

VOLTAGE, CURRENT AND RESISTANCE TABLE

ADMIRAL RADIO MODEL C55-01

VOLTAGE, CURRENT AND RESISTANCE TABLE (Contd.)

Voltage and current readings taken with the receiver operating on 240 volts 50 c.p.s. mains. Receiver tuned to point of no reception on M.W. Band. Voltage readings taken with meter resistance 20,000 ohms or volt.

Valve Function	Pin Number	Volts to Chassis	Current mA	Resistance to Chassis
V1 6BE6 frequency changer	1. osc. grid	—	—	22 K ohms
	2. cathode	0	8.8	0.7 ohms
	3. heater	3.1 A.C.	300 A.C.	14 ohms
	4. heater	3.1 A.C.	1.5	14 ohms
	5. anode	200	7.1	—
V2 6N8 I.F. amp. demod. A.V.C.	6. screen grid	92	—	2.1 M ohms
	7. sig. grid	—	—	—
	1. screen grid	92	2.0	—
	2. sig. grid	—	—	2 M ohms
	3. cathode	0	8.4	—
	4. heater	3.1 A.C.	300 A.C.	14 ohms
	5. heater	3.1 A.C.	6.4	14 ohms
V3 12AX7 triode #1 audio. amp- triode #2 preamp.	6. anode #1	200	—	470 K ohms
	7. grid #1	—	—	1 M ohm
	8. cathode #1	0	—	0
	9. heater	—	—	—
	1. anode #2	112	0.3	—
	2. grid #2	0	—	1 M ohm
	3. cathode #2	1.2	0.3	3.3 K ohms
	4. heater	3.1 A.C.	—	14 ohms
	5. heater	3.1 A.C.	0.45	14 ohms
V4 12AX7 phase inverter	6. anode #1	130	—	—
	7. grid #1	0.05	—	1 M ohm
	8. cathode #1	2.5	0.45	5.5 K ohms
	9. heater	3.1 A.C.	300 A.C.	14 ohms
	1. anode #2	140	0.16	—
	2. grid #2	0	—	43 K ohms
	3. cathode #2	1.45	0.16	10 K ohms
	4. heater	3.1 A.C.	—	14 ohms
	5. heater	3.1 A.C.	—	14 ohms
V5 6AQ5 power amplifier	6. anode #1	103	0.26	—
	7. grid #1	0	—	22K-1M ohms
	8. cathode #1	0.9	0.26	3.7 K ohms
	9. heater	3.1 A.C.	300 A.C.	14 ohms
	1. sig. grid	0	—	471 K ohms
	2. cathode	11.2	26	220 ohms
	3. heater	3.1 A.C.	450 A.C.	14 ohms
	4. heater	3.1 A.C.	—	14 ohms
	5. anode	250	24	—
6. screen grid	200	2	—	
7. sig. grid	0	—	470 K ohms	

Valve Function	Pin Number	Volts to Chassis	Current mA	Resistance to Chassis
V6 6AQ5 power amplifier	1. sig. grid	0	—	474 K ohms
	2. cathode	11.2	26	220 ohms
	3. heater	3.1 A.C.	450 A.C.	14 ohms
	4. heater	3.1 A.C.	—	14 ohms
	5. anode	250	24	—
	6. screen grid	200	2	—
	7. sig. grid	0	—	470 K ohms
V7 6V4 Rectifier	1. anode #1	250 A.C.	—	200 ohms
	2. —	—	—	—
	3. cathode	260 D.C.	70	—
	4. heater	3.1 A.C.	600 A.C.	14 ohms
	5. heater	3.1 A.C.	—	14 ohms
	6. —	—	—	—
	7. anode #2	250 A.C.	—	200 ohms
	8. —	—	—	—
	9. —	—	—	—

REMARKS:
Voltage across 22 ohms back bias resistor = 1.5 V.

ALIGNMENT PROCEDURE

Before attempting any alignment the following settings should be made on the receiver—

1. Volume control maximum.
2. Tone controls set to mid-position.
3. During alignment the input to the receiver must be kept low and progressively reduced as the circuits are brought into line so that the output meter reading does not exceed about 1 volt.

Connection of Signal Generator	Signal Frequency	Receiver Gang Setting	Adjustment	Remarks
1. To stator plates of front section of gang through 0.1 µF.	455 Kc/s	Fully closed	Adjust I.F. transformer cores for maximum output starting with second I.F.T. and following with the first	Selector switch set to M.W.
2. To aerial terminal through 200 pF capacitor	600 Kc/s	Tune to 600 Kc/s and rock the gang while making adjustment.	Adjust M.W. osc. slug for maximum output	Check that with gang fully closed pointer lines up with "S" mark on dial back plate
3. To aerial terminal through 200 pF capacitor	1500 Kc/s	1500 Kc/s calibration mark on dial back-plate	Adjust M.W. osc. and aerial trimmers in that order for maximum output	
4.			Repeat steps 2 and 3 until correct calibration is obtained	
5. To aerial terminal through 400 ohms resistor	7 Mc/s	7 Mc/s calibration mark on dial back plate	Adjust S.W. osc. and aerial slugs in that order for maximum output	Selector switch set to S.W.
6. To aerial terminal through 400 ohms resistor	18 Mc/s	18 Mc/s calibration mark on dial back plate	Adjust S.W. osc. and aerial trimmers in that order for maximum output	
7.			Repeat steps 5 and 6 until correct calibration is obtained	

TECHNICAL SPECIFICATION

This chassis is a 7-valve A.C. mains-operated dual-wave superheterodyne receiver. It incorporates an audio frequency pre-amplifier together with equalizing circuits for the reproduction of standard and long-playing records.

POWER SUPPLY:
200-250 volts at 50 c.p.s.

CONSUMPTION:
50 watts.

TUNING RANGE:
M.W. 520 Kc/s to 1620 Kc/s.
S.W. 5.9 Mc/s to 18.4 Mc/s.

INTERMEDIATE FREQUENCY:
455 Kc/s.

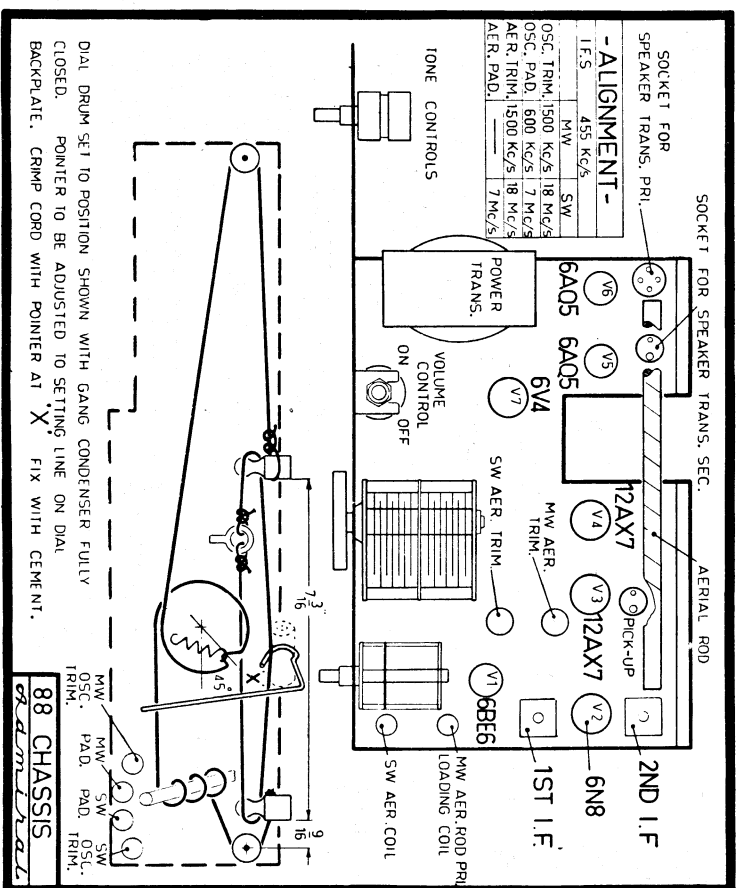
VALVE COMPLEMENT:

6BE6 Frequency Converter
6N8 I.F. Amplifier, Demodulator, A.V.C.
12AX7 Pre-amplifier and Audio Amplifier.
12AX7 Phase Inverter
6AO5 Power Amplifier
6AO5 Power Amplifier
6V4 Rectifier.

DIAL LAMPS

6.3 volt 0.3 amp (M.E.S. base).

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Valve location and cord stringing diagram.

LOUDSPEAKERS:

Wooler 8 inch permagnetic 2.7 ohms impedance at 400 c.p.s.
Tweeter $\frac{3}{4}$ inch permagnetic

CONTROLS:

- | | |
|---------------------------------------|---------------|
| (1) Tuning control | concentric. |
| (2) Selector switch | } concentric. |
| (3) Bass control | |
| (4) Treble control | } concentric. |
| (5) Volume control and on-off switch. | |

SELECTOR SWITCH POSITIONS:

- | |
|---------------------------|
| (1) Short Wave. |
| (2) Medium Wave. |
| (3) Standard Recordings. |
| (4) Long Play Recordings. |

DISMANTLING**"Chairside" Radiogram**

- (1) Remove power plug from mains socket.
- (2) Secure Pick-up to arm-rest.
- (3) Remove base of cabinet by unscrewing 11 wood screws.
- (4) Disconnect 2 speaker plugs and 1 pick-up plug from their respective sockets on radio chassis.
- (5) Disconnect chassis mains lead from 3-way power cord connector.
- (6) Unsolder aerial and earth leads from tag panel on chassis.
- (7) Remove 5 control knobs by pulling firmly but gently.
- (8) Remove 2 screws beside control shaft aperture in dial scale.
- (9) Remove 2 wood screws securing dial back cover to cabinet and lift up and backwards the dial scale and cover plate.
- (10) Unscrew 4 wood screws fixing chassis to cabinet and withdraw chassis.

"Tampa" Radiogram and Television Console**Removal of radiogram drawer from cabinet**

- (1) Remove power plug from mains socket.
- (2) Unscrew back cover from cabinet.
- (3) Disconnect chassis mains lead from 3-way power cord connector.
- (4) Unsolder twin speaker lead from T.V. sound output transformer at left hand side of cabinet shelf.
- (5) Unsolder aerial and earth leads from their respective terminals on Radio Aerial panel. With drawer closed, remove the spring and stop pin at the rear of each drawer runner. The drawer may now be removed by withdrawing from the front.

Removal of radiogram chassis from drawer

- (1) Secure pick-up to arm rest.
- (2) Remove peg-board cover at base of drawer by unscrewing 4 wood screws.
- (3) Disconnect 2 speaker plugs and 1 pick-up plug from their respective sockets on radio chassis.
- (4) Disconnect chassis mains lead from 3-way power cord connector.
- (5) Unsolder aerial and earth leads from tag panel on chassis.
- (6) Remove 5 control knobs by pulling firmly but gently.
- (7) Remove 2 screws beside control shaft aperture in dial scale.
- (8) Remove 2 wood screws securing dial back cover to cabinet and lift up and backwards the dial scale and cover plate.
- (9) Unscrew 4 wood screws fixing chassis to cabinet and withdraw chassis.

"Venice" Radiogram and Television Console**Removal of radiogram chassis**

- (1) Remove power plug from mains socket.
- (2) Unscrew wood screws and remove cabinet back.
- (3) Unscrew A-E panel from cabinet back and feed panel through aperture.
- (4) Disconnect 2 speaker plugs and 1 pick-up plug from their respective sockets on radio chassis.
- (5) Disconnect chassis mains lead from 3-way power cord connector.
- (6) Remove 5 control knobs by pulling firmly but gently.
- (7) Remove 2 screws beside control shaft aperture in dial scale.
- (8) Remove 2 wood screws securing dial back cover to cabinet and lift up and backwards the dial scale and cover plate.
- (9) Unscrew 4 wood screws fixing chassis to cabinet and withdraw chassis.

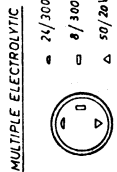
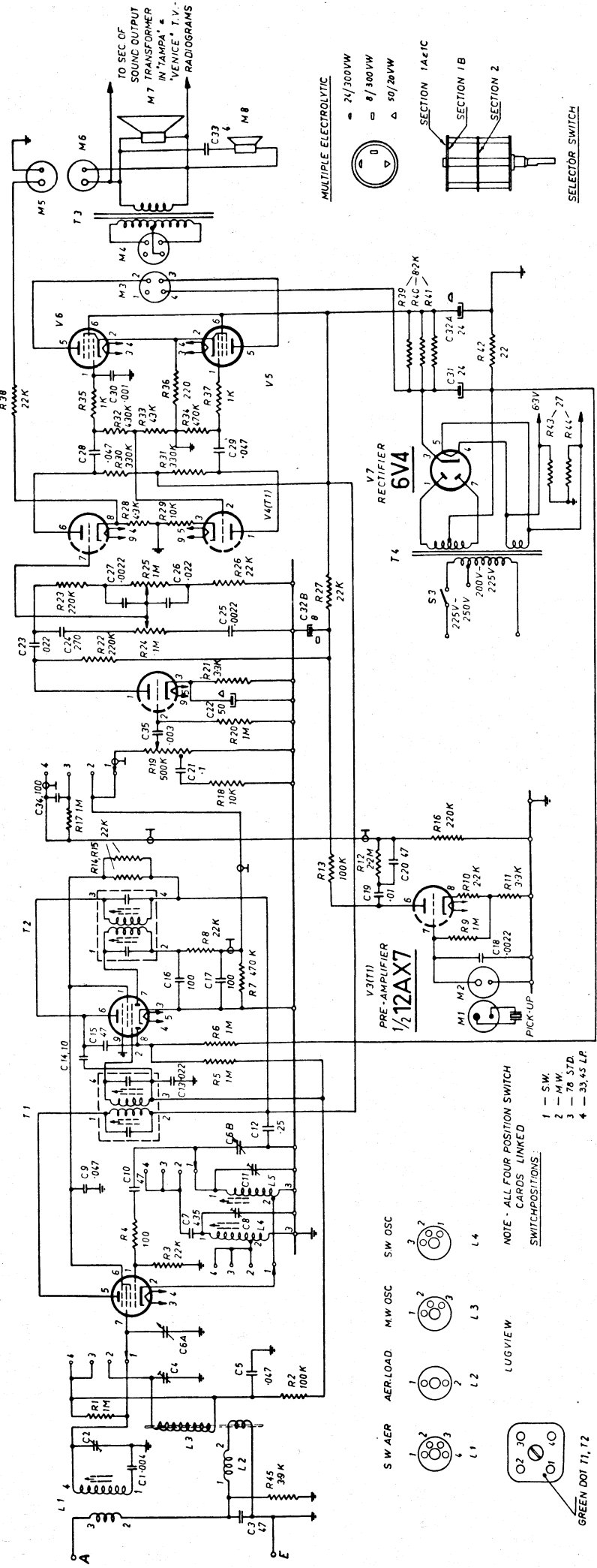
6A05/6AQ5
POWER AMPLIFIER

12AX7
PHASE INVERTER
V4(T1)

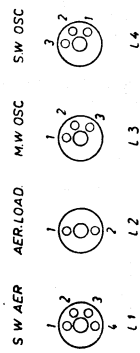
1/2 12AX7
A.F. AMPLIFIER
V3 (T2)

6N8
I.F. AMP. - DEMOD. - A.V.C.
V2

6BE6
FREQUENCY CHANGER
V1



SELECTOR SWITCH



NOTE - ALL FOUR POSITION SWITCH CARDS LINKED SWITCH POSITIONS:

- 1 - S.W.
- 2 - M.W.
- 3 - S.W. STD.
- 4 - 33,45 LP.

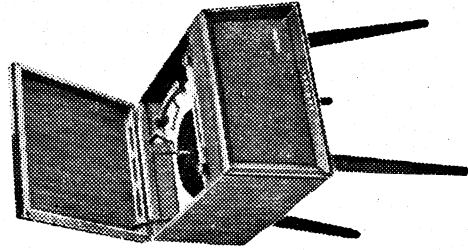
Service Manual

for

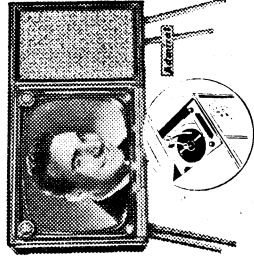
**7 Valve A.C. Mains-Operated
Dual-Wave Receiver Part No. C55-01**

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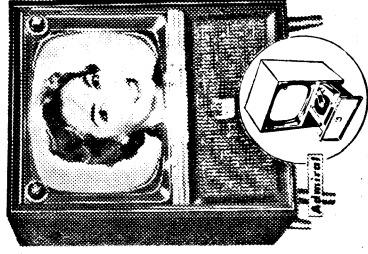
- "Chairside" Radiogram
- "Tampa" Radiogram & TV Console
- "Venice" Radiogram & TV Console



CHAIRSIDE



VENICE



TAMPA