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Rewinding TS-830s L41 RF coil

Background on the L41

• First voltage step-up transformer in RX antenna circuit.
• Could be damaged by Electro-Static Discharge (ESD) or accidental transmit of RF.

Troubleshooting low or no RX on RF board

• Inject 8.83 mhz test signal into RIF (RF board TP-2) – If good loud tone & s-meter, IF chain is good.
• Inject low-level RF signal at TP-1; If no response, try injecting at wafer switch S1-wiper #2; If good response, most likely L41 is bad (primary & secondary coils are likely shorted).

Repair of L41

• No NOS L41s available, so it needs to be rewound.
• #41 magnet wire; 6T on primary, 26T on secondary.
• Need high magnification, a mandrel to hold the L41 bobbin, and a winding spindle. Cannot just scramble-winding it by hand; Make an even, multi-layer solenoid winding.

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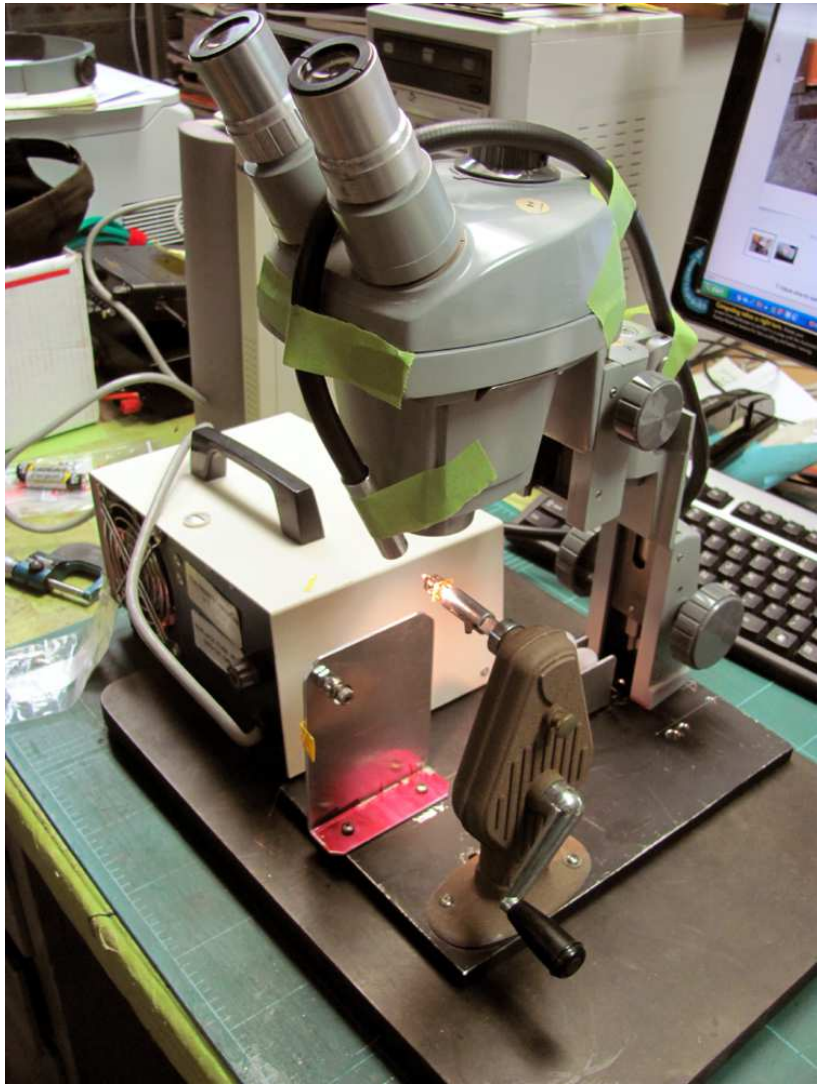
B&L Microscope.

Fiber optical light source
(cold light).

8mm Film editor winder & mandrel to support L41.

Wire tensioner.



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One can actually count the windi