



"H.M.V. MINOR"
MODEL 524B.C.

HIS MASTER'S VOICE (N.Z.) LTD.
WELLINGTON

Inf'd by Cap

BROADCASTING RECEIVER MODEL 524 B.C. SERVICE DATA SHEET

TYPE SET.—A.C. Superhetrodyne. Moulded Bakelite Cabinet.

TUBES (Four).—ECH42, Converter, EAF42 I.F.-Det., EL41 Output, EZ40 Rectifier.

POWER SUPPLY.—230 v. A.C. Rating 25 watts.

TUNING RANGE.—Broadcast 535-1540 K.C.

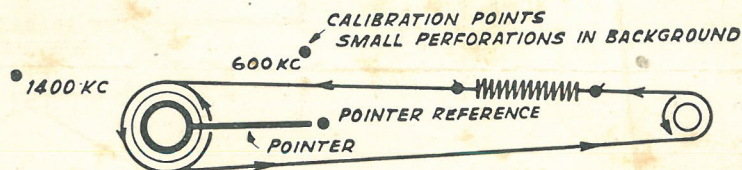
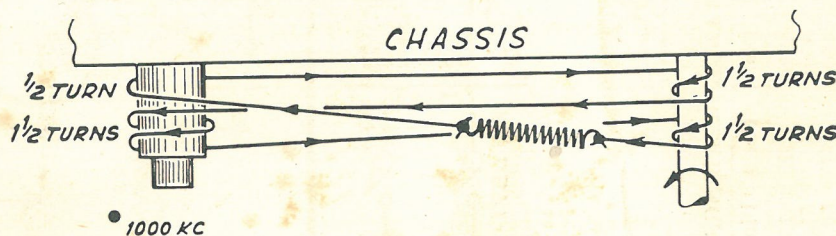
"MINOR"

ALIGNMENT INSTRUCTIONS

To set pointer, fully mesh condenser and set pointer at last reference mark at right end of dial. Set volume control at 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
0.1 μ fd.	High side to grid of ECH42.	455 Kc.	—	High freq. end	Across voice coil	A1, A2, A3, A4,	Adjust for maximum output
R.M.A. Standard	High side to ant. term.	1400 Kc.	—	1400 Kc.	"	C12	" "
"	"	1400 Kc.	—	1400 Kc.	"	C13	" "
"	"	600 Kc.	—	Rock Variable	"	C9	" "

CAPACITORS			MISCELLANEOUS				RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.		Ref. No.	Res.	Watts
C1	50 μ fd.	250	PE100	13 ohm	13 ohm	I.F.	R1	2 meg	$\frac{1}{2}$ watt
C2	50 "	250	PE100	13 "	13 "	I.F.	R2	2 meg	$\frac{1}{2}$ watt
C3	10 "	250	721	18 "	2.2 "	B.C.	R3	500K ohm	Pot
C4	0.25 "	250	121	0.9 "	2.3 "	B.C.	R4	500K ohm	$\frac{1}{2}$ watt
C5-6	0.05 "	500		Volts	Volts	Volts	R5	50K ohm	$\frac{1}{2}$ watt
C7	0.01 "	250	TR5571-2	230	175 aside	6.3	R6	20K ohm	$\frac{1}{2}$ watt
C8	0.005 "	Mica		Type	Transformer		R7	5K ohm	$\frac{1}{2}$ watt
C9	600 μ fd.	Padder	SP1	6 x 4 Elip.	7000 ohms to 3 ohms.		R8	3K ohm	1 watt
C10	500 "	Mica	SW1	D.P.S.T.	Switch attached to R3		R9	150 ohm	$\frac{1}{2}$ watt
C11	250 "	"	CV	2 Gang	Philips CP90906		R10	1.7 ohm	1 watt
C12-13	3-50 "	Trimmer	P.L.	6.5v. 0.3 amp	MES. Tub. Lamp				
C14	5 "	Ceramic							



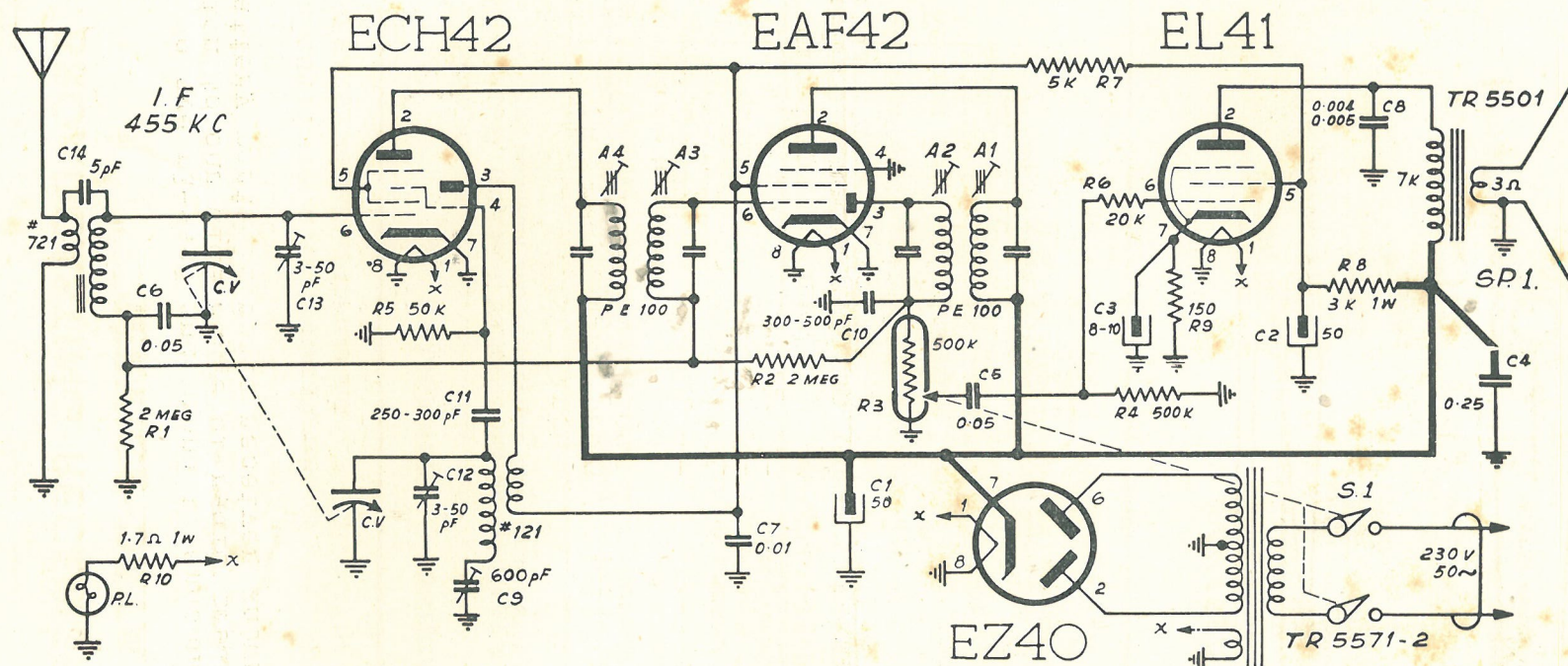
DIAL STRINGING ARRANGEMENT
WORKING CORD LENGTH 15"



"MINOR" 524 BC

Inf'd by Cap

1453 524 BC
MINOR



SCHEMATIC DIAGRAM MODEL 524BC.

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Conv.	ECH42	6.2 a.c.	150	70	-2	70	0	—	—
I.F.-Det	EAF42	6.2 a.c.	150	0	—	70	0	—	—
Output	EL41	6.2 a.c.	145	3	—	120	0	3	—
Rect.	EZ40	6.2 a.c.	145 ac	—	—	—	145 ac	155	—

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Conv.	ECH42	—	500K	510K	50K	510K	1 meg	—	—
I.F.-Det	EAF42	—	500K	500K	—	510K	1 meg	—	—
Output	EL41	—	500K	150	500K	503K	520K	150	—
Rect.	EZ40	—	250	—	—	—	250	500K	—

1. D.C. voltage measurements are at 2,000 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 common negative (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 the condition of filter capacitors.