

**Technical Bulletin**  
**No: 604 – Improving Signal to Noise**

**Model:** TI-101

**No:** 604

**Subject:** Improving Signal to Noise

**Date:** 03/03/95

**Symptom:** Hum in the caller output signal.

**Solution:** Relocate the power transformer

**Procedure:** The signal to noise performance of the TI-101 can be improved 15 dB by relocating the power transformer. If your power transformer is mounted on the bottom of the chassis its field induces hum into the caller output transformer. Remounting the power transformer to the side of the chassis corrects the problem. This rotates the transformer 90 degrees and eliminates the hum induction. This operation does not require removal of the circuit board. Remove and save the transformer mounting screws. Unplug the power connection to the circuit board. Do not cut the connection from the fuse or AC cord. Measure between the mounting hole centers and drill two 11/64 inch holes this distance apart half way up the side of the chassis. The new holes should be drilled to remount the transformer in approximately the same position. Use the mounting screws to reattach the transformer and power cord grounding connection.



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