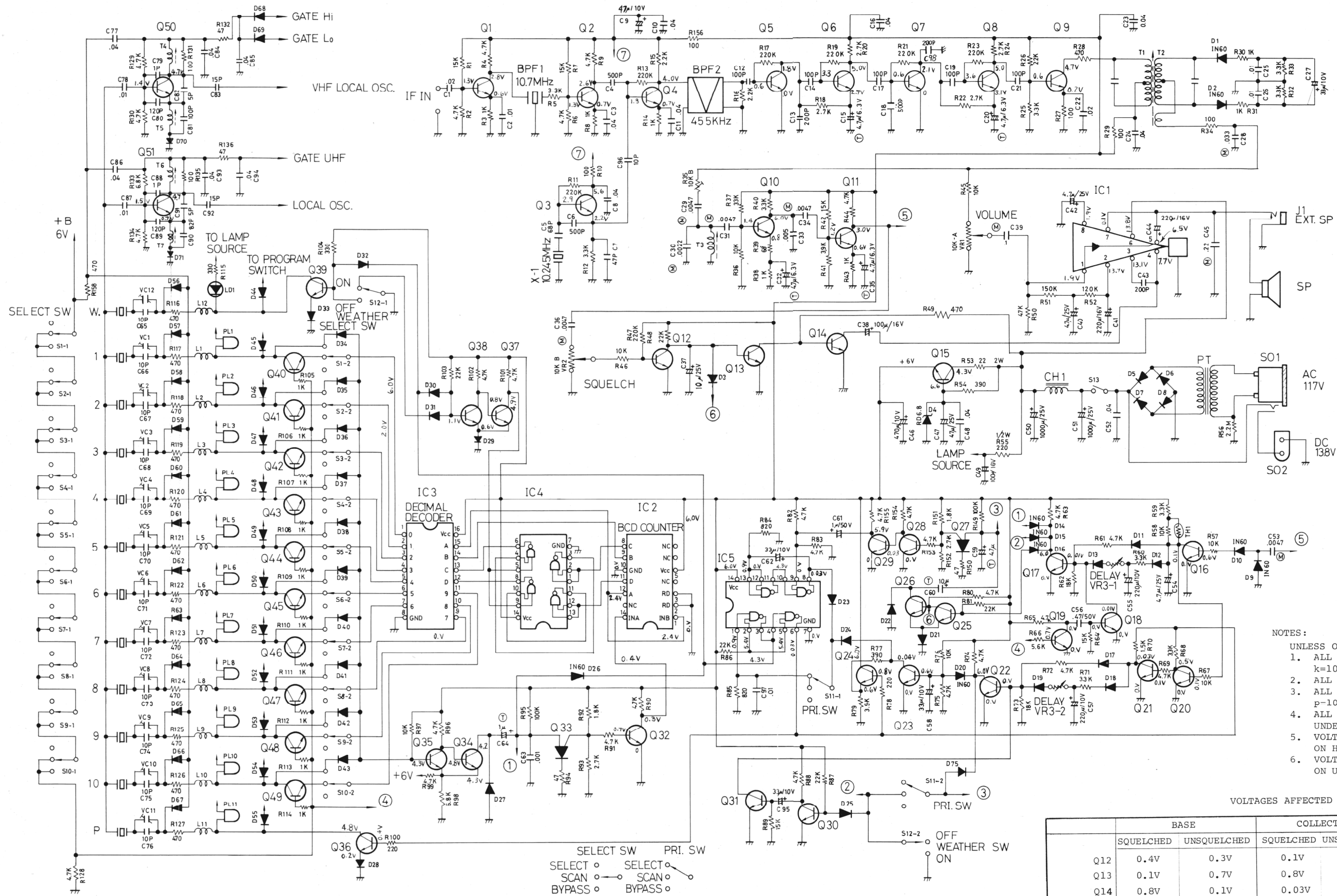


# 4354 SCHEMATIC DIAGRAM



To change frequency range for usable sensitivity. It is not enough to adjust coils and trimmer condensers. Accordingly the change of capacities of capacitors is necessary as follows.

Lo VHF				Hi VHF				UHF			
TYPE	FREQUENCY RANGE	C316	C331	C321	C330	TYPE	FREQUENCY RANGE	C423	C433	TYPE	FREQUENCY RANGE
H1	150~158MHz	10pF	10pF	17pF	12pF	U1	450~470MHz	12pF	C330	U2	470~490MHz
H2	156~164MHz	8pF	15pF	15pF	12pF	U3	490~510MHz	10pF	C323	U4	500~520MHz
H3	166~174MHz	5pF	12pF	12pF	10pF						

Covers from 30.0 to 50.0 MHz without any parts change and adjustment.

TYPE	FREQUENCY RANGE	C423	C433
U1	450~470MHz	12pF	C330
U2	470~490MHz	12pF	C323
U3	490~510MHz	10pF	C331
U4	500~520MHz	10pF	C321

\* Supplied from the factory pretuned for this range.

- NOTES:
- ALL RESISTANCE VALUES ARE IN OHMS.  
k=10<sup>3</sup> M=10<sup>6</sup>
  - ALL RESISTORS ARE 1/2 WATT 10%.
  - ALL CAPACITANCE VALUES ARE IN uF.  
p=10<sup>-6</sup> uF
  - ALL VOLTAGES MEASURED WITH A D.V.M. UNDER NO SIGNAL, UNSQUELCHED & SCAN POSITION.
  - VOLTAGES ON Q50 MEASURED WITH S14~S24 ON HIGH VHF POSITION.
  - VOLTAGES ON Q51 MEASURED WITH S14~S24 ON UHF POSITION.

VOLTAGES AFFECTED BY SQUELCH

	BASE		COLLECTOR		EMITTER	
	SQUELCHED	UNSQUELCHED	SQUELCHED	UNSQUELCHED	SQUELCHED	UNSQUELCHED
Q12	0.4V	0.3V	0.1V	0.7V	0. V	0. V
Q13	0.1V	0.7V	0.8V	0.1V	0. V	0. V
Q14	0.8V	0.1V	0.03V	0. V	0. V	0. V
Q40 ~ Q49		5.6V		5.5V		5.0V
	WEATHER SW		WEATHER SW		WEATHER SW	
	ON	OFF	ON	OFF	ON	OFF
Q30	0.5V	0.7V	6.0V	0.04V	0. V	0. V
Q31	0.01V	0. V	0.5V	0. V	0. V	0. V
Q39	1.6V	0. V	0.8V	4.7V	0.8V	0. V