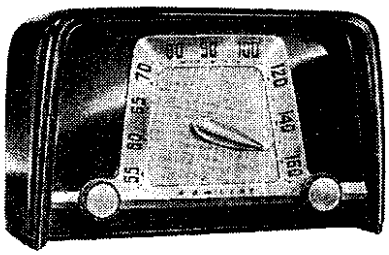
MODELS 5Z22, 5Z23, Ch. 5Z2



Model 5Z22 Mahogany and 5Z23 Ivory
Operating Voltage: 117 volts, 50 to 60 cycles AC or DC.
Power: 30 watts.

ALIGNMENT PROCEDURE

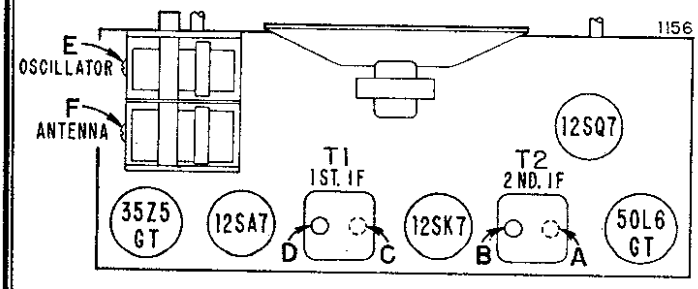
- Connect output meter across speaker voice coil.
- Turn receiver volume control full on.
- Use an isolation transformer if available, otherwise connect a .1 mfd. condenser in series with low side of signal generator and connect to chassis.

  Caution: Do not connect a ground wire directly to chassis.
- Use lowest output setting of signal generator capable of producing adequate output meter indication and then proceed as outlined in chart below.
- Repeat adjustments to insure good results.

Step	Dummy Antenna in Series with Signal Generator	Connection of Signal Generator (High Side)	Signal Generator Frequency	Receiver Gang Setting	Trimmer Description	Trimmer Designation	Type of Adjustment
1	250 mmfd. condenser	Antenna stator of tuning condenser	455 KC	Gang fully open	2nd IF 1st IF	*A, B *C, D	Maximum Output
2	250 mmfd. condenser	Antenna stator of tuning condenser	1620 KC	Gang fully open	Oscillator (on gang)	E	Maximum Output
3	Loop of several turns of wire or place generator lead close to receiver loop for adequate signal pickup.	No actual connection (signal by radiation)	1400 KC	Tune in generator signal	Antenna (on gang)	F	Maximum Output
4	Mount and set dial pointer as shown in "Pointer Setting and Dial Cord Stringing" diagram.						

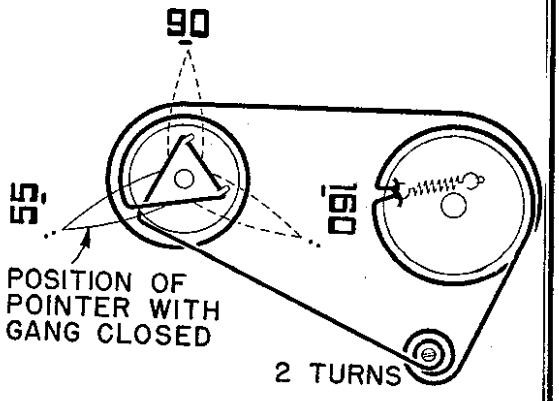
*Adjustments A and C made from the underside of the chassis. If IF transformers have hollow core slugs, these adjustments may all be made from the top of chassis, if you use alignment tool #98A30-7 obtainable from your Admiral distributor. The bottom IF slug adjustment may be reached through the hollow core in the upper slug.

TUBE AND TRIMMER LOCATION

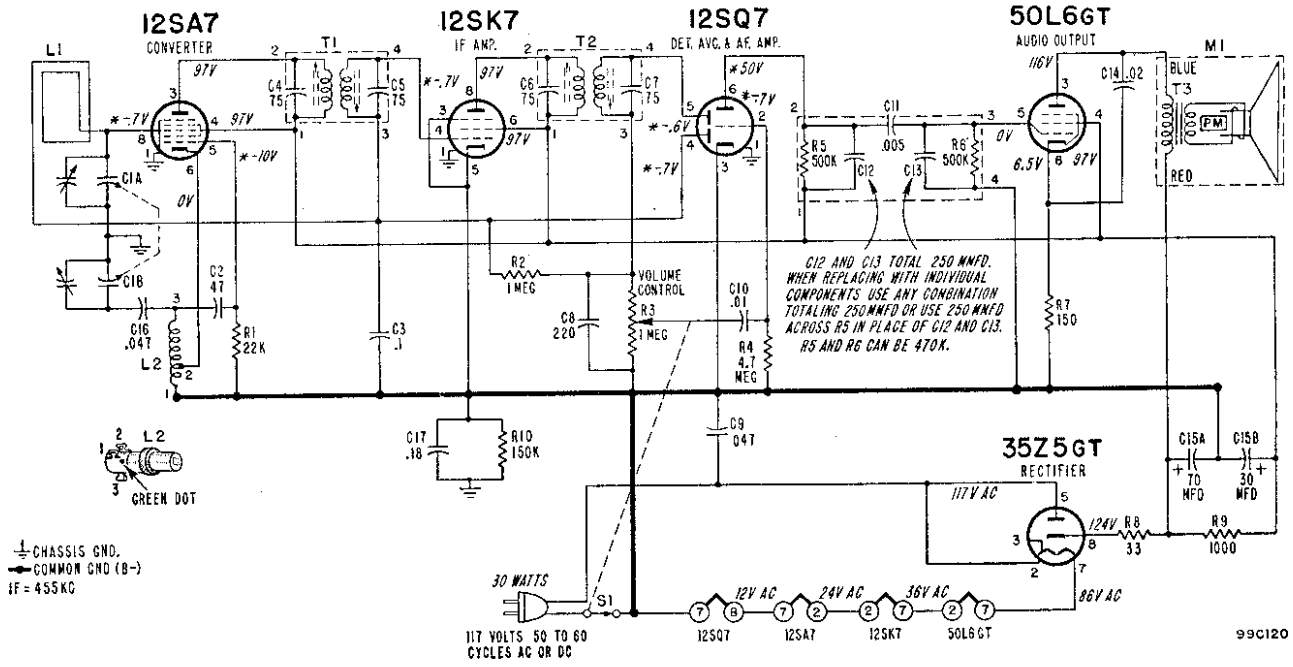


Adjustments A and C made from underside of chassis.

POINTER SETTING AND DIAL CORD STRINGING



MODELS 5Z22, 5Z23, Ch. 5Z2



*These voltage readings will be either lower or practically zero if taken with a 1000 ohm-per-volt meter.

VOLTAGE DATA

Voltages shown on schematic diagram.

- All readings made between tube socket terminals and B minus (terminal of On-Off switch).
- Dial turned to low frequency end; volume control at minimum.
- Measured on 117 Volts AC line.
- Voltages measured with Vacuum Tube Voltmeter.

RESISTORS

Symbol	Description	Part No.
R1	22,000 ohms, ½ watt	60B 8-223
R2	1 megohm, ½ watt	60B 8-105
R3	1 megohm, Volume control (R3 includes switch S1)	75B 1-40
R4	4.7 megohms, ½ watt	60B 8-475
†R5	500,000 ohms, ½ watt	
†R6	500,000 ohms, ½ watt	
R7	150 ohms, ½ watt	60B 8-151
R8	33 ohms, 1 watt	60B 28-3
R9	1,000 ohms, 1 watt	60B 28-2
R10	150,000 ohms, ½ watt	60B 8-154

CONDENSERS

Symbol	Description	Part No.
C1a	Ant., 420 mmfd, max } gang	68B 38
C1b	Osc. 108 mmfd, max } gang (Dial drum spot welded to gang)	
C2	47 mmfd, ceramic	65C 6-79
C3	.1 mfd, 200 volts, paper	64B 1-30
C4	75 mmfd, 3%	Part of T1
C5	75 mmfd, 3%	Part of T1
C6	75 mmfd, 3%	Part of T2
C7	75 mmfd, 3%	Part of T2
C8	220 mmfd, ceramic	65C 6-80
C9	.05 mfd, 400 volts, paper	64B 1-22
C10	.01 mfd, 400 volts, paper	64B 1-25
†C11	.005 mfd, 400 volts	
†C12	{ See note	
†C13	} on schematic	
C14	.02 mfd, 400 volts, paper	64B 1-24
C15a	70 mfd, 150 volts } elect.	67A 17
C15b	30 mfd, 150 volts } elect.	
C16	.047 mfd, 400 volts, paper	64B 8-28
C17	.18 mfd, 200 volts, paper	64A 2-2

COILS, TRANSFORMERS, ETC.

Symbol	Description	Part No.
L1	Antenna, Loop (mounted on cardboard back)	69C 142-2
L2	Coil, Oscillator	69A 52-3
T1	Transformer, 1st I.F.	72B 50
T2	Transformer, 2nd I.F.	72B 51
T3	Transformer, Output	98A 4
	Speaker (5" PM) and Output Transformer	78B 62-1
S1	Switch, On-Off	Part of R3
	Couplate (Includes R5, R6, C11, C12, C13)	63A 5-4

†Part of couplate (part 63A 5-4). Replace with exact duplicate or individual components. Note that numbers 1, 2, 3, 4, on schematic correspond to couplate lead numbers printed on face of couplate 63A 5-4.

MISCELLANEOUS

Description	Part No.
Cabinet	
Ebony (5Z21)	34D 54-1
Mahogany (5Z22)	34D 54-2
Ivory (5Z23)	34D 54-3
Carton and Fillers	44B 191
Clip, Elect., Mtg.	18A 10-6
Dial Cord (32" length required)	50A 1-3
Drum, Dial Pointer	17A 35-1
Escutcheon, Dial Scale	23C 126-1
Grille, Speaker (metal)	16A 34-1
Knob, Tuning	
Ebony (for 5Z21)	33A 64-4
Ivory (for 5Z23)	33A 64-3
Mahogany (for 5Z22)	33A 64-2
Pointer, Dial	25A 45-1
Ring, Dial Pointer Compression	19A 31-2
Shaft, Dial Pointer	28A 42-1
Shaft, Tuning	28A 26-4
Sleeve, Dial Pointer Shaft	27A 162
Snap Button (for mtg. cabinet back)	13A 1-5
Snap Button, (for mtg. speaker grille)	13A 1-2-71
Socket, Tube	87A 10-2
Speed Nut, Escutcheon Retaining	2B 10-35-68
Speed Nut (for tuning shaft spacer)	2B10-21-59
Spring, Dial Cord Tension	19B 1-5
Washer, "C" (tuning shaft)	4A 4-6-0
Washer, Felt (knob)	5A 4-4
Washer, "C" (for pointer shaft)	4A 4-6-0