

THIS DIAGRAM IS AN ATTEMPT TO MAKE THE CIRCUIT EASIER TO FOLLOW THAN THE ORIGINAL. OF NECESSITY THIS MEANS THAT THE FRONT AND REAR PANEL COMPONENTS ARE NOT DRAWN TOGETHER (AS ON THE ORIGINAL) BUT ARE DRAWN WHERE REQUIRED - I'M SURE YOU CAN FIGURE OUT WHERE THEY ARE (-) THE POWER SUPPLY SECTION ON THE ORIGINAL WAS DREADFUL, AND HOPEFULLY IS NOW DRAWN SO THAT IT IS EASILY UNDERSTANDABLE. ANY SUGGESTIONS FOR IMPROVEMENTS OR CORRECTIONS OF ERRORS SHOULD BE ADDRESSED TO ME AT THE EMAIL ADDRESS GIVEN IN THE TITLE BLOCK AT THE BOTTOM RIGHT HAND CORNER.

FIDELITY 1000

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- NOTES:**
1. THERE ARE TWO D124. ONE IS IN THE COLLECTOR OF Q14, THE OTHER IS IN THE BASE OF Q13
 2. L224 IS EXTREMELY CRITICAL. IF THIS AND L214 HAVE BEEN "HORNBOASTED", THEN IT IS NOT POSSIBLE TO GET FROM A STEREO A SPECTRUM ANALYSER. IN OTHER WORDS: MATCHED POWER SHOULD BEHOLDERS "ASK" FOR APPROXIMATELY 1/20th BOW SIDE OF THE CENTER FREQUENCY. IS AND OR ARE VERY CRITICALLY SET - ADJUST FOR LEAST "GAIN" IN THE OUTPUT SECTION AND SET FOR MAXIMUM POWER. IF YOU CAN'T HEAR A SPECTRUM ANALYSER, LEAVE THEM ALONE IF POSSIBLE. IF THEY HAVE BEEN "HORNBOASTED" THEN BE AWARE THAT YOU HAVE A PROBLEM.
 3. L13 SHOULD BE ADJUSTED TO GIVE LOWEST AND MAXIMUM OUTPUT.
 4. THERE ARE TWO DIFFERENT VERSIONS OF THE RF OUTPUT STAGE: IF YOU DO NOT HAVE PLLV, NO TUNING, AND IS SHOWN BY REDDER CDS TO 100P AND THEN IS SHOULD READ "PLL" IN THE VERSION SHOWN ON THE CIRCUIT. THE OTHER VERSION HAS A TUNABLE L13, IN NEW VERSIONS, L13 IS SHOWN WITH THE "METER" POINT AND IS INDICATED BY A "V" IN REDDISH "Y".
 5. LOW POWER OUTPUT IS USUALLY CHOSEN BY NOT USING VOLUME.
 6. TO GET MORE POWER:
 - A. SHARP CUT-OFF BFO.
 - B. CHANGE Q13 TO 2SC163.
 7. THERE ARE TWO DIFFERENT TYPES OF "POWER DOWN" SIGNAL SWITCH AND "ALIAS-OVER". SOME COMPONENTS CAN BE INTERCHANGED BY SWAPPING THE "V" AND "METER" POINTS WITH A CRISTAL TUBE. (NO SOLDERING IS NECESSARY).
 8. IN SOME BIDS, C222 SHOULD BE INCORRECTLY INSERTED AS TOP. THE EFFECT OF THIS IS TO MAKE THE TUNING POINTS MORE THE OUTPUT AND ALSO USE LOW GAIN. (POWER WORKS TO FIND)
 9. WHEN THERE IS NO ADJUSTMENT IN THE SECTION OF BOWMAN:
 - A. "V" METER INDICATOR, SET NO SOUND - IS NOT ON, THE QP.
 - B. MODULATOR VERY LOW IN GAIN - TRY Q11.
 - C. A METER Q13, AND RANGE Q11, METER, SEE Q11 ABOVE.
 10. POINTS:
 - A. "V" METER INDICATOR, SET NO SOUND - IS NOT ON, THE QP.
 - B. MODULATOR VERY LOW IN GAIN - TRY Q11.
 - C. A METER Q13, AND RANGE Q11, METER, SEE Q11 ABOVE.
 11. THE CHANNEL INDICATOR IS CONTROLLED FROM THE BOLD SUPPLY, AND THEREFORE IS A GOOD INDICATOR OF THE NUMBER OF QP OVER RUN OR BOLD SUPPLY CAPACITY RANGE ADJUST. IF NO 8.5 VOLT IS USED TO MAKE THE 8.5V OR 8.2V.

