

Known Models: Teaberry Twin “T”

	Both RX & TX “A”	AM/USB Only “B”	LSB Only “C”		Both RX & TX “A”	AM/USB Only “B”	LSB Only “C”
Ch. 1 (26.965)	8.450	13.3165	13.3135	Ch.13 (27.115)	8.600	13.3165	13.3135
Ch. 2 (26.975)	"	13.3265	13.3235	Ch.14 (27.125)	"	13.3265	13.3235
Ch. 3 (26.985)	"	13.3365	13.3335	Ch.15 (27.135)	"	13.3365	13.3335
Ch. 4 (27.005)	"	13.3565	13.3535	Ch.16 (27.155)	"	13.3565	13.3535
Ch. 5 (27.015)	8.500	13.3165	13.3135	Ch.17 (27.165)	8.650	13.3165	13.3135
Ch. 6 (27.025)	"	13.3265	13.3235	Ch.18 (27.175)	"	13.3265	13.3235
Ch. 7 (27.035)	"	13.3365	13.3335	Ch.19 (27.185)	"	13.3365	13.3335
Ch. 8 (27.055)	"	13.3565	13.3535	Ch.20 (27.205)	"	13.3565	13.3535
Ch. 9 (27.065)	8.550	13.3165	13.3135	Ch.21 (27.215)	8.700	13.3165	13.3135
Ch.10 (27.075)	"	13.3265	13.3235	Ch.22 (27.225)	"	13.3265	13.3235
Ch.11 (27.085)	"	13.3365	13.3335	Ch.23 (27.255)	"	13.3565	13.3535
Ch.12 (27.105)	"	13.3565	13.3535				

Additional Crystals: 5.1985 MHz AM/USB Carrier Osc.
 5.2015 MHz LSB Carrier Osc.
 4.7450 MHz AM-only RX Oscillator

Synthesis: [“A” + “B” + 5.1985 MHz] = AM/USB carrier; [“A” + “C” + 5.2015 MHz] = LSB carrier

Example: For Ch.1 AM, [8.450 MHz + 13.3165 MHz + 5.1985 MHz] = 26.965 MHz. The Carrier Oscillator and 13 MHz Synthesizer Oscillator are both offset 1.5 KHz on SSB, giving the required total offset of ±3 KHz. The first I.F. is 5.200 MHz. The 455 KHz second I.F. for AM is produced by mixing the 5.200 MHz high I.F. with a separate 4.7450 MHz crystal RX Local Oscillator, [5.200 – 4.745] = 0.455 MHz or 455 KHz.

Compliments of:

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