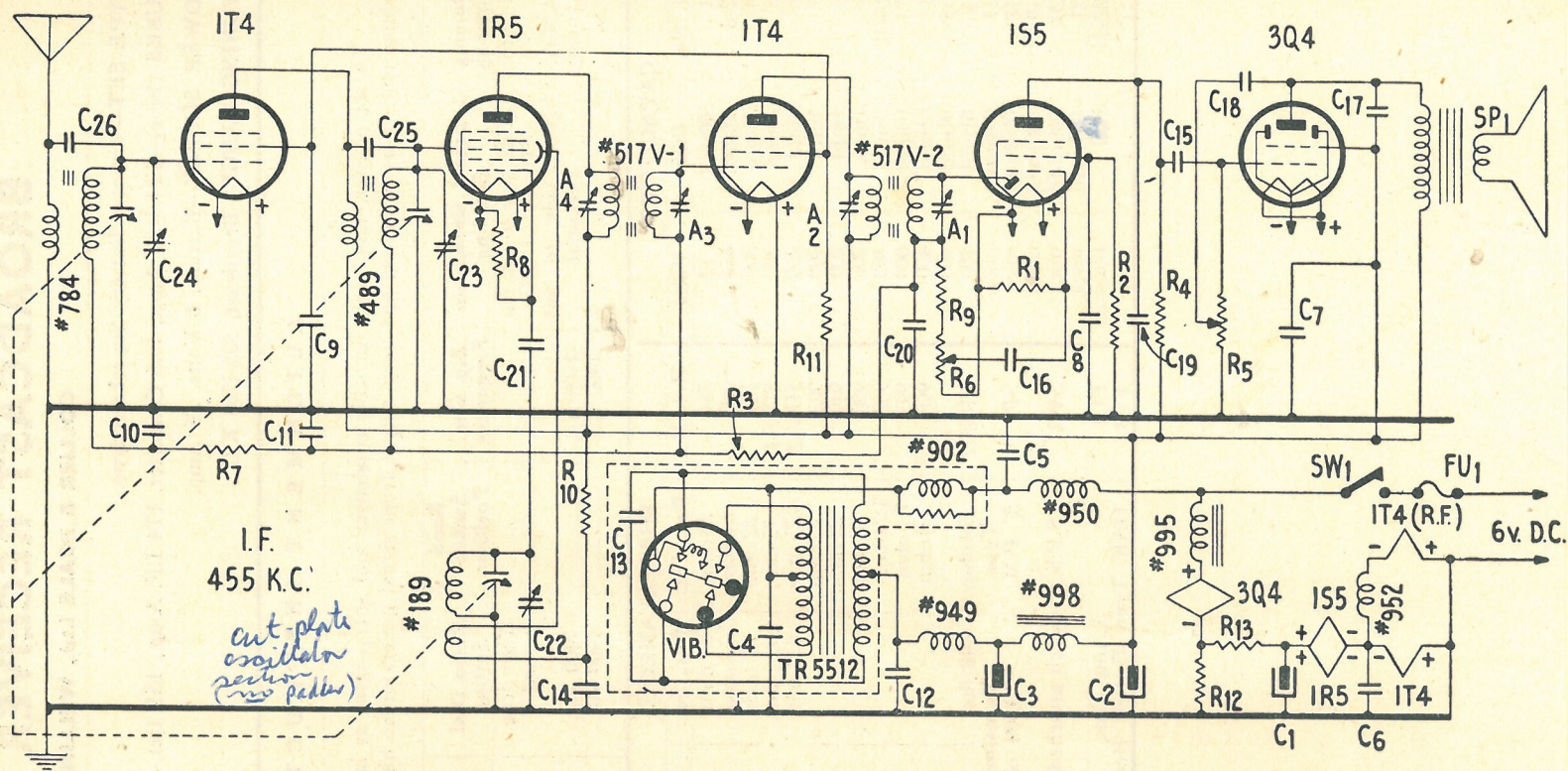




SCHEMATIC DIAGRAM ~ PACEMAKER MODEL 517V

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	1T4	1.4 v.	79 v.	65 v.	O	1.4 v.	O	O	
Conv.	1R5	1.5v.	79 v.	56 v.	-8 v.	1.5 v.	O	2.8 v.	
I.F.	1T4	1.5v.	79 v.	65 v.	O	1.5 v.	O	O	
Det-AF.	1S5	1.5v.	O	O	10 v.	12 v.	O	2.8 v.	
Output	3Q4	5.2 v.	75 v.	O	79 v.	3.8 v.	75 v.	5.2 v.	

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	1T4	*	.5 meg	1 meg	Inf.	*	3 meg	O	
Conv.	1R5	*	.5 meg	.52 meg	100 K.	*	2.75 meg	*	
I.F.	1T4	*	.5 meg	1 meg	Inf.	*	2.75 meg	O	
Det-AF.	1S5	*	O	.5 meg	4 meg	1.5 meg	10 meg	*	
Output	3Q4	*	.5 meg	.5 meg	.5 meg	*	.5 meg	*	

1. D.C. voltage measurements are at 2,000 ohm per volt—A.C. voltage measurements at 1,000 ohm per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.

4. Nominal Tolerance on component value make possible a variation of $\pm 10\%$ in voltage and resistance readings.
 5. Volume control at maximum, no signal applied for voltage measurements.
 6. Resistance readings in B+ circuits may vary widely according to condition of filter capacitors.
- * Do not use ohmmeter to measure filament resistance.

TECHNICAL INFORMATION **COVERING** **BROADCAST RECEIVER TYPE 517V.**

COLLIER & BEALE Ltd., WELLINGTON

TYPE SET—Vibrator Battery Superhetrodyne.

TUBES (Five)—1T4 R.F. Amp., 1R5 Converter, 1T4 I.F. Amp., 1S5 Det.-A.F., 3Q4 Power Output.

POWER SUPPLY—Battery, 6 Volts, .75 Amp.

TUNING RANGE—Broadcast, 535-1700 K.C.

ALIGNMENT INSTRUCTIONS

To set pointer, fully mesh variable condenser and set pointer at last reference mark at left end of dial. Set volume control as maximum and keep output from signal generator no higher than necessary to obtain output reading.

Dummy Antenna	Signal Generator Coupling	Sig. Gen. Frequency	Band Switch Position	Radio Dial Setting	Output Meter	Adjust	Remarks
.1 mfd.	High side to pin No. 6 (grid) of 1R5	455 Kc.		High freq. end	Across voice coil	A1, A2, A3, A4.	Adjust for maximum output
R.M.A. Standard	High side to ant. Terminal	1400 Kc.		1400 Kc.	"	C22	" "
"	"	1400 Kc.		1400 Kc.	"	C23 & 24	" "

CAPACITORS			MISCELLANEOUS			RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.	Ref. No.	Res.	Watts
C1	500mfd	12	784	20 ohm	2.7 ohm	R1	10 meg.	$\frac{1}{2}$ watt
C2-3	10mfd	450	489	64 ohm	2.7 ohm	R2	3 meg.	$\frac{1}{2}$ watt
C4	.25mfd	200	189	.82 ohm	2.7 ohm	R3	2 meg.	$\frac{1}{2}$ watt
C5	.25mfd	200	517V-1	6.75 ohm	6.75 ohm	R4	1 meg.	$\frac{1}{2}$ watt
C6	.1mfd	200	517V-2	6.75 ohm	6.75 ohm	R5	.5 meg.	pot.
C7	.1mfd	200	902	.25 ohm		R6	.5 meg.	Pot.
C8	.1mfd	200	949	.25 ohm		R7	.25 meg.	$\frac{1}{2}$ watt
C9	.1mfd	200	950	.28 ohm		R8	.1 meg.	$\frac{1}{2}$ watt
C10-12	.05mfd	400	952	1.7 ohm		R9	.05 meg.	$\frac{1}{2}$ watt
C13	.03mfd	600	995	7.5 ohm		R10	7,500 ohm	$\frac{1}{2}$ watt
C14	.01mfd	400	998	500 ohm		R11	5,000 ohm	$\frac{1}{2}$ watt
C15	.01mfd	400				R12	270 ohm	$\frac{1}{2}$ watt
C16	.01mfd	400	TR5512	.78 ohm	440 ohm	R13	10 ohm	$\frac{1}{2}$ watt
C17	.001mfd	mica		Type	Transformer			
C18	.0001mfd	mica	SP1	5" P.M.	10,000 ohm			
C19	.0001mfd	mica						
C20	.0001mfd	mica	SW1	S.P.S.T. switch attached to R5				
C21	.0001mfd	mica						
C22-24	3-30	trimmer	FU1	3 Amp Fuse				
			V1B	OAK Type 35 Self Rectifying				