

Instrument Troubleshooting Guide

Conditions	Possible Causes
<p>“Turntable” symbol displayed when Start key pressed.</p> <p>No microwave power.</p> <p>Microwave power on.</p>	<p>Door ajar.</p> <p>Door interlock(s) defective or out of adjustment.</p> <p>Faulty PC board.</p> <p>Loose connection to PC board.</p> <p>Faulty PC board.</p> <p>Shorted triac.</p>
<p>No microwave power.</p> <p>Display shows microwaves on.</p> <p>Display shows microwaves off.</p>	<p>Faulty PC board.</p> <p>High voltage component failure.</p> <p>Faulty thermal switch.</p> <p>Faulty triac.</p> <p>Faulty PC board.</p>
<p>Low microwave power (less than 900 W).</p>	<p>Low line voltage.</p> <p>Defective high voltage transformer, rectifier or capacitor, filament transformer or magnetron.</p>
<p>No display, instrument inoperative.</p>	<p>Blown fuse.</p> <p>Loose connection to power switch.</p>
<p>Fuse blows repeatedly during heating cycle.</p>	<p>High voltage component failure.</p> <p>Faulty PC board.</p>
<p>Fuse blows when cavity door is opened.</p>	<p>Door safety interlock defective.</p> <p>Interlock switches out of adjustment.</p>
<p>No rise in pressure in control vessel.</p>	<p>Microwave Transparent Valve in pressure sensing line is closed.</p> <p>Leak in pressure sensing line.</p> <p>Leak at vent fitting of LEV or pressure control cover.</p> <p>Rupture membrane missing from vent fitting of LEV or pressure control vessel.</p> <p>Solvent does not absorb microwave energy.</p>

Vessel Troubleshooting Guide

Problem	Possible Cause(s)	Corrective Action
Rupture membrane of Lined Extraction Vessel Ruptures	<p>High moisture content in sample</p> <p>Microwave Transparent Valve in pressure sensing line of control vessel is closed</p>	<p>Place high moisture sample in control vessel</p> <p>Allow vessels to cool and remove from system. Do not continue extraction program.</p>
Pressure sensing tube has come loose from control vessel or microwave transparent valve	<p>Tubing is not fully inserted and sealed into mating fitting by the ferrule nut</p> <p>Microwave Transparent Valve in pressure sensing line of control vessel is closed, causing tubing to blow the seal at fitting</p>	<p>Allow vessels to cool and remove control vessel and check sample volume to ensure starting amount is present. If sample loss has occurred, replace sample in control vessel to equivalent amount in other vessels.</p> <p>Check to see that pressure sensing line is completely filled with water. Flush and fill with additional water if loss has occurred. Reconnect pressure sensing line by loosening ferrule nut and fully inserting tubing. Hand tighten ferrule nut, then tighten half a turn using a wrench.</p> <p>Allow vessels to cool. Remove control vessel and check sample volume to ensure starting amount is present. If sample loss has occurred, replace sample in control vessel to equivalent amount in other vessels.</p> <p>Reconnect pressure sensing line by loosening ferrule nut and fully inserting tubing. Hand tighten ferrule nut, and then tighten half a turn using a wrench.</p>