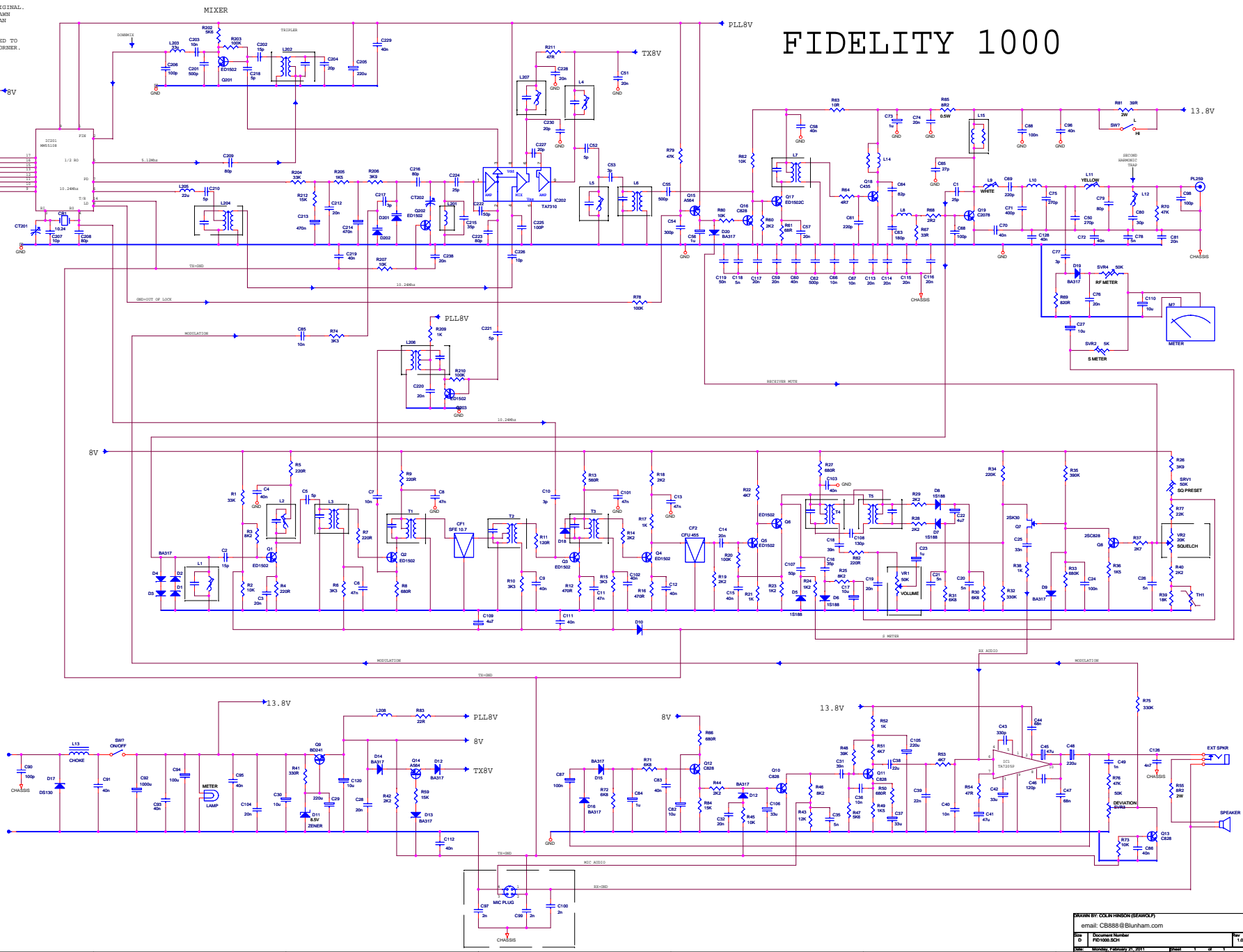
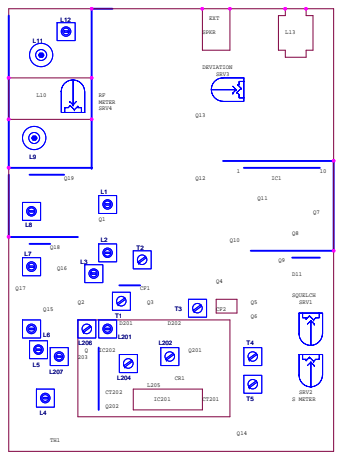


THIS DIAGRAM IS AN ATTEMPT TO MAKE THE CIRCUIT EASIER TO FOLLOW THAN THE ORIGINAL. BY NECESSITY THIS MEANS THAT THE FRONT AND REAR PANEL COMPONENTS ARE NOT DRAWN TOGETHER (AS ON THE ORIGINAL) BUT ARE DRAWN WHERE REQUIRED - I'M SURE YOU CAN FIGURE OUT WHERE THEY ARE (-). THE POWER SUPPLY SECTION ON THE 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 100K OHM 1% IN THE COLLECTOR OF Q14, THE OTHER IS IN THE BASE OF Q10
 2. L104 IS EXTREMELY CRITICAL. IF T103 AND L104 HAVE BEEN "SUBOPTIMIZED", THEN IT IS NOT NECESSARY TO TRY THIS OR ANY OTHER SPECTRUM ANALYSIS AS THERE IS NO WAY TO MAKE THEM WORK. HOWEVER, PLEASE TRY TO APPROXIMATELY LOCATE BOTH SIDES OF THE CENTER FREQUENCY. L104 CAN BE TUNED MANUALLY BY ADJUSTING FOR BEST SIGNAL TO NOISE RATIO. THE OUTPUT SPECTRUM AND NOT FOR MAXIMUM POWER. IF YOU DON'T HAVE A SPECTRUM ANALYZER, LEAVE THIS ALONE IF POSSIBLE. IF YOU HAVE BEEN "SUBOPTIMIZED" THEN WE WOULD WANT YOU TO HAVE A PROBLEM.
 3. L111 SHOULD BE ADJUSTED TO GIVE LOWEST AND HARMONIC OUTPUT.
 4. THERE ARE TWO DIFFERENT VERSIONS OF THE SP OUTPUT STAGE:
 - A. SP OUTPUT STAGE: IF L112 IS 100K AND C112 IS 100PF, THIS VERSION SHOULD GIVE 10WPM AND THIS IS THE BEST VERSION. THIS IS THE VERSION SHOWN IN THE ORIGINAL. THE OTHER VERSION HAS A VARIABLE L112. AN ADJUSTABLE L112 A CANNOT BE ADJUSTED WITH THE BEST SIGNAL AND IS 100K AND C112 IS 100PF.
 - B. SP OUTPUT STAGE: IS SIMILAR CHANGED BY 100 OHM WIRE.
 5. TO GET MORE POWER:
 - A. CHECK C112 SET.
 - B. CHANGE Q17 TO 2N2214.
 6. THESE ALSO EFFECTS BASE FROM "CHECK DOWN" (SIGNAL SECTION AND "CHECK-UP", SOME IMPROVEMENTS CAN BE OBTAINED BY REPLACING THE 10 OHM DIODE WITH A 10 OHM DIODE TYPE. (NO REVISIONS IS NECESSARY).
 7. IN SOME BIRD, C122 (100PF) WAS INADEQUATELY DESIGNED AS 100PF. THE EFFECT OF THIS IS THAT THE TWO SIGNALS FROM THE TUNING STOP ARE NOT THE SAME. (TUNING STOP TO FREQ)
 8. MAKE SURE THE TWO ADJUSTMENTS IN THE REVERSE OF SIGNAL:
 - A. INFO TRANSMIT AND ADJUST L1, THEN INFO RECEIVE AND ADJUST C102.
 9. PAUSES:
 - A. "P" METER INDICATOR, NOT SO GOOD - IF NOT SET, TRY Q4.
 - B. MODULATOR VERY LOW OR ZERO - TRY Q11.
 - C. A METER ONLY, NOT POWER ONLY (1) ABOVE.
 10. THE CHANNEL INDICATOR IS DRIVEN FROM THE WOULD SIGNAL, AND THEREFORE IS A GOOD INDICATOR OF THE RANGE OF SP (100K OHM) OR 100 OHM (100K OHM) OR 100 OHM. IF NO 1.5 VOLT SIGNAL TO READ USE 9.1V OR 8.1V.



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