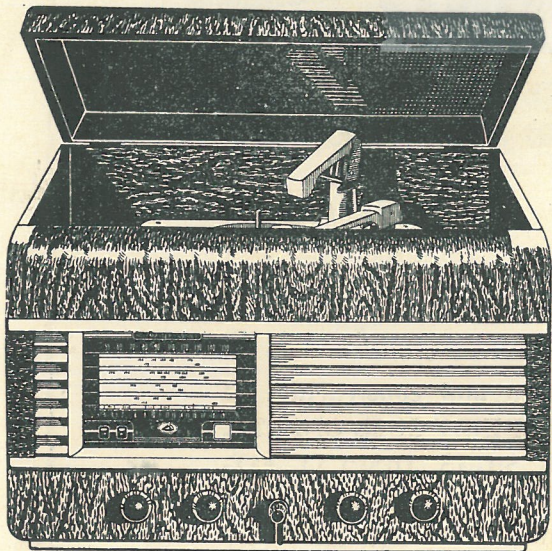
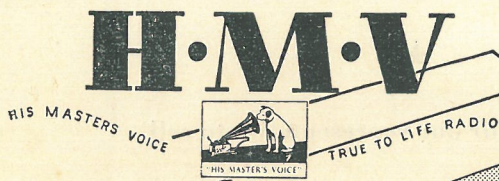




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Avon

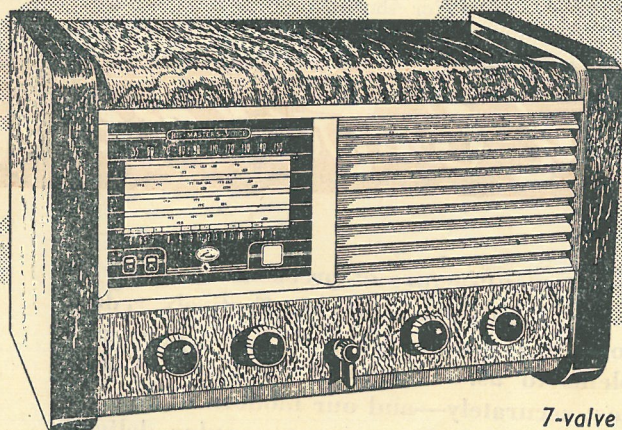
507 RG
507 D RG

RdE Feb 1951

R4E P.6 Dec 1950

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507D

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6V7X+DW "Wembley" (Same class as 507D/RG)

R4E
also

Dec 1950
Nov. 1950

507D



"WEMBLEY" & "AVON"
MODELS 507D & 507D/RG

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

DUAL WAVE RECEIVER MODELS 507D & 507D/RG SERVICE DATA SHEET

TYPE SET.—A.C. Superhetrodyne.

TUBES (Seven)—7B7 R.F. Amp., 7S7 Converter, 7B7 I.F. Amp., 7C6 Det.-A.F., 7C5 Power Output, 7Y4 Rectifier, 6U5 Tuning Indicator.

POWER SUPPLY.—230 v. Rating 50 watts.

TUNING RANGE—Broadcast, 530-1520 Kc/s.; Shortwave 6-19.5 Mc/s.

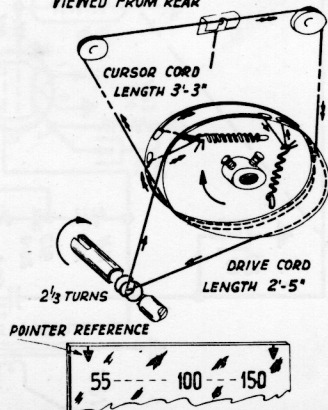
ALIGNMENT INSTRUCTIONS

To set pointer, fully mesh variable 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 reading. 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 f.	High side to pin No. 6 (grid) of 7S7	455 Kc.	B.C.	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.	"	C31	" "
"	"	1400 Kc.	"	1400 Kc.	"	C30 & C29	" "
"	"	600 Kc.	"	Rock Variable	"	C23	" "
"	"	18 Mc.	S.W.	18 Mc.	"	C34	" "
"	"	18 Mc.	"	18 Mc.	"	C33 & C32	" "
"	"	1400 Kc.	B.C.	1400 Kc.	"	C30 & C29	" "

CAPACITORS			MISCELLANEOUS				RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.		Ref. No.	Res.	Watts
C1	40 μ f.	450	786	0.4 ohm	0.03 ohm	SW	R1	10 meg.	$\frac{1}{2}$ watt
C2	40 "	450	785	17.5 "	2.57 "	BC	R2	2 "	"
C3	25 "	25	486	1 "	0.03 "	SW	R3	1 "	"
C4	10 "	450	485	69 "	2.40 "	BC	R4	500K ohm	Pot.
C5	10 "	450	186	0.45 "	0.03 "	SW	R5	500K "	Pot.
C6	0.1 "	500	185-1	2.1 "	2.5 "	BC	R6-8	250K "	$\frac{1}{2}$ watt
C7	0.1 "	500	PE-52	6.5 "	6.5 "	IF	R9	100K "	"
C8	0.1 "	500	PE-52	6.5 "	6.5 "	"	R10	75K "	"
C9	0.1 "	500		Volts	Volts	Volts	R11-12	50K "	"
C10	0.1 "	500	TR5566	230	350/350	2 x 6.3	R13	50K "	1 watt
C11-15	0.05 "	500					R14	30K "	2 watt
C16	0.02 "	500	SP1	8" P.M. (5000 ohm transformer)			R15	27K "	"
C17-19	0.01 "	500					R16	10K "	$\frac{1}{2}$ watt
C20	0.00371 "	Mica	Sw a-g	7 Pole 2 Pos. band switch			R17	2K "	"
C21	0.002 "	Mica					R18	1500 ohm	5 watt
C22	0.001 "	Mica	Sw2	2 Pole 2 Pos. Radio-Gram. Switch			R19	750 "	$\frac{1}{2}$ watt
C23	600 μ f.	Padder					R20	600 "	"
C24	0.0005 μ f.	Mica	Sw3	S.P.S.T. switch attached to R5			R21	500 "	"
C25	0.00025 "	Mica					R22	300 "	"
C26-28	0.0001 "	Mica	CV 1-3	Plessey Gang Type 9393/L22 (437 μ f. max.)			R23	300 "	1 watt
C29-34	3-30 μ f.	Trimmer					R24	200 "	$\frac{1}{2}$ watt
C35-37	5 "	Ceramic					R25	75 "	"
C38	1 "	Gimmick							

DIAL STRINGING ARRANGEMENT VIEWED FROM REAR



NOTES

Features in these models include:

A.V.C. switching to preserve oscillator stability on shortwave.

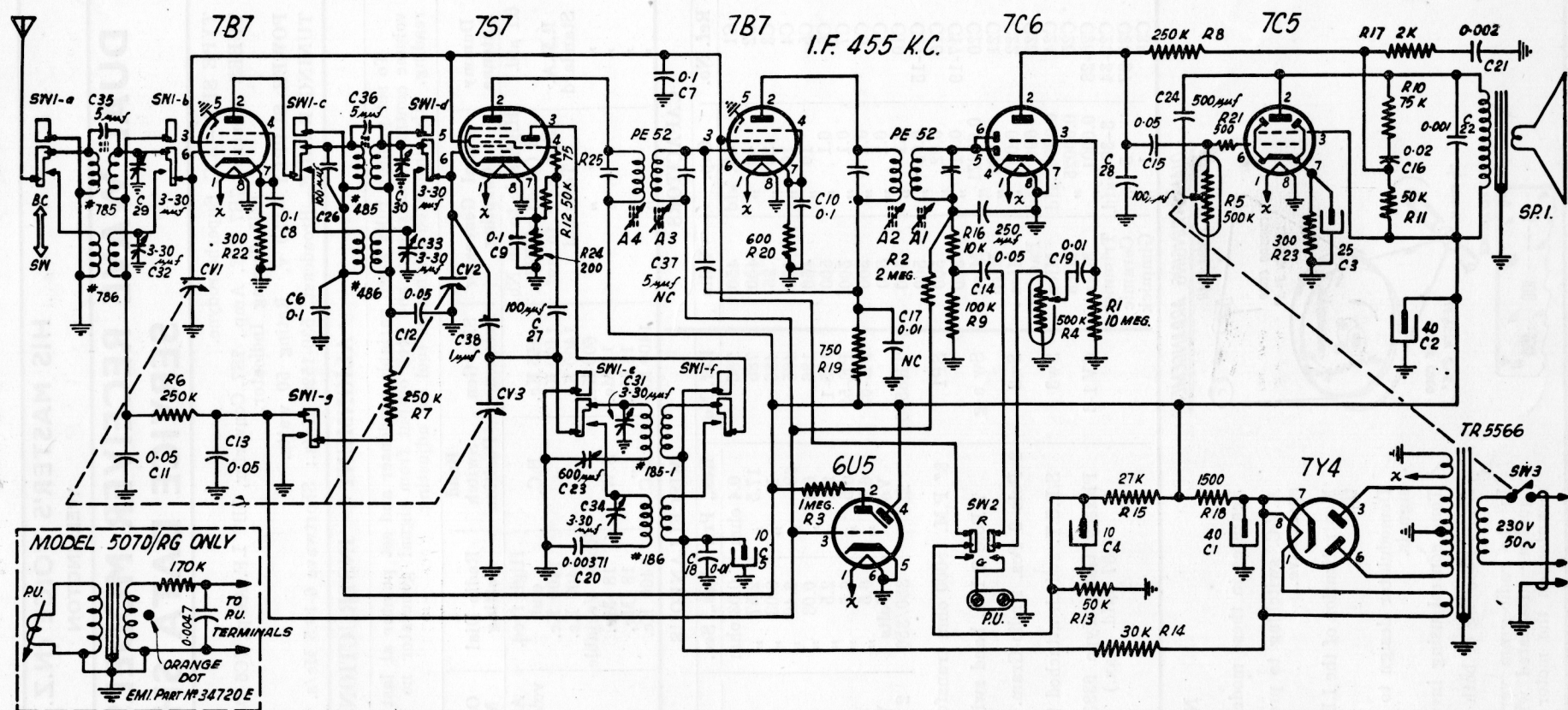
Neutralization of the I.F. stage to preclude regeneration.

Demodulator design to cope with highly modulated signals.

Tone control using inverse feedback.

Audio boosting of both bass and treble.

In the radio-gram version there is an additional equaliser associated with the pick-up transformer mounted on the motor platform.



SCHEMATIC DIAGRAM MODELS 507D & 507D/RG

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	7B7	6.3 a.c.	260	98	2.1	—	0	2	—
Conv.	7S7	6.3 a.c.	260	80	—2	98	0	2	—
I.F.	7B7	6.3 a.c.	260	98	3.1	—	0	3.1	—
Det-AF.	7C6	6.3 a.c.	125	0	—	—	0	—	—
Output	7C5	6.3 a.c.	255	260	—	0	0	12	—
Rect.	7Y4	350	—	325 a.c.	—	—	325 a.c.	350	350
Eye	6U5	6.3 a.c.	15	0	260	—	—	—	—

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	7B7	—	250K	50K	300 ohm	—	2.3 meg	300 ohm	—
Conv.	7S7	—	250K	250K	50K	50K	2.3 meg	200 "	—
I.F.	7B7	—	250K	50K	600 ohm	—	2.3 meg	600 "	—
Det-AF.	7C6	—	500K	10 meg	—	—	100K	—	—
Output	7C5	—	250K	250K	—	500K	500K	300 "	—
Rect.	7Y4	250K	—	280 ohm	—	—	280 ohm	250K "	250K
Eye	6U5	—	1.2 meg	2.1 meg	250K	—	—	—	—

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

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.