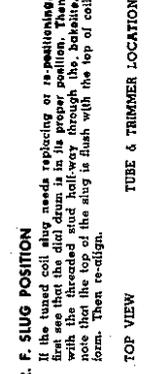
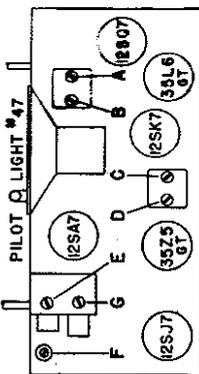


MODEL 5B1
MODEL 5B1A
MODEL 6A1, Issue B

ADMIRAL CORPORATION



TOP VIEW



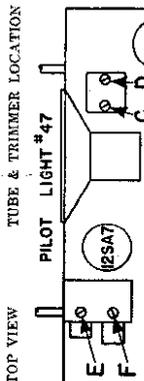
BACK OF CHASSIS

MODEL 5B1A ALIGNMENT PROCEDURE

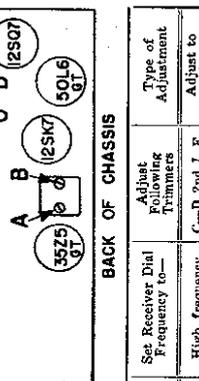
1. Be sure Radio Receiver and Signal Generator are thoroughly warmed up before starting alignment procedure.
2. Check setting of Pointer, Extremes and note correct 600 K.C. and 1400 K.C. positions on Dial Background. (See Dial Diagram)
3. Connect Output Meter across Voice Coil.
4. Turn Receiver Volume Control—full on.
5. Use lowest Output setting of Signal Generator capable of producing adequate Output Meter indication and note correct pickup lead connection.
6. Repeat adjustments to insure final overall maximum results.

ALIGNMENT PROCEDURE

1. Be sure Radio Receiver and Signal Generator are thoroughly warmed up before starting alignment procedure.
2. Check setting of Pointer, Extremes and note correct 600 K.C. and 1400 K.C. positions on Dial Background. (See Dial Diagram on reverse side.)
3. Connect Output Meter across Voice Coil.
4. Turn Receiver Volume Control full on.
5. Use lowest Output setting of Signal Generator capable of producing adequate Output Meter indication and note correct pickup lead connection.
6. Repeat adjustments to insure final overall maximum results.



TOP VIEW



BACK OF CHASSIS

MODEL 5B1 ALIGNMENT PROCEDURE

1. Be sure Radio Receiver and Signal Generator are thoroughly warmed up before starting alignment procedure.
2. Check setting of Pointer, Extremes and note correct 600 K.C. and 1400 K.C. positions on Dial Background. (See Dial Diagram)
3. Connect Output Meter across Voice Coil.
4. Turn Receiver Volume Control—full on.
5. Use lowest Output setting of Signal Generator capable of producing adequate Output Meter indication and then proceed in the following sequence.
6. Repeat adjustments to insure final overall maximum results.

ALIGNMENT PROCEDURE

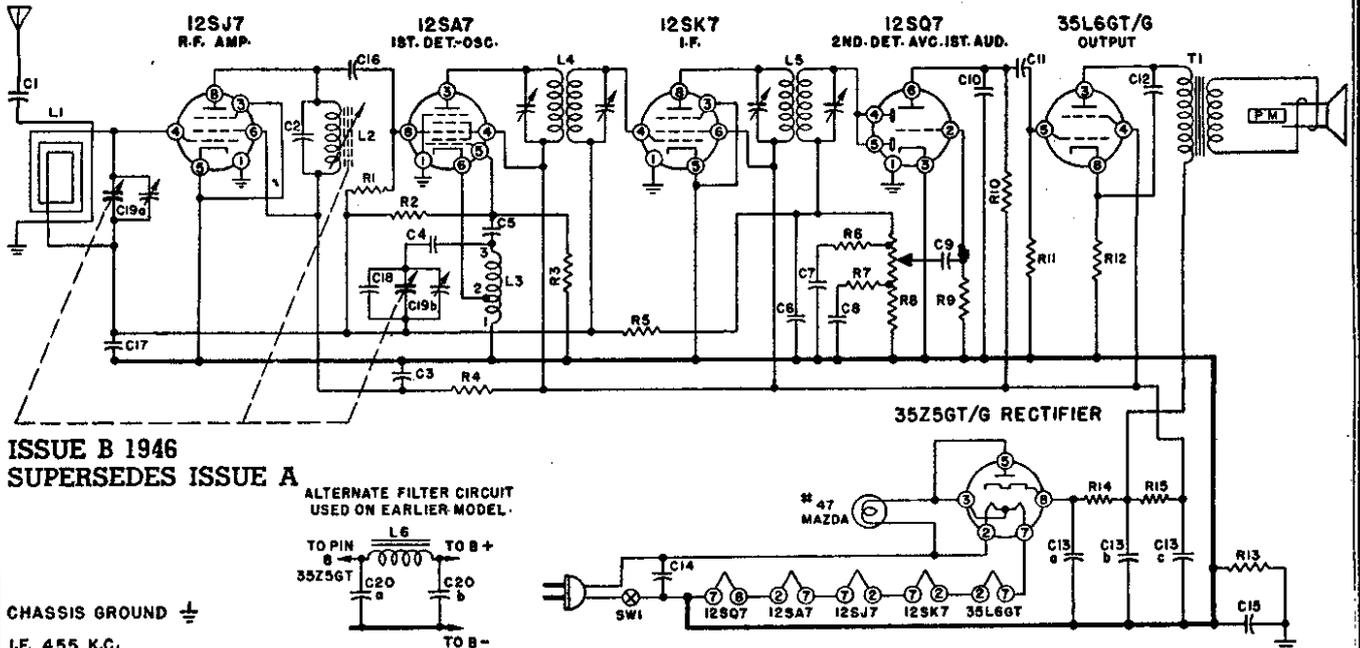
1. Be sure Radio Receiver and Signal Generator are thoroughly warmed up before starting alignment procedure.
2. Check setting of Pointer, Extremes and note correct 600 K.C. and 1400 K.C. positions on Dial Background. (See Dial Diagram)
3. Connect Output Meter across Voice Coil.
4. Turn Receiver Volume Control—full on.
5. Use lowest Output setting of Signal Generator capable of producing adequate Output Meter indication and then proceed in the following sequence.
6. Repeat adjustments to insure final overall maximum results.

Connect Signal Generator to—	Dummy Antenna Between Radio and Generator	Set Generator Frequency To—	Set Receiver Dial Frequency To—	Adjust Following Trimmers	Type of Adjustment
12SA7 Control Grid	250 mmfd. Mica Condenser	455 KC.	High frequency end of Dial	A and B—2nd I. F. C and D—1st I. F.	Adjust to maximum Output
External Antenna Wire on Loop	250 mmfd. Mica Condenser	1400 KC.	High frequency end of Dial	E—Osc.	Adjust to maximum Output
External Antenna Wire on Loop	250 mmfd. Mica Condenser	1400 KC.	Tune in Generator signal	F—Ant. (See Note)	Adjust to maximum Output
Loop radiator (or place pickup lead close to set to obtain adequate signal).	No actual connection between set and generator.	1400 KC.	Tune in Generator signal	G—Ant.	Adjust to maximum Output

NOTE: Antenna trimmer "F" must be aligned after chassis and loop are mounted in the cabinet. This adjustment can be made by lifting up the top cover and removing the plug button which is directly above trimmer "F".

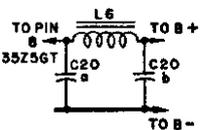
Part No. Symbol	Description	Part No. Symbol	Description
448-12 C1	100 mfd. 400 V.	608E-3	50 ohm ±10% 1/2 W.
448-13 C1	50 mfd. 400 V.	608E-4	100 ohm ±10% 1/2 W.
448-14 C2	20 mfd. 150 V.	608E-5	150 ohm ±10% 1/2 W.
448-15 C3	10 mfd. 150 V.	608E-6	200 ohm ±10% 1/2 W.
448-16 C4	5 mfd. 150 V.	608E-7	300 ohm ±10% 1/2 W.
448-17 C5	2.5 mfd. 150 V.	608E-8	400 ohm ±10% 1/2 W.
448-18 C6	1.5 mfd. 200 V.	608E-9	500 ohm ±10% 1/2 W.
448-19 C7	1 mfd. 200 V.	608E-10	750 ohm ±10% 1/2 W.
448-20 C8	.5 mfd. 200 V.	608E-11	1000 ohm ±10% 1/2 W.
448-21 C9	.25 mfd. 200 V.	608E-12	1500 ohm ±10% 1/2 W.
448-22 C10	.1 mfd. 200 V.	608E-13	2000 ohm ±10% 1/2 W.
448-23 C11	.05 mfd. 200 V.	608E-14	2500 ohm ±10% 1/2 W.
448-24 C12	.025 mfd. 200 V.	608E-15	3000 ohm ±10% 1/2 W.
448-25 C13	.01 mfd. 200 V.	608E-16	3500 ohm ±10% 1/2 W.
448-26 C14	.005 mfd. 200 V.	608E-17	4000 ohm ±10% 1/2 W.
448-27 C15	.0025 mfd. 200 V.	608E-18	4500 ohm ±10% 1/2 W.
448-28 C16	.001 mfd. 200 V.	608E-19	5000 ohm ±10% 1/2 W.
448-29 C17	.0005 mfd. 200 V.	608E-20	5500 ohm ±10% 1/2 W.
448-30 C18	.00025 mfd. 200 V.	608E-21	6000 ohm ±10% 1/2 W.
448-31 C19	.0001 mfd. 200 V.	608E-22	6500 ohm ±10% 1/2 W.
448-32 C20	.00005 mfd. 200 V.	608E-23	7000 ohm ±10% 1/2 W.
448-33 C21	.000025 mfd. 200 V.	608E-24	7500 ohm ±10% 1/2 W.
448-34 C22	.00001 mfd. 200 V.	608E-25	8000 ohm ±10% 1/2 W.
448-35 C23	.000005 mfd. 200 V.	608E-26	8500 ohm ±10% 1/2 W.
448-36 C24	.0000025 mfd. 200 V.	608E-27	9000 ohm ±10% 1/2 W.
448-37 C25	.000001 mfd. 200 V.	608E-28	9500 ohm ±10% 1/2 W.
448-38 C26	.0000005 mfd. 200 V.	608E-29	10000 ohm ±10% 1/2 W.
448-39 C27	.00000025 mfd. 200 V.	608E-30	10500 ohm ±10% 1/2 W.
448-40 C28	.0000001 mfd. 200 V.	608E-31	11000 ohm ±10% 1/2 W.
448-41 C29	.00000005 mfd. 200 V.	608E-32	11500 ohm ±10% 1/2 W.
448-42 C30	.000000025 mfd. 200 V.	608E-33	12000 ohm ±10% 1/2 W.
448-43 C31	.00000001 mfd. 200 V.	608E-34	12500 ohm ±10% 1/2 W.
448-44 C32	.000000005 mfd. 200 V.	608E-35	13000 ohm ±10% 1/2 W.
448-45 C33	.0000000025 mfd. 200 V.	608E-36	13500 ohm ±10% 1/2 W.
448-46 C34	.000000001 mfd. 200 V.	608E-37	14000 ohm ±10% 1/2 W.
448-47 C35	.0000000005 mfd. 200 V.	608E-38	14500 ohm ±10% 1/2 W.
448-48 C36	.00000000025 mfd. 200 V.	608E-39	15000 ohm ±10% 1/2 W.
448-49 C37	.0000000001 mfd. 200 V.	608E-40	15500 ohm ±10% 1/2 W.
448-50 C38	.00000000005 mfd. 200 V.	608E-41	16000 ohm ±10% 1/2 W.
448-51 C39	.000000000025 mfd. 200 V.	608E-42	16500 ohm ±10% 1/2 W.
448-52 C40	.00000000001 mfd. 200 V.	608E-43	17000 ohm ±10% 1/2 W.
448-53 C41	.000000000005 mfd. 200 V.	608E-44	17500 ohm ±10% 1/2 W.
448-54 C42	.0000000000025 mfd. 200 V.	608E-45	18000 ohm ±10% 1/2 W.
448-55 C43	.000000000001 mfd. 200 V.	608E-46	18500 ohm ±10% 1/2 W.
448-56 C44	.0000000000005 mfd. 200 V.	608E-47	19000 ohm ±10% 1/2 W.
448-57 C45	.00000000000025 mfd. 200 V.	608E-48	19500 ohm ±10% 1/2 W.
448-58 C46	.0000000000001 mfd. 200 V.	608E-49	20000 ohm ±10% 1/2 W.
448-59 C47	.00000000000005 mfd. 200 V.	608E-50	20500 ohm ±10% 1/2 W.
448-60 C48	.000000000000025 mfd. 200 V.	608E-51	21000 ohm ±10% 1/2 W.
448-61 C49	.00000000000001 mfd. 200 V.	608E-52	21500 ohm ±10% 1/2 W.
448-62 C50	.000000000000005 mfd. 200 V.	608E-53	22000 ohm ±10% 1/2 W.
448-63 C51	.0000000000000025 mfd. 200 V.	608E-54	22500 ohm ±10% 1/2 W.
448-64 C52	.000000000000001 mfd. 200 V.	608E-55	23000 ohm ±10% 1/2 W.
448-65 C53	.0000000000000005 mfd. 200 V.	608E-56	23500 ohm ±10% 1/2 W.
448-66 C54	.00000000000000025 mfd. 200 V.	608E-57	24000 ohm ±10% 1/2 W.
448-67 C55	.0000000000000001 mfd. 200 V.	608E-58	24500 ohm ±10% 1/2 W.
448-68 C56	.00000000000000005 mfd. 200 V.	608E-59	25000 ohm ±10% 1/2 W.
448-69 C57	.000000000000000025 mfd. 200 V.	608E-60	25500 ohm ±10% 1/2 W.
448-70 C58	.00000000000000001 mfd. 200 V.	608E-61	26000 ohm ±10% 1/2 W.
448-71 C59	.000000000000000005 mfd. 200 V.	608E-62	26500 ohm ±10% 1/2 W.
448-72 C60	.0000000000000000025 mfd. 200 V.	608E-63	27000 ohm ±10% 1/2 W.
448-73 C61	.000000000000000001 mfd. 200 V.	608E-64	27500 ohm ±10% 1/2 W.
448-74 C62	.0000000000000000005 mfd. 200 V.	608E-65	28000 ohm ±10% 1/2 W.
448-75 C63	.00000000000000000025 mfd. 200 V.	608E-66	28500 ohm ±10% 1/2 W.
448-76 C64	.0000000000000000001 mfd. 200 V.	608E-67	29000 ohm ±10% 1/2 W.
448-77 C65	.00000000000000000005 mfd. 200 V.	608E-68	29500 ohm ±10% 1/2 W.
448-78 C66	.000000000000000000025 mfd. 200 V.	608E-69	30000 ohm ±10% 1/2 W.
448-79 C67	.00000000000000000001 mfd. 200 V.	608E-70	30500 ohm ±10% 1/2 W.
448-80 C68	.000000000000000000005 mfd. 200 V.	608E-71	31000 ohm ±10% 1/2 W.
448-81 C69	.0000000000000000000025 mfd. 200 V.	608E-72	31500 ohm ±10% 1/2 W.
448-82 C70	.000000000000000000001 mfd. 200 V.	608E-73	32000 ohm ±10% 1/2 W.
448-83 C71	.0000000000000000000005 mfd. 200 V.	608E-74	32500 ohm ±10% 1/2 W.
448-84 C72	.00000000000000000000025 mfd. 200 V.	608E-75	33000 ohm ±10% 1/2 W.
448-85 C73	.0000000000000000000001 mfd. 200 V.	608E-76	33500 ohm ±10% 1/2 W.
448-86 C74	.00000000000000000000005 mfd. 200 V.	608E-77	34000 ohm ±10% 1/2 W.
448-87 C75	.000000000000000000000025 mfd. 200 V.	608E-78	34500 ohm ±10% 1/2 W.
448-88 C76	.00000000000000000000001 mfd. 200 V.	608E-79	35000 ohm ±10% 1/2 W.
448-89 C77	.000000000000000000000005 mfd. 200 V.	608E-80	35500 ohm ±10% 1/2 W.
448-90 C78	.0000000000000000000000025 mfd. 200 V.	608E-81	36000 ohm ±10% 1/2 W.
448-91 C79	.000000000000000000000001 mfd. 200 V.	608E-82	36500 ohm ±10% 1/2 W.
448-92 C80	.0000000000000000000000005 mfd. 200 V.	608E-83	37000 ohm ±10% 1/2 W.
448-93 C81	.00000000000000000000000025 mfd. 200 V.	608E-84	37500 ohm ±10% 1/2 W.
448-94 C82	.0000000000000000000000001 mfd. 200 V.	608E-85	38000 ohm ±10% 1/2 W.
448-95 C83	.00000000000000000000000005 mfd. 200 V.	608E-86	38500 ohm ±10% 1/2 W.
448-96 C84	.000000000000000000000000025 mfd. 200 V.	608E-87	39000 ohm ±10% 1/2 W.
448-97 C85	.00000000000000000000000001 mfd. 200 V.	608E-88	39500 ohm ±10% 1/2 W.
448-98 C86	.000000000000000000000000005 mfd. 200 V.	608E-89	40000 ohm ±10% 1/2 W.
448-99 C87	.0000000000000000000000000025 mfd. 200 V.	608E-90	40500 ohm ±10% 1/2 W.
448-100 C88	.000000000000000000000000001 mfd. 200 V.	608E-91	41000 ohm ±10% 1/2 W.
448-101 C89	.0000000000000000000000000005 mfd. 200 V.	608E-92	41500 ohm ±10% 1/2 W.
448-102 C90	.00000000000000000000000000025 mfd. 200 V.	608E-93	42000 ohm ±10% 1/2 W.
448-103 C91	.0000000000000000000000000001 mfd. 200 V.	608E-94	42500 ohm ±10% 1/2 W.
448-104 C92	.00000000000000000000000000005 mfd. 200 V.	608E-95	43000 ohm ±10% 1/2 W.
448-105 C93	.000000000000000000000000000025 mfd. 200 V.	608E-96	43500 ohm ±10% 1/2 W.
448-106 C94	.00000000000000000000000000001 mfd. 200 V.	608E-97	44000 ohm ±10% 1/2 W.
448-107 C95	.000000000000000000000000000005 mfd. 200 V.	608E-98	44500 ohm ±10% 1/2 W.
448-108 C96	.0000000000000000000000000000025 mfd. 200 V.	608E-99	45000 ohm ±10% 1/2 W.
448-109 C97	.000000000000000000000000000001 mfd. 200 V.	608E-100	45500 ohm ±10% 1/2 W.
448-110 C98	.0000000000000000000000000000005 mfd. 200 V.	608E-101	46000 ohm ±10% 1/2 W.
448-111 C99	.00000000000000000000000000000025 mfd. 200 V.	608E-102	46500 ohm ±10% 1/2 W.
448-112 C100	.0000000000000000000000000000001 mfd. 200 V.	608E-103	47000 ohm ±10% 1/2 W.
448-113 C101	.00000000000000000000000000000005 mfd. 200 V.	608E-104	47500 ohm ±10% 1/2 W.
448-114 C102	.000000000000000000000000000000025 mfd. 200 V.	608E-105	48000 ohm ±10% 1/2 W.
448-115 C103	.00000000000000000000000000000001 mfd. 200 V.	608E-106	48500 ohm ±10% 1/2 W.
448-116 C104	.000000000000000000000000000000005 mfd. 200 V.	608E-107	49000 ohm ±10% 1/2 W.
448-117 C105	.0000000000000000000000000000000025 mfd. 200 V.	608E-108	49500 ohm ±10% 1/2 W.
448-118 C106	.000000000000000000000000000000001 mfd. 200 V.	608E-109	50000 ohm ±10% 1/2 W.
448-119 C107	.0000000000000000000000000000000005 mfd. 200 V.	608E-110	50500 ohm ±10% 1/2 W.
448-120 C108	.00000000000000000000000000000000025 mfd. 200 V.	608E-111	51000 ohm ±10% 1/2 W.
448-121 C109	.0000000000000000000000000000000001 mfd. 200 V.	608E-112	51500 ohm ±10% 1/2 W.
448-122 C110	.00000000000000000000000000000000005 mfd. 200 V.	608E-113	52000 ohm ±10% 1/2 W.
448-123 C111	.000000000000000000000000000000000025 mfd. 200 V.	608E-114	52500 ohm ±10% 1/2 W.
448-124 C112	.00000000000000000000000000000000001 mfd. 200 V.	608E-115	53000 ohm ±10% 1/2 W.
448-125 C113	.000000000000000000000000000000000005 mfd. 200 V.	608E-116	53500 ohm ±10% 1/2 W.
448-126 C114	.0000000000000000000000000000000000025 mfd. 200 V.	608E-117	54000 ohm ±10% 1/2 W.
448-127 C115	.000000000000000000000000000000000001 mfd. 200 V.	608E-118	54500 ohm ±1

ADMIRAL CORPORATION



ISSUE B 1946
SUPERSEDES ISSUE A

ALTERNATE FILTER CIRCUIT
USED ON EARLIER MODEL.



CHASSIS GROUND \perp
I.F. 455 K.C.

NOTE: 1. In later production R14 and C13a are disconnected from pin #8 of the 35Z5 and a 33-ohm 1W resistor (R16) is connected from pin #8 to the junction of R14 and C13a. 2. The jumper between pins 4 and 5 on the 12SQ7 is removed and one pin is connected to the secondary of the second I.F. (L5) and the other pin is connected directly to the junction point of R5 and the secondary of the 1st I.F. (L4).

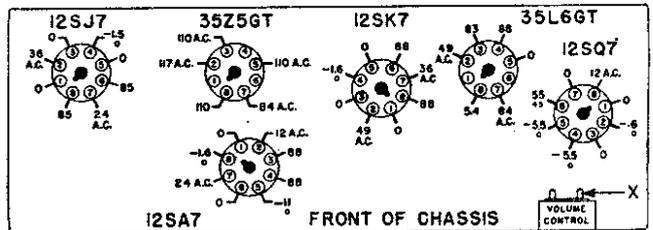
CONDENSERS

Symbol	Capacity	Type
C-1.....	.005 mfd	600 V.
C-2.....	.785 mmfd	Mica
C-3.....	.05 mfd	400 V.
C-4.....	.02 mfd	400 V.
C-5.....	50. mmfd	Mica
C-6.....	.250. mmfd	Mica
C-7.....	.01 mfd	400 V.
C-8.....	.01 mfd	400 V.
C-9.....	.01 mfd	400 V.
C-10.....	.500. mmfd	Mica
C-11.....	.01 mfd	400 V.
C-12.....	.02 mfd	400 V.
C-13a.....	30. mfd	Elect. 150 V.
C-13b.....	30. mfd	Elect. 150 V.
C-13c.....	20. mfd	Elect. 150 V.
C-14.....	.05 mfd	400 V.
C-15.....	.2 mfd	400 V.
C-16.....	.250. mmfd	Mica
C-17.....	.1 mfd	200 V.
C-18.....	20. mmfd	Mica
C-19a.....	.420. mmfd	(max.) Var.
C-19b.....	.180. mmfd	(max.) Var.
C-20a.....	30. mfd	Elect. 150 V.
C-20b.....	50. mfd	Elect. 150 V.

RESISTORS

Symbol	Resistance	Type
R-1.....	10,000 ohms	C1/2W
R-2.....	10 meg ohm	C1/2W
R-3.....	22,000 ohms	C1/2W
R-4.....	100 ohms	C1/2W
R-5.....	1 meg ohm	C1/2W
R-6.....	47,000 ohms	C1/2W
R-7.....	27,000 ohms	C1/2W
R-8.....	500,000 ohm	Volume Control, (Tapped at 1/3 and 2/3 of Rotation which is 100,000 ohms and 200,000 ohms from the start, due to the taper).
R-9.....	5 meg ohm	C1/2W
R-10.....	270,000 ohms	C1/2W
R-11.....	470,000 ohms	C1/2W
R-12.....	150 ohms	C1/2W
R-13.....	150,000 ohms	C1/2W
R-14.....	150 ohms	C1W
R-15.....	1,000 ohms	C1W
R-16.....	33 ohms	C1W

VOLTAGE DATA:-

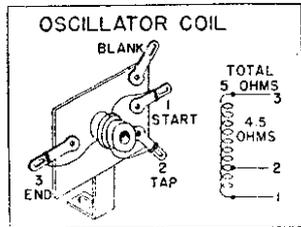


Bottom View of Chassis, Showing Voltages.

- All readings made between Tube Socket Terminals and Switch Lug on volume control (Point "X" on drawing).
- Measured on a 117 Volt A.C. line.
- Volume control full on.
- Dial tuned to low frequency end, no signal.
- Voltages indicated obtained on Vacuum Tube voltmeter.
- A second voltage reading is shown made with a 1000 ohm-per-volt meter when use of this instrument would result in appreciably lower readings.

COILS

Symbol	Description
L-1.....	(Sec. 2.3 ohms).....Loop
L-2.....	(2.5 ohms).....R. F. Coil
L-3.....Osc. Coil
L-4.....1st I. F. Trans.
L-5.....2nd I. F. Trans.
L-6.....	(325 ohms).....Choke, Filter



SPECIFICATIONS

POWER SUPPLY:-

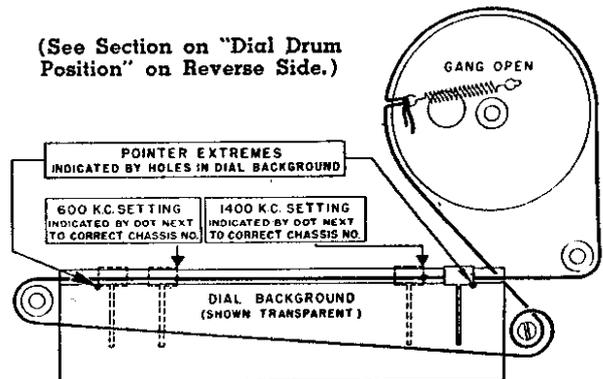
110-120 Volts A.C. or D.C.
Frequency 50-60 cycles.
Power Consumption—30 watts.

CIRCUIT:-

Chassis 6A1 A.C.—D.C. 6 Tube Superheterodyne, with R.F. stage; Single tuning range, 540 Kc. to 1630 Kc., covering standard broadcast band; built-in AEROSCOPE loop antenna, with provision for connecting an external antenna.

POINTER SETTINGS AND DIAL CORD STRINGING

(See Section on "Dial Drum Position" on Reverse Side.)



For Alignment and Parts, see P.15-12