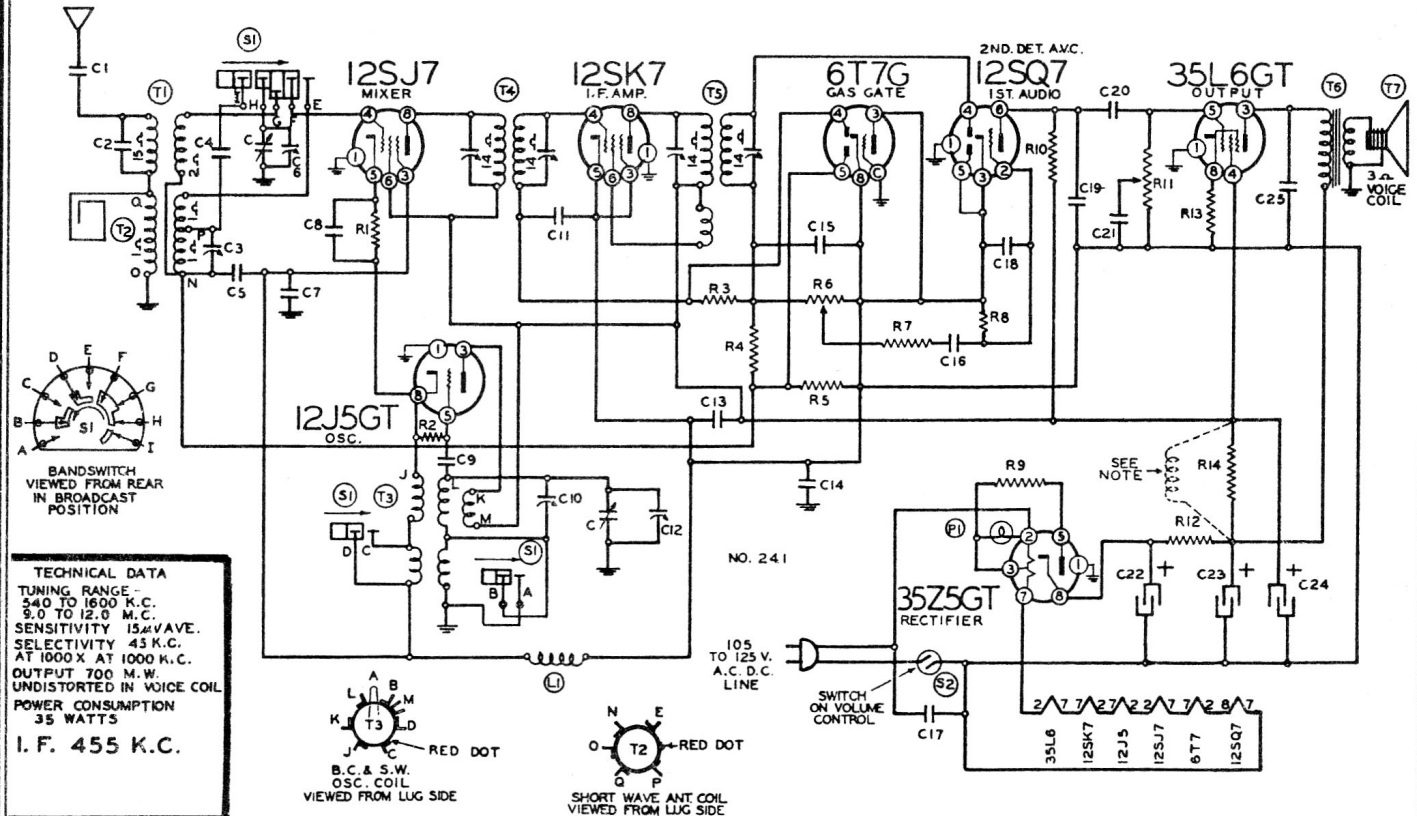




On sets which have an electrodynamic speaker, R12 is eliminated and the hot side of C22 is connected in parallel with C23. R14 is replaced by the speaker field. B+ of output transformer is connected to No. 4 pin of 35L6 tube.

RESISTORS

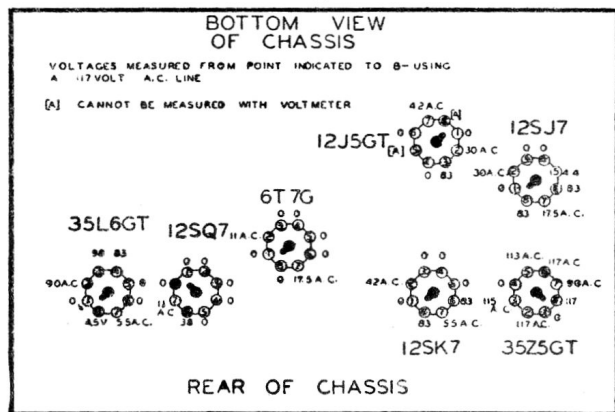
Part No.	Schematic Diagram Reference	Description	No. Used In Set	Selling Price Each
130218	R1	5M Ohm—1/4 Watt Resistor—10%.....	1	.20
130166	R13	150 Ohm—1/4 Watt Resistor—10%.....	1	.20
13084	R12	200 Ohm—1/4 Watt Resistor—20%.....	1	.20
130128	R9	20 Ohm—1/4 Watt Resistor—20%.....	1	.20
13012	R2, R7	50M Ohm—1/4 Watt Resistor—20%.....	2	.20
130287	R14	1200 Ohm—1 Watt Resistor—10%.....	1	.20
130350	R3, R5	3.2 Megohm—1/4 Watt Resistor—20%.....	2	.20
13038	R4	2 Megohm—1/4 Watt Resistor—20%.....	1	.20
130257	R8	5 Megohm—1/4 Watt Resistor—25%.....	1	.20
1309	R10	200M Ohm—1/4 Watt Resistor—20%.....	1	.20
108206	T4	Input I.F. Coil Complete in Can.....	1	1.25
108205	T5	Output I.F. Coil Complete in Can.....	1	1.25
110184	T3	B.C.-S.W.—Oscillator Coil.....	1	.80
11249	T2	S.W. Antenna Coil Complete.....	1	.50
11251	T1	Loop Antenna Assembly.....	1	1.50
12316	L1	Choke Coil.....	1	.30
114262	T7	Six Inch Electro Dynamic Speaker (Less Output Transformer).....	1	4.00
105134	T6	Output Transformer for Speaker.....	1	.75

COILS

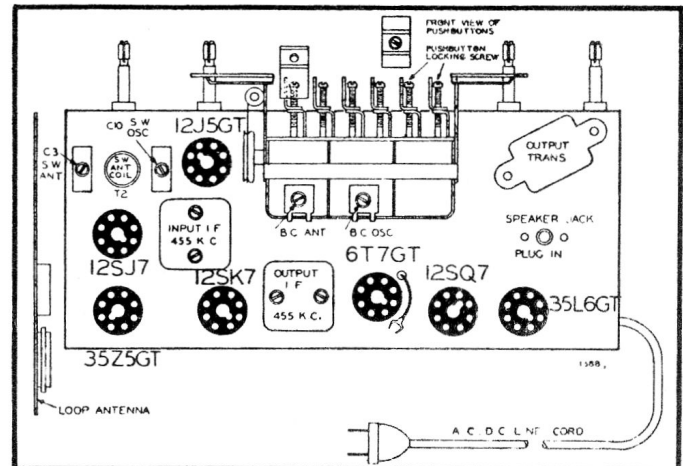
SPEAKER

CONDENSERS

100128	C5	.05 x 120 Volt Tubular Condenser.....	1	.25
100119	C7, C14	.1 x 400 Volt Tubular Condenser.....	2	.25
100127	C8	.01 x 120 Volt Tubular Condenser.....	1	.25
10020	C13	.1 x 200 Volt Tubular Condenser.....	1	.25
1009	C11	.05 x 200 Volt Tubular Condenser.....	1	.25
100138	C17, C20	.03 x 400 Volt Tubular Condenser.....	2	.25
10026	C25	.02 x 400 Volt Tubular Condenser.....	1	.25
10019	C16, C21	.006 x 600 Volt Tubular Condenser.....	2	.25
10037	C1	.003 x 600 Volt Tubular Condenser.....	1	.25
119129		Electrolytic Filter Cond. Added for 25 Cycle Only. 40 Mfd. x 150 Volts Across C22 and 20 Mfd. x 150 Volts Across C23.....	1	1.25
119128	C22, C23, C24	Electrolytic Filter Condenser. 40 Mfd.—20 Mfd.—20 Mfd x 150 Volts, 50-60 Cycles 1.....	1	1.25
124139	C3, C10	S.W. Antenna and Oscillator Trimmer Condenser.....	2	.25
129181	C4	.000445 Mica Type Condenser—3%.....	1	.30
12921	C15	.0002 Mica Type Condenser—20%.....	1	.25
1295	C9, C18	.0001 Mica Type Condenser—20%.....	2	.25
12960	C2	.00015 Mica Type Condenser—20%.....	1	.25
12912	C19	.00025 Mica Type Condenser—20%.....	1	.25



Voltage Chart



Chassis View, showing Tube Location and the Outside Antenna Clip.

ALIGNMENT PROCEDURE MODEL 7D22

- Volume control—Maximum all adjustments.
- Connect B—of radio chassis to ground post of signal generator through .1 Mfd. condenser.

BAND	SIGNAL GENERATOR		Connection to Radio	Position of Band Switch	Variable Condenser Setting	Trimmers Adjusted to Maximum
	Frequency Setting	Dummy Antenna				
I. F.	455 Kc.	.1 MFD.	Grid of 12SK7 I. F.	Broadcast	Rotor full open (Plates out of mesh)	Two trimmers on top of Output I. F.
	455 Kc.	.1 MFD.	Grid of 12SJ7 Mixer	Broadcast	Rotor full open (Plates out of mesh)	Two trimmers on top of Input I. F.
SHORT WAVE BAND	12 Mc.	400 Ohms	External Antenna and B—	Short Wave	Set Dial at 12 Mc.	S.W. Osc. trimmer C10 S.W. Ant. trimmer C3
BROAD-CAST BAND	1600 Kc.	.1 mmf.	Grid of 12SJ7	Broadcast	Rotor full open (Plates out of mesh)	B.C. Osc. trimmer C12 on Gang
	1400 Kc.	200 mmf.	External Antenna and B—	Broadcast	Set Dial at 1400 Kc.	B.C. Ant. trimmer C6

NOTE: The Oscillator Frequency is lower than the signal frequency and should be aligned accordingly.

The loop antenna should be connected to the radio when making all adjustments.