

Known Models: Johnson Messenger 122, 123A, 123SJ, 130A, 132, 223, 250

	Both RX & TX "A"	RX Only "B"	TX Only "C"		Both RX & TX "A"	RX Only "B"	TX Only "C"
Ch. 1 (26.965)	32.700	6.190	5.735	Ch.13 (27.115)	32.850	6.190	5.735
Ch. 2 (26.975)	"	6.180	5.725	Ch.14 (27.125)	"	6.180	5.725
Ch. 3 (26.985)	"	6.170	5.715	Ch.15 (27.135)	"	6.170	5.715
Ch. 4 (27.005)	"	6.150	5.695	Ch.16 (27.155)	"	6.150	5.695
Ch. 5 (27.015)	32.750	6.190	5.735	Ch.17 (27.165)	32.900	6.190	5.735
Ch. 6 (27.025)	"	6.180	5.725	Ch.18 (27.175)	"	6.180	5.725
Ch. 7 (27.035)	"	6.170	5.715	Ch.19 (27.185)	"	6.170	5.715
Ch. 8 (27.055)	"	6.150	5.695	Ch.20 (27.205)	"	6.150	5.695
Ch. 9 (27.065)	32.800	6.190	5.735	Ch.21 (27.215)	32.950	6.190	5.735
Ch.10 (27.075)	"	6.180	5.725	Ch.22 (27.225)	"	6.180	5.725
Ch.11 (27.085)	"	6.170	5.715	Ch.23 (27.255)	"	6.150	5.695
Ch.12 (27.105)	"	6.150	5.695				

Synthesis: "A" - "C" = direct TX carrier frequency;
 "A" - "B" = RX frequency (offset lower by 455 KHz)

Example: For Ch.1, 32.700 MHz - 5.735 MHz = 26.965 MHz, the on-channel TX frequency. During RX, the 6.190 MHz crystal is used, which is exactly 455 KHz higher than 5.735 MHz. This produces the second IF for the receiver. This particular scheme has no fixed high IF since it must pass a *band* of frequencies from 5.735 MHz to 5.695 MHz; only the 455 KHz second IF is constant.

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