

MODEL "DRIFTON"

Memogram

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H.W. CLARKE (N.Z.) LTD.

TECHNICAL INFORMATION COVERING PACEMAKER DUAL WAVE RECEIVER MANUFACTURED BY COLLIER & BEALE LTD.

TYPE SET—A.C. Superheterodyne.

TUBES (eight): ECH81 Converter, EBF80 I.F. Amp. Det., 2 x EF86 A.F. Amp., 2 x EL84 Output, EM84 Tuning Indicator, EZ81 Rectifier.

POWER SUPPLY—230 v. A.C. Rating 55 watts.

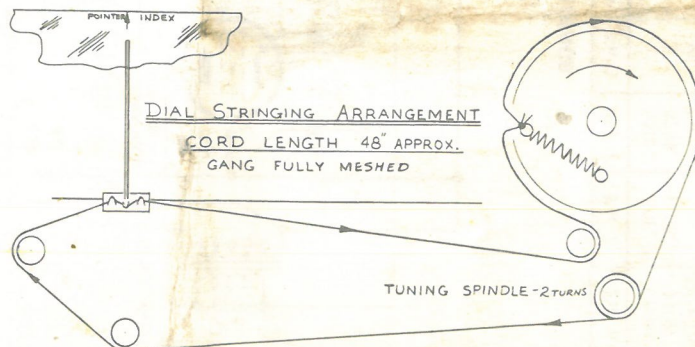
TUNING RANGE—Broadcast, 530-1530 k.c. S.W., 6.45-19.4 m/cs.

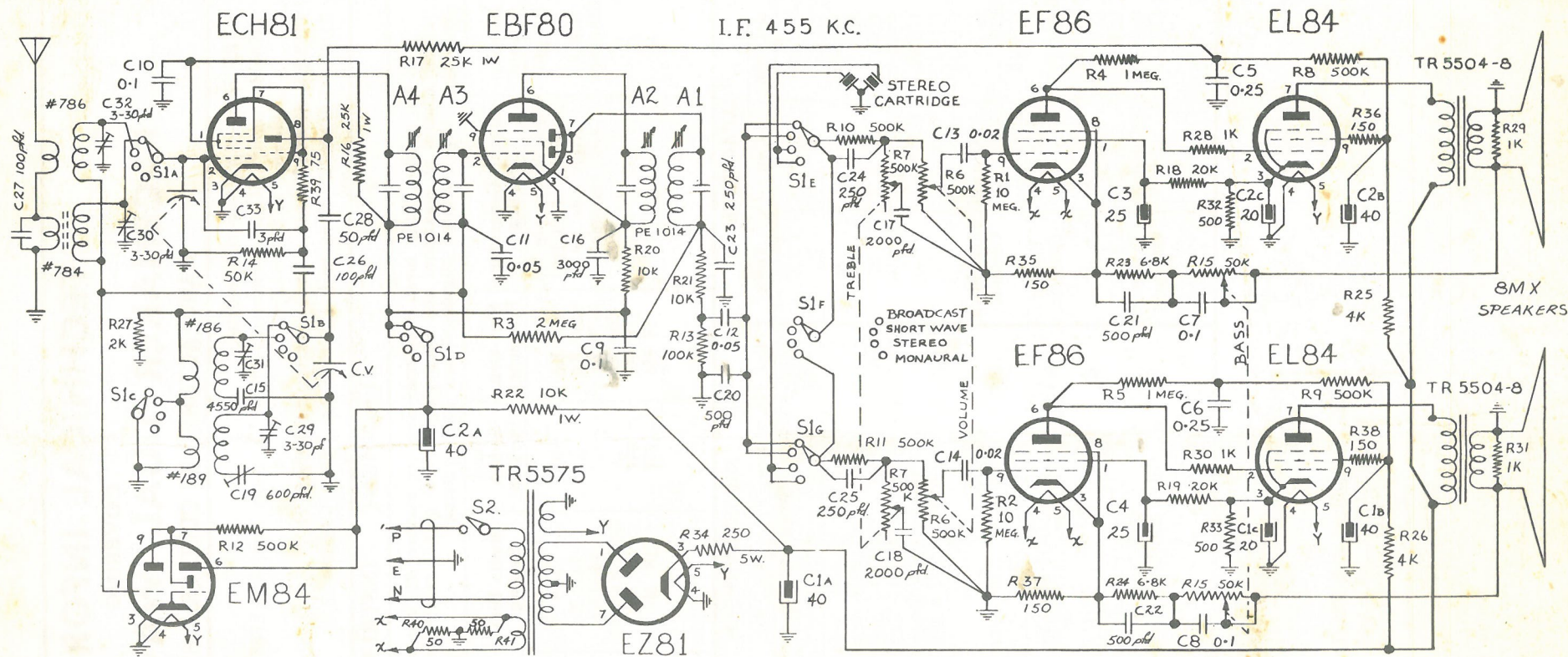
ALIGNMENT INSTRUCTIONS

To set pointer, fully mesh condenser and set pointer at last reference mark at left end of dial. Set volume control at maximum and keep output from signal generator no higher than necessary to obtain output readings. Use insulated alignment tool for adjusting.

Dummy Antenna	Signal Generator Coupling	Sig. Gen. Frequency	Band Switch Position	Radio Dial Setting	Output Meter	Adjust	Remarks
0.1 μ fd.	High Side to pin No. 12 (grid) of ECH81.	455 Kc.	BC	High freq. end	Across voice coil	A1, A2, A3, A4, C29	Adjust for maximum output
R.M.A. Standard	High side to ant. terminal	1400 Kc.	"	1400 Kc.	"	C30	" "
"	"	1400 Kc.	"	1400 Kc.	"	C30	" "
"	"	600 Kc.	"	Rock Variable	"	C19	" "
"	"	18 Mc.	SW	18 Mc.	"	C31	" "
"	"	18 Mc.	SW	18 Mc.	"	C32	" "

CAPACITORS			MISCELLANEOUS			RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.	Ref. No.	Res.	Watts
C1 a-b	40 μ fd.	350	784	20 ohm	2.7 ohm	R1-2	10 meg.	$\frac{1}{2}$
C1 c	20 "	"	786	0.4 "	0.03 "	R3	2 "	"
C2 a-b	40 "	"	189	0.85 "	2.44 "	R4-5	1 "	"
C2 c	20 "	"	186	0.45 "	0.03 "	R6-7	500K/500K	Pot
C3-4	25 "	25	PE1014	14.5 "	13.5 "	R8-12	500K	$\frac{1}{2}$
C5-6	0.25 "	350	TR5504-8	5000 "	3.5 "	R13	100K	"
C7-10	0.1 "	"		Volts	Volts	R14	50K	"
C11-12	0.05 "	"	TR5575	230	290 a side	R15	50K/50K	Pot
C13-14	0.02 "	"			2 x 6.3	R16-17	25K	$\frac{1}{2}$
C15	4550 μ fd.	Silver Mica				R18-19	20K	"
C16	3000 "	Ceramic	S1	7P.4 Pos. 3 Bank Rotary Switch		R20-21	10K	"
C17-18	2000 "	"				R22	10K	1
C19	600 "	Padder	CV	Polar C90-02/1 (swing 351 μ fd.)		R23-24	6.8K	$\frac{1}{2}$
C20-22	500 "	Ceramic				R25-26	4K	"
C23-25	250 "	"				R27	2K	"
C26-27	100 "	"	PL	6.5v. 0.3 amp. M.E.S. Tub. Lamp		R28-31	1K	"
C28	50 "	"				R32-33	500 ohms	1
C29-32	3-30 "	Trimmer				R34	250 "	5
C33	3 "	Gimmick	S2	DPST on R15		R35-38	150 "	$\frac{1}{2}$
						R39	75 "	"
						R40-41	50 "	"





SCHEMATIC DIAGRAM MODEL "DRIFTON"

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
Conv.	ECH81	75	—	—	—	6.3 AC	138	—8	125	—8
I.F. Det.	EBF80	74	—	—	—	73	—	—	—	—
A.F. Amp	2 x EF86	23	—	0.05	3.2 AC	3.2 AC	17	—	0.05	—
Output	2 x EL84	—	17	23	—	6.3 AC	—	225	—	235
Rectifier	EZ81	285 AC	—	281	—	—	—	285 AC	—	—
Tun. Ind.	EM84	—	—	—	—	—	138	35	—	35

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
Conv.	ECH81	535K	2.11 meg.	—	—	—	510K	50K	1 meg.	50K
I.F. Det.	EBF80	520K	2.11 meg.	—	—	—	520K	110K	—	—
A.F. Amp.	2 x EF86	20.5K	—	150	25	25	2 meg.	—	150 ohm.	10 meg.
Output	2 x EL84	—	2 meg.	500 ohm.	—	—	—	500K	—	500K
Rectifier	EZ81	115 ohm	—	500K	—	—	—	115 ohm.	—	—
Tun. Ind.	EM84	2.11 meg.	—	—	—	—	510K	1 meg.	—	1 meg.

1. D.C. voltage measurements are at 20,000 ohms per volt—A.C. voltage measurements at 5,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to chassis. Band Switch in Broadcast position.

4. Nominal tolerances on component values 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.

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June 1959