TECHNICAL SERVICE INSTRUCTIONS

ISSUED BY

KRIESLER AUSTRALASIA PTY. LTD.

●

11-7 RECEIVER A.C. TABLE MODEL

INSTALLATION INSTRUCTIONS.—As recommended in booklet issued with receiver.

MAINS SUPPLY.—As indicated on receiver.
(Generally 240 volts A.C. 40-60 C.P.S.)

WARNING.—Before attempting to place the receiver in use, check the line voltage and supply frequency and see that the transformer located in the receiver is set to correspond with the local voltage and frequency condition.

FREQUENCY RANGES.—Broadcast Band—540 K.C. to 1650 K.C.
Shortwave Band—18 M.C. to 6 M.C.

The frequency ranges listed above are common to all 11-7 receivers unless information is given to the contrary.

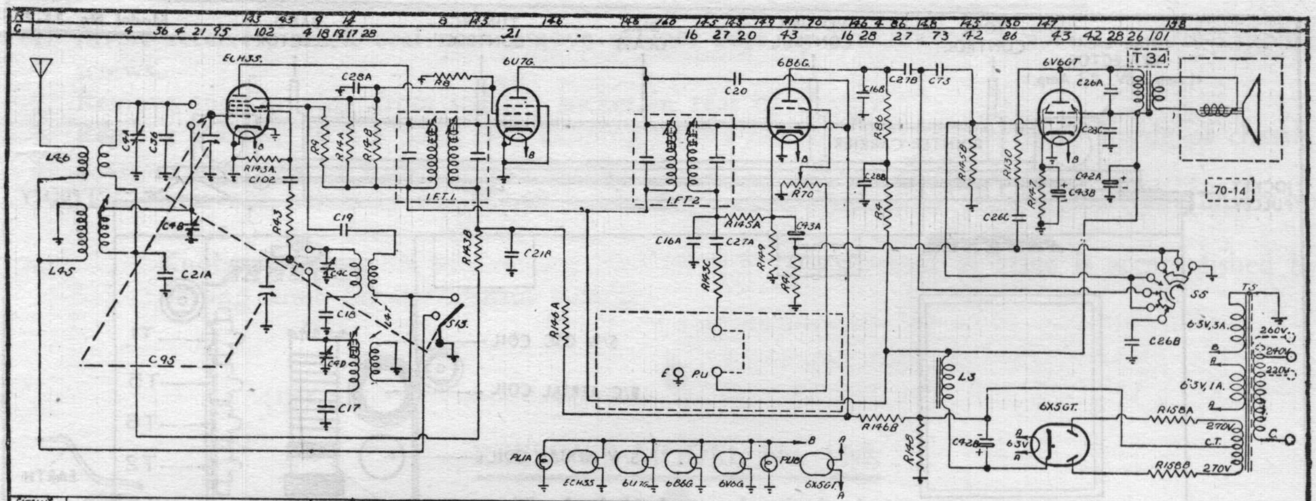
CONTROLS (left to right).—TONE (Normal, S/W & Speech, High Fidelity), VOLUME, TUNING, BAND SELECTOR (S/W & B/C).

Alignment Instructions (See Section D)

CABINET.—Standard bakelite type comprising—
1—Top Part No. 20-19.
1—Base Part No. 20-20.

IMPORTANT.—When making enquiries about any particular receiver, please quote full model number and serial number, e.g.—
Model 11-7A, Serial 1625.

RELEASED.—July, 1947.



Circuit Designation	Description	Part No	Circuit Designation	Description	Part No
R4	Res. Carbon 0·1 Meg 1w ± 10%	12-4	C27AB	Con. Paper 0·01µF 600V ± 15%	23-14
R8	Res. Carbon 30,000 Ω 1w ± 10%	12-8	C28ABC	Con Paper 0·1µF 400V ± 15%	23-15
R9	Res. Carbon 40,000 Ω 1w ± 10%	12-9	C36	Con. Mica 10pF D.S. ± 15%	13-43
R14AB.	Res. Carbon 50,000 Ω 1w ± 10%	12-14	C42AB	Con. Elect. 16µF 525V −10 +40%	43-5
R43	Res. Carbon 20 Ω 1/3W ± 10%	12-37	C43AB	Con. Elect. 25µF 40V −10 +40%	43-6
R70	Pot. Carbon 0·5 Meg 1w ± 20%	32-4	C73	Con Mica 500pF P.T. ± 15%	13-44
R86	Res. Carbon 0·25 Meg 1w ± 10%	12-86			
R130	Res. Carbon 0·1 Meg 1/2W ± 10%	12-130	C95	Con. Variable 2 Gang	63-6
R143ABC	Res. Carbon 50.000 Ω 1/2W ± 10% (D Combo)	12-25			
R145ABC.	Res. Carbon 0·5 Meg 1/2W ± 10%	12-28	C102	Con Mica 50pF P.T. ± 15%	13-49
R146ABC	Res. Carbon 1·0 Meg 1/2W ± 10%	12-29			
R147	Res. Carbon 275 Ω 1W ± 10%	12-30			.
R148	Res. Carbon 35 Ω 1/2W ± 10%	12-31	L3	Choke. Filter 14 Henry 60 m.A	28-2
R149	Res. Carbon 4.000 Ω 1/2W ± 10%	12-32			
R41	Res. Carbon 200 Ω 1/2W ± 10%	12-36	L45	Coil. B/C Aerial	14-7
R158AB	Res. Carbon 75 Ω 1W ± 10%	12-43	L46	Coil. S/W Aerial	14-8
R160	Pot. Carbon 1·0 Meg 1W ± 20% (Combo)	32-7	L47	Coil. Oscillator B/C & S/W	14-9
			S5	Switch, Tone Control 3 Pos 2 Pole	17-5
			S13	Switch. Wave Change 2 Pos. 3 Pole	17-6
C4ABCD	Con. Trimmer 3-20pf.	63-5	S17	Switch Radio-Gramo 2 Pos. 3 Pole	17-9
C16A.B	Con Mica 100pf I.I. ± 15%	13-38	I.F.T.1.	1st I.F. Transformer 455 K.C.	24-1
C17	Con Mica 435pF S.M ± 2½%	13-34	I.F.T.2.	2nd I.F. Transformer 455 K.C.	24-2
C18	Con Mica 0·009µF S.M. ± 5%	13-40	T5	Transformer - Power	18-5
C19	Con. Mica 250pF PT ± 15%	13-41	T31	Transformer. Output 5K to 2.3 Ω	18-31
C20	Con. Mica 25pF S.M ± 15%	13-42	T34	Transformer Output 5K to 3.7 Ω	18-34
C21AB	Con Paper 0·05µF 200V ± 15%	23-12	PL1A.B.	Pilot Light 6-8V. ·3A M.E.S. Base	47-2
C26ABC.	Con. Paper 0·005µF 600V ± 15%	23-13			

I.F.T.2 (24-2) may be replaced with I.F.T.6 (24-6)

Speaker Socket Connections: Pin No 1 - Earth; Pin No 3 - Plate; Pin No 5 B+ (Octal Plug)

S5 shown in anticlockwise position, viewed from spindle

S13 shown in clockwise position (Broadcast) viewed from spindle

When ordering replacement parts please state the following:-

Receiver Model No, Chassis No, Part No, Circuit Designation, General Description.

Before production is commenced 2 samples must be submitted to Drawing Office for approval.

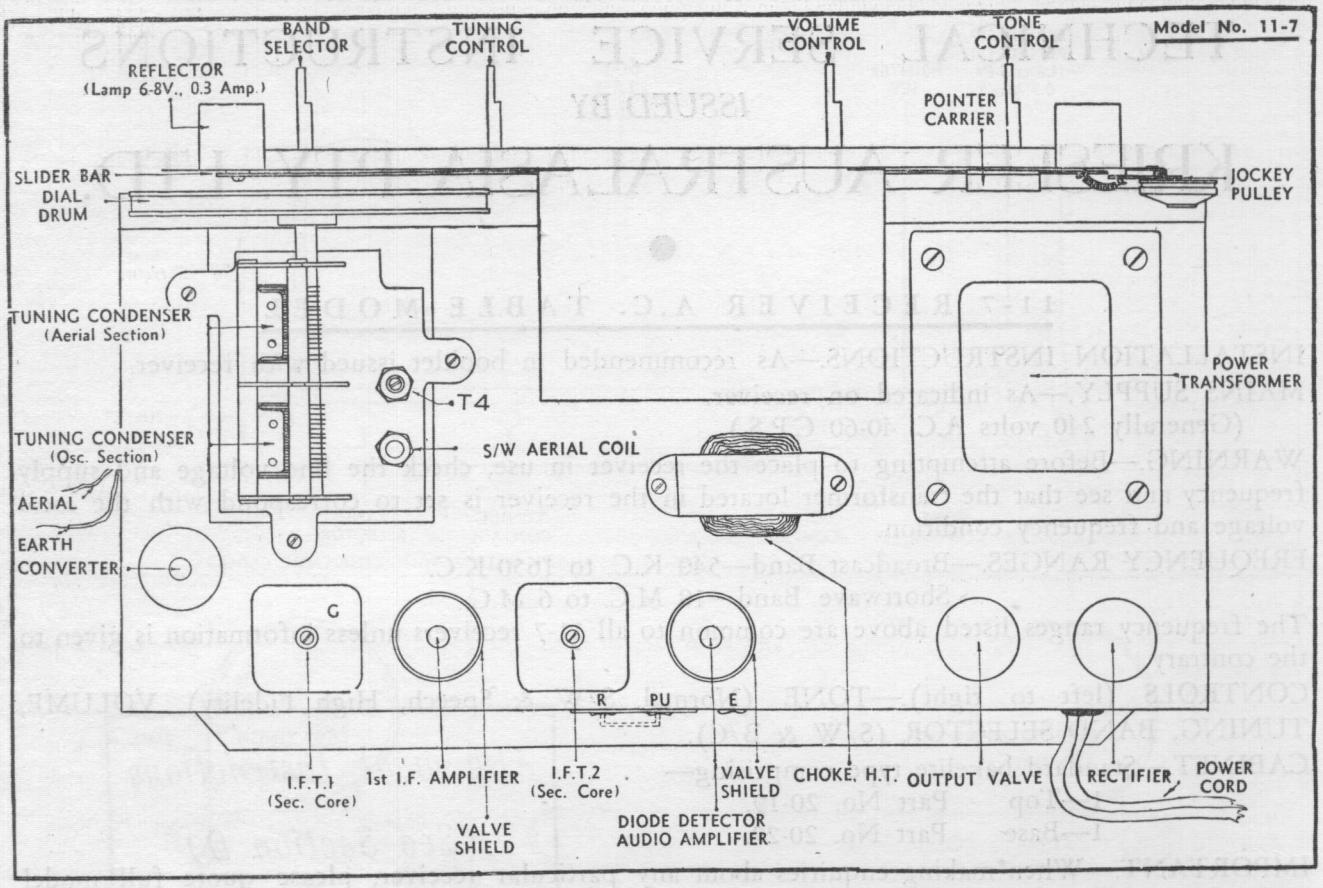
Work to Dimensions only. TOLERANCES: Unless otherwise specified Tolerances to be read as:— ± On Fractions. ± on Decimals.		DRAWN	F. Varley	9-4-47	USED ON	QTY.	USED ON	QTY.
		CODING	F. Varley	9-4-47				
		PLANNING						
SCALE	Prescription No.	CHECKED	H. Fowler					

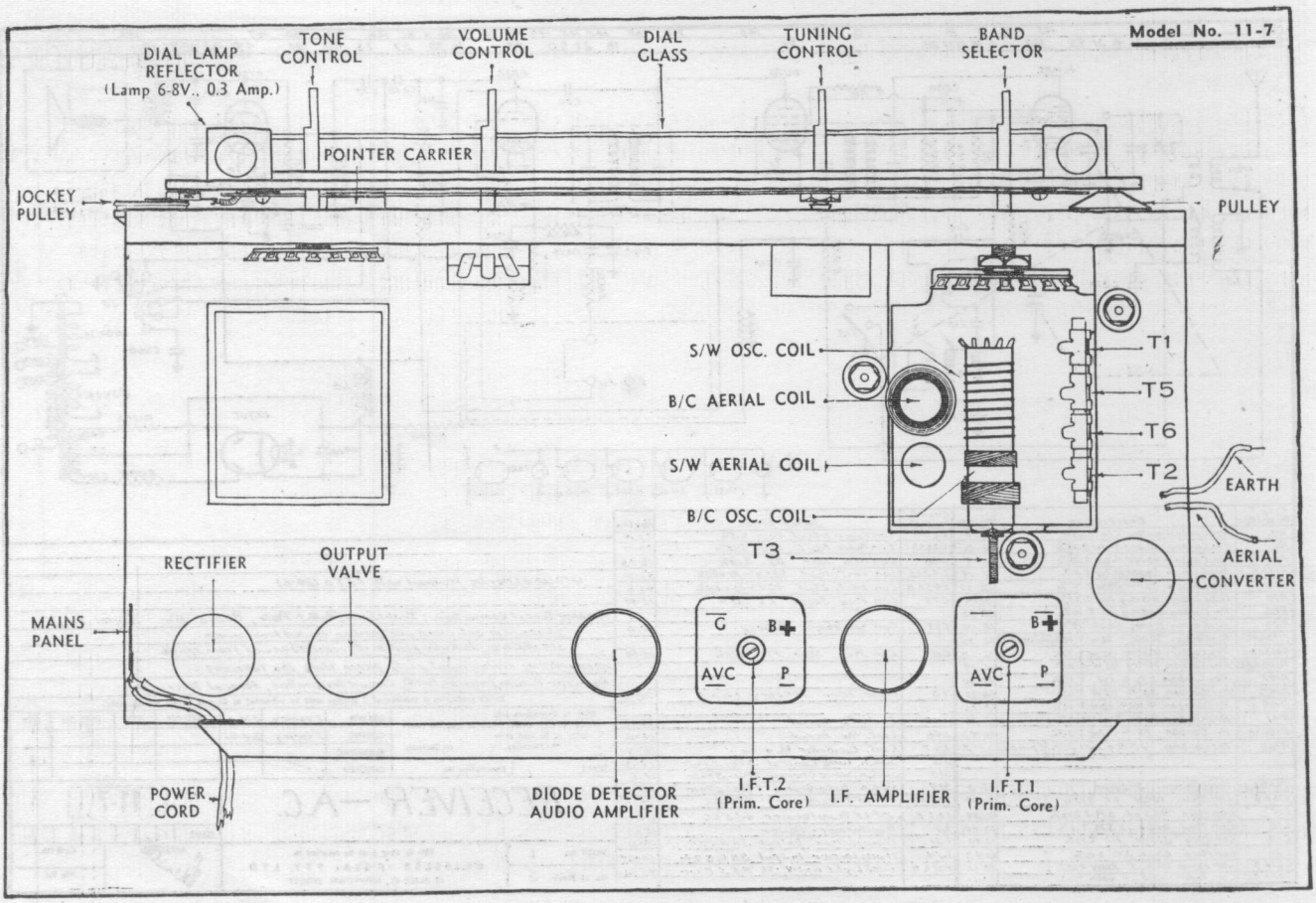
RECEIVER —A.C. | 11-7 | ISSUE 1

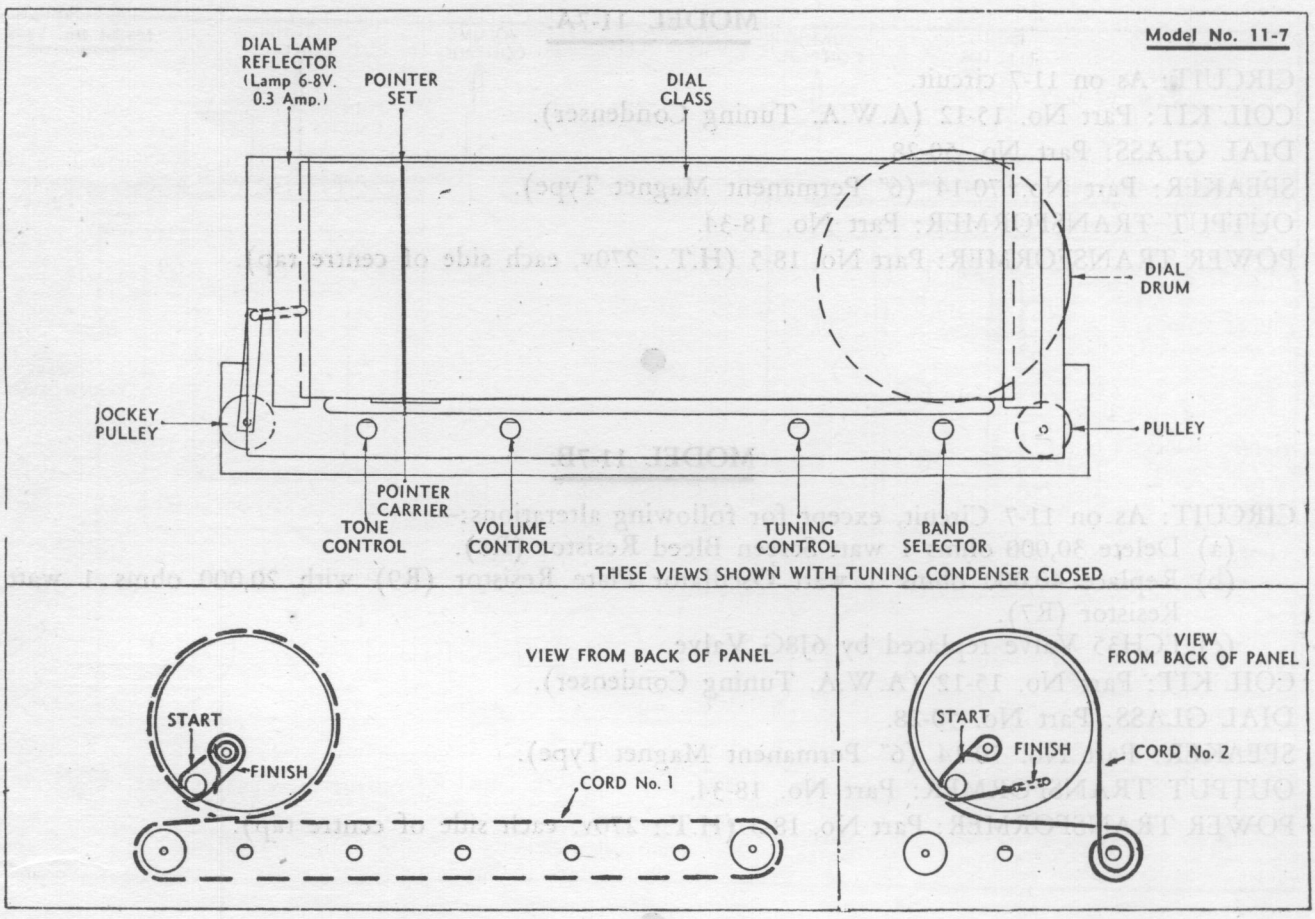
SHEET No. 1. | No. of Sheets 2.

This D. Ring must be returned to
KRIESLER (A'SIA) PTY. LTD.
43 ALICE ST., NEWTOWN, SYDNEY.

APPROVED | Card No. | File No.


Model No. 11-7
BAND SELECTOR
TUNING CONTROL
VOLUME CONTROL
TONE CONTROL
REFLECTOR (Lamp 6-8V., 0.3 Amp.)
POINTER CARRIER
SLIDER BAR
DIAL DRUM
JOCKEY PULLEY
TUNING CONDENSER (Aerial Section)
T4
POWER TRANSFORMER
TUNING CONDENSER (Osc. Section)
S/W AERIAL COIL
AERIAL
EARTH
CONVERTER
G
R
PU
E
I.F.T.1 (Sec. Core)
1st I.F. AMPLIFIER
I.F.T.2 (Sec. Core)
VALVE SHIELD
CHOKE
H.T.
OUTPUT VALVE
RECTIFIER
POWER CORD
VALVE SHIELD
DIODE DETECTOR AUDIO AMPLIFIER


Model No. 11-7
DIAL LAMP REFLECTOR (Lamp 6-8V., 0.3 Amp.)
TONE CONTROL
VOLUME CONTROL
DIAL GLASS
TUNING CONTROL
BAND SELECTOR
POINTER CARRIER
JOCKEY PULLEY
PULLEY
S/W OSC. COIL
B/C AERIAL COIL
S/W AERIAL COIL
B/C OSC. COIL
T3
T1
T5
T6
T2
EARTH
AERIAL
CONVERTER
RECTIFIER
OUTPUT VALVE
MAINS PANEL
G
B+
AVC
P
POWER CORD
DIODE DETECTOR AUDIO AMPLIFIER
I.F.T.2 (Prim. Core)
I.F. AMPLIFIER
I.F.T.1 (Prim. Core)



PROCEDURE FOR REMOVING CHASSIS FROM CABINET.

1. Invert receiver, break seal and remove cabinet base by unscrewing 4 x No. 6 Self-Tapping screws.
2. Remove speaker plug from speaker socket in rear of chassis.
3. Remove 4 x No. 10 x $\frac{3}{8}$" long Self-Tapping screws located in four corners of inside of chassis.
4. Receiver may now be withdrawn from cabinet.

NOTE.—It is not necessary to remove knobs from control spindles on this receiver (unless so desired) in order to remove receiver from cabinet.
Knobs fitted to this receiver are push-on type and removal of same is accomplished by pulling knob off the control spindle.

RECEIVER MODEL No. 11-7.

Typical Voltage Analysis.

VALVE COMPLEMENT.

ECH35 — Mixer—Local Oscillator.
6U7G — I.F. Amplifier.
6B6G — Det., A.V.C., A.F. Amplifier.
6V6G — Output Valve.
6X5G — Rectifier.

VOLTAGE ANALYSIS.

Input to primary of
Power Transformer = 240v. A.C.
Heater Supply .... = 6.1v. A.C.
B+ ..... = 240v. D.C.

ECH35—
Hexode Plate ..... = 240v. D.C.
Hexode Screen ... = 78v. D.C.
Osc. Anode ..... = 90v. D.C.

6U7G—
Plate ..... = 240v. D.C.
Screen ..... = 78v. D.C.
Bias for R.F. Valves = —2.25v. D.C.

6B6G—
Plate ..... = 110v. D.C.
Cathode ..... = 1.0v. D.C.

6V6G—
Plate ..... = 225v. D.C.
Screen ..... = 240v. D.C.
Cathode ..... = 12v. D.C.

6X5G—
Plates ..... = 260v. A.C.
B+ at Cathode ... = 290v. D.C.

TRANS. PRIMARY CURRENT.

On Load ..... 283m.A. A.C.
Off Load ..... 40m.A. A.C.

NOTE.—All measurements made with respect to chassis.

VOLTMETER SENSITIVITY.—20,000 ohms per volt on D.C. ranges.
1,000 ohms per volt on A.C. ranges.

MODEL 11-7A.

CIRCUIT: As on 11-7 circuit.
COIL KIT: Part No. 15-12 (A.W.A. Tuning Condenser).
DIAL GLASS: Part No. 50-28.
SPEAKER: Part No. 70-14 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-34.
POWER TRANSFORMER: Part No. 18-5 (H.T.: 270v. each side of centre tap).

●

MODEL 11-7B.

CIRCUIT: As on 11-7 Circuit, except for following alterations:—
(a) Delete 30,000 ohms 1 watt Screen Bleed Resistor (R8).
(b) Replace 40,000 ohms 1 watt Oscillator Plate Resistor (R9) with 20,000 ohms 1 watt Resistor (R7).
(c) ECH35 Valve replaced by 6J8G Valve.
COIL KIT: Part No. 15-12 (A.W.A. Tuning Condenser).
DIAL GLASS: Part No. 50-28.
SPEAKER: Part No. 70-14 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-34.
POWER TRANSFORMER: Part No. 18-5 (H.T.: 270v. each side of centre tap).

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MODEL 11-7C.

CIRCUIT: As on 11-7 Circuit, except for following alterations:—
(a) Delete 30,000 ohms 1 watt Screen Bleed Resistor (R8).
(b) Replace 40,000 ohms 1 watt Oscillator Plate Resistor (R9) with 20,000 ohms 1 watt Resistor (R7).
(c) ECH35 Valve replaced by 6J8G Valve.
(d) 6B6G Valve replaced by 6SQ7GT Valve (Rewire socket).
COIL KIT: Part No. 15-12 (A.W.A. Tuning Condenser).
DIAL GLASS: Part No. 50-28.
SPEAKER: Part No. 70-14 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-34.
POWER TRANSFORMER: Part No. 18-5 (H.T.: 270v. each side of centre tap).

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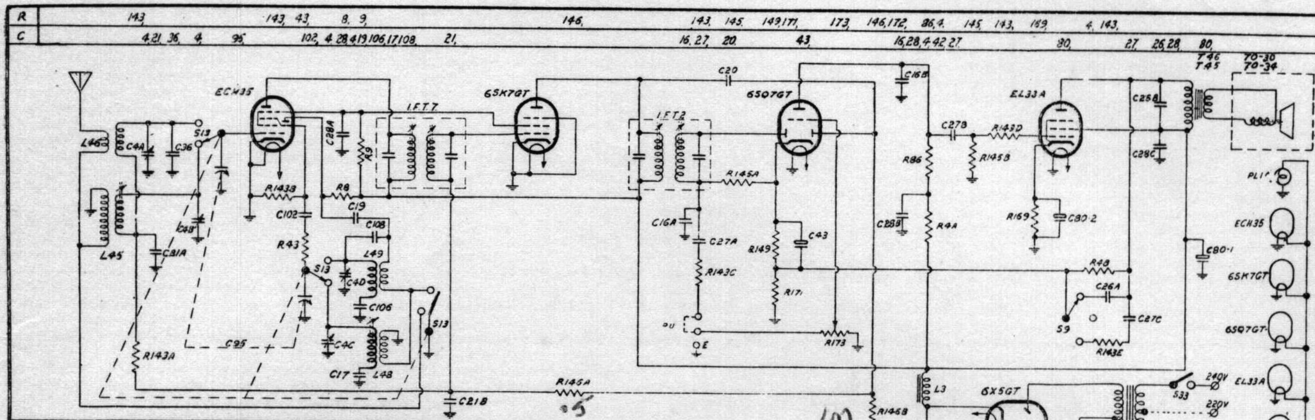
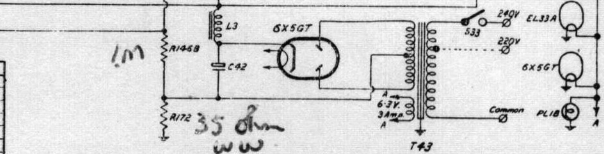
MODEL 11-7D.

CIRCUIT: As on 11-7 Circuit, except for following alteration:—
(a) 6B6G Valve replaced by 6SQ7GT Valve (Rewire Socket).
COIL KIT: Part No. 15-12 (A.W.A. Tuning Condenser).
DIAL GLASS: Part No. 50-28.
SPEAKER: Part No. 70-14 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-34.
POWER TRANSFORMER: Part No. 18-5 (H.T.: 270v. each side of centre tap).





CIRCUIT DESIGNATION	DESCRIPTION	PART Nº	CIRCUIT DESIGNATION	DESCRIPTION	PART Nº
R4 A.B.	Resistor, Carbon, 0·1meg.Ω, 1W, ±10%	12 - 4	C102	Condenser, Mica, 50pF, PT. ±15%	13 - 49
R8	Resistor, Carbon, 30,000Ω, 1W, ±10%	12 - 8	C108	Condenser, Mica, 3pF, DS. ±15%	13 - 52
R9	Resistor, Carbon, 40,000Ω, 1W, ±10%	12 - 9			
R43	Resistor, Carbon, 20Ω, 1/3W, ±10%	12 - 37			
R86	Resistor, Carbon, 0·25meg.Ω, 1W, ±10%	12 - 86			
R143 A.B.C.D.E	Resistor, Carbon, 50,000Ω, 1/2W, ±10%	12 - 25			
R145 A.B.	Resistor, Carbon, 0·5meg.Ω, 1/2W, ±10%	12 - 28	L3	Choke, Filter, 14Henry, 60mA.	28 - 2
R146 A.B.	Resistor, Carbon, 1meg.Ω, 1/2W, ±10%	12 - 29	L45	Coil, Broadcast Aerial.	14 - 7
R149	Resistor, Carbon, 4000Ω, 1/2W, ±10%	12 - 32	L46	Coil, Short Wave Aerial.	14 - 8
R169	Resistor, WireWound, 175Ω, 1W, ±10%	22 - 58	L48	Coil, Broadcast Oscillator.	14 - 10
R171	Resistor, WireWound, 50Ω, 1/2W, ±10%	22 - 59	L49	Coil, Short Wave Oscillator.	14 - 11
R172	Resistor, WireWound, 35Ω, 1/2W, ±10%	22 - 60			
R173, S33	Switch Potentiometer, 1/2 meg.Ω, 1W, ±20%				
	Switch-Single Pole, Single Throw.	32 - 10	S9	Switch, Tone Control, 3 Pos., Single Pole	57 - 2
			S13	Switch, Wave Change, 2 Pos., 3 Pole.	17 - 6
C4 A.B.C.D.	Condenser, Trimmer, 3 to 20pF.	63 - 5			
C15 A.B.	Condenser, Mica, 100pF, PT. ±15%	13 - 28	I.F.T.1.	1st. I.F. Transformer, 455 K.C.	24 - 7
C17	Condenser, Mica, 435pF, SM. ±2½%	13 - 39	I.F.T.2.	2nd I.F. Transformer, 455 K.C.	24 - 2
C19	Condenser, Mica, 250pF, PT. ±15%	13 - 41			
C20	Condenser, Mica, 25pF, SM. ±15%	13 - 42			
C21 A.B.	Condenser, Paper, 0·05mfd, 200V, ±15%	23 - 12	T43	Transformer, Power.	18 - 44
C26 A.B.	Condenser, Paper, 0·005mfd, 600V, ±15%	23 - 13	T45	Transformer, Output, 7K to 2·3Ω. (11-9)	18 - 46
C27 A.B.C.	Condenser, Paper, 0·01mfd., 600V, ±15%	23 - 14	T46	Transformer, Output, 7K to 3·7Ω. (11-7)	18 - 47
C28 A.B.C.	Condenser, Paper, 0·1mfd., 400V, ±15%	23 - 15			
C36	Condenser, Mica, 10pF, D.S. ±15%	13 - 43	PL1 A.B.	Pilot Light, 6-8V, 0·3Amp., M.E.S. Base.	47 - 2
C42	Condenser, Elect. 16mfd, 525V, ET. -10% +40%	43 - 5			
C43	Condenser, Elect. 25mfd, 40V, ET. -10% +40%	43 - 6		Speaker, 6" Permag. (11-7)	70 - 30
C80-1	Condenser, Dual Elect. 15mfd, 350V, ED -10% +40%	43 - 16		Speaker, 8" Permag. (11-9)	70 - 34
C80-2	Condenser, Dual Elect. 25mfd, 40V, ED -10% +40%				
C106	Condenser, Paper, 0·009mfd, 600V, ±10%	23 - 23.			
C95	Condenser, Variable, 2 Gang.	63 - 6			

Speaker Socket Connections: Pin Nº1 - Earth, Pin Nº3 - Plate, Pin Nº5 - B+ (Octal Plug).
Mains Switch actuated by Potentiometer Spindle.
S13 Shown in clockwise position.
S9 Shown in anticlockwise position.
When ordering Replacement Parts, please state the following:-
Receiver, Model Nº, Chassis Nº, Part Nº, Circuit Designation, General Description.

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TOLERANCES: Unless otherwise specified Tolerances to be read as:—
± On Fractions. ± on Decimals.

			USED ON	QTY.	USED ON	QTY.
DRAWN	M. Gilfillan	14-9-48				
CODING	M. E. I	16-9-48				
PLANNING	M. E. Layton	10-9-48				
CHECKED	A. Fowler	29-10-48				

SCALE
Prescription No.

RECEIVER - A.C.

11 -7 & 9

ISSUE N

SHEET No.
No. of Sheets.

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KRIESLER (A'SIA) PTY. LTD
43 ALICE ST., NEWTOWN, SYDNEY

APPROVED

Card No.
File No.

TECHNICAL SERVICE INSTRUCTIONS

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KRIESLER AUSTRALASIA PTY. LTD.

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Alignment Instructions (See Section D)

CABINET.—Standard bakelite type comprising—

1—Top Part No. 20-19.

1—Base Part No. 20-20.

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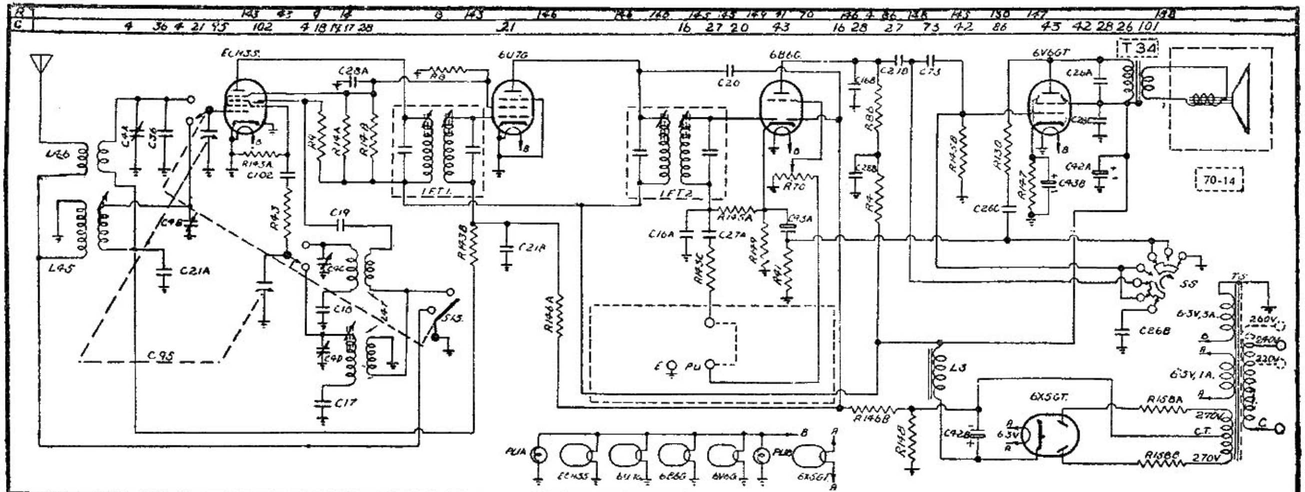
RELEASED.—July, 1947.



Circuit Designation	Description	Part No
R4	Res.Carbon 0·1 Meg 1w ± 10%	12-4
R8	Res.Carbon 30,000 Ω 1w ± 10%	12-8
R9	Res.Carbon 40,000 Ω 1w ± 10%	12-9
R14AB.	Res.Carbon 50,000 Ω 1W ± 10%	12-14
R43	Res.Carbon 20 Ω 1/3W ± 10%	12-37
R70	Pot.Carbon 0·5 Meg 1w ± 20%	32-4
R86	Res.Carbon 0·25 Meg 1w ± 10%	12-86
R130	Res.Carbon 0·1 Meg 1/2W ± 10%	12-130
R143ABC	Res.Carbon 50,000 Ω 1/2 W ± 10% (D Combo)	12-25
R145ABC.	Res.Carbon 0·5 Meg 1/2 W ± 10%	12·28
R146ABC	Res.Carbon 10 Meg 1/2 W ± 10%	12·29
R147	Res Carbon 275 Ω 1W ± 10%	12·30
R148	Res.Carbon 35 Ω 1/2 W ± 10%	12-31
R149	Res Carbon 4,000 Ω 1/2 W ± 10%	12·32
R41	Res Carbon 200 Ω 1/2W ± 10%	12 36
R158AB	Res Carbon 75 Ω 1w ± 10%	12 43
R160	Pot Carbon 1·0 Meg 1W ± 20% (Combo)	32 7
C4ABCD	Con.Trimmer 3-20 pF.	63-5
C16A.B	Con Mica 100pF 1:1 ± 15%	13-38
C17	Con Mica 435 pF SM ± 2½%	13-34
C18	Con Mica 0·009 μF SM. ± 5%	13-40
C19	Con Mica 250 pF PT ± 15%	13-41
C40	Con.Mica 25 p.F. SM ± 15%	13-42
C21AB	Con Paper 0·05 μF 200V ± 15%	23 12
C26ABC.	Con. Paper 0·003 μF 600V ± 10%	23 13

Circuit Designation	Description	Part No
C27AB	Con.Paper 0·01 μF 600V ± 15%	23-14
C28ABC	Con Paper 0·1 μF 400V ± 15%	23-15
C36	Con.Mica 10 pF DS ± 15%	13-43
C42AB.	Con. Elect. 16 μF 525V -10 +40%	43-5
C43AB	Con. Elect. 25 μF 40V -10 +40%	43-6
C73	Con Mica 500 pF P.T. ± 15%	13-44
C95	Con. Variable 2 Gang	63-6
C102	Con.Mica 50 pF PT ± 15%	13-49
L3	Choke. Filter 14 Henry 60 mA	28-2
L45	Coil. B/C Aerial	14-7
L46	Coil. S/W Aerial	14-8
L47	Coil. Oscillator B/C & S/W.	14-9
S5	Switch, Tone Control 3 Pos 2 Pole	17-5
S13	Switch. Wave Change 2 Pos. 5 Pole	17-6
S17	Switch Radio.Gramo 2 Pos. 3 Pole	17-9
I.F.T.1.	1st I.F. Transformer 455 KC.	24-1
I.F.T.2.	2nd I.F. Transformer 455 KC	24-2
T5	Transformer - Power	16-5
T31	Transformer. Output 5K to 2.3 Ω	18-31
T34	Transformer Output 5K to 3.7 Ω	18-34
PL1A.B.	Pilot Light. 6-8V. ·3A M.E.S Base	47-2

IFT2 (24-2) may be replaced with I.F.T.6 (24-6)

Speaker Socket Connections: Pin No 1 Earth; Pin No 3 - Plate; Pin No 5 B+ (Octal Plug)

S5 shown in anticlockwise position, viewed from spindle

S13 shown in clockwise position (Broadcast) viewed from spindle

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	CODING	F.Varley	9-4-47				
	PLANNING						
SCALE / Prescription No.	CHECKED	J. Fowler					

RECEIVER — A.C.

11-7

ISSUE 1

APPROVED

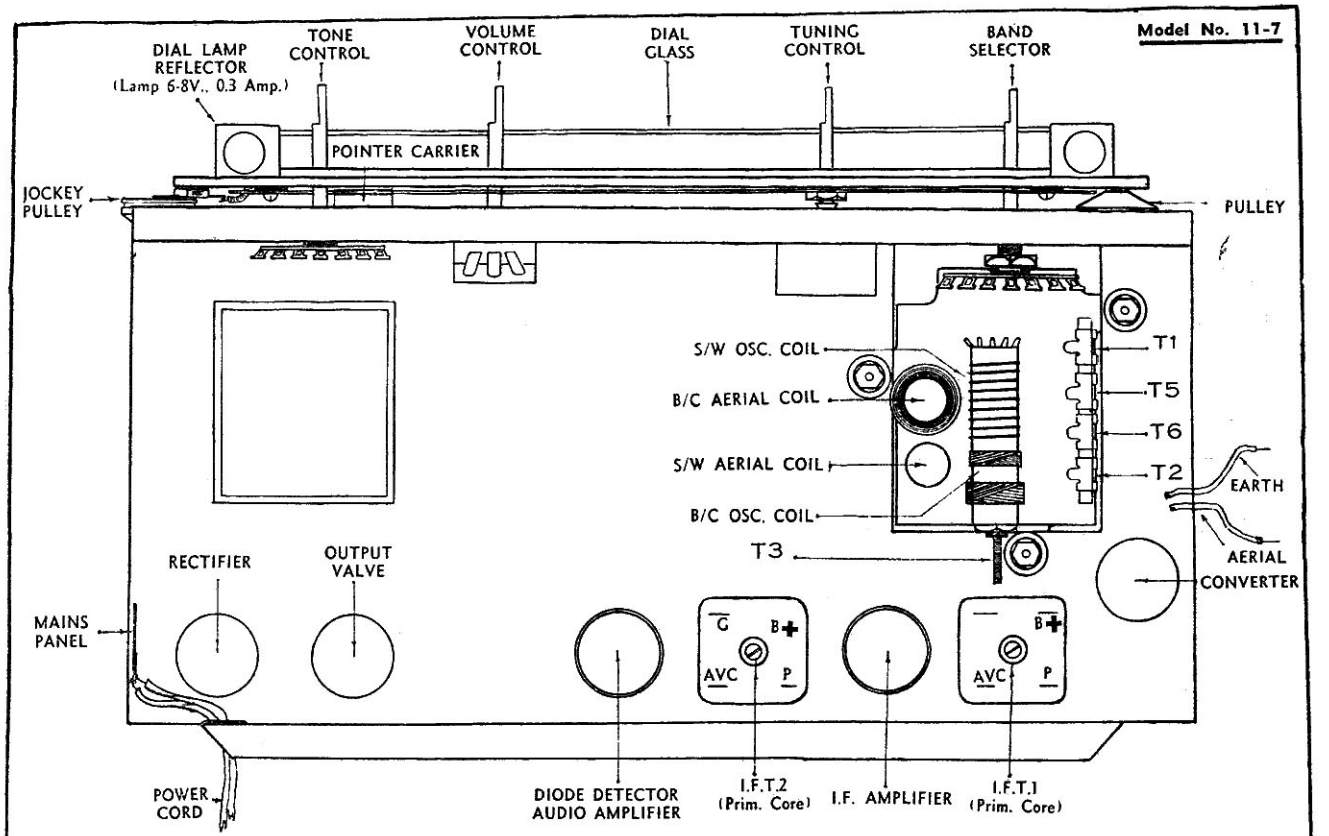
Card No.

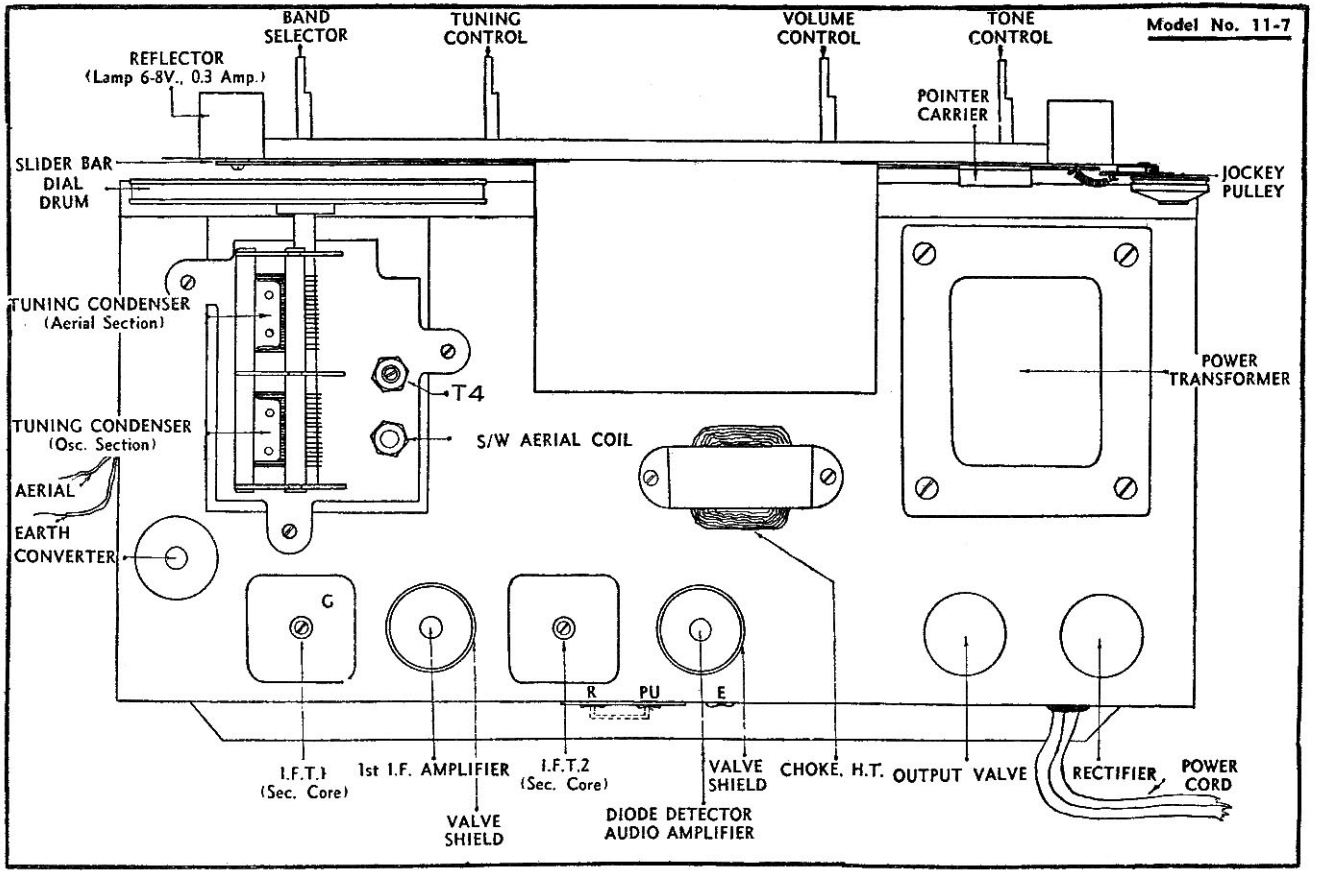
File No.

SHEET No. 1.

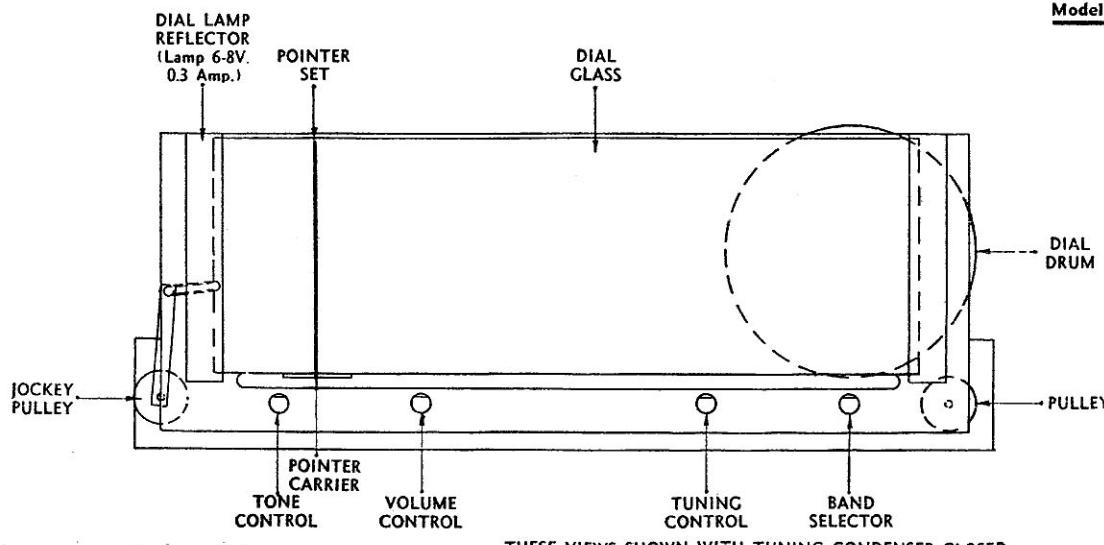
No. of Sheets. 2.

This Drawing must be returned to KRIESLER (A'SIA) PTY. LTD. 43 ALICE ST., NEWTOWN, SYDNEY.

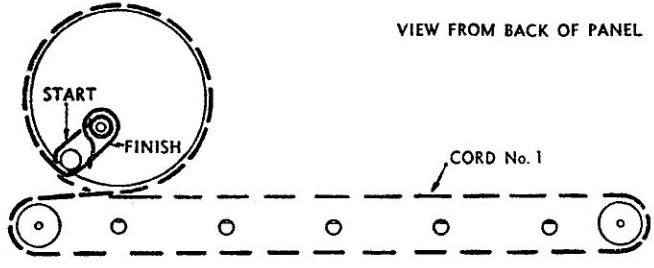

Model No. 11-7
DIAL LAMP REFLECTOR (Lamp 6-8V., 0.3 Amp.)
TONE CONTROL
VOLUME CONTROL
DIAL GLASS
TUNING CONTROL
BAND SELECTOR
POINTER CARRIER
JOCKEY PULLEY
PULLEY
S/W OSC. COIL
B/C AERIAL COIL
S/W AERIAL COIL
B/C OSC. COIL
T3
T1
T5
T6
T2
EARTH
AERIAL
CONVERTER
RECTIFIER
OUTPUT VALVE
MAINS PANEL
G
B+
AVC
P
POWER CORD
DIODE DETECTOR AUDIO AMPLIFIER
I.F.T.2 (Prim. Core)
I.F. AMPLIFIER
I.F.T.1 (Prim. Core)

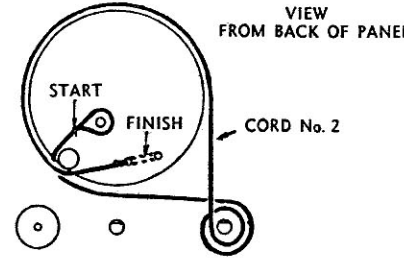

Model No. 11-7
BAND SELECTOR
TUNING CONTROL
VOLUME CONTROL
TONE CONTROL
REFLECTOR
(Lamp 6-8V., 0.3 Amp.)
POINTER CARRIER
SLIDER BAR
DIAL DRUM
JOCKEY PULLEY
TUNING CONDENSER
(Aerial Section)
T4
POWER TRANSFORMER
TUNING CONDENSER
(Osc. Section)
S/W AERIAL COIL
AERIAL
EARTH
CONVERTER
G
R
PU
E
I.F.T.1
(Sec. Core)
1st I.F. AMPLIFIER
VALVE SHIELD
I.F.T.2
(Sec. Core)
DIODE DETECTOR
AUDIO AMPLIFIER
VALVE SHIELD
CHOKE, H.T.
OUTPUT VALVE
RECTIFIER
POWER CORD

Model No. 11-7



THESE VIEWS SHOWN WITH TUNING CONDENSER CLOSED





PROCEDURE FOR REMOVING CHASSIS FROM CABINET.

1. Invert receiver, break seal and remove cabinet base by unscrewing 4 x No. 6 Self-Tapping screws.
2. Remove speaker plug from speaker socket in rear of chassis.
3. Remove 4 x No. 10 x $\frac{3}{8}$" long Self-Tapping screws located in four corners of inside of chassis.
4. Receiver may now be withdrawn from cabinet.

NOTE.—It is not necessary to remove knobs from control spindles on this receiver (unless so desired) in order to remove receiver from cabinet.
Knobs fitted to this receiver are push-on type and removal of same is accomplished by pulling knob off the control spindle.

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RECEIVER MODEL No. 11-7.

Typical Voltage Analysis.

VALVE COMPLEMENT.

ECH35 — Mixer—Local Oscillator.
6U7G — I.F. Amplifier.
6B6G — Det., A.V.C., A.F. Amplifier.
6V6G — Output Valve.
6X5G — Rectifier.

VOLTAGE ANALYSIS.

Input to primary of
Power Transformer = 240v. A.C.
Heater Supply .... = 6.1v. A.C.
B+ ..... = 240v. D.C.

ECH35—
Hexode Plate ..... = 240v. D.C.
Hexode Screen ... = 78v. D.C.
Osc. Anode ..... = 90v. D.C.

6U7G—
Plate ..... = 240v. D.C.
Screen ..... = 78v. D.C.

Bias for R.F. Valves = —2.25v. D.C.

6B6G—
Plate ..... = 110v. D.C.
Cathode ..... = 1.0v. D.C.

6V6G—
Plate ..... = 225v. D.C.
Screen ..... = 240v. D.C.
Cathode ..... = 12v. D.C.

6X5G—
Plates ..... = 260v. A.C.
B+ at Cathode ... = 290v. D.C.

TRANS. PRIMARY CURRENT.

On Load ..... 283m.A. A.C.
Off Load ..... 40m.A. A.C.

NOTE.—All measurements made with respect to chassis.

VOLTMETER SENSITIVITY.—20,000 ohms per volt on D.C. ranges.
1,000 ohms per volt on A.C. ranges.

MODEL 11-7A.

CIRCUIT: As on 11-7 circuit.
COIL KIT: Part No. 15-12 (A.W.A. Tuning Condenser).
DIAL GLASS: Part No. 50-28.
SPEAKER: Part No. 70-14 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-34.
POWER TRANSFORMER: Part No. 18-5 (H.T.: 270v. each side of centre tap).

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MODEL 11-7B.

CIRCUIT: As on 11-7 Circuit, except for following alterations:—
(a) Delete 30,000 ohms 1 watt Screen Bleed Resistor (R8).
(b) Replace 40,000 ohms 1 watt Oscillator Plate Resistor (R9) with 20,000 ohms 1 watt Resistor (R7).
(c) ECH35 Valve replaced by 6J8G Valve.

COIL KIT: Part No. 15-12 (A.W.A. Tuning Condenser).
DIAL GLASS: Part No. 50-28.
SPEAKER: Part No. 70-14 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-34.
POWER TRANSFORMER: Part No. 18-5 (H.T.: 270v. each side of centre tap).

●

MODEL 11-7C.

CIRCUIT: As on 11-7 Circuit, except for following alterations:—
(a) Delete 30,000 ohms 1 watt Screen Bleed Resistor (R8).
(b) Replace 40,000 ohms 1 watt Oscillator Plate Resistor (R9) with 20,000 ohms 1 watt Resistor (R7).
(c) ECH35 Valve replaced by 6J8G Valve.
(d) 6B6G Valve replaced by 6SQ7GT Valve (Rewire socket).

COIL KIT: Part No. 15-12 (A.W.A. Tuning Condenser).
DIAL GLASS: Part No. 50-28.
SPEAKER: Part No. 70-14 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-34.
POWER TRANSFORMER: Part No. 18-5 (H.T.: 270v. each side of centre tap).

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MODEL 11-7D.

CIRCUIT: As on 11-7 Circuit, except for following alteration:—
(a) 6B6G Valve replaced by 6SQ7GT Valve (Rewire Socket).

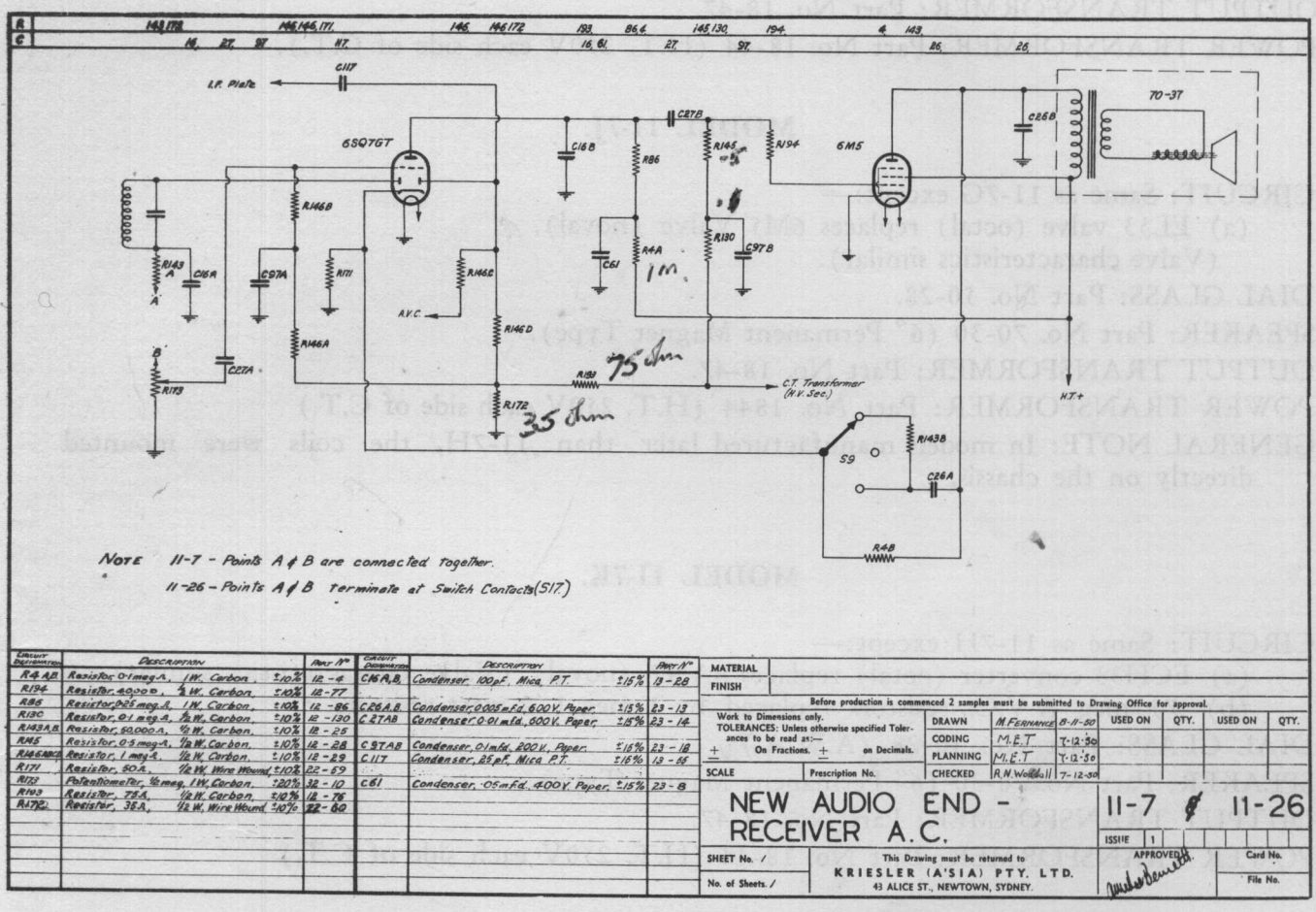
COIL KIT: Part No. 15-12 (A.W.A. Tuning Condenser).
DIAL GLASS: Part No. 50-28.
SPEAKER: Part No. 70-14 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-34.
POWER TRANSFORMER: Part No. 18-5 (H.T.: 270v. each side of centre tap).

A.V. Series 11/7.

TECHNICAL SERVICE INSTRUCTIONS

ISSUED BY

KRIESLER AUSTRALASIA LTD.



Circuit Designation	Description		Part No.
R4 A,B	Resistor, 0·1 meg-A,	1W. Carbon, ±10%	12 - 4
R194	Resistor, 40,000 Ω,	½ W. Carbon, ±10%	12 - 77
RB6	Resistor, 0·25 meg.A,	1W. Carbon, ±10%	12 - 86
R130	Resistor, 0·1 meg-A,	½ W. Carbon, ±10%	12 - 130
R143A,B	Resistor, 50,000 A,	½ W. Carbon, ±10%	12 - 25
R145	Resistor, 0·5 meg-A,	½ W. Carbon, ±10%	12 - 28
R146E,D	Resistor, 1 meg-A,	½ W. Carbon, ±10%	12 - 29
R171	Resistor, 50 A,	½ W. Wire Wound ±10%	22 - 59
R172	Potentiometer, ½ meg,	1W. Carbon, ±20%	32 - 10
R193	Resistor, 75 A,	½ W. Carbon, ±10%	12 - 76
R172	Resistor, 35 A,	½ W. Wire Wound ±10%	22 - 60

Circuit Designation	Description		Part No.
C15A,B,	Condenser, 100pf., Mica, P.T.	±15%	13 - 28
C26A,B	Condenser, 0·005 mfd, 600V. Paper.	±15%	23 - 13
C27AB	Condenser 0·01 mfd., 600V. Paper.	±15%	23 - 14
C97AB	Condenser, 0·1 mfd, 200V. Paper.	±15%	23 - 18
C117	Condenser, 25 pf, Mica P.T.	±15%	13 - 56
C61	Condenser, ·05 mfd, 400V. Paper,	±15%	23 - 8

MATERIAL

FINISH

Before production is commenced 2 samples must be submitted to Drawing Office for approval.

Work to Dimensions only. TOLERANCES: Unless otherwise specified Tolerances to be read as:— ± On Fractions. ± on Decimals.

SCALE | Prescription No.

			USED ON	QTY.	USED ON	QTY.
DRAWN	M. FERNANCE	8-11-30				
CODING	M.E.T	7-12-30				
PLANNING	M.E.T	7-12-30				
CHECKED	R.N. Woodall	7-12-30				

NEW AUDIO END - RECEIVER A.C.

11-7 & 11-26

ISSUE 1

SHEET No. 1 | No. of Sheets. 1

This Drawing must be returned to KRIESLER (A'SIA) PTY. LTD. 43 ALICE ST., NEWTOWN, SYDNEY.

APPROVED

Card No.

File No.

MODEL 11-7G.

CIRCUIT: As on 11-7 (issue 2) except for the following alterations:—

(a) New audio end used. (See circuit above).
(b) 6AN7 (noval replaces ECH33 (octal).
(c) 6M5 (noval) replaces EL33 (octal).
(d) Screen bypass now .05 mfd 200V working condenser in place of C28A.
(e) R9 40,000 ohm resistor used as a bleed resistor from 6AN7/6SK7 screens to earth.

COIL KIT: Part No. 15-12 (A.W.A. Tuning Gang).

DIAL GLASS: Part No. 50-20.

SPEAKER: Part No. 70-30 (6" Permanent Magnet Type).

OUTPUT TRANSFORMER: Part No. 18-47.

POWER TRANSFORMER: Part No. 18-44 (H.T. 250V each side of C.T.).

MODEL 11-7H.

CIRCUIT: Same as 11-7G except 1 megohm bias resistors R146a and R146b are deleted and replaced by .75 meg 1/2 watt resistors.
COIL KIT: Part No. 15-12 (A.W.A. Tuning Condenser).
DIAL GLASS: Part No. 50-28.
SPEAKER: Part No. 70-30 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-47.
POWER TRANSFORMER: Part No. 18-44 (H.T. 250V each side of C.T.).

MODEL 11-7J.

CIRCUIT: Same as 11-7G except:—
(a) EL33 valve (octal) replaces 6M5 Valve (noval). (Valve characteristics similar).
DIAL GLASS: Part No. 50-28.
SPEAKER: Part No. 70-30 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-47.
POWER TRANSFORMER: Part No. 1844 (H.T. 250V each side of C.T.)
GENERAL NOTE: In models manufactured later than 11-7H, the coils were mounted directly on the chassis.

MODEL 11-7K.

CIRCUIT: Same as 11-7H except:—
(a) ECH33 converter (octal) replaces 6AN7 (noval) (Valve characteristics similar)
(b) .75 meg A.V.C. resistors replaced by 1 meg 1/2 watt resistors.
DIAL GLASS: Part No. 50-28 (A.W.A.)
SPEAKER: Part No. 70-30 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-47.
POWER TRANSFORMER: Part No. 18-44 (H.T. 250V each side of C.T.)

MODEL 11-7L.

CIRCUIT: Same as 11-7K except:
(a) EL33 output valve (octal) replaces 6M5 valve (noval) (Valve characteristics are similar)
DIAL GLASS: Part No. 50-28 (A.W.A.)
SPEAKER: Part No. 70-30 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-47.
POWER TRANSFORMER: Part No. 18-44 (H.T. 250V each side of C.T.)

MODEL 11-25C.

CIRCUIT: Same as 11-25 Issue 1 except:—
(a) the filter choke has been deleted, a 1,500Ω resistor taking its place. (Part No. 22-63).
COIL KIT: Part No. 15-14 (A.W.A. Gang).
DIAL GLASS: Part No. 50-43.
POWER TRANSFORMER: Part No. 18-42 (H.T. 250V each side of centre tap).
MOTOR AND PICK-UP UNIT: Part No. 29-5 (Garrard S).

TECHNICAL SERVICE INSTRUCTIONS

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KRIESLER AUSTRALASIA PTY. LTD.

RECEIVER MODEL No. 11-7 (Issue 2).

Typical Voltage Analysis.

VALVE COMPLEMENT
ECH35 —Mixer—Local Oscillator.
6SK7GT—I.F. Amplifier.
6SQ7GT—Det., A.V.C., A.F. Amplifier.
EL33A —Output Valve.
6X5GT —Rectifier.

TYPICAL VOLTAGE ANALYSIS.
Input to Primary of Power Transformer = 240v. A.C.
Heater Supply ..... = 6.2v. A.C.
B+ ..... = 230v. D.C.

ECH35—
Hexode Anode ..... = 230v. D.C.
Hexode Screen ..... = 82v. D.C.
Hexode Fixed Bias .. = —2v. D.C.
Osc. Anode ..... = 100v. D.C.

6SK7GT—
Anode ..... = 230v. D.C.
Screen ..... = 82v. D.C.
Fixed Bias ..... = —2v. D.C.

6SQ7GT
Anode ..... = 125v. D.C.
Cathode ..... = 1.2v. D.C.

EL33A—
Anode ..... = 210v. D.C.
Screen ..... = 230v. D.C.
Cathode ..... = 6.5v. D.C.

6X5GT—
Anodes ..... = 250v. A.C.
B+ at Cathode ..... = 250v. D.C.

TRANS. PRIMARY CURRENT.
On Load ..... 190m.A.
Off Load ..... 35m.A.

NOTE.—All measurements made with respect to Chassis.
VOLTMETER SENSITIVITY.—20,000 ohms per volt on D.C. Ranges.
1,000 ohms per volt on A.C. Ranges.
NOTE.—Circuit 11-7, Issue 2, applies to Models 11-7, F, G, H, etc.

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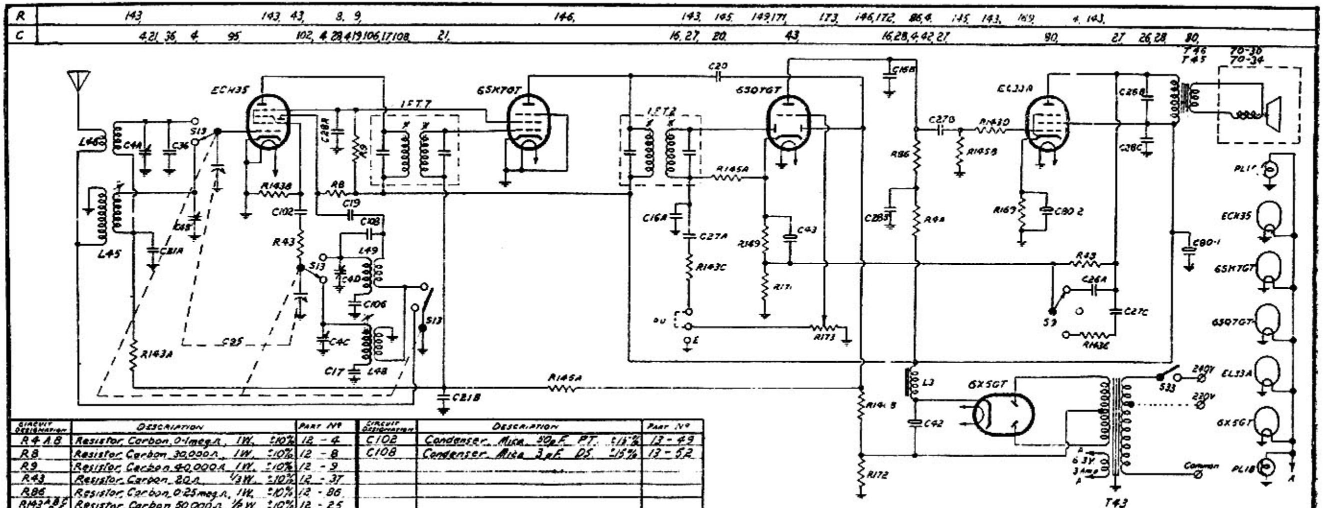
MODEL 11-7F.

CIRCUIT: As on 11-7 (Issue 2) Circuit.
COIL KIT: Part No. 15-12 (A.W.A. Tuning Condenser).
DIAL GLASS: Part No. 50-28.
SPEAKER: Part No. 70-30 (6" Permanent Magnet Type).
OUTPUT TRANSFORMER: Part No. 18-47 (7,000 ohms to 3.7 ohms).
POWER TRANSFORMER: Part No. 18-44 (H.T.: 250v. each side of centre tap).



Circuit Designation	Description	Part Nº	Circuit Designation	Description	Part Nº
R4 A.B	Resistor, Carbon, 0·1meg.Ω, 1W, ±10%	12 - 4	C102	Condenser, Mica, 50pF, PT. ±15%	13 - 49
R8	Resistor, Carbon, 30,000Ω, 1W, ±10%	12 - 8	C108	Condenser, Mica, 3pF, DS. ±15%	13 - 52
R9	Resistor, Carbon, 40,000Ω, 1W, ±10%	12 - 9			
R43	Resistor, Carbon, 20Ω, 1/3W, ±10%	12 - 37			
R86	Resistor, Carbon, 0·25meg.Ω, 1W, ±10%	12 - 86			
R143 A,B,C,D,E	Resistor, Carbon, 50,000Ω, ½W, ±10%	12 - 25			
R145 A.B.	Resistor, Carbon, 0·5meg.Ω, ½W, ±10%	12 - 28	L3	Choke, Filter, 14Henry, 60mA.	28 - 2
R146 A.B.	Resistor, Carbon, 1meg.Ω, ½W, ±10%	12 - 29	L45	Coil, Broadcast Aerial	14 - 7
R149	Resistor, Carbon, 4000Ω, ½W, ±10%	12 - 32	L46	Coil, Short Wave Aerial	14 - 8
R169	Resistor, Wirewound, 175Ω, 1W, ±10%	22 - 58	L48	Coil, Broadcast Oscillator.	14 - 10
R171	Resistor, Wire Wound, 50Ω, ½W, ±10%	22 - 59	L49	Coil, Short Wave Oscillator.	14 - 11
R172	Resistor, Wire Wound, 35Ω, ½W, ±10%	22 - 60			
R173, S33	Switch Potentiometer, ½meg.Ω, 1W, ±20%				
	Switch - Single Pole, Single Throw	32 - 10	S9	Switch, Tone Control, 3 Pos. Single Pole	57 - 2
			S13	Switch, Wave Change, 2 Pos, 3 Pole.	17 - 6
C4 A.B.C.D.	Condenser, Trimmer, 3 to 20pF	63 - 5			
C15 A.B.	Condenser, Mica, 100pF, PT. ±15%	13 - 28	I.F.T.1.	1st. I.F. Transformer, 455 K.C.	24 - 7
C17	Condenser, Mica, 435pF, SBL ±2½%	13 - 39	I.F.T.2.	2nd. I.F. Transformer, 455 K.C.	24 - 2
C19	Condenser, Mica, 250pF, PT. ±15%	13 - 41			
C20	Condenser, Mica, 25pF, SM ±15%	13 - 42			
C21 A.B.	Condenser, Paper, 0·05mfd, 200V ±15%	23 - 12	T43	Transformer, Power.	18 - 44
C26 A.B.	Condenser, Paper, 0·005mfd, 600V ±15%	23 - 13	T45	Transformer, Output, 7K to 2·3Ω (11-9)	18 - 46
C27 A.B.C.	Condenser, Paper, 0·01mfd, 600V ±15%	23 - 14	T46	Transformer, Output, 7K to 3·7Ω (11-7)	18 - 47
C28 A.B.C.	Condenser, Paper, 0·1mfd, 400V ±15%	23 - 15			
C36	Condenser, Mica, 10pF, DS ±15%	13 - 43	PL1 A, B.	Pilot Light, 6·3V 0·3Amp, MES Base	47 - 2
C42	Condenser, Elect, 16mfd, 525V, ET, -10% +40%	43 - 5			
C43	Condenser, Elect, 25mfd, 40V, ET, -10% +40%	43 - 6		Speaker, 6" Permag. (11-7)	70 - 30
C80-1	Condenser, Dual Elect, 16mfd 380V ED -10% +40%	43 - 16		Speaker, 8" Permag. (11-9)	70 - 34
C80-2	Condenser, Dual Elect, 25mfd 40V ED -10% +40%				
C106	Condenser, Paper, 0·009mfd, 600V ±10%	23 - 23			
C95	Condenser, Variable, 2 Gang	53 - 6			

Speaker Socket Connections: Pin Nº1 - Earth, Pin Nº3 - Plate, Pin Nº5 - B+ (Octal Plug).
Mains Switch actuated by Potentiometer Spindle.
S13 Shown in clockwise position.
S9 Shown in anticlockwise position.
When ordering Replacement Parts, please state the following:-
Receiver Model Nº, Chassis Nº, Part Nº, Circuit Designation, General Description.

Before production is commenced 2 samples must be submitted to Drawing Office for approval.

Work to Dimensions only.
TOLERANCES: Unless otherwise specified Tolerances to be read as:—
± On Fractions. ± on Decimals.

			USED ON	QTY.	USED ON	QTY.
DRAWN	R. GILFILLAN	14-9-48				
CODING	M. I. 1	16-4-48				
PLANNING	H. E. Layton	10-9-48				
CHECKED	A. Fooll	29-10-48				

SCALE
Prescription No.

RECEIVER - A.C.

11 - 7 & 9

ISSUE Nº 2

SHEET No.
No. of Sheets.

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File No.