

EEG machine Troubleshooting

Symptom	Reasons	Troubleshooting	Action
Machine runs, but the tracing on one or more channels is missing.	<p>1. Ink reservoirs for pens are dry [on missing channels]</p> <p>2. Ink tubes are clogged.</p> <p>3. Pen is not touching.</p>	<p>1. Check ink reservoirs.</p> <p>2. Check ink tubes for clogging.</p> <p>3. Check for upwardly bent pens-gently push pen onto paper with finger or pencil to observe any touching.</p>	<p>1. For dry ink reservoirs, fill to level suggested by manufacturer (usually below top rim). To overfill causes messy operation and can damage circuitry and mechanisms if allowed to drip (To fall in drops) into the machine.</p> <p>2. For clogged ink tubes, remove the tube and pen and soak in warm water Use a fine wire to water. gently push the clog through. Be certain not to punch a hole in the tube.</p> <p>3. For bent pens remove the pen in question and gently bend the pen downward. Be careful not to bend at right angles, as these pens are delicate and will crack.</p>
Spotty recordings (light or dark).	<p>1. Worn pens or incorrectly loaded paper.</p>	<p>1. Check paper loading.</p> <p>2. And if proper, then check pen for worn tip (ink not feeding properly).</p>	<p>1. For paper loading, perform manufacturer's procedure.</p> <p>2. For worn pen tip, replace with manufacturer's part or equivalent.</p>
Noisy or poor recording.	<p>1. Lead connection or electronic or mechanical problems.</p>	<p>1. Place selector switches to standard calibration position and check for noise and improper operation.</p> <p>2. If calibration operation is normal, the problem is properly the patient connection.</p> <p>3. Grounded all EEG leads and check for straight line tracing (noiseless) and, If good, connect an EEG simulator, if available. Check for good tracings.</p> <p>If noise appears on the trace, the problem is properly inside the machine. Refer to the service manual for troubleshooting.</p>	<p>1 For patient connection, physically inspect all electrodes and connectors to the machine.</p> <p>2. For machine problem, internal repair will be necessary.</p>