

TECHNICAL INFORMATION

COVERING

ALL WAVE RECEIVER TYPE 11355E

COLLIER & BEALE Ltd. WELLINGTON.

3 bands

TYPE SET—A.C. Superhetrodyne. Five-position Tone Control.
TUBES (Eleven)—6BA6 R.F. Amp., ECH 42 Converter, 6BA6 I.F. Amp., 6AV6 Det.-A.F., 6BA6 A.F. Equalizer, 6BA6 Phase Inv., 6V6GT Power Output, 6V6GT Power Output, GZ32 Rectifier, 6U5 Tuning Indicator, 6AU6 Pre-amp.
POWER SUPPLY—230 v. A.C. Rating, 90 watts.
TUNING RANGE—Broadcast, 535-1630 Kc., Medium Wave, 3.2-8.2 Mc., Shortwave, 7.5-22.3 Mc.

ALIGNMENT INSTRUCTIONS

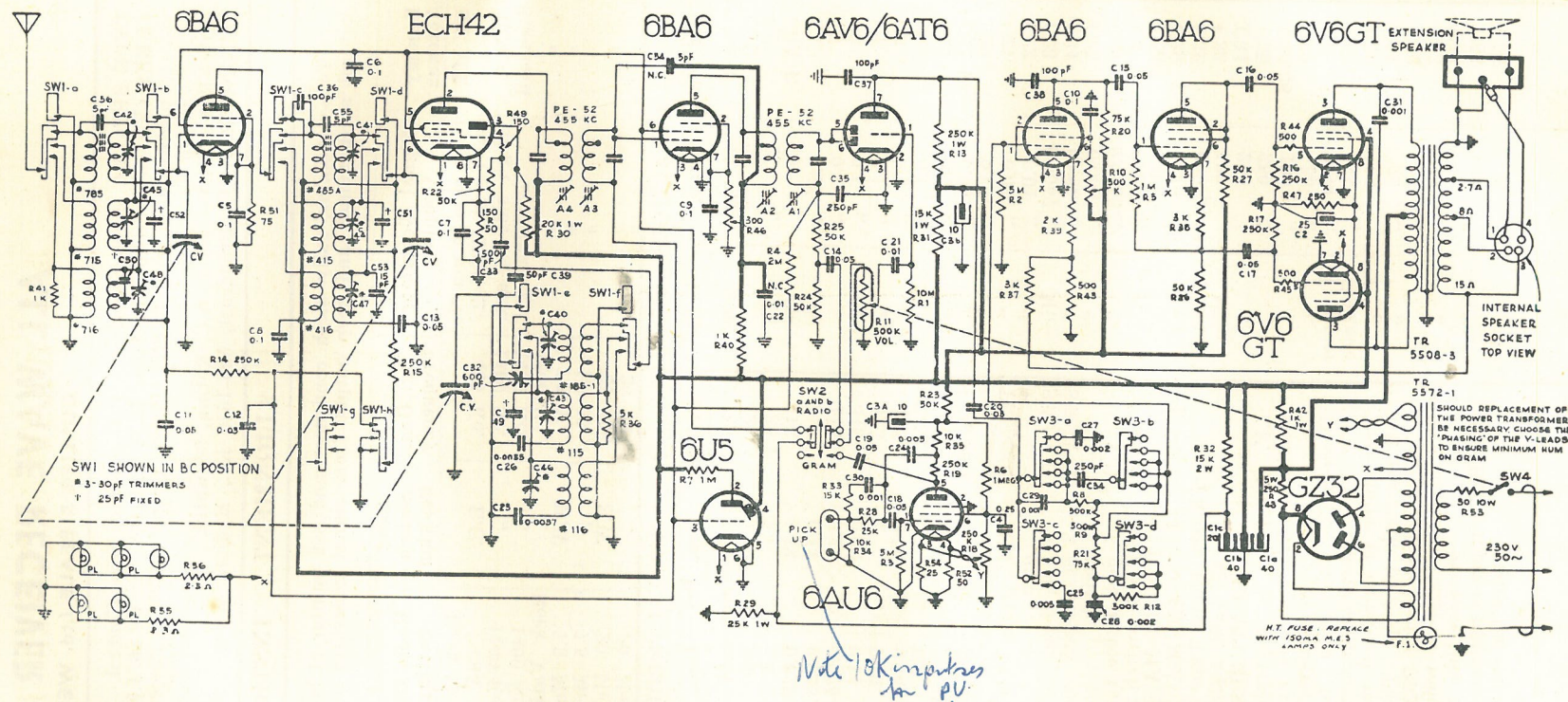
To set pointer, fully mesh condenser and set pointer at last reference mark at left end of dial. Set volume control at maximum and keep output from signal generator no higher than necessary to obtain output reading.

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 pin No. 6 (grid) ECH42	455 Kc.	B.C.	High freq. end	Across voice coil	A1, A2, A3, A4, C40	Adjust for maximum output
R.M.A. Standard	High side to ant. Terminal	1400 Kc.	"	1400 Kc.	"	C41 & 42	" "
"	"	1400 Kc.	"	1400 Kc.	"	C32	" "
"	"	600 Kc.	"	Rock Variable	"	C43	" "
"	"	7.5 Mc.	M.W.	7.5 Mc.	"	C44 & 45	" "
"	"	7.5 Mc.	"	7.5 Mc.	"	C46	" "
"	"	20 Mc.	S.W.	20 Mc.	"	C47 & 48	" "
"	"	20 Mc.	"	20 Mc.	"	"	" "

CAPACITORS			MISCELLANEOUS				RESISTORS		
Ref. No.	Cap.	Volts	Ref. No.	Res., Pri.	Res., Sec.		Ref. No.	Res.	Watts
C1A-B	40 μ fd.	450	785	17.5 ohm	2.57 ohm	Broadcast	R1	10 meg.	$\frac{1}{2}$
C1C	20 "	"	485-A	69 "	2.4 "	"	R2	5 "	"
C2	25 "	25	185-1	2.1 "	2.5 "	"	R3	5 "	"
C3A-B	10 "	450	716	0.23 "	0.028 "	Short Wave	R4	2 "	"
C4	0.25 "	500	416	0.44 "	0.028 "	"	R5	1 "	"
C5	0.1 "	"	116	0.47 "	0.025 "	"	R6	1 "	"
C6	0.1 "	"	415	0.63 "	0.14 "	Med. Wave	R7	1 "	"
C7	0.1 "	"	715	1 "	0.14 "	"	R8	500K ohm	"
C8	0.1 "	"	115	0.58 "	0.14 "	"	R9	500K "	"
C9	0.1 "	"	PE-52	6.5 "	6.5 "	I.F.T.	R10	500K "	"
C10	0.1 "	"		volts	volts		R11	500K "	Pct
C11-19	0.05 "	"	TR5572-1	230	290 a side	5 - 6.3 - 6.3	R12	300K "	$\frac{1}{2}$
C20	0.03 "	"					R13	250K "	$\frac{1}{2}$
C21	0.01 "	"	TR5508-2	C.P. trans. 10,000 ohm-15, 8, 2.7 ohm.			R14-19	250K "	$\frac{1}{2}$
C22	0.01 "	"					R20	75K "	"
C23	0.0057 "	Mica	SW1A-H	3 pos. 8-pole band switch.			R21	75K "	"
C24	0.005 "	"	SW2A-B	2 pos. 2-pole radio-gram. switch.			R22-27	50K "	"
C25	0.005 "	"					R28	25K "	"
C26	0.0035 "	"	SW3A-D	5 pos. 4-pole tone switch.			R29	25K "	1
C27	0.002 "	"	SW4	S.P.S.T. switch attached to R11.			R30	20K "	"
C28	0.002 "	"	F1	12 v. 150 MA M.E.S. lamp.			R31	15K "	"
C29-31	0.001 "	"	PL	6 v. 250 M.A. M.E.S. lamp.			R32	15K "	$\frac{1}{2}$
C32	600 μ fd.	Padder		Plessey Gang Type 9393/L22			R33	15K "	$\frac{1}{2}$
C33	500 "	Mica		(437 μ fd. swing).			R34	10K "	"
C34	250 "	"		FEATURES			R35	10K "	"
C35	250 "	"		I.F. Amplifier is neutralized to ensure stability. C22 and C54 are the balancing condensers.			R36	5K "	"
C36-38	100 "	"		Demodulator designed to handle high modulation factors.			R37	3K "	"
C39	50 "	"		Preamplifier is equalized to suit American GE magnetic pick-up. The heater supply is balanced with R52 and R54			R38	3K "	"
C40-48	3-30 "	Trimmer Ceramic		$\times$ The mains voltage is reduced by R53 to increase tube life.			R39	2K "	"
C49	25 "	"		$\times$ The H.T. supply is protected by a fuse lamp under the chassis.			R40	1K "	"
C50	25 "	"					R41	1K "	"
C51	25 "	"					R42	1K "	1
C52	25 "	"					R43	500 "	$\frac{1}{2}$
C53	15 "	"					R44	500 "	"
C54	5 "	"					R45	500 "	"
C55	5 "	"					R46	300 "	"
C56	5 "	"					R47	250 "	2
							R48	250 "	5
							R49-50	150 "	$\frac{1}{2}$
							R51	75 "	"
							R52	50 "	"
							R53	30 "	10
							R54	25 "	$\frac{1}{2}$
							R55-56	2.3 "	1

Nov-1955

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SCHEMATIC DIAGRAM MODEL 11355E.

VOLTAGE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	6BA6	0	0.6	—	6.0 AC	225	85	0.6	—
Conv.	ECH42	6.0 AC	225	67	—8	85	0	1.5	—
I.F.	6BA6	0	2.4	6.0 AC	—	220	85	2.4	—
Det.A.F.	6AV6	0	—	—	6.0 AC	0	0	75	—
Eq'izer	6BA6	0	1.8	—	6.0 AC	125	27	1.8	—
Inv.	6BA6	15	107	—	6.0 AC	107	107	67	—
Output	6V6GT	—	6.0 AC	270	230	0	—	—	14
Output	6V6GT	—	6.0 AC	270	230	0	—	—	14
Rect.	GZ32	—	275	—	250 AC	—	250 AC	—	275
Eye	6U5	6.0 AC	20	0	225	—	—	—	—
Pre-amp	6AU6	0	—	2 AC	4 AC	112	17.5	—	—

RESISTANCE READINGS

Use	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
R.F.	6BA6	2.4 meg	75	—	—	500 K	515 K	75	—
Conv.	ECH42	—	500 K	520 K	50 K	515 K	2.4 meg	150	—
I.F.	6BA6	2.1 meg	300	—	—	500 K	515 K	300	—
Det.A.F.	6AV6	10 meg.	—	—	—	100 K	100 K	750 K	—
Eq'izer	6BA6	5 meg.	2.5 K	—	—	375 K	1 meg.	2.5 K	—
Inv.	6BA6	1 meg.	550 K	—	—	550 K	550 K	53 K	—
Output	6V6GT	—	—	—	500 K	250 K	—	—	250
Output	6V6GT	—	—	—	500 K	250 K	—	—	250
Rect.	GZ32	—	500 K	—	70	—	70	—	—
Eye	6U5	—	500 K	2.1 meg	1.5 meg	—	—	—	—
Pre-amp	6AU6	5 meg.	—	20	20	800 K	250 K	—	—

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. Bandswitch in B.C. position. Tone switch in "normal" position.

4. Nominal tolerances on component values make possible a variation of + 10 % in voltage and resistance readings.
5. Volume control at maximum, no signal applied for voltage measurements.
6. Resistance reading in B+ circuits may vary widely according to the condition of filter capacitors.

Note
30v
10w
tube
means
voltage

Note
HT
fuse

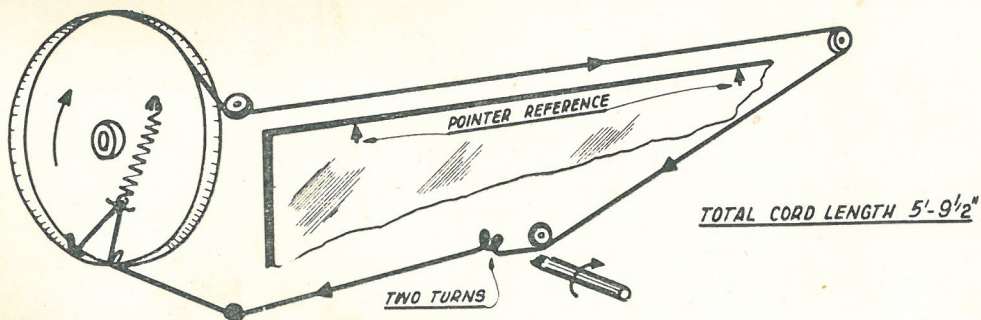
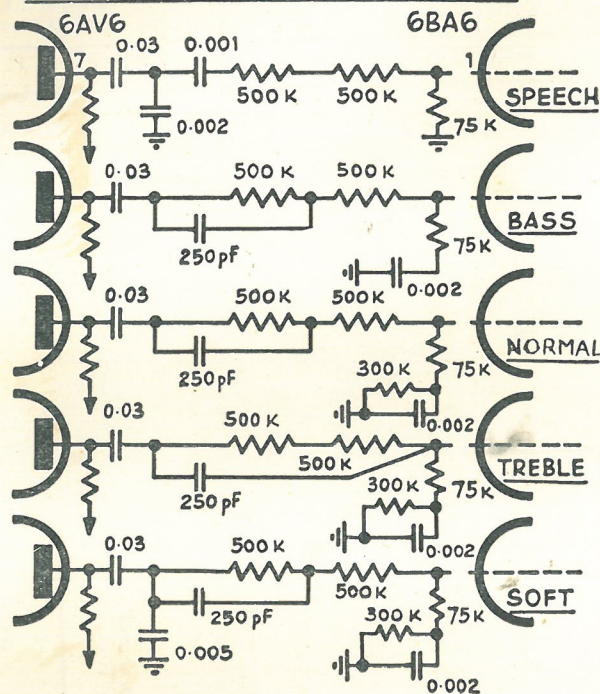
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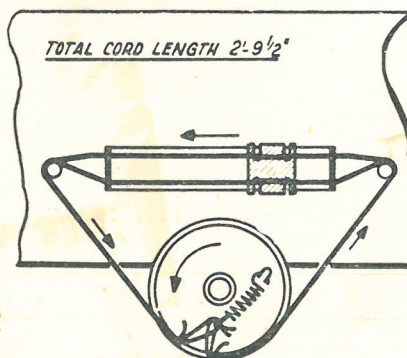
ALL WAVE RECEIVER TYPE 11355E

COLLIER & BEALE Ltd. WELLINGTON.

tone selector switching circuit condition in each setting



DIAL STRINGING ARRANGEMENT



SWITCHING INDICATORS
STRINGING DIAGRAMS