crown so that the bottom of the crown is approximately flush with the bottom of the vise. To secure the crown (with attached tube) in the vise, tighten the handle on the side of the vise while holding the crown/tube in the hole. Screw the plug tightly into the stem with the hex key wrench (PN 4088). Apply a downward force to the screw with the wrench as it self-taps a thread into the stem. (It is not easy to strip the threads.) Stop when it feels tight.
- 1.5 Place the sealed tube assembly into the rotor.
- 1.6 After centrifugation, use the removal tool (PN 4250) to remove the tube assembly from the rotor. Insert the tip of the tool into the hex hole of the screw plug, tilt slightly and pull the tube assembly from the rotor hole.
- 1.7 If required place the crown/tube assembly into the vise, tighten the vise handle to secure the assembly and unscrew the plug with the hex key wrench. The tube may be tightly held in the crown and attempts to remove a filled tube from the crown may cause agitation of the sample. In this case, it is recommended to first remove the tube liquid contents before removing the tube from the crown.
- 1.8 Noryl crowns, stainless steel plugs and polyallomer tubes can be sterilized by autoclaving or by soaking in aqueous solutions of 70% ethanol, 70% isopropanol or 10% hydrogen peroxide solutions.



4172 Vise

For 7/16 and 1/2" crowns



* U.S. Patent 4,537,320 and UK Patent GB 2149325 apply.

** TM of General Electric Co.
TM of Seton Scientific