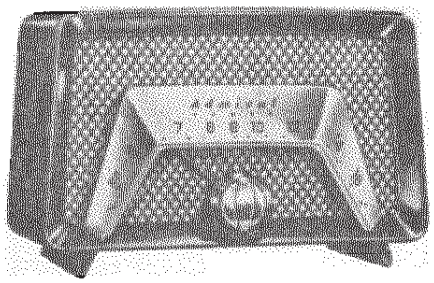
MODELS 6C22, 6C22A 6C23, 6C23A, Ch. 6C 6C2A



6C22, 6C22A Mahogany, 6C23, 6C23A Ivory
Operating Voltage: 117 volts, 50 to 60 cycles, AC or DC. Power: 30 watts.

ALIGNMENT PROCEDURE

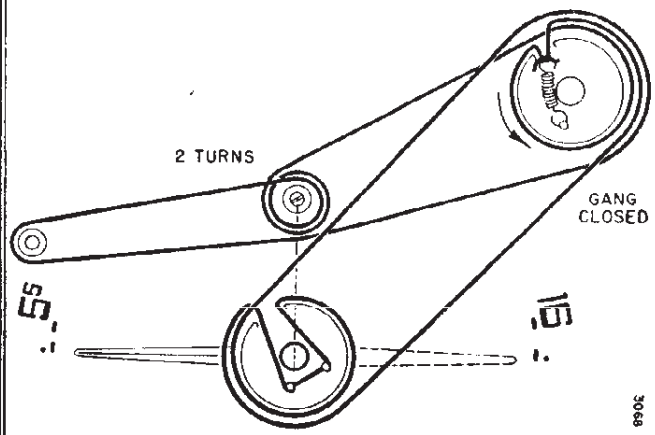
- Turn receiver volume control full on.
- Use an isolation transformer if available, otherwise connect a .1 mfd. condenser in series with low side of signal generator and connect to B minus (terminal of On-Off switch).

  Caution: Do not connect a ground wire directly to chassis.
- Connect output meter across speaker voice coil.
- 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.
- Use a non-metallic alignment tool for IF transformers.

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	Pin 8 of 12SA7 tube	455 KC	Gang fully open	2nd IF 1st IF	*A, B *C, D	Maximum Output
2	250 mmfd. condenser	Tuning condenser Antenna stator	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 antenna for adequate signal pickup.	No actual connection (signal by radiation)	1400 KC	Tune in generator signal	RF (on gang)	F	Maximum Output
4	"	No actual connection (signal by radiation)	1400 KC	Tune in generator signal	Antenna (on gang)	G	Maximum Output

*Adjustments A and C are made from underside of chassis.

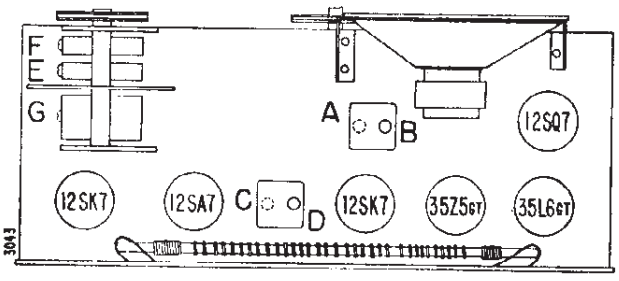
POINTER SETTING AND DIAL CORD STRINGING



POINTER SETTING

Before installing the chassis in the cabinet, fully close the gang condenser. Slide the chassis in the cabinet and mount the dial pointer in a horizontal position (pointed at the dot and da h below 55 on the radio dial scale).

TUBE AND TRIMMER LOCATION

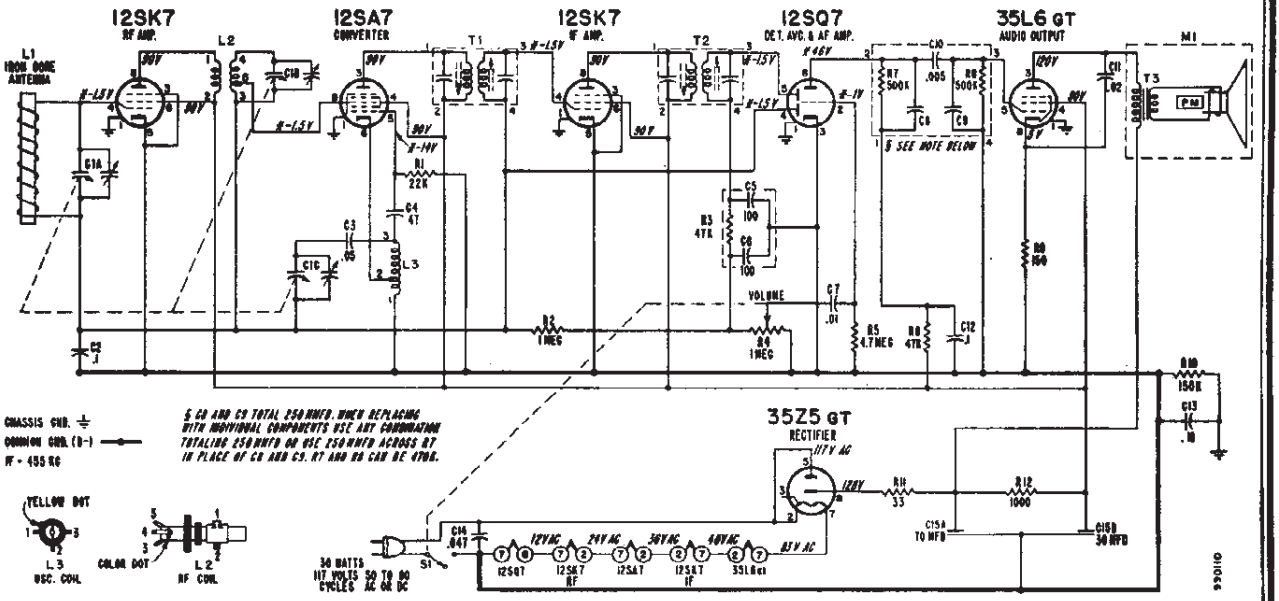


Adjustments A and C are made from underside of chassis.

DIAL STRINGING

When stringing the dial cord, the gang condenser and pointe drum must be in the position shown in the dial stringing an pointer setting diagram at right. Starting at the tension sprin on the gang condenser drum, string the dial cord in the directio shown by the arrows. Maintain sufficient tension on the dia cord tension spring to prevent slipping of the dial cord.

MODELS 6C22, 6C22A, 6C23, 6C23A, Ch. 6C2, 6C2A



*These voltage readings will be either lower or practically zero if taken with a 1000 ohms-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).
- Measured on 117 Volt 60 Cycle AC line.
- Volume control minimum; dial turned to low frequency end.
- 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	47,000 ohms, ½ watt	
R4	1 megohm, Volume control and On-Off switch S1	
	for 6C2 chassis	75B 1-48
	for 6C2A chassis	75B 1-56
R5	4.7 megohms, ½ watt	60B 8-475
R6	47,000 ohms, ½ watt	60B 8-473
†R7	470,000 ohms, ½ watt	
†R8	470,000 ohms, ½ watt	
R9	150 ohms, ½ watt	60B 8-151
R10	150,000 ohms, ½ watt	60B 8-154
R11	33 ohms, 1 watt	60B 28-3
R12	1,000 ohms, 1 watt	60B 28-2

CONDENSERS

Symbol	Description	Part No.
C1A C1B C1C	323 mmfd, max Ant. 193.8 mmfd, max RF 90 mmfd, max Osc.	gang..68B 50-1
	(Dial drum spot welded to gang)	
C2	.1 mfd, 200 volts, paper	64B 1-30
C3	.05 mfd, 400 volts, paper	64B 1-22
C4	47 mmfd, mica	65C6-79
††C5	100 mmfd, ceramic	
††C6	100 mmfd, ceramic	
C7	.01 mfd, 400 volts, paper	64B 1-25
†C8 †C9	See Schematic	
†C10	.005 mfd, ceramic	
C11	.02 mfd, 600 volts, paper	64B 1-24
C12	.1 mfd, 200 volts, paper	64B 1-30
C13	.18 mfd, 200 volts, paper	64A 2-2
C14	.047 mfd, 400 volts, paper	65A 13-5
C15A C15B	70 mfd, 150 volts 30 mfd, 150 volts	elect.....67A 17

COILS, TRANSFORMERS, Etc.

Symbol	Description	Part No.
L1	Antenna, Iron Core (mounted on cardboard back)	69C 148-1
L2	Coil, RF	69A 115-1
L3	Coil, Oscillator	69A 52-2
T1	Transformer, 1st I.F.	72B 28-7
T2	Transformer, 2nd I.F.	72B 28-7
T3	Transformer, Output	98A 4
M1	Speaker (5" PM) and Output Transformer	78B 70-1
S1	Switch, On-Off	Part of R4
	Couplate (includes R7, R8, C8, C9, C10)	63A 5-4
	Diode Filter (includes R3, C5, C6)	63A 3-1

MISCELLANEOUS

Description	Part No.
Carton and Fillers	44B 255
Clamp, Line Cord	11A 9-2
Clip, IF Transformer Mounting	72B 28-10
Dial Cord (62" length needed)	50A 1-3
Drum, Pointer	A3731
Grommet, Rubber (for mtg. gang)	12A 1-2
Ring, Pointer Compression	19A 31-8
Sleeve, Tuning	
for 6C2 chassis	27A 164
for 6C2A chassis	27A 172-1
Socket, Tube	87A 10-2
Spacer, Metal "T" (for mtg. gang)	29A 2-1-71
Spring, Dial Cord Tension	19C 1-5
Spring, Shaft Retaining (for 6C2A chassis)	19A 77-1

CABINET PARTS

Description	Part No.
Back Assembly (includes built-in antenna L1)	69C 148-1
Cabinet, Plastic	
Mahogany	34D 50-2
Ivory	34D 50-3
Escutcheon Overlay (dial scale)	23C 119-1
Grille Cloth and Baffle Board	AA226
Knob, On-Off Volume	33A 80-2
Knob, Tuning	
Mahogany	33A 79-2
Ivory	33A 79-3
Pointer, Dial	
for 6C22, 6C23	
Mahogany	25A 53-2
Ivory	25A 53-3
for 622A, 623A	
Mahogany	A3919
Ivory	A3920
Speed Nut (for mtg. baffle to cabinet)	2B 10-12-69
Stud, Trimount (for mtg. cabinet back)	13A 1-5-68
Washer, Felt (for tuning knobs)	5A 4-4

†Part of couplate (part number 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.

††Part of diode filter (part number 63A 3-1). Replace with exact duplicate or individual components.