



SERVICE BULLETIN

from: TRIO-KENWOOD COMMUNICATIONS, INC.

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SUBJECT: SERVICE NOTES ON TS-520

DATE 10-21-77

TRANSMITTER

1. No switching of final relay: Bad Q8 on (X54-0001-00) 2SA562(y).
2. No drive: C-3 100pf in final box is cold soldered.
3. Low output: Check the plate load cap for touching plates.
4. 3.5 Mhz low output: Replace burned 47pf 3KV at load wafer.
5. No Tx: Final choke burned out in final VOX L-8.
6. No Rx or Tx: Bad common amp. Q1 3SK35(GR) in IF unit (X48-1060-00).
7. No ACC: No plate current Q2 3SK41 IF unit X48-1060-00).
8. No Tx relay: Q8 2SA562(y) on VOX unit (X54-0001-00). Also R18 1K resistor relay control.
9. No Tx or Rx: Check 9 volt terminal on fix AVR (X43-1100-00) is loose.
10. No CW Tx: Bad 9 volt regulator. Check D3 WZ061 on (X43-1100-00).
11. No Tx: Solder touch between TIF and key terminal on (X44-1080-00).
12. No drive to Tx: Check RL1 on GEN unit, small reed relay (X52-0010-01).
13. No ALC meter action on 10 meters: This is normal for TS-520.
14. CW chirp: Q4 2SA606(L) on Fix channel ARV (X43-1100-00).
15. ALC meter to maximum when Tx: RFI terminal at (X44-1080-00) is not soldered.
16. No Tx output: 82pf 3KV in final is burned.
17. No Tx output: Q3 on RF unit 3SK41 (X44-1080-00).
18. No bias: 10 ohm cathode resistors burned in final VOX.
19. No drive or Tx output: R70-71 RF unit, R5 rectifier unit.



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TRANSMITTER (Cont'd.)

20. No VOX: Q8 in VOX unit (X54-0001-00).
21. No Tx: 12BY7 is bad. Shorts and burns out. R71 and R70.
22. No carrier output: Q1 on carrier (X50-0009-01).
23. No drive - no screen voltage: R5 470 or open on rectifier (X43-1090-00).
24. No drive - no ACC: Q2 3SK35(y) IF unit (X48-1060-00).
Q3 3SK41(L) RF unit (X43-1090-00).
25. No RF output: C13 .04uf at pin 1 of S2001A is bad.
26. Low mic gain: Q1 2SC 1000 on GEN unit (X52-0010-01).
27. No Tx: Missconnection of brown wire after installation of CW filter.