

BIOSTAR® Troubleshooting & Fabrication Tips

Use the following tips to address:

- Air leaks
- Poor adaptation
- Material heating unevenly
- Blowouts
- Material thinning
- Mounted model too high for pellet cup

Note: The BIOSTAR is preset at 87lbs or 6 bars of working pressure.



If gasket does not move freely, remove it and clean with a small amount of liquid dish soap applied and removed with a dry paper towel. Lubricate pins and springs and replace gasket.



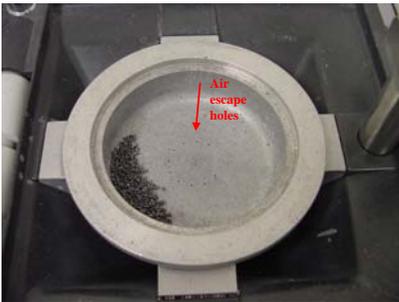
Remove pins and springs. Lubricate with a small amount of Mobil premium food grade machinery grease. Replace pins and springs and insert gasket. Depress gasket ring once or twice to make sure it moves freely.

Perform a Cold Test to Check Gasket:

- A) Turn unit on. Clamp a sheet of 2mm or thicker hard material onto pressure chamber. Secure clamping frame.
- B) DO NOT HEAT material. Swing the pressure chamber over the model platform. Activate air pressure.
- C) If you hear an air leak, the gasket needs to be replaced.



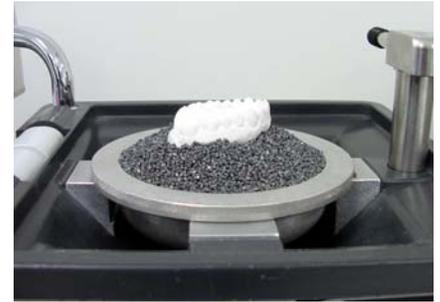
Make sure the heating surface is parallel to the heating element. See Maintenance Tips to adjust.



Remove pellets from cup, make sure the 12 air escape holes are not plugged. Use a .036" diameter or smaller wire to open plugged holes.



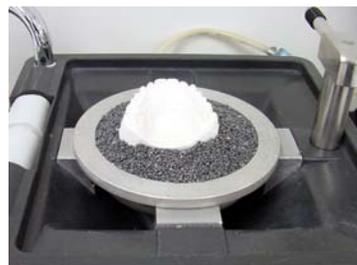
Make sure all pellets are removed from edge of cup where the chamber locks into place. Pellets should be even with top of pellet cup.



For mounted models, remove the majority of pellets. Leave only enough under the model to allow air to flow. Build up the pellets, leaving exposed only the area to be covered by acrylic material.



Great Lakes recommends: all soft or semi-soft material should be formed on the platform. See photo on left: the base of the model is even and flat. Use pellets for hard material (see photo on right).



Ask for a Heating Times & Applications Guide to help you get the best results from your BIOSTAR.



Great Lakes
DENTAL TECHNOLOGIES

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BIOSTAR® Maintenance Tips

A regular maintenance schedule should be followed. Proper maintenance will assure better fabrication results. Refrain from using water in the Biostar® machine. Water may cause certain components to rust or corrode. When the machine is not being used, engage the clamping frame to the chamber and position the chamber on the pellet cup. This prevents lab dust from entering the pellet cup and chamber.



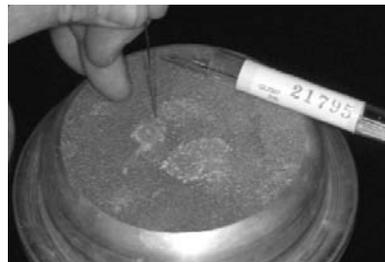
Lubrication of moving parts is advised including the base of the heating element arm that swivels on the black Biostar table (A), and the hinges associated with the pressure chamber (B). A small amount of Mobil premium food grade machinery grease is sufficient. Do not lubricate the locking handle that holds the chamber down under pressure.

Lubricate every 3 months.



Pellets will become dirty with regular use. Clean pellets by placing them in a strainer and rinsing with hot water. Spread pellets on a towel and let air dry before placing them back in the Biostar. Check pellets monthly, discard and replace pellets in the bottom third of the cup.

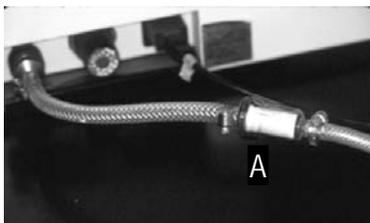
Also, clean the pellet drawer space to allow for proper insertion of the drawer.



Air escape holes are present in the base of the pellet cup and should be checked monthly to ensure that they remain open. Use a .036" or thinner diameter wire to open plugged holes. Also, make sure the rim of the pellet cup and the four blocks that support the cup are clean.



Clean and lubricate gaskets every 3 months. Apply a drop of liquid dish soap onto the gasket on the pressure chamber with a fingertip. Identify potential gasket cuts or irregularities. Remove the soap from the gasket with a soft cloth.



Check the air filter (A) for discoloration monthly.

If replacing filter, turn off the air source and bleed the high-pressure hose of air. Loosen clamps holding the filter and slide it off the hose. Position the new filter by referencing the arrow on the filter case toward the back of the Biostar.



The heating surface (A) should be parallel to the heating element (B). Adjust the position of the chamber by turning the screw (C), located under the chamber support frame on the side of the unit, with a screwdriver. Counter-clockwise adjustment elevates the chamber.



Ask for a *Heating Times & Applications Guide* to help you get the best results from your **BIOSTAR**.