STROMBERG-CARLSON SERVICE NOTES

AC RADIO RECEIVER NO. 1210

SERIES NO. 10—11

IDENTIFICATION TABLE

MODEL	CHASSIS	CABINET	SPEAKER	PHONOGRAPH EQUIPMENT
M2-Y	112022	108047	48997	41612
M2-M	112022	108048	48997	41612
M2-W	112022	108049	48997	41612
PGM	112022	108050	48997	148010
PGW	112022	108051	48997	148010
PLM	112022	108053	48997	148011

SPECIFICATIONS

Voltage Rating.....50-60 Cy. 105-125 V.
Type of Circuit.....Superheterodyne
Tuning Range.....Broadcast—540 KC.-1700 KC.
FM. 1-88 MC.-108 MC. FM. 2-42 MC.-50 MC.
Number & Type of Tubes—11

1—6BA6.....R.F. Amp.	1—6H6.....Ratio Det.
1—6BE6.....Converter	1—6AT6 1st Audio—A.M. Det.
1—6BA6.....1st I.F. Amp.	1—6SC7 . 2nd Audio-Inverter
1—6BA6.....2nd I.F. Amp.	2—6V6.....Audio Output
1—6AU6....(3rd I.F.) Driver	1—5Y3.....Rectifier

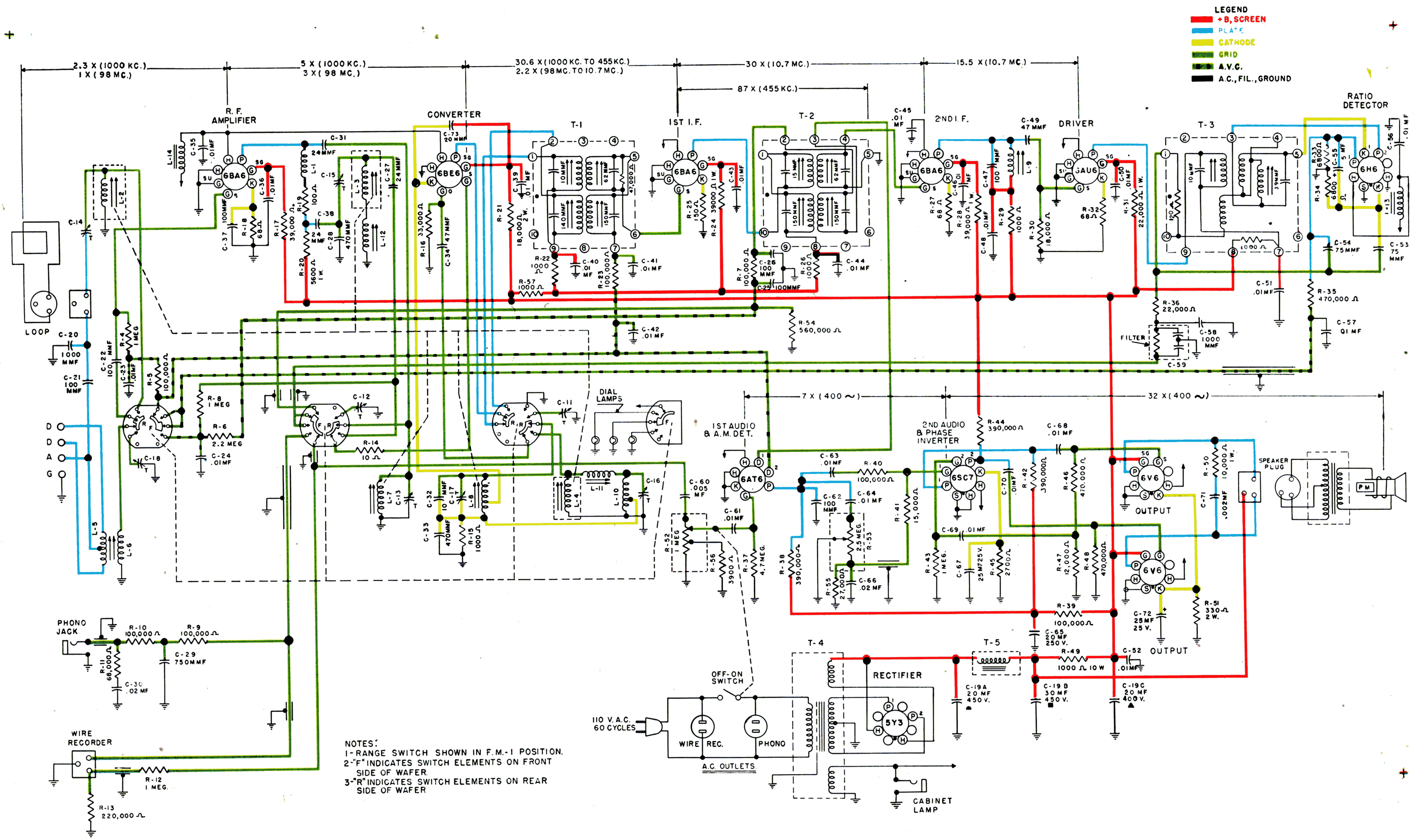
Input Power Rating.....Radio 86 Watts, Phono 30 Watts
Intermediate Frequency ..... A.M. 455 KC, F.M. 10.7 MC.
Speaker Voice Coil Impedance at 400 Cycles.....6-8 Ohms
Power Output.....10 Watts

ALIGNMENT PROCEDURE 1210

Band and Pointer Setting	*Input Generator Setting*	*Input and Dummy*	*VTM and Scope Input*	*Trimmer Adj. and Notes*
		A.M. I.F. ALIGNMENT		
1 AM Low end of dial	455 kc. 400 cy. mod.	Junction C-17 and L-8. See location chart. 100 mmf. dummy	Junction R-12 and C-60 (See location chart)	Adj. Pri. and Sec. 1st and 2nd I.F. (Top of Chassis) for highest voltage on -3V DC Scale
2 "	455 kc. swept 15 kc.	"	"	Adj. same cores as above for best over-lapping curve on scope.
		F.M. I.F. ALIGNMENT		
FM (1) Low end of dial 1	10.7 mc. 400 cyc. mod.	Junction C-17 and L-8. See location chart. 100 mmf. dummy	AVC buss (Green and White Wire)	Detune Sec. Ratio Det. (Top of Chassis). Adj. Pri. and Sec. 1st and 2nd I.F. Pri. Ratio Det. (Bottom of Chassis) and 3rd I.F. (L-9 Top of Chassis) on -3 VDC Scale for max. AVC voltage.
" 2*	10.7 mc. swept 150 kc.	"	Pin No. 6 Driver tube (screen) thru .01 capac.	Adj. same cores (as in step 1) for best overlapping curve on scope.
3* "	"	"	Junction R-12 and C-60	Adj. Sec. of Ratio Det. for zero voltage. (Top of Chassis).
*Repeat 2 and 3 if necessary				
		A.M. R.F. ALIGNMENT		
1 Broadcast Extreme Low Freq.	535 Kc. 400 cyc. mod.	Ant. term. 200 mmf. dummy	AVC Buss Green and White Wire	Adj. C-16 for max. AVC voltage
2 Extreme Hi Freq.	1700 Kc. 400 cyc. mod.	"	"	Adj. L-11 for max. AVC voltage
3 Repeat 1 and 2				
4 600 Kc	600 Kc. 400 cyc. mod.	"	"	Adj. C-15 for max. AVC voltage
5 1500 Kc	1500 Kc. 400 cyc. mod.	"	"	Adj. L-12 for max. AVC voltage
6 Repeat 4 and 5				
7 600 Kc	600 Kc. 400 cyc. mod.	"	"	Adj. C-14 for max. AVC voltage
		F.M. R.F. ALIGNMENT		
1 FM 1 Channel 260	100 Mc.	Ant. term. (DD) 150 ohm series with each side of Gen.	AVC Buss Green and White Wire	CAUTION: Align FM-1 1st. 1. C-17 2. C-13 3. L-5 and 6 } Adjust for max. AVC Voltage. (All Trimmers)
2 FM 2 Channel 60	46 Mc.	"	"	1. C-11 2. C-12 3. C-18 } Adjust for max. AVC Voltage (All Trimmers)

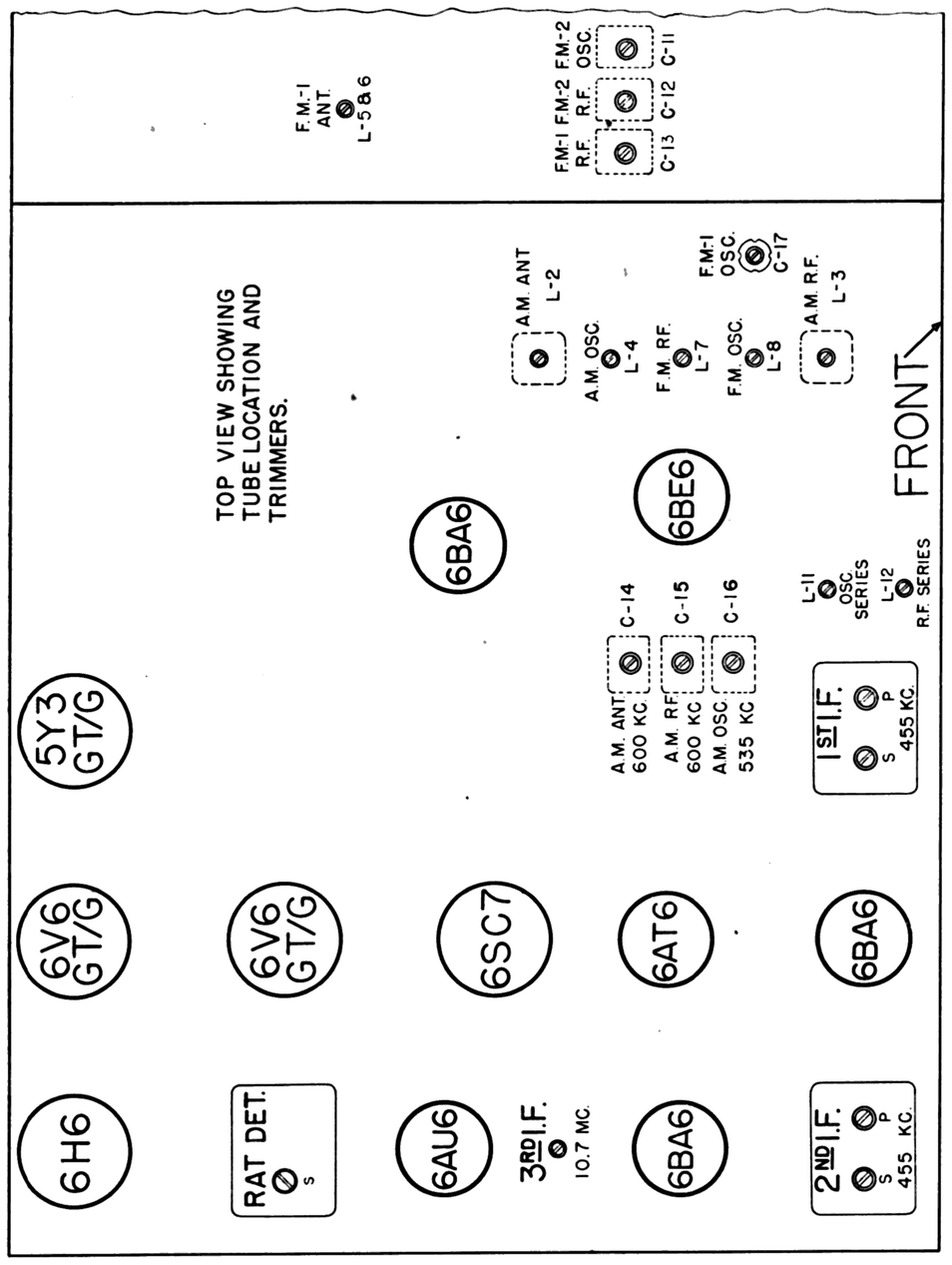
CAUTION: Use low signal input especially for steps 2 and 3 of F.M. I.F. Alignment to avoid overloading.
Use dummy loop No. 114048 for A.M. R.F. Alignment
Use insulated aligning tool No. 80777 to prevent damage to iron cores.
Refer to Number 4, Vol. 1 Current Flash for suggested instrument use.
R.F. alignment procedure of iron core tuners is different from condenser tuners in that trimmers are adjusted at low frequency end and coils are adjusted at high frequency end of dial.
Recommended procedure is to align both I.F. channels if either channel requires it.

THE EXCLUSIVE STROMBERG-CARLSON COLOR CODE SCHEMATIC

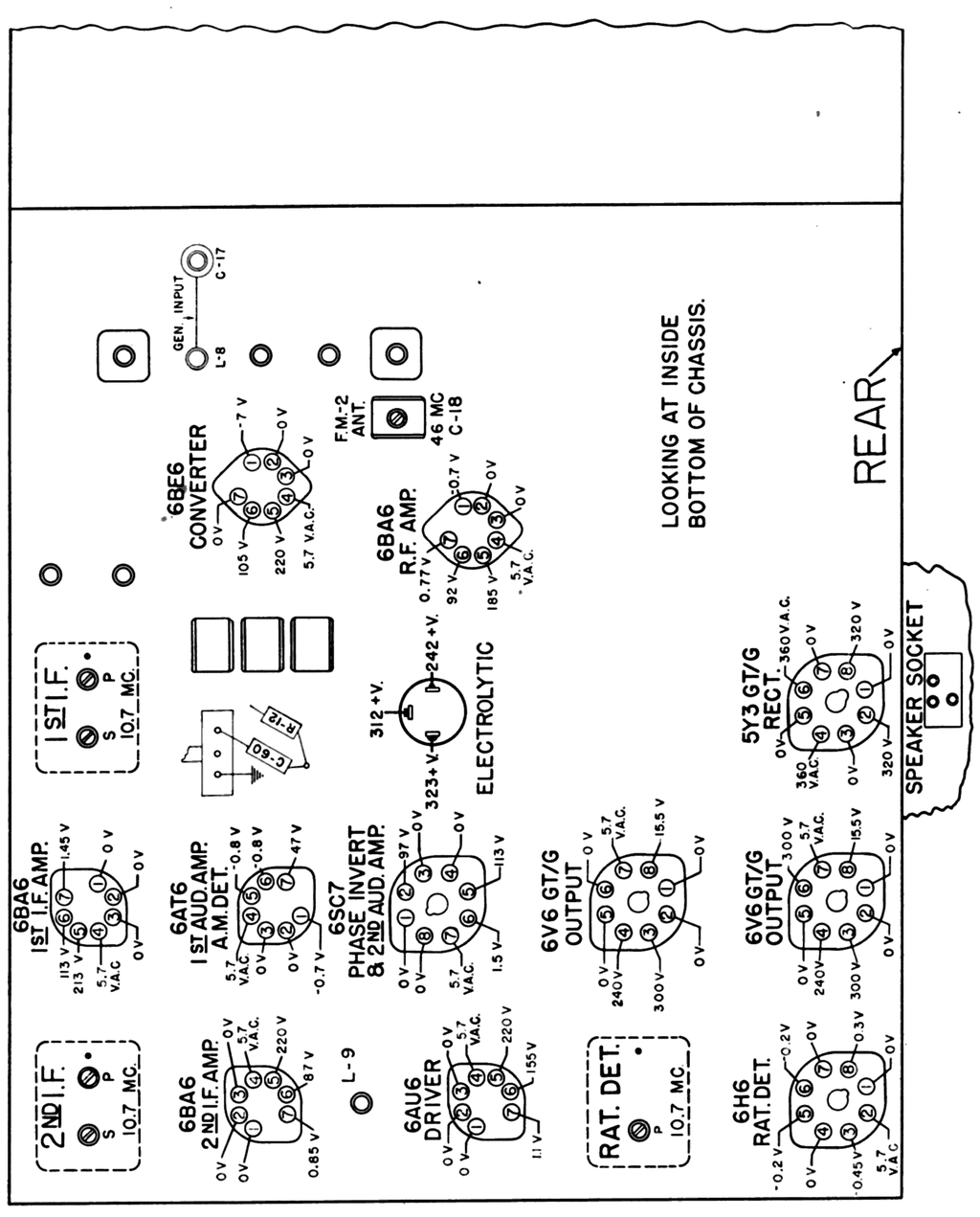


NOTES:
1-RANGE SWITCH SHOWN IN F.M.-1 POSITION.
2-"F" INDICATES SWITCH ELEMENTS ON FRONT SIDE OF WAFER.
3-"R" INDICATES SWITCH ELEMENTS ON REAR SIDE OF WAFER

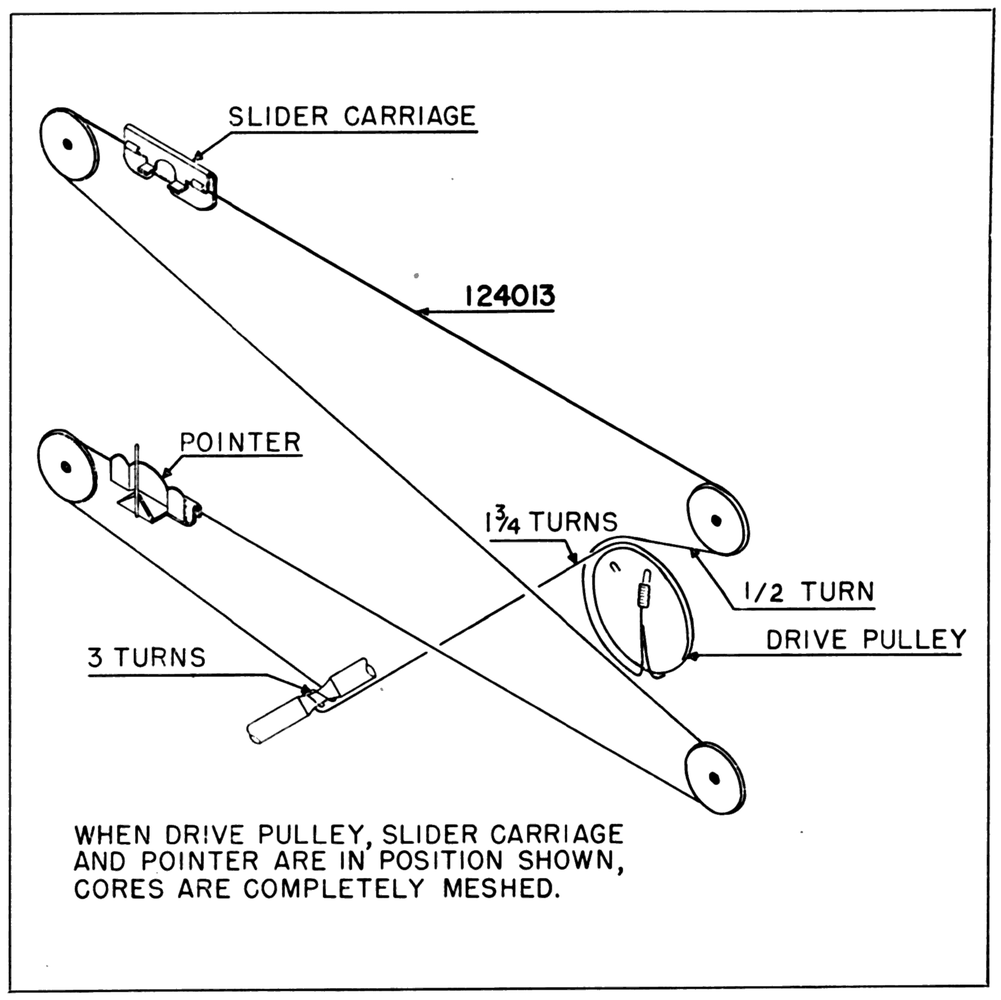
Voltage and Tube Location Chart



Measurements are made at 117V line, using electronic Voltmeter. Except where otherwise indicated, voltages are D.C. and are positive with respect to the reference point which is the chassis.



Dial Stringing Chart



Cabinet Parts

	PGM-W	PLM	M-2-Y,M-W	Description
37148	X			Door Pull
38442	X	X		Bullet Catch
39350	X			Grille Cloth
80681	X	X		Stophinge Assembly
108016			X	Phono Drawer and Track
108052	X			Phono Drawer and Track
108054		X		Phono Drawer and Track
125015			X	Dial Escutcheon
125016	X	X		Dial Escutcheon
125018			X	Escutcheon Speaker
130030		X		Grille Cloth
130031		X		Metal Grille
132009			X	Door Pull, concealed
132013			X	Bottom Hinge
132016			X	Bullet Catch
132021	X		X	Phono Track, left
132022	X		X	Phono Track, right
132053			X	Rt. Upper Hinge, Semi-concealed
132054			X	Lt. Lower Hinge, Semi-concealed
132059		X		Phono Track, Right
132060		X		Phono Track, Left
132061		X		Door Pull
132062		X		Rosette
132063		X		Stophinge, upper
132064		X		Stophinge, lower
132065			X	Door Pull (4)
132071		X		Door Knob
152009		X	X	Socket and Plug
801401	X	X	X	Lamp Cap

REPLACEMENT PARTS

Resistors

Part No.		Description
28163	R-45	2,700 Ohm, ½ W
28165	R-56	3,900 Ohm, ½ W
28171	R-47	12,000 Ohm, ½ W
28173	R-30	18,000 Ohm, ½ W
28174	R-55	27,000 Ohm, ½ W
28186	R-38-42-44	390,000 Ohm, ½ W
28187	R-46	470,000 Ohm, ½ W
28188	R-54	560,000 Ohm, ½ W
149020	R-51	330 Ohm, 2 W
149057	R-21	18,000 Ohm, 2 W
149089	R-14	10 Ohm, ½ W
149094	R-18-27-32	68 Ohm, ½ W
149095	R-19	100 Ohm, ½ W
149096	R-25	150 Ohm, ½ W
149101	R-15-22-26-29-57	1,000 Ohm, ½ W
149108	R-41	15,000 Ohm, ½ W
149109	R-36	22,000 Ohm, ½ W
149110	R-16	33,000 Ohm, ½ W
149112	R-68	68,000 Ohm, ½ W
149113	R-5-7-9-10-23-39	100,000 Ohm, ½ W
149115	R-13	220,000 Ohm, ½ W
149117	R-35-48	470,000 Ohm, ½ W
149119	R-4-8-12-43	1.0 Meg. ½ W
149121	R-6	2.2 Meg. ½ W
149123	R-37	4.7 Meg. ½ W
149126	R-49	10,000 Ohm, 10 W B Stick
149144	R-50	10,000 Ohm, 1 W
149146	R-31	22,000 Ohm, 1 W
149184	R-20	5,600 Ohm, 1 W
149189	R-17-24-28	39,000 Ohm, 1 W
149216		Voltage Divider
149239	R-33-34	6,800 Ohm, ½ W ±5%

Controls—Switches—Knobs

134038		Knobs
145028	R-52	Tone Control
145029	R-53	Volume Control and Switch
158020		Range Switch

Capacitors

25484	C-30-66	.02 mf. 600 V.
27646	C-71	.002 mf. 600 V.
110019	C-14-15-16	Aligning
110020	C-11-12-13	Aligning
110022	C-18	Aligning
110023	C-17	Trimmer
110401	C-21-22-25-26-37-62	100 mmf.
110402	C-34-49	47 mmf.
110403	C-27-31-38	24 mmf.
110419	C-60	.005 500 V.
110420	C-23-24-35-36-39-40-41-42-43-44-45-46-48-50-51-52-56-57-61-63-64-68-69-70	.01 mf. 500 V.
110425	C-20-58	1,000 mmf.
110455	C-28-33	470 mmf.
110456	C-29	750 mmf.
110476	C-47	100 mmf.
110478	C-59	Diode Filter
110483	C-53-54	75 mmf.
110495	C-32	10 mmf.
110496	C-73	20 mmf.
111025	C-19	Electrolytic
111026	C-67-72	Electrolytic
111030	C-55	5 mfd.
111031	C-65	20 mf. 250 V.

Transformers—Coils

Part No.		Description
114029	L-7	R.F., Coil, F.M.
114035	L-5-6	Ant., Coil, F.M.
114037	L-8	Osc. Coil, F.M.
114038	L-10	Osc. Coil, A.M.
114039	L-11	Osc. Trim. Coil, A.M.
114040	L-12	R.F. Trim. Coil, A.M.
114041	L-2-3-4	Ant., R.F., & Osc. Coils, A.M.
114328	T-2	I.F. 2nd
114329	L-9	I.F. 3rd
114332	T-1	I.F. 1st
114614	L-1	R.F. Choke
114618	L-13-14	R.F. Filament Choke
161006	T-5	Filter Choke
161226		Output Trans.
161228	T-3	Ratio Det. Trans.
161411	T-4	Power Trans.

Miscellaneous

29956	Pilot Lamp
32046	Socket, Loop-Wire Rc.
32076	Pulley, Dial Cord
32164	Plug, Ant. Loop
33218	A.C. Cord
34421	Socket, Phono., Cab. Lamp
40546	Clip, Pulley
48997	Speaker
48984	Speaker Cone
81054	Speaker Plug.
105112	Chassis Mtg. Bracket
118001	Iron Core (I.F.)
122016	Dial Scale, F.M. 1
122017	Dial Scale, F.M. 2
122018	Dial Scale, A.M.
124013	Drive Cord Assem.
127012	Dial Frame Assem.
131004	Grommet, A.C. Cord
142029	Dial Plate Assem.
144011	Pointer, Broadcast
144012	Pointer, F.M.
150031	Shaft, Vol. Control
150032	Shaft, Tuning
151028	Tube Shield, Base (Min.)
151036	Tube Shield, (Min.)
152026	Socket, A.C. (2)
152031	Pilot Socket, F.M. 1
152032	Pilot Socket, A.M. 2
152033	Socket, Speaker
152036	Pilot Socket
156033	Coupling Spring, Vol.
159023	Ant. Binding Post
164005	Tuning Unit (Mechanical Assem.)
167011	Shield Assem.

NOTE: Series 11 incorporates changes listed

	Part No.
Remove—R55—27,000 ohms	Not Replaced
Change—R-14 10 ohms—To 100,000 ohms	149113
Add—C74—100 mmf. across R-14	110401
Change—C 31 24 mmf.—To 100 mmf.	110401
Change—C 38 24 mmf.—To 47 mmf.	110402

NOTE—When ordering replacement parts always specify series number as well as model and part number. Series number is stamped on back of chassis.

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