Ultrasound Transducer Repair â€“ the Process of Repairing

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Modern science and technology has opened gates for new innovations and inventions. These innovations prove to be a hindrance when they need repair and behave improperly. ultrasound probe repairUltrasound probe is one such innovation in the field of medical science which is used to study the internal human anatomy. This probe generates and receives sound waves using a principle called the piezo-electric effect. But wWhen damaged, the ultrasound probe repair experts efficiently repairs the equipment thereby helping the doctors, sonographers and bio-medical engineers in managing their work with ultrasound equipment.

The probe repair technologies used by these specialists are highly advanced which allows for faster turnaround in less time. These technical probe repair engineers use state-of-the-art probe repair facilities and help you in repairing the probe at a lower cost rather than purchasing a new one. The repair technicians carry out a step-by-step evaluation of the equipment in order to repair it in the best possible manner at a reduced time. The probe goes through a thorough detailed inspection and cleaning using a power illuminated magnifying lens wherein any debris that might affect electrical or mechanical malfunctioning is eliminated.

The probe is then tested through computer based system wherein the technician assesses the probe element-by-element, wire-by-wire and connection-by-connection. On completing of this phase, a report is generated containing the results of the test. The next stage of repair process consists of diagrams which document the probeâ€™s resolution and penetration. The probe is tested using a â€˜peaked to performâ€™ test bed on a high resolution phantom. In this phase various resolutions of probe like axial, lateral, contract, transverse and penetration are evaluated and documented using a video printer. In the safety and leakage test, the mechanical integrity of the probe is checked and analysed to ensure patient safety.

The minute flaws in lenses, fine cracks in nose pieces, membranes seal issues, TEE probe jackets, bending rubber failures and nose piece-to-handle separations are tested ensuring that the equipment is flawless. As this probe is used for visualizing the growing foetus in pregnancy and also in other medical applications, hence it is advisable to get it repaired only from reputed and trustworthy sources.

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