

VALVES	CATHODE TO CHASSIS VOLTS	SCREEN GRID TO CHASSIS VOLTS	ANODE TO CHASSIS VOLTS	ANODE CURRENT mA	HEATER VOLTS
6BE6 Converter	0	70	160	2	6.3
6N8 I.F. Amp., Det., AGC	0	70	160	5	6.3
6AU6 Audio Amp.	0	61	50	0.75	6.3
6AU6 Audio Amp.	0	61	50	0.75	6.3
6AQ5 Audio Output	0	160	220	25	6.3
6AQ5 Audio Output	0	160	220	25	6.3
6V4 Rectifier	240	—	235	—	6.3

Total H.T. Current = 70ma

Measured with 240 volts A.C. supply (with selector switch in radio position). No signal input. Volume Control maximum clockwise. Voltmeter 20,000 ohms per volt. Measurements taken on highest scale giving accurate readable deflection.

D.C. RESISTANCE OF WINDINGS

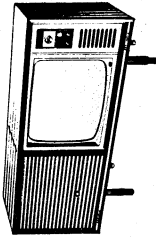
WINDING	D.C. RESISTANCE IN OHMS	WINDING	D.C. RESISTANCE IN OHMS
Aerial Transformer TR1		Output Transformers TR5 and TR6	
Primary	32	Primary	360
Secondary	1.5	Secondary	1.8
Oscillator Transformer TR2		Power Transformer TR7	
	3.5	Primary	50
I.F. Transformers TR3 and TR4		H.T. Secondary	450
	18	L.T. Secondary	*

* Less than 1 ohm.

The above readings were taken on a standard chassis, but substitution of materials during manufacture may cause variations and it should not be assumed that a component is faulty if a slightly different reading is obtained.

A.W.A. THEATRE-GRAM MODELS D93 AND K93

ISSUED BY AMALGAMATED WIRELESS (AUSTRALASIA) LTD.



GENERAL DESCRIPTION

A.W.A. Theatre-gram Models D93 and K93 consist of two separate and independent electronic units housed in one cabinet.

The radiogram unit consists of a seven-valve stereophonic radio-phonograph chassis, a four-speed automatic record changer, two-speaker stereophonic network and record storage space housed in the left-hand side of the cabinet.

The television unit in Model D93 consists of a standard 40-00 series TV chassis (40-06) and TB4 (45054) type neotrode Turret Tuner housed in the right-hand side of the cabinet.

In Model K93 the television chassis used is a 36-50 series TV chassis (36-60).

This manual will cover completely the radiogram chassis, all mechanical replacement parts associated with the radiogram chassis, cabinet fittings and those items on the television that are peculiar to these models. For alignment procedure and code list for the TV chassis, refer to the 40-00 Series TV Chassis Service Manual issued February, 1966, or to the 36-50 TV Chassis Service Manual issued June, 1965, as the case may be. For information pertaining to the TV Tuner, refer to Service Data for the TB Series Neotrode Turret Tuner issued April, 1965.

ELECTRICAL AND MECHANICAL SPECIFICATIONS

RADIOGRAM

Frequency Range 525-1650 Kc/s
 Intermediate Frequency 455 Kc/s
 Power Supply Rating 200-260 volts a.c. 50 c.p.s.

POWER CONSUMPTION

Receiver Chassis 50 watts
 Record Changer 20 watts

UNDISTORTED POWER OUTPUT: 1.5 watts per channel

9" x 6", one per channel 53304

V.C. IMPEDANCE

..... 15 ohms at 400 c.p.s.

DIMENSIONS

Height 30"
 Width 57 1/2"
 Depth 17 1/2"
 Height of Legs 8"
 Weight 213 lbs.

VALVE COMPLEMENT

V1 Radiotron 6BE6 Converter
 V2 Radiotron 6N8 I.F. Amplifier, Detector and A.G.C.
 V3 Radiotron 6AU6 Left-hand channel Audio Amplifier
 V4 Radiotron 6AU6 Right-hand channel Audio Amplifier
 V5 Radiotron 6AQ5 Left-hand channel output
 V6 Radiotron 6AQ5 Right-hand channel output
 V7 Radiotron 6V4 Rectifier

TELEVISION

VALVE COMPLEMENT

V1 Radiotron 6GK5 R.F. Amp. } In tuner
 V2 Radiotron 6HG8 Osc. Mixer }
 V101 Radiotron 6AU6 Sound I.F.
 V102 Radiotron 6AL5 Ratio Detector
 V103 Radiotron 6AV6 Audio Ampl. & A.G.C. Clamper
 V104 Radiotron 6HG5 Audio Output
 V201 Radiotron 6BZ6 1st Video I.F. (D93)
 V202 Radiotron 6EW6 2nd Video I.F. (D93)
 Radiotron 6CB6 2nd Video I.F. (K93)
 V203 Radiotron 6EJ7 3rd Video I.F. (D93)
 Radiotron 6CB6 3rd Video I.F. (K93)
 V204 Radiotron 6E88 Video Ampl. & Sync. Amp.
 V205 Radiotron 6C67 Video Control & Vert. Osc.
 V206 Radiotron 25QP4 or 25TP4 Picture Tube
 V207 Radiotron 6EA8 1st Sound I.F. & Noise Detector (D93)
 V301 Radiotron 6H58 Noise Gated A.G.C. & Sync. Sep.
 V302 Radiotron 6EM5 Vertical Output
 V401 Radiotron 6AL5 Phase Discriminator
 V402 Radiotron 6C67 Buffer & Hor. Osc.
 V403 Radiotron 6CM5 Horizontal Output
 V404 Radiotron 6AU4GT4 Damper
 V405 Radiotron IB3-GT H.V. Rectifier
 MR201 AWV IN87A Sound Detector (D93)
 AWV IN87A Video Detector (K93)
 MR202 AWV IN87A Video Detector (D93)
 MR401 AWV IN3194 Power Rectifier
 MR402 AWV IN3194 Power Rectifier

