

TECHNICAL INFORMATION

COVERING PACEMAKER ALL WAVE RECEIVER

Manufactured by COLLIER & BEALE Ltd. WELLINGTON.

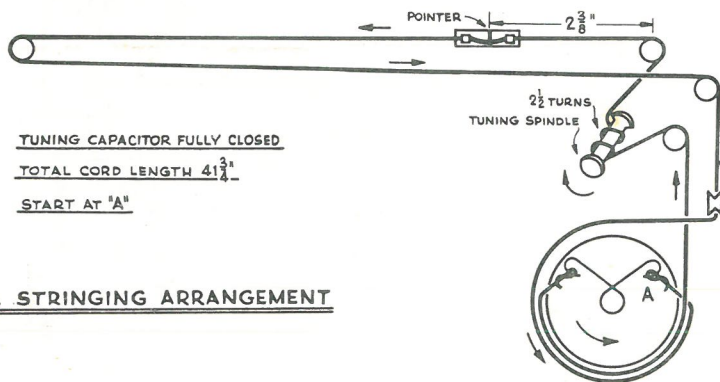
TYPE SET— A.C. Superheterodyne, Moulded Bakelite Cabinet
TUBES (Five)— ECH81 Converter, 6BA6 I.F. Amp., 6AV6 Det.-A.F., 6AQ5 Power Output, 6X4 Rectifier.
POWER SUPPLY— 230v. A.C. Rating 30 watts.
TUNING RANGE— Broadcast, 525-1550 kc. SW1, 2.2 - 7.5 Mc. SW2, 6.5 - 23Mc.

ALIGNMENT INSTRUCTIONS

To set pointer:- fully mesh condenser and set pointer as stringing diagram below. 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 ufd.	High Side to pin No 2 (Grid) of ECH81	470 Kc.	BC	High freq. end	Across voice coil	A1, A2, A3, A4	Adjust for maximum output
R.M.A. Standard	High side to ant. terminal	20 Mc/s	SW2	20 Mc/s	"	C26	"
		6.5 Mc/s	SW1	6.5 Mc/s	"	C23	"
		1400 Kc/s	BC	1400 Kc/s	"	C25	"
					"	C22	"
					"	C24	"
					"	C21	"

CAPACITORS			MISCELLANEOUS				RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.		Ref. No.	Res.	Watts
C1a-b	50 pfd	450	GR1-12A	-	2.4 ohm	BC	R1	10 Meg.	1/2
C1c	8 "	"	GR1-12D	-	2.7 "	"	R2	2 "	"
C2	25 "	25	GR1-12B	0.08 ohm	0.13 "	MW	R3	1 "	"
C3	0.25 "	400	GR1-12E	-	0.14 "	"	R4	500K ohm	Pot
C4-6	0.05 "	350	GR1-12C	0.1 "	0.03 "	SW	R5	500K "	"
C7	0.02 "	"	GR1-12F	-	0.03 "	"	R6	250K "	1/2
C8	0.01 "	1000	GR1-21A	9.1 "	9.1 "	1F	R7	100K "	"
C9	0.01 "	Styroseal	GR1-21B	5.3 "	5.3 "	1F	R8	100K "	"
C10	0.005 "	Ceramic		Volts	Volts	Volts	R9	50K "	"
C11	0.005 "	350	TR5571-2	230	175/175	6.3	R10	50K "	"
C12	0.005 "	400		Type	Transformer		R11	20K "	1
C13	6000 puf	Silver Mica	SP1	5X7PM	Less		R12	15K "	1/2
C14	3950 "	"	S5	SPST attached to R5			R13	10K "	"
C15	3000 "	"	TR5504-2	5000 ohmz	3 ohmz.		R14	3K "	1
C16	1000 "	Mica	SL-4	4P 3 Position Rotary Switch			R15	3K "	1/2
C17	485 "	Silver Mica	CV	Plessey 2 Gang	(528 pf SWING)		R16	600 "	"
C18	250 "	Mica					R17	500 "	"
C19	100 "	"	P.L.	6.5v. 0.3amp. M.E.S tub.			R18	300 "	1
C20	50 "	"		lamp			R19	2.3 "	1
C21-26	3-30 "	Trimmers							



Pacemaker

"Atlanta"

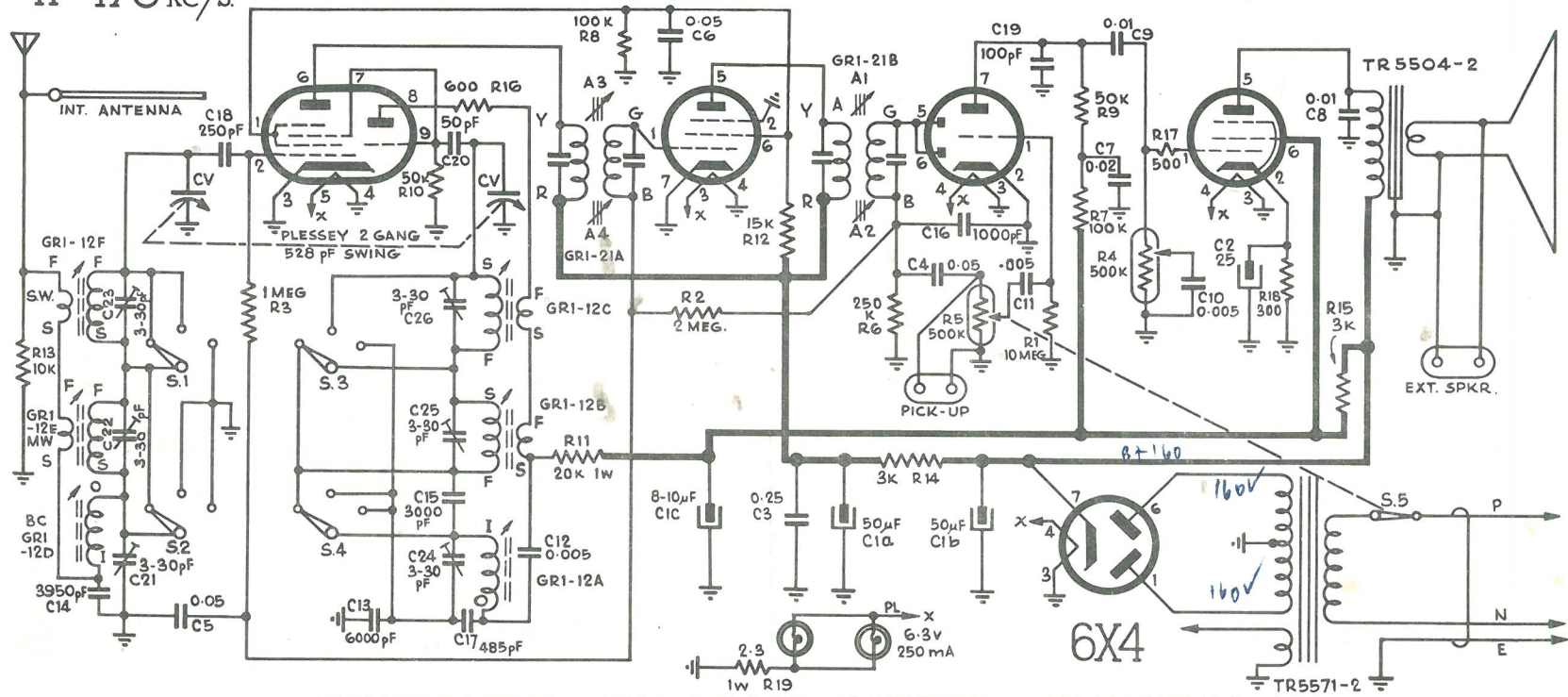
IF 470 KC/S.

ECH81

6BA6

6AV6

6AQ5



SCHEMATIC DIAGRAM MODEL 'ATLANTA'

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
Conv.	ECH81	55	-	-	-	6	125	-	43	-
I.F.	6BA6	-	-	6	-	125	55	-	-	-
Det-AF	6AV6	-	-	-	6	-	-	80	-	-
Output	6AQ5	-	6.4	-	6	150	140	-	-	-
Rect.	6X4	160AC	-	-	6	-	160AC	160	-	-

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
Conv.	ECH81	100K	3.2Meg	-	-	-	115K	50K	140K	50K
I.F.	6BA6	2.2Meg	-	-	-	115K	100K	-	-	-
Det-AF	6AV6	10Meg	-	-	-	250K	250K	270K	-	-
Output	6AQ5	500K	300	-	-	120K	120K	500K	-	-
Rect.	6x4	250	-	-	-	250	120K	120K	-	-

1. D.C. voltage measurements are at 20,000 ohms per volt—A.C. voltage measurements at 1,000 ohms per volt.

2. Socket connections are shown as bottom views.

3. Measured values are from socket pin to chassis.

4. Nominal tolerance 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.

ATLANTA

Oct 1957