

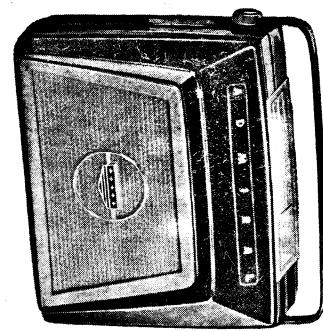
Admiral

SERVICE DOCUMENT

Model 4AZS

- Battery Power is preferable for alignment. Use FRESH batteries for this operation. If the set is to be aligned when power is supplied via the mains, an isolating transformer is advised to limit external interference.
- The chassis cover must be removed to reach adjustment points A and C.
- Set volume control full on.

- Connect output meter to primary of speaker transformer
- Use lowest setting of signal generator capable of producing indication on lowest scale of output meter.
- Use a non metallic alignment tool for I.F. transformer
- Repeat adjustments to ensure good results.



Colour Range: Burgundy, Beige, Forest Green, Light Grey, Tan. All with gold trim.

SPECIFICATIONS

Circuit: Superheterodyne receiver with 4 miniature valves.

Frequency Range: 535 Kc/s to 1620 Kc/s covering broadcast band.

Intermediate Frequency: 455 Kc/s.

Power Supply: This receiver operates on one 90 Volt "B" Battery and one $7\frac{1}{2}$ Volt "A" Battery.

Power Consumption: Approximately 20 watts.

Antenna: Built in Ferroscope antenna.

Speaker: 4" P.M. Voice Coil impedance 6.5 ohms, Transformer primary 10,000 ohms.

BATTERY REPLACEMENT

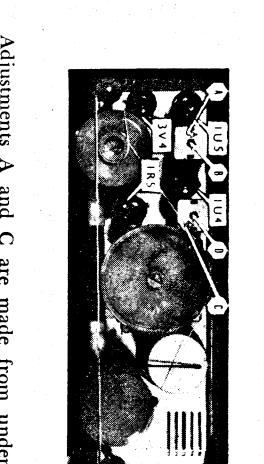
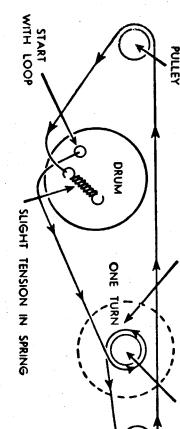
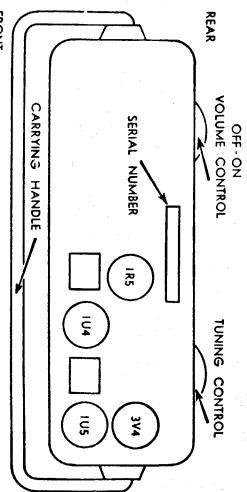
Run-down batteries should be removed from the set. Corrosive material may leak from a run-down battery and parts of the chassis or the cabinet are likely to be damaged.

In normal use batteries for this set should furnish about 40 operating hours. Batteries listed below, or an equivalent substitute may be used in this set.

"A" Battery (7 $\frac{1}{2}$ Volts) : Eveready 717 or equivalent.
"B" Battery (90 Volts) : Eveready 490-P or equivalent.

Voltage Data:
Voltages are shown at relevant points on circuit diagram.
All voltages are taken between valve socket terminals and B minus, which is chassis connection.
Dial set at low frequency end (gang fully meshed) volume control at minimum.

TO REPLACE DIAL CORD



Location of Valves and Adjustment Positions

Adjustments A and C are made from underside of chassis.

REMOVING THE CHASSIS

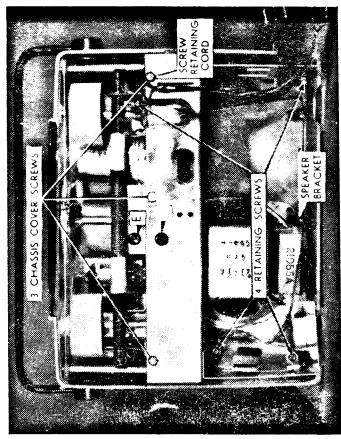
The chassis should be removed from the cabinet on all occasions of servicing other than for battery replacement or visual inspection.

The high gloss surface of the cabinet can be scratched very easily when in contact with a roughened service bench. It is important that all operations be conducted on a grit-free felt pad to avoid this.

To remove the chassis proceed as follows:-
1. Open the cabinet and lie it face down on the pad.

ADMIRAL RADIO MODEL 4AZS

2. Remove the screw retaining the cord which is fastened to the cabinet cover.
 3. Disconnect and remove the "A" and "B" batteries.
 4. Remove the FOUR retaining screws indicated (x) on the following diagram. Loosen the screw securing the speaker bracket.

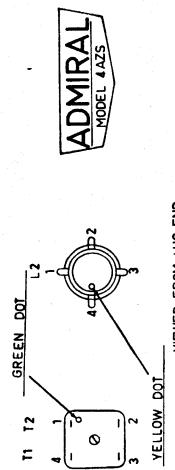
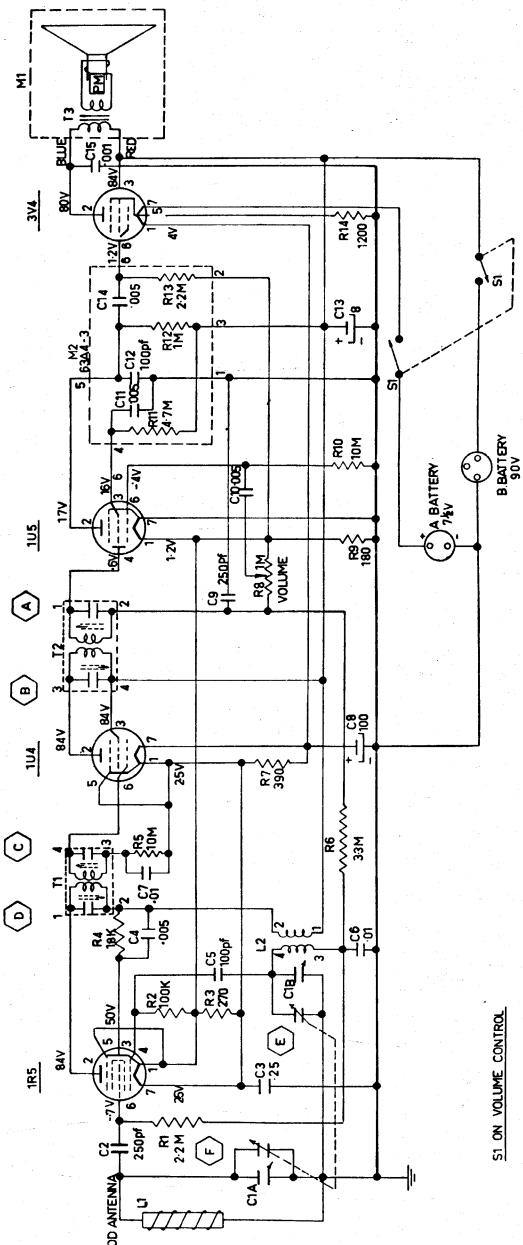


The complete chassis may now be lifted clear of the cabinet.

The chassis cover must be removed to align the receiver or check voltages. Remove the remaining cover.

When replacing the chassis cover, ensure that the two screws which hold the cover on the chassis.

Three tabs fit into slots along the edge of the chassis at either side of the speaker. Make sure the lead wires from the output transformer fitted to the speaker are not caught between the chassis and the cover.



The diagram illustrates the volume control mechanism. It features a central circular component with a slot labeled '4 C'. Two horizontal lines extend from the top and bottom of this slot to two rectangular components. The top component is labeled 'GREEN DOT' and has four numbered points: 1 at the top, 2 at the bottom, 3 on the left, and 4 on the right. The bottom component is labeled 'YELLOW DOT' and also has four numbered points: 1 at the top, 2 at the bottom, 3 on the left, and 4 on the right. Arrows point from the labels 'GREEN DOT' and 'YELLOW DOT' to their respective components.

RESISTORS			Symbol	Description	Part No.	Symbol	Description	Part No.	Part No.
R1	7.2 megohms $\frac{1}{2}$ watt		A60A10-25.4	C9 .005 ufd 200V AEE	A64A22-122.4		Drum—Dial	A17B-03	A34-17-12
R2	100,000 ohms $\frac{1}{2}$ watt		A60A10-104.4	C10 Part of Couplete	A63A4-3		Terminal Strip	A10-02	A34-17-13
			A60A10-271.4	C11 250 ufd 10% Simplex	A65A10-77.4		Chassis Base	A14B04-2	
R3	270 ohms $\frac{1}{2}$ watt		A60A12.163.4	C12 Part of Couplete	A63A4-3		Dial Cord	A5-01	
R4	18,000 ohms 1 watt		A60A10-106.4	C13 }			Socket Valve Csch 732-2-15	A87-98	33A106-5.9
			A60A10-31.4	C14 .001 ufd 400V AEE	A63A23-101.4		Plug—Lead Assembly 90 Volt Battery	A89-07	33A106-5.1
R5	10 megohms $\frac{1}{2}$ watt		A60A10-35.4	C15 25 ufd 40V ETI	A63A08-71		Plug—Lead Assembly 71 Volt Battery	A89-08	33A106-5.1
COILS, TRANSFORMERS, ETC.							VALVES		
R6	380 ohms $\frac{1}{2}$ watt			L1 Aeriol Rod Assembly	A71-04		Converter	1R5	23B173
R7	3.3 megohms $\frac{1}{2}$ watt			L2 Coil, Oscillator	A59-03		I.F. Amplifier	IU4	23B167
R8	1 meg. Vol. Control with on-off			T1 Transformer, 1st I.F.	A72-02		2nd Detector, A.V.C. Driver	IU5	23C147-2
R9	180 ohms $\frac{1}{2}$ watt			T2 Transformer, 2nd I.F.	A72-02		Power Output	3V4	A21A02
R10	10 megohms $\frac{1}{2}$ watt			M1 Speaker M.S.P. "F" No. 6	A78-05				A21A06
R11	Part of Couplete			S1 Switch ON/OFF—Part of R8. Complete (includes R11, 12, 13, C10, 12, 13)	A63A4-3		CABINET PARTS		
R12							Baffle Board, Speaker	A43-B01	A33B03-8
R13							Button, Handle Ornament	20A18	A33B03-9
R14	1200 ohms 1 watt						Cabinet Front		A33B03-11
CAPACITORS									
C1A	Twin Gang Condenser			68B5T-2			Grey	A34-16-8	A33B03-13
C1B							Burgundy	A34-16-9	
C2	250 ufd AEE						Beige	A34-16-11	A33B15-8
C3	25 ufd 100V Miniseal						Tan	A34-16-12	A33B15-9
C4	.005 ufd 200V AEE						Green	A34-16-13	
C5	100 ufd 10% Simplex						Cabinet Rear:		A33B15-11
C6							Grey		A33B15-12
C7	.01 ufd 200V AEE						Beige		
C8	Electrolytic 100 ufd 12V						Tan		
C9							Green		A33B15-13