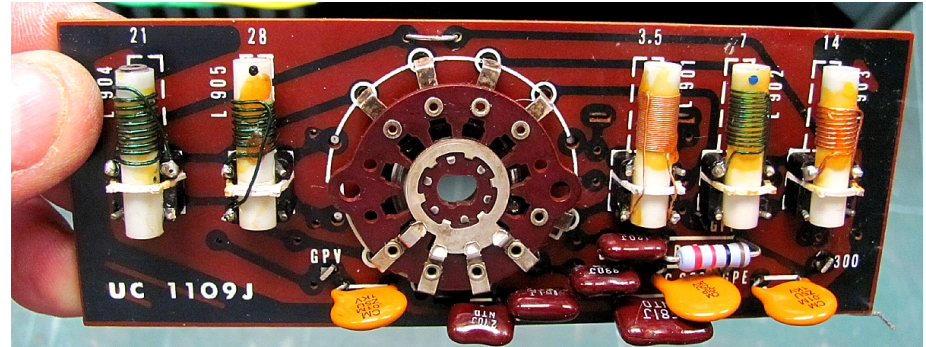
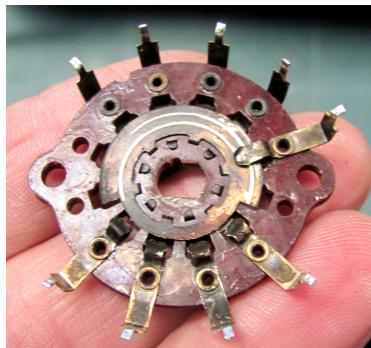
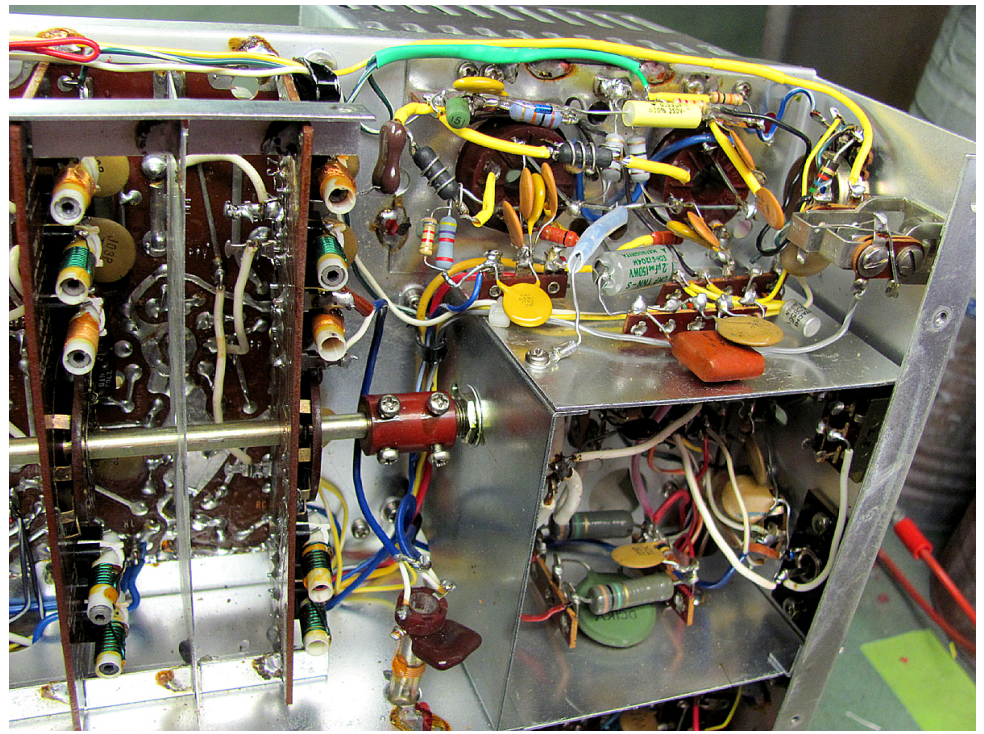
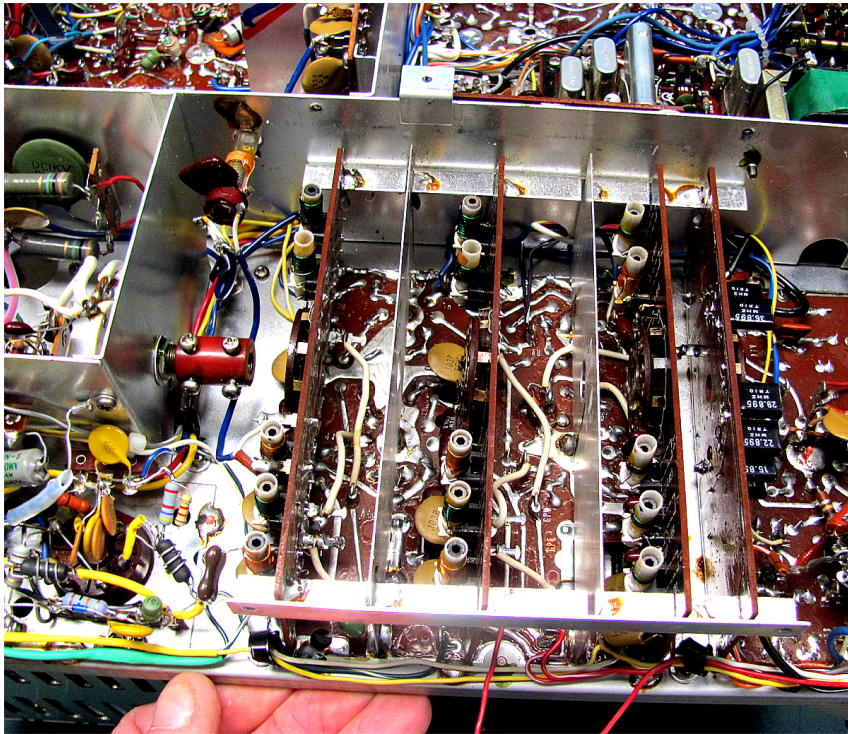


KENWOOD

TS-510/A-2517

Bottom view of RF boards & PA section



KENWOOD

TS-511S

SSB, AM, CW, 10 tubes, 1 IC, 4 FETs, 37 transistors, 57 diodes



10 Tubes:

6LQ6 2ea
12GN7A
6AW8A
6CB6 2ea
6BA6 2ea
6BZ6
6BM8 (PS)

Comments & Tips:

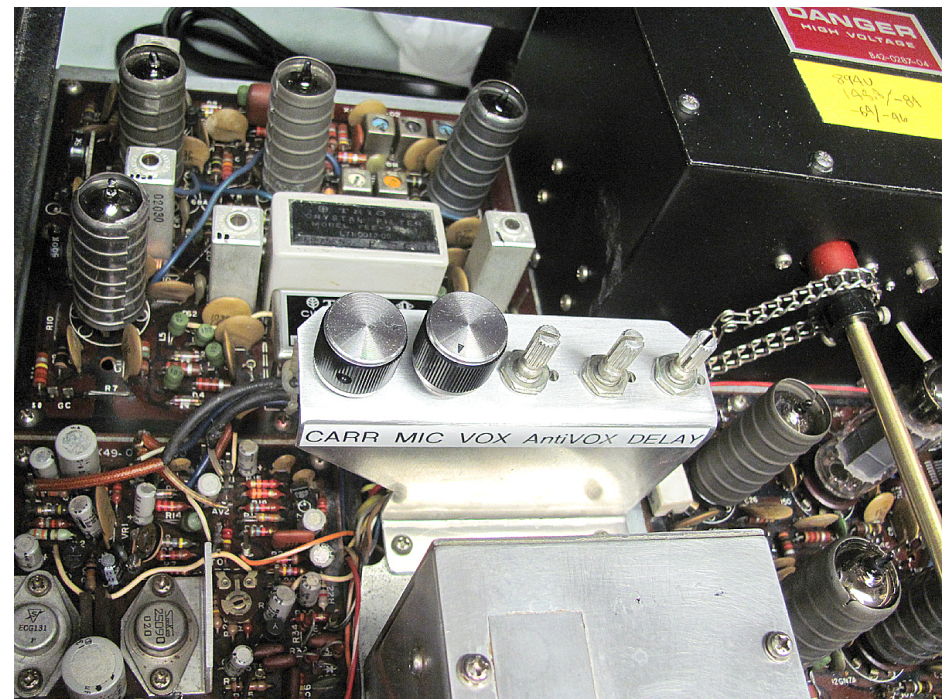
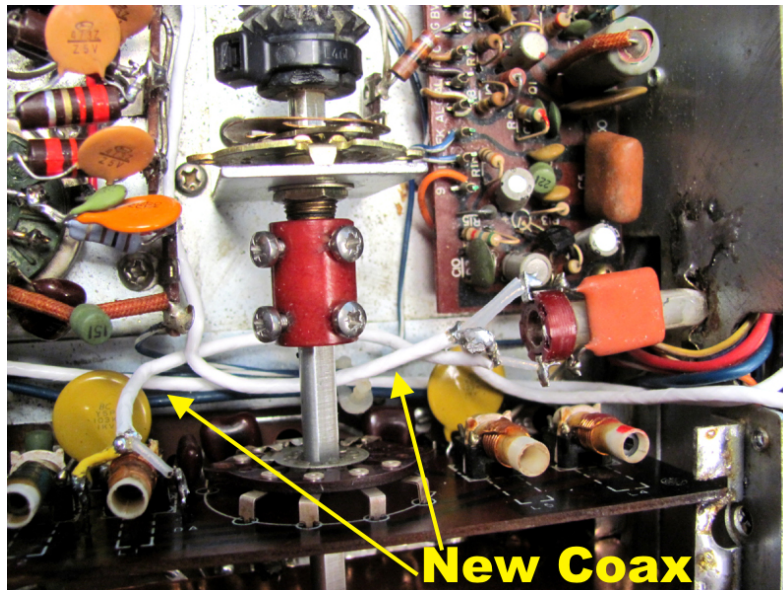
- Remote VFO capable using VFO-5SS
- CW filter 3396.5 kHz (optional) same as 520 (L77-0122-05)
- PA cooling fan, 117VAC motor, power cord plugs into PS-511
- Internal LV (12vdc) supply; An honest 9V regulator for VFO (First to include an AVR board)
- Relays are the same used in 520.
- Mini-trim pots need replacement, as well as Bias & Carr pots.
- Move Carr trimmer to topside for better access
- Bevel gear drive (why?) on band switch. Made of Nylon & with age cracks. Difficult to replace
- Coax is very fragile and will break; Recomm'd all coax to be replaced with RG-174
- Operating & service manuals combined from Surplus Sales Neb'a., \$30...Good quality!

KENWOOD

TS-511S

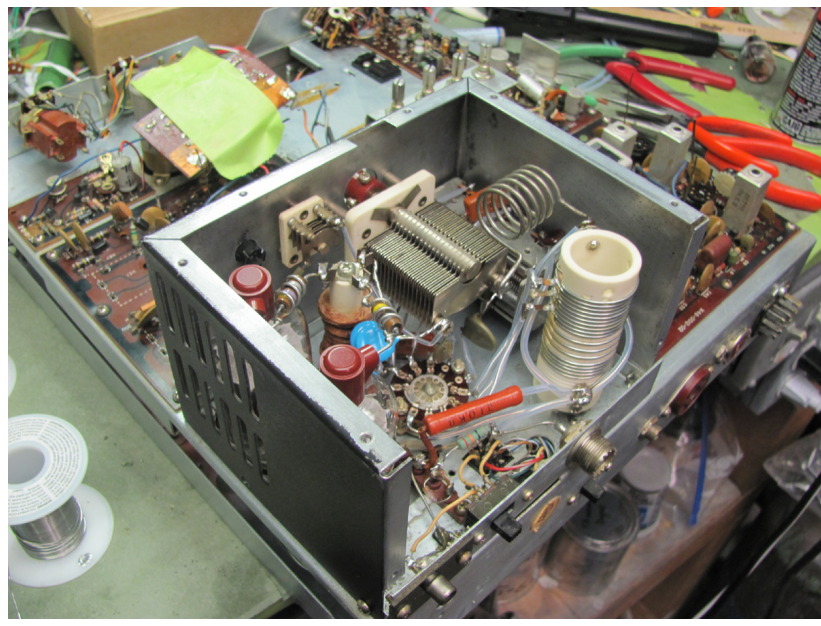
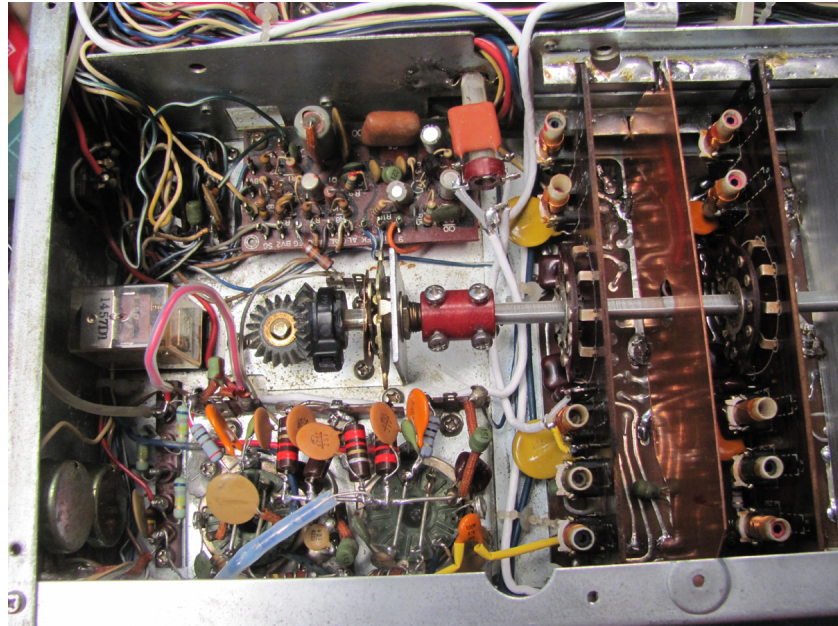
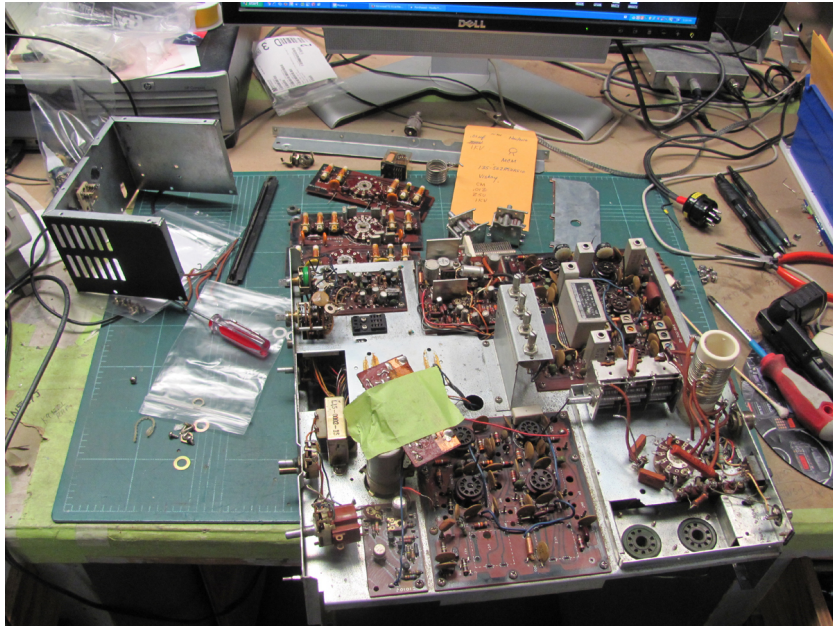
Repairs:

- Cleaned completely & de-fluxing boards & band switches
- PA repair (blown cathode resistors)
 - Cath/screen/grid resistors & bypass caps
 - PA HV blocking/bypass caps (K4EAA kit)
 - Ip + HV multiplier resistors
 - Cath protection diodes, 3ea 1N4007
 - New 6LQ6 tubes, 2ea
 - Replaced all insulation on tank wires
- Replaced all coax w/RG-174 teflon (20db signal increase!)
- Replaced relays (Newark or Ebay, NTE R16-17D3-12)
- Mini-trim pots need replacement (MCM, Parts Express, ceitron.com)
- Moved Carr trimmer to topside for better access
- Replace bulbs: #1892, 0.12A, (MCM, 25-925)
- Re-alignment



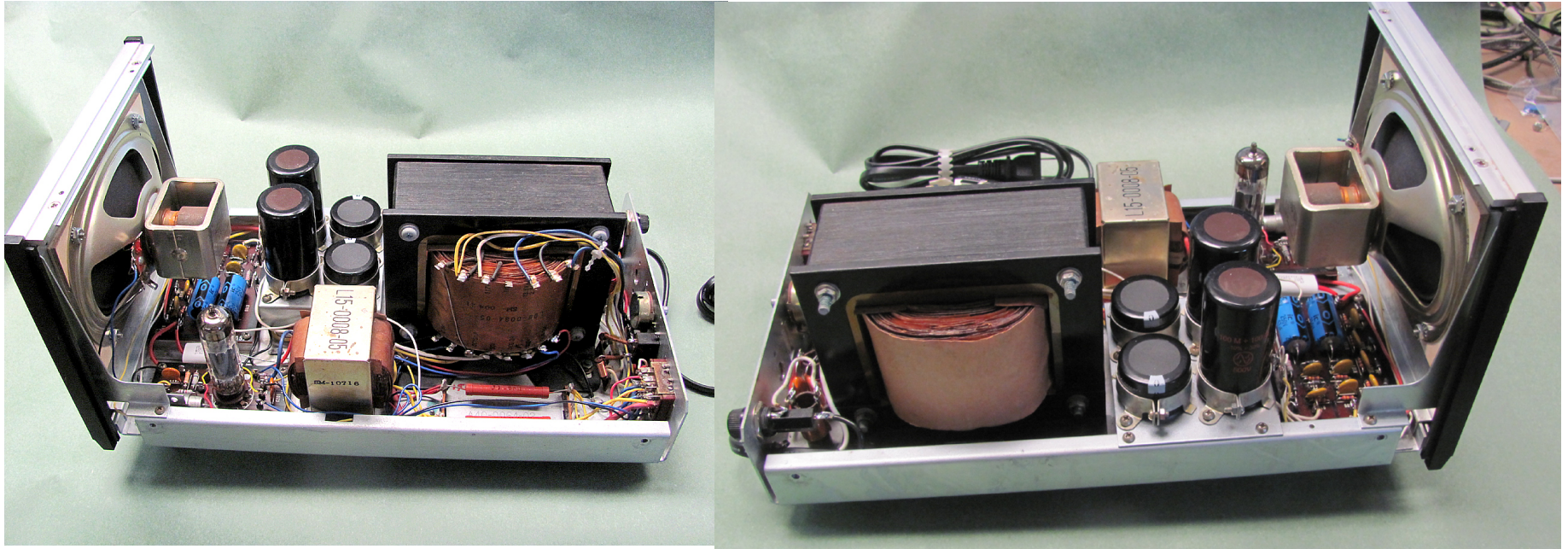
KENWOOD

TS-511S



KENWOOD

TS-511S



PS-511S Rebuild (Basically, the same as PS-510 repair)

Replacement Capacitors:

- 2ea, 150uf 500V (Mouser 647-LGN2H151MELC25)
- 1ea, 0.47uf 600V (Mouser 598-941C6P47KF)
- 1ea, 47uf 250V (Mouser 598-474MWR250K)
- 2ea, 47uf 250V (Mouser 647-TVX2E470MCD)
- 2ea, 100/100uf, 500V (Antique Electronic Supply C-EC100X2-500)

Misc. Parts

- 9ea, 1N4007 diodes
- 1ea, 68V, 1N4760 zener
- 1ea, 0.1uf, 100V bypass cap across the zener
- Replace any wire with type PTFE-E20awg

Thank You!....73 from N8CBX

KENWOOD

KENWOOD

Questions & Answers