

Chapter 5 – Troubleshooting Guide

PROBLEM	KNOWN CAUSES	SOLUTIONS
<ul style="list-style-type: none"> • Incomplete pressing. 	<ul style="list-style-type: none"> • Incorrect pressing and/or holding time. • Incorrect pressure. • Sprue size is too narrow and/or too long. • Proper sprue angle is not followed. • Wax-up is too thin. 	<ul style="list-style-type: none"> • Verify recommended parameters, accuracy of pressing unit. Calibrate as necessary. • Increase the pressing time and/or hold time in conjunction with reducing the pressure. • Follow spruing guidelines. • Follow minimum thickness guidelines.
<ul style="list-style-type: none"> • Flashing of material after pressing. 	<ul style="list-style-type: none"> • Incorrect pressing and/or holding time. • Incorrect pressure. • Investment protocol not followed. 	<ul style="list-style-type: none"> • Verify recommended parameters, accuracy of pressing unit. Calibrate as necessary. • Increase pressing time in conjunction with lowering pressure until flashing is eliminated. • Follow manufacturer's recommendations regarding bench setting time, entry temperature of burnout furnace.
<ul style="list-style-type: none"> • Crack or fracture in crown. 	<ul style="list-style-type: none"> • Excessive grinding speed and/or pressure. • Not keeping crown wet during finishing. • Grinding crown while on the model. 	<ul style="list-style-type: none"> • Use light pressure and slow speeds when finishing; avoid using coarse diamonds or stones. • Keep crown wet during grinding. • Do not finish crown on the model.

PROBLEM	KNOWN CAUSES	SOLUTIONS
<ul style="list-style-type: none"> Bubbles during glaze. 	<ul style="list-style-type: none"> Entering oven too quickly before cycle began. Glaze coat applied too thick. Vacuum was pulled during glaze cycle. Before glaze, crown not properly sandblasted on surface 	<ul style="list-style-type: none"> Use recommended procedure for drying and heating at initiation of glaze cycle. Apply even, uniform coat of properly mixed glaze. Vacuum not necessary when glazing. Properly clean surface before glazing.
<ul style="list-style-type: none"> Under-glazed, or dull, rough surface. 	<ul style="list-style-type: none"> First glaze was under-fired. Glaze coat applied too thin. Not enough glaze powder used in glaze mixture. 	<ul style="list-style-type: none"> Follow recommended firing temperatures, ensure furnace is properly calibrated. Increase final temperature no more than 3-5 degrees at a time. Apply even, uniform coat of properly mixed glaze.
<ul style="list-style-type: none"> Components of the Press Stain separate 	<ul style="list-style-type: none"> After being mixed with Spray Liquid, components of Press Stain tend to separate. Spray stain is not mixed well. 	<ul style="list-style-type: none"> To ensure that the particles are suspended, gently swirl container during and in between spraying. Add small zirconia beads into jar to facilitate mixing. Shake the mixture well before each use. Don't let the mixture settle.

PROBLEM	KNOWN CAUSES	SOLUTIONS
<ul style="list-style-type: none"> • After pressing and divestment, the liner is turning green/yellow. 	<ul style="list-style-type: none"> • Contamination 	<ul style="list-style-type: none"> • Perform purge cycles regularly on the ovens. • If you possess multiple pressing ovens, separate them for use with metal versus all-ceramic crowns. • If you are using an air brush to apply the liner, ensure that the nozzle is always cleaned prior to use.
	<ul style="list-style-type: none"> • Spray stain is not mixed well. 	<ul style="list-style-type: none"> • Shake the mixture well before each use. Don't let the mixture settle.
<ul style="list-style-type: none"> • The restoration's shade isn't matching the shade tab. 	<ul style="list-style-type: none"> • Wrong PS core stain was used. 	<ul style="list-style-type: none"> • Refer to the PrismaTik CZ Press Coordination Chart. Make sure the appropriate PS stain was used with the CZ Press pellet of choice.
	<ul style="list-style-type: none"> • PS Stain was applied incorrectly. • Applied too thin or too thick or the consistency was wrong. 	<ul style="list-style-type: none"> • Follow the manual's instructions on the proper powder/liquid ratio for use with spraying on the PS Stain.
	<ul style="list-style-type: none"> • Staining technique on the veneering porcelain. 	<ul style="list-style-type: none"> • Staining will be needed in order to achieve the proper shade matches.