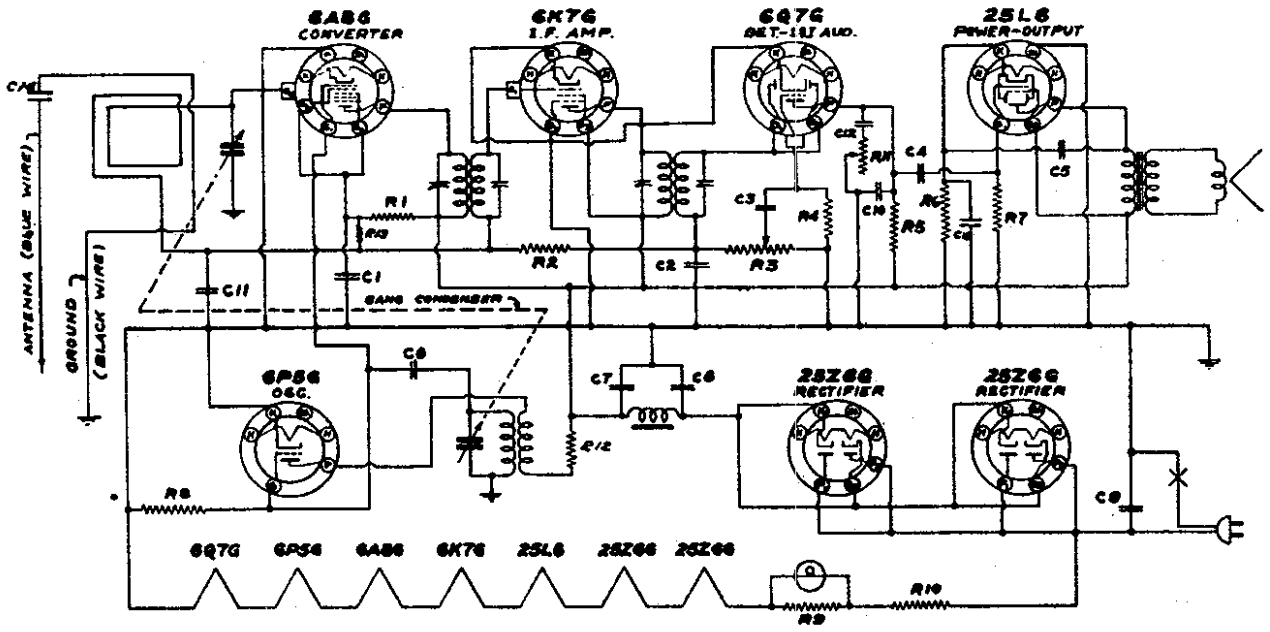
MODEL 7K

ADMIRAL CORPORATION



CAPACITORS

NO	MFds.	VOLTS	NO	MFds.	VOLTS
C1	.01	400	C8	20.0	150
C2	.00025	MICA	C9	.05	400
C3	.01	400	C10	.0005	MICA
C4	.01	400	C11	.05	200
C5	.005	600	C12	.005	600
C6	.00006	MICA	C13	20.0	25
C7	20.0	150	C14	.001	400

RESISTORS

NO	OHMS	WATTS	NO	OHMS	WATTS
R1	10,000	½	R7	½ MEG	½
R2	.2 MEG.	½	R8	50,000	1½
R3	½ MEG.	VOL. CONT.	R9	30	7
R4	.5 MEG.	½	R10	42	7
R5	250,000.	½	R11	800,000 TONE C.	
R6	150	½	R12	1000	½
			R13	19 MEG	½

I.F. – 455 K.C.

SCHEMATIC DIAGRAM
MODEL 7K

SERVICE INFORMATION

Speaker (Part No. P3284)

Field resistance ..... 450 ohms

D.C. voice coil resistance ..... 4.6 ohms

Voice coil impedance at 400 cycles ..... 5 ohms

Oscillator Coil (Part No. P3682)

Looking at the connection end (with dot) in a clockwise direction starting at the chassis the terminals are No. 1, grid;

Primary—No. 2 and No. 3—Resistance 1.5 ohms.

Secondary—No. 4 and No. 1—Resistance 4.5 ohms.

First I.F. Transformer (Part No. P3282)

Primary—Blue white, plate; red white B+—Resistance 24.2 ohms.

Secondary—White, grid; black white, AVC—Resistance 23.6 ohms.

Second I.F. Transformer (Part No. P3283)

Primary—Blue white, plate; red white, B+—Resistance 11.9 ohms.

Secondary—White, grid; black white, AVC—Resistance 16.9 ohms.

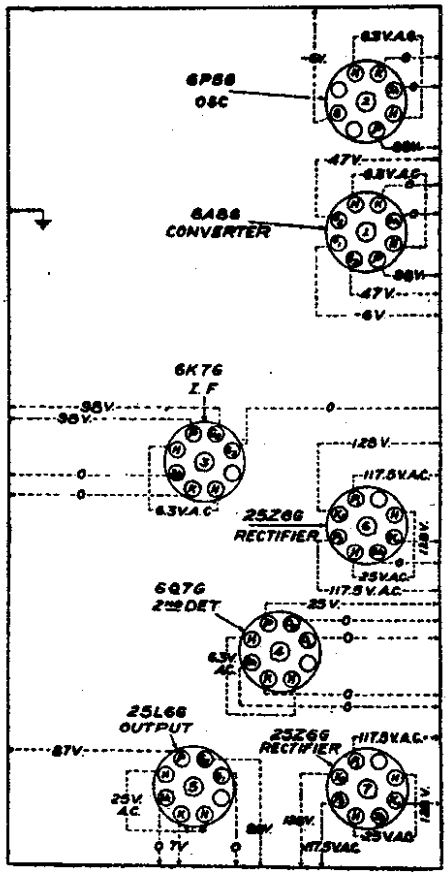
Electrolytic Condenser (Part No. P3531)

Red, 20 mfd., 150 volt; green, 20 mfd., 150 volt; yellow, 20 mfd., 25 volt; black, negative for all three sections.

Loop Antenna

Since the loop antenna acts also as the antenna coil the set will not operate with the loop antenna disconnected.

VOLTAGES AT SOCKETS



Bottom View of Chassis

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ALIGNMENT PROCEDURE

- Volume control—Maximum all adjustments.
- Connect radio chassis to ground post of signal generator with a short heavy lead.
- Connect dummy antenna value in series with generator output lead.
- Connect output meter across primary of output transformer.
- Allow chassis and signal generator to "heat up" for several minutes.

The following equipment is required for aligning:

- An all wave signal generator which will provide an accurately calibrated signal at the test frequencies as listed.
- Output indicating meter.
- Non-metallic screwdriver.
- Dummy antennas—.1 mfd., 200 mmf.

BAND	SIGNAL GENERATOR Frequency Setting	SIGNAL GENERATOR Dummy Antenna	Connection to Radio	Variable Condenser Setting	Trimmers Adjusted (In Order Shown)	Trimmer Function	Adjustment
I. F.	455 KC.	.1 MFD.	Grid of 6K7G I.F. tube	Rotor full open (Plates out of mesh)	Two trimmers on top (See Fig. 2)	Output I.F.	Adjust to maximum output
	455 KC.	.1 MFD.	Grid of 6A8G tube	Rotor full open (Plates out of mesh)	Two trimmers on top (See Fig. 2)	Input I.F.	Adjust to maximum output
BROAD-CAST	1730 KC.	200 mmf.	Antenna lead	Rotor full open (Plates out of mesh)	Trimmer—Top of Left section of gang (See Fig. 2)	Oscillator	Adjust to maximum output
	1400 KC.	200 mmf.	Antenna lead	Set dial at 1400 KC.	Trimmer—Top of Right section of gang (See Fig. 2)	Antenna	Adjust to maximum output

This is all that is necessary for the alignment unless the plates of the gang have been bent out of shape. In case of bent plates, set the signal generator and receiver to 600 KC and bend the plates into the position for maximum output.

Attenuate the signal from the signal generator to prevent the leveling off-action of the AVC. After each band is completed, repeat the procedure as a final check.

FREQUENCY RANGE
540 to 1630 KC
Power output 1 watt undistorted—1.7 watts maximum.
Intermediate Frequency 455 KC.
Power Consumption—50 watts.

REPLACEMENT PARTS LIST

PAPER CONDENSERS

P3203	C14	.001 mfd. 600 volt
P1322	C5, C12	.005 mfd. 600 volt
P334	C9	.05 mfd. 400 volt
P148	C11	.05 mfd. 200 volt
P164	C1, C3, C4	.01 mfd. 400 volt

MICA CONDENSERS

P817	C2	.00025 mfd.
P1382	C6	.00005 mfd.
P336	C10	.0005 mfd.

ELECTROLYTIC CONDENSERS

P3531	C7 C8, & C13	20 mfd. 150 volt
		20 mfd. 150 volt
		20 mfd. 25 volt

VARIABLE CONDENSERS

P3522		Gang Condenser and Tuner

RESISTORS

P3444	R9	30 ohm 7 watt
P3277	R10	42 ohm 7 watt
P3803	R6	150 ohm ½ watt 10%
P3828	R12	1,000 ohm ½ watt
P3841	R1	10,000 ohm ½ watt
P3853	R8	50,000 ohm ½ watt
P3868	R5	250,000 ohm ½ watt
P3876	R7	500,000 ohm ½ watt
P3883	R2	2,000,000 ohm ½ watt
P3886	R4	5,000,000 ohm ½ watt
P3891	R13	15,000,000 ohm ½ watt

VARIABLE RESISTORS

P3527	R3	Volume Control and Switch
P3528	R11	Tone Control

TRANSFORMERS AND COILS

P3682	Oscillator Coil
P3282	1st I. F. Transformer
P3283	2nd I. F. Transformer
P3278	Output Transformer

P2294	Pulley for Dial Bracket	
P2325	Dial Takeup Spring	
P3525	Dial Background	
P2965	Dial Pointer	
P470	Grid Clip	
P1713	Pilot Light Bulb	
P3681	Pilot Light Socket	
G6081	Loop Antenna Assembly	
P3284	Speaker	
P3088	Rubber Speaker Ring	
P3096	Call Letter Sheet	
P3073	Push Button	
P3078	Felt Washer (For Push Buttons)	
P3644	Tuning Knob	
P3358	Volume or Tone Knob	
P3684	Escutcheon	
P3089	Dial Clip	
P3090	Escutcheon Screw	
P3685	Dial Scale	
P3635	Pressed Paper Back	
P3673	Chassis Mounting Screw