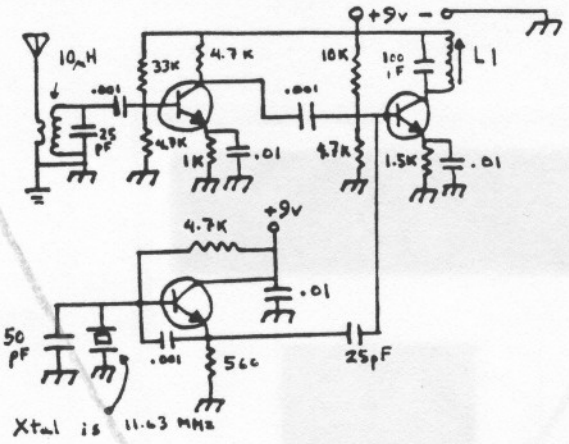
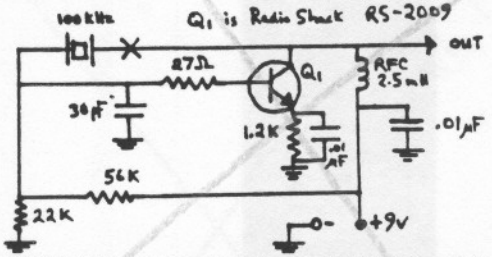
Brian P. Sherwood sent in a circuit for a converter circuit with which the TRF owner can receive WWV on 10 MHz. The transistors are all 2N5223's, L1 is a "loopstick" BCB antenna coil which is placed near the TRF's internal antenna. The TRF is tuned to 1630, and the loopstick slug is peaked, which will allow you to hear WWV on the 1630 setting.

Brian Sherwood's WWV converter



Brian also sent a circuit for a 100 kHz crystal calibrator. "X" marks the position for a trimmer capacitor of 100 pF. (I've found that a smaller one will do), for fine adjustment of the crystal frequency. The circuit should be connected to the receiver antenna terminal through a 100 pF or smaller capacitor.



A 2N2222 transistor can also be used here. This circuit is OK for markers on the BCB, but the harmonics of the calibrator are quite weak above 6 or 7 mHz. A buffer amplifier would help there; a buffer would also make the circuit more stable; frequency varies a bit due to hand capacity near the antenna terminals...The Radio Shack "P-Box" 100 kHz calibrator was a good deal (it cost less than most 100 kHz crystals), but is no longer available. I'll send the circuit of it to anyone interested--my address is at the top of the column.

Radio West sells a 100 kHz calibrator for $25, and a calibrator with markers every 10, 100 or 1000 kHz for $35. Their address is 3417 Purer Road, Escondido, CA 92025. Palomar Engineers, Box 455, Escondido, CA 92025 (what is it about Escondido?), has a calibrator with markers every 100, 50, 25, 10 or 5 kHz for $37.50.