

02A CLARIFIER & BANDSWITCH MODIFICATION

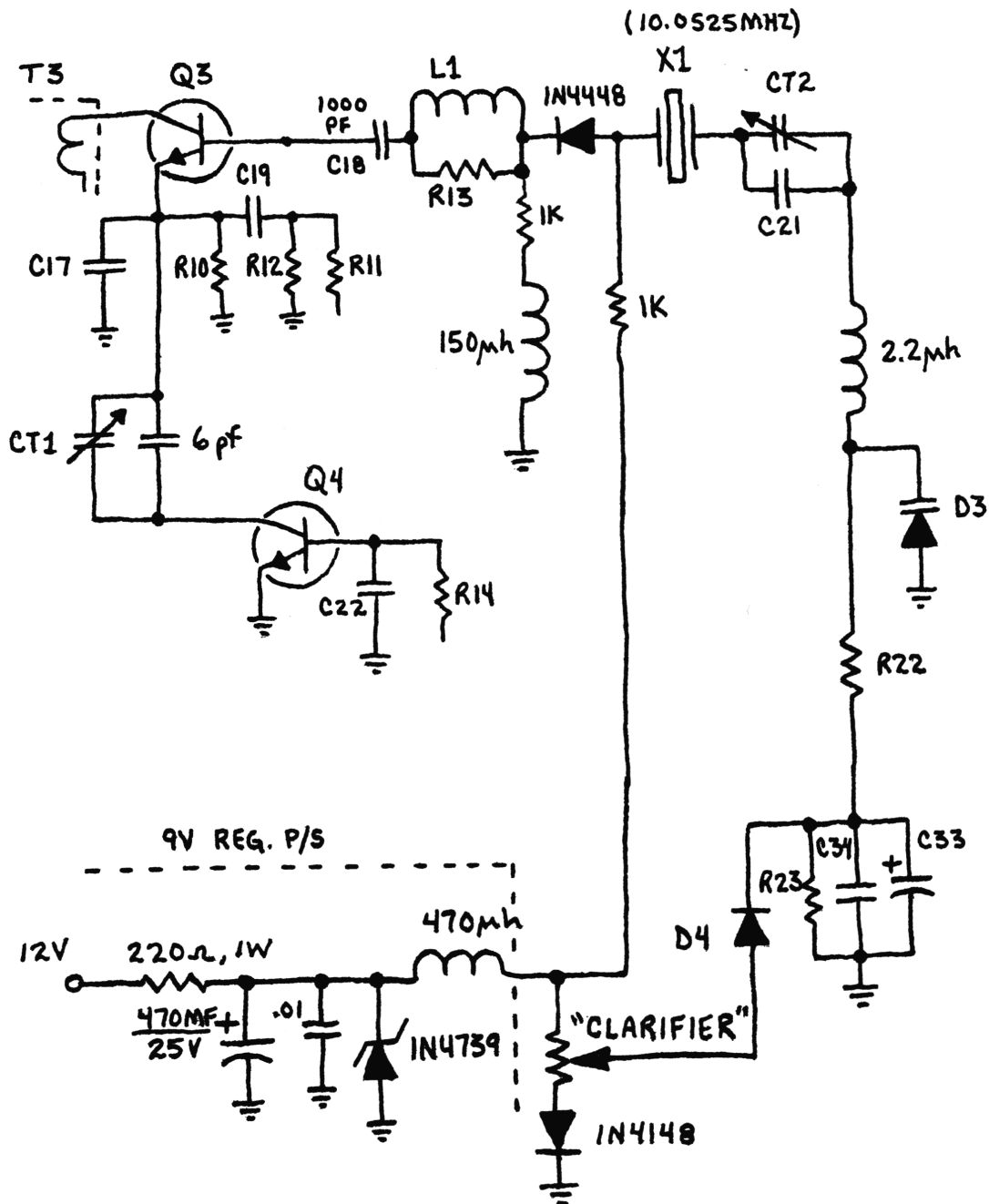
Modification 02A chassis clarifier circuit, to prevent loss of power caused by large amounts of clarifier swing over 5KHz...

1. Disconnect the collector of Q4
2. Remove C20.
3. Remove CT1 and SAVE!
4. Remove C18 and SAVE!
5. R11, R12, C19, and the base of Q3; all form a junction point.
Also L1 and R13 - opposite X1 - form another junction point.
Open the circuit between these two junction and insert C18 across the open.
6. Connect the collector of Q4 to the junction of C19, R10, C17 and the emitter of Q3, through a 6 pf capacitor.
7. Connect the removed CT1 from the collector of Q4 to the junction of C19, R10, C17 and the emitter of Q3.
8. Connect a 1K resistor to the junction of X1, L1, and R13.
9. Connect a 150 UH RF Choke between the open end of the resistor and ground.
10. Open the circuit between X1 and the junction of L1, R13, and the 1K resistor you added in Step 8.
11. Place a 1N4448 diode across the open, anode towards X1.
If band switching is desired, see schematic of how crystals should be added at this point.
12. Connect the open end of X1 to the junction of CT2 and C21.
13. Connect the junction of R22 and D3 to the other end of CT2 and C21 junction, through a 2.2 UH choke.
14. Build a 9 volt regulated supply as illustrated on the schematics.
15. Apply the 9 volts from this supply to the anode of the diode you installed in Step 11, through a 1K resistor.

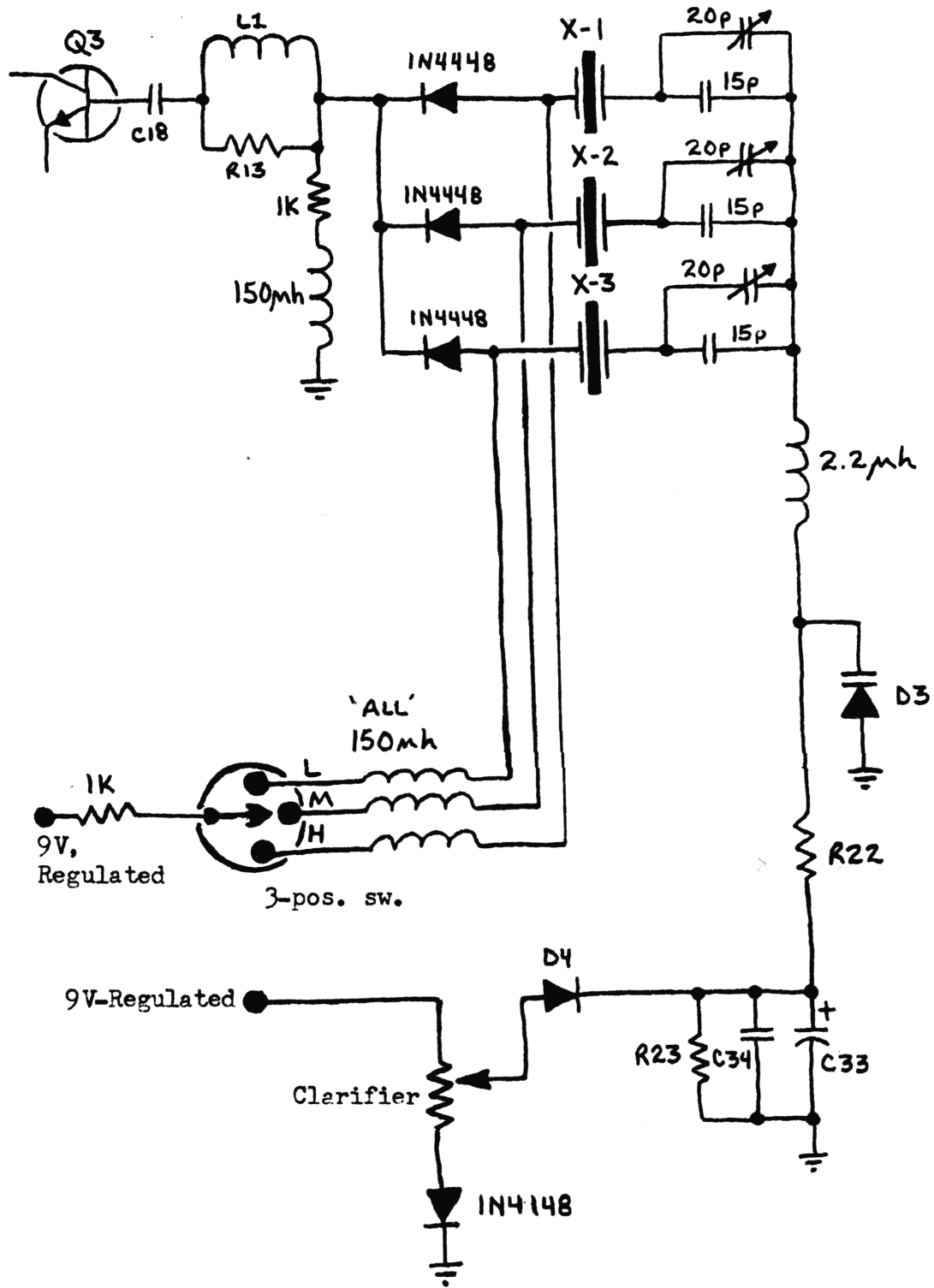
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15. --Cont. *If band switching is used, -see schematic of switching arrangement for crystals.*
16. Apply the regulated 9 volts to the unused side of the clarifier potentiometer.
17. Connect the other end to ground through a 1N4148 diode, cathode to ground. Leave the center wire connected as is!
18. Disconnect R24 and D5...

02A Clarifier Mod./Power supply schematic:



02A Clarifier & Bandswitch Modification...Cont.



- X1 - 10.2725MHz
- X2 - 10.0525MHz
- X3 - 9.8325MHz

Bandswitch Skem.