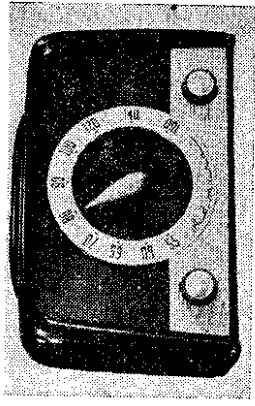


MODELS 5E21, 5E22, 5E23, Ch. 5E2

MISCELLANEOUS

Description	Part No.
Cabinet	34D 39-1
Ebony (5E21)	34D 39-2
Mahogany (5E22)	34D 39-3
Ivory (5E23)	44B 191
Carton and fillers	18A 10-6
Clip, Elect., mtg.	8A 45-71
Cotter Pin (for carrying handle)	50A 1-3
Dial Cord (32" required)	



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.

Description	Part No.
Drum, Dial Pointer	17A 27
Escutcheon, Dial Scale	23C 77
Grille, Speaker (Metal)	
Ebony (for 5E21)	16A 30-1
Gold (for 5E22, 5E23)	16A 30-2
Handle, Plastic	
Ebony (for 5E21)	37B 35-1
Ivory (for 5E23)	37B 35-3
Mahogany (for 5E22)	37B 35-2
Knob, Tuning	
Ebony (for 5E21)	33A 64-4
Ivory (for 5E23)	33A 64-3
Mahogany (for 5E22)	33A 64-2
Pointer, Dial	
Gold (for 5E21)	25A 45-1
Ivory (for 5E23)	25A 45-3
Mahogany (for 5E22)	25A 45-2
Ring, Dial Pointer Compression	19A 31-2
Shaft, Dial Pointer	28A 42-1
Shaft, Tuning	28A 26-4
Sleeve, Dial Pointer Shaft	27A 124
Sleeve, Tuning Shaft	27A 124-1
Snap Buttons (cabinet back)	13A 1-5
Snap Button, Escutcheon mtg	13A 1-2-71
Socket, Tube	87A 10-2
Spacer, Tuning Shaft	29A 27-71
Speed Nut, Escutcheon Retaining	2B 10-35-68
Speed Nut (for tuning shaft spacer)	2B 10-21-59
Spring, Dial Cord Tension	19B 1-5
Spring (for carrying handle)	19A 69
Washer, "C" (tuning shaft)	4A 4-6-0
Washer, Felt (knob)	5A 4-4
Washer, Spring (tuning shaft)	4A 4-6-0

RESISTORS

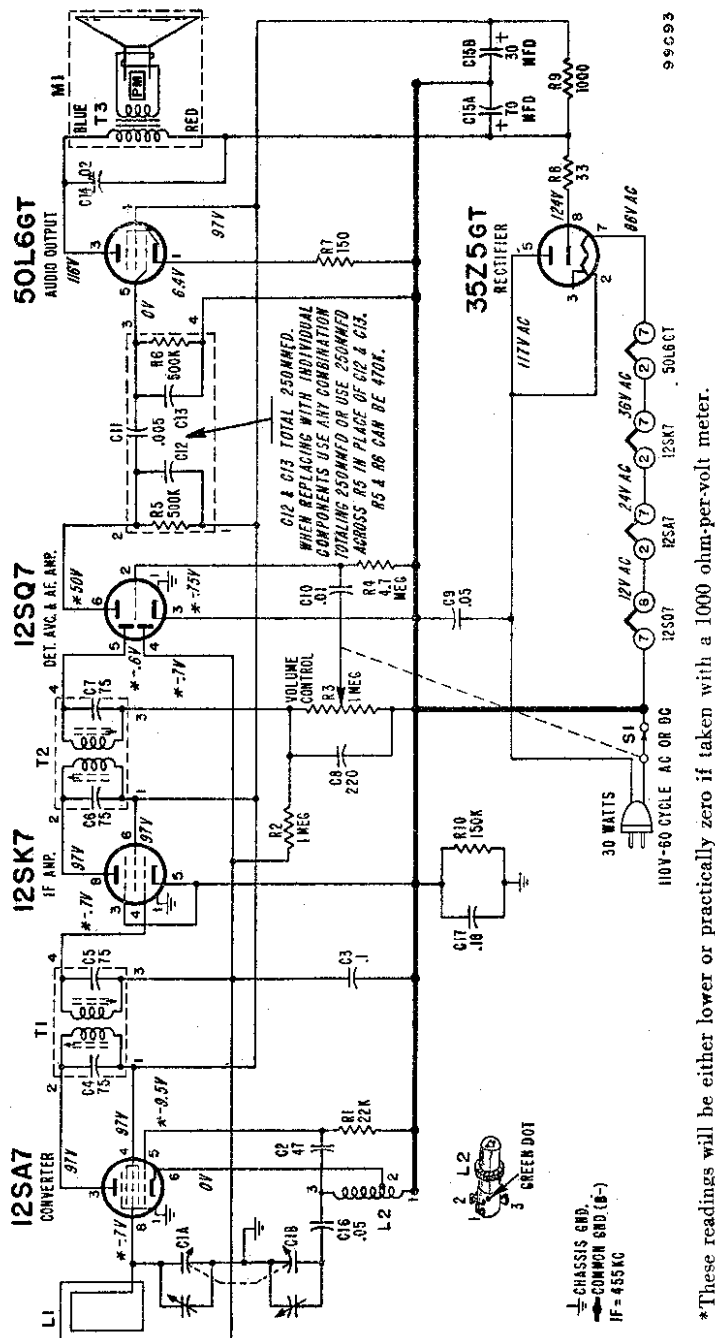
Symbol	Description	Part No.
R1	22,000 ohms, 1/2 watt	60B 8-223
R2	1 megohm, 1/2 watt	60B 8-105
R3	1 megohm, Volume Control and On-Off switch S1	75B 1-40
R4	4.7 megohms, 1/2 watt	60B 8-475
R5	500,000 ohms, 1/2 watt	
R6	500,000 ohms, 1/2 watt	
R7	150 ohms, 1/2 watt	60B 8-151
R8	33 ohms, 1 watt	60B 28-3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

COILS, TRANSFORMERS, Etc.

L1	Antenna, Loop (mounted on cardboard back)	69C 142
L2	Coil, Oscillator	69A 52-3
T1	Transformer, 1st LF	72B 50
T2	Transformer, 2nd LF	72B 51
T3	Transformer, Output	98A 4
S1	Speaker (5" PM) and Output Transformer	78B 62-1
S1	Switch, On-Off	Part of R3
S1	Complete (Includes R5, R6, C11, C12, C13)	63A 5-4

CONDENSERS

C9	.05 mfd., 400 volts, paper	64B 1-22
C10	.01 mfd., 400 volts, paper	64B 1-25
C11	.005 mfd., 400 volts (Dial drum spot welded to gang)	65C 6-79
C12	47 mfd., ceramic	65C 6-79
C13	1 mfd., 200 volts, paper	64B 1-30
C14	75 mfd., 9% (Part of T1)	
C15a	75 mfd., 3% (Part of T1)	
C15b	75 mfd., 3% (Part of T1)	
C16	.05 mfd., 400 volts, paper	64B 1-22
C17	.18 mfd., 200 volts, paper	64A 2-2
C8	220 mfd., ceramic	65C 6-80



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

*Part of couplate (part 63A5-4). 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 63A5-4.

MODELS 5E21, 5E22,
5E23, Ch. 5E2

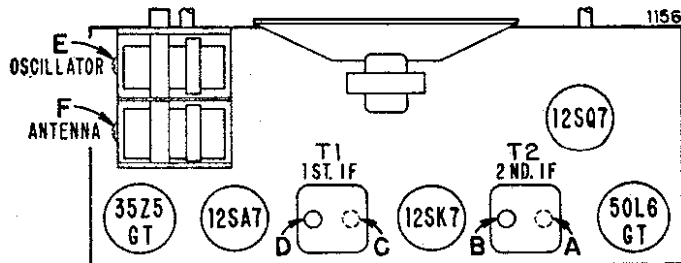
ALIGNMENT PROCEDURE

- 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.
 - 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.
- Caution: Do not connect a ground wire directly to chassis.

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 also 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 are made from underside of chassis.

POINTER SETTING AND DIAL CORD STRINGING

