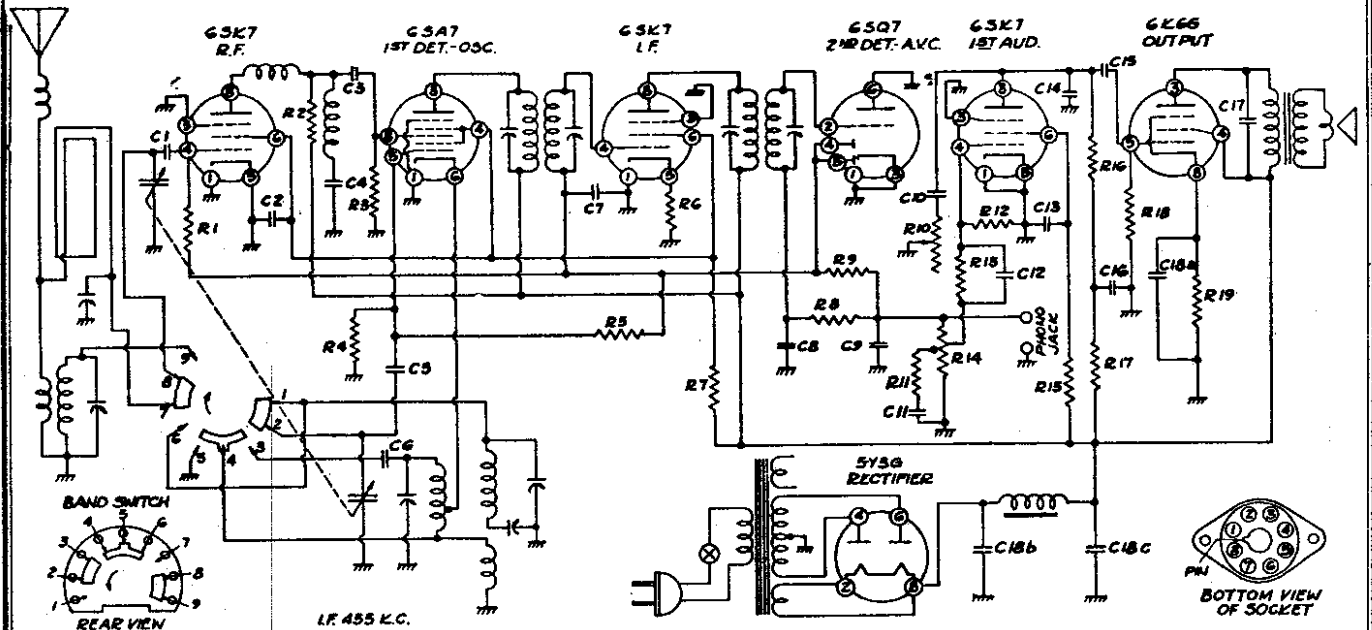


MODEL A77

ADMIRAL CORPORATION



RESISTORS

No.	Ohms	Watts	No.	Ohms	Watts
R1	500,000	1/4	R11	15,000	1/4
R2	2,500	1/2	R12	2,000,000	1/4
R3	100,000	1/2	R13	2,000,000	1/4
R4	25,000	1/2	R14	500,000	V.C.
R5	5,000,000	1/4	R15	2,000,000	1/4
R6	100	1/4	R16	250,000	1/4
R7	15,000	2	R17	50,000	1/4
R8	50,000	1/4	R18	500,000	1/4
R9	1,000,000	1/4	R19	600-10%	1/2
R10	500,000	T.C.			

CONDENSERS

No.	Capacity (Mfd.)	Volts	No.	Capacity (Mfd.)	Volts
C1	.0001	Mica	C11	.05	200
C2	.05	400	C12	.05	200
C3	.0001	Mica	C13	.25	400
C4	.00006-5%	Mica	C14	.00025	Mica
C5	.0001	Mica	C15	.01	400
C6	.003-5%	Mica	C16	.25	400
C7	.05	200	C17	.002	600
C8	.00005	Mica	C18a	20.	25
C9	.0001	Mica	C18b	30.	350
C10	.002	600	C18c	30.	350

TRANSFORMERS AND COILS

- G6252 Loop antenna assembly
- P3198 S. W. antenna coil
- P4194 B. C. and S. W. oscillator coil
- G6185 Wave trap coil
- P4108 1st I.F. transformer
- P4109 2nd I.F. transformer
- G6186 Short wave choke
- P3926 Iron core filter choke
- P4285 Power transformer

MISCELLANEOUS

- P4196 Push button shaft
- P4114 Coil letter tab sheet
- P4192 Band switch
- P4283 Speaker and output transformer

CONDENSERS

- P4196 Dial pointer
- G6181 Pointer shaft and pulley
- P4091 Horseshoe washer (pointer shaft)
- P2325 Take up spring (pointer)
- P4105 Fibre pulley
- P4185 Dial background
- P4197 Pilot light socket
- P1713 Pilot light bulb
- P4248 Pilot light reflector
- P4101 Drive shaft
- P1399 Horseshoe washer (drive shaft)
- P3375 Takeup spring (drive)
- P945 Speaker socket
- P4138 Electrolytic mounting base

PAPER CONDENSERS

- P1193 .002 mfd. 600 volt
- P1322 .005 mfd. 600 volt
- P164 .01 mfd. 400 volt
- P148 .05 mfd. 200 volt
- P334 .05 mfd. 400 volt
- P1789 .25 mfd. 400 volt

MICA CONDENSERS

- P1382 .00005 mfd.
- P3640 .00006 mfd. 5%
- P480 .0001 mfd.
- P817 .00025 mfd.
- P2565 .003 mfd. 5%

ELECTROLYTIC CONDENSERS

- P4264 { 20 mfd. 25 volt }
 { 30 mfd. 350 volt }
 { 30 mfd. 350 volt }

VARIABLE CONDENSERS

- P4191 Gang condenser
- P3734 Trimmer condenser
- P3299 Trimmer condenser
- P3173 Padding condenser

RESISTORS

- P3800 100 ohm 1/2 watt
- P3821 600 ohm 1/2 watt
- P3832 2,500 ohm 1/2 watt
- P3843 15,000 ohm 1/2 watt
- P1944 15,000 ohm 2 watt
- P3845 25,000 ohm 1/2 watt
- P3853 50,000 ohm 1/2 watt
- P3860 100,000 ohm 1/2 watt
- P3868 250,000 ohm 1/2 watt
- P3876 500,000 ohm 1/2 watt
- P3882 1,000,000 ohm 1/2 watt
- P3883 2,000,000 ohm 1/2 watt
- P3886 5,000,000 ohm 1/2 watt

VARIABLE RESISTORS

- P4089 Volume control and switch
- P4193 Tone control

All voltages measured with a 1,000 ohm per volt meter on the 300 volt scale. Line voltage 117 volts A.C. Volume control maximum and no signal tuned in. Power consumption 60 watts.

6SK7 (RF) TUBE

- Plate (8) to ground..... 208
- Screen (6) to ground..... 93

6SA7 TUBE

- Plate (3) to ground..... 255
- Screen (4) to ground..... 93

6SK7 (IF) TUBE

- Plate (8) to ground..... 255
- Screen (6) to ground..... 93

6SK7 (AF) TUBE

- Plate (8) to ground..... 20
- Screen (6) to ground..... 10

6K6G TUBE

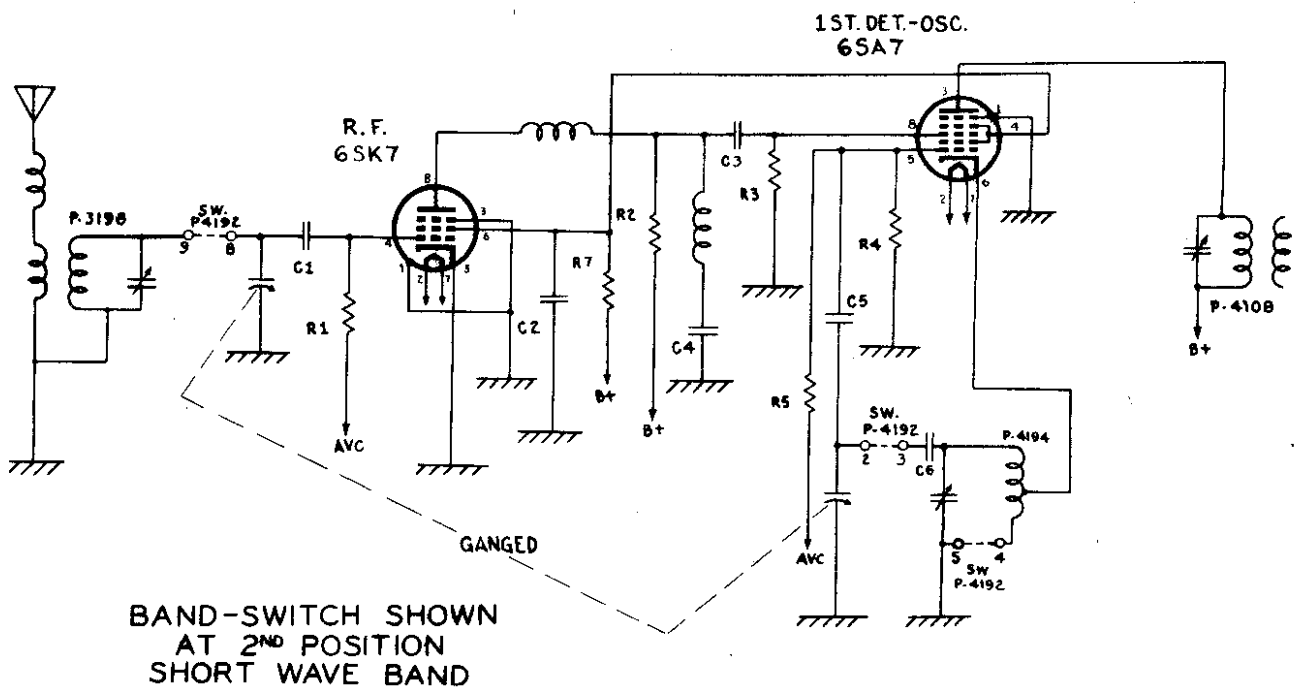
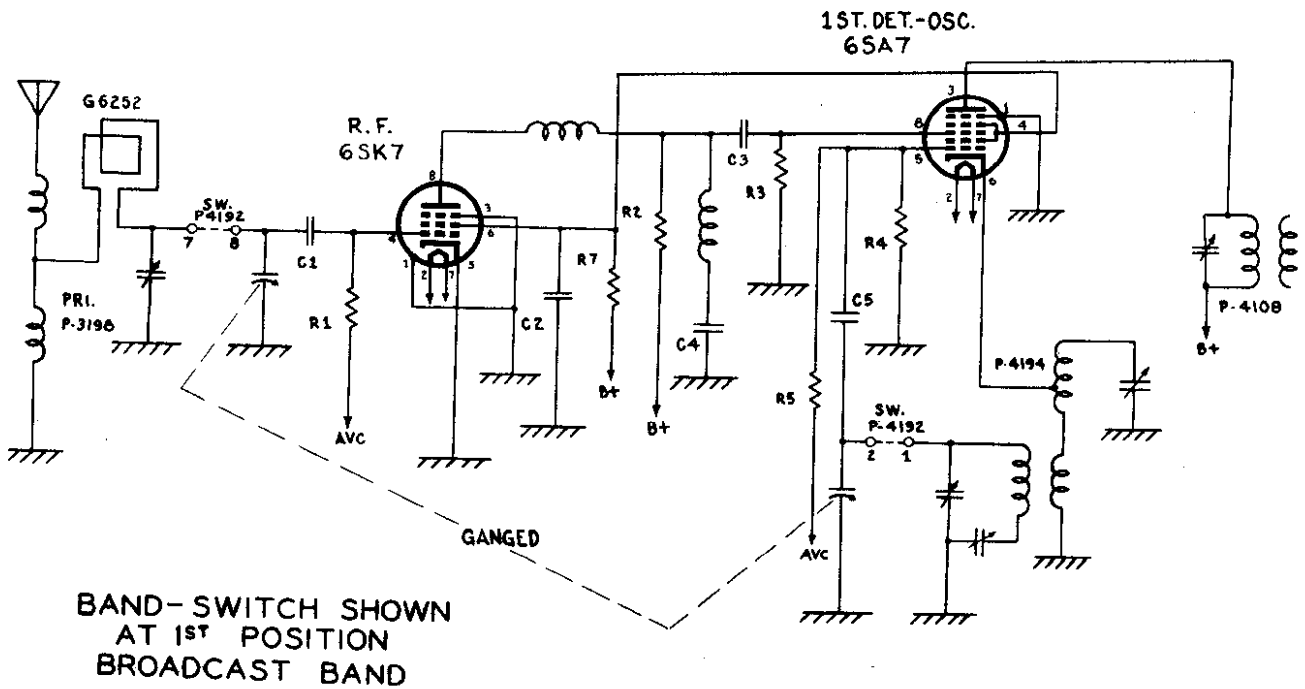
- Plate (3) to ground..... 240
- Screen (4) to ground..... 258
- Cathode (8) to ground..... 18

5Y3G TUBE

- Filament (8) to ground..... 266

ADMIRAL CORPORATION

MODEL A77



MODEL A77

ADMIRAL CORPORATION

ALIGNMENT DATA

Band switch shown in broadcast position in schematic and in short wave position in pictorial view in lower left corner.

Speaker (Part No. P4283) 10" PM.

D. C. voice coil resistance..... 3.7 ohms
 Voice coil impedance at 400 cycles..... 4.1 ohms

S. W. Antenna Coil (Part No. P3198)

Looking at the connection end starting at the chassis in a clockwise direction the terminals are: No. 1, plate; No. 2, B+; No. 3, grid; No. 4, pad.

Primary—No. 3 and No. 4—Resistance..... .08 ohm
 Secondary—No. 1 and No. 2—Resistance..... .37 ohm

Oscillator Coil (Part No. P4194)

Looking at the mounting strip end in a clockwise direction starting at the chassis, the terminals are: No. 1, ground; No. 2, cathode; No. 3, open; No. 4, pad; No. 5, switch; No. 6, grid; No. 7, grid; No. 8, open.

B.C. Primary—No. 1 and No. 5—Resistance..... .29 ohm
 S.W. Primary—No. 5 and No. 2—Resistance..... .06 ohm
 B.C. Secondary—No. 4 and No. 6—Resistance..... 5.7 ohms
 S.W. Secondary—No. 2 and No. 7—Resistance..... .08 ohm

First I.F. Transformer (Part No. P4108)

Primary—Blue, plate; red, B+—Resistance..... 18.2 ohms
 Secondary—White, grid; black, AVC—Resistance..... 15.1 ohms

Second I.F. Transformer (Part No. P4109)

Primary—Blue, plate; red, B+—Resistance..... 20.8 ohms
 Secondary—White, diode; black, AVC—Resistance..... 17.4 ohms

GENERAL DATA

The alignment of this receiver requires the use of a signal generator that will cover the frequencies of 445, 600, 1400, 1630, 6,000, 16,000 and 18,100 K.C., and an output meter to be connected across the primary or secondary of the output transformer. If possible, all alignments should be made with the volume control on maximum and the signal generator output as low as possible, to prevent the AVC from operating and giving false readings.

I.F. ALIGNMENT

Adjust the signal generator to 455 K.C. and connect the output to the grid of the first detector tube (6SA7) through a .05 or .1 mfd. condenser. Align all I.F. trimmers to peak or maximum reading on the output meter.

BROADCAST BAND ALIGNMENT

Adjust the signal generator to 1630 K.C. and connect the output to the antenna lead, through a .0002 mfd. mica condenser. Set the gang condenser to minimum capacity and adjust the B.C. oscillator trimmer to receive this signal. After this has been carefully done, the next step is to set the signal generator to 1400 K.C. and after tuning in the signal adjust the B.C. antenna trimmer to peak. Set the signal generator to 600 K.C., tune the signal and then slowly increase or decrease the B.C. oscillator padding condenser and at the same time continuously tune back and forth across the signal with the receiver until the maximum reading is obtained on the output meter.

Return to 1400 K.C. and again go over the adjustments of this frequency to be certain that they were not put slightly out of alignment when adjustment was made at 600 K.C.

SHORT WAVE BAND ALIGNMENT

Adjust the signal generator to 18,100 K.C. and connect the output to the antenna lead, through a 400 ohm resistor. Set the gang condenser to minimum capacity and adjust the S.W. oscillator trimmer to receive this signal. Set the signal generator to 16,000 K.C., tune signal and adjust the S.W. antenna trimmer to peak. As there is no variable low frequency padding condenser on this band, the sensitivity of the receiver should be checked at 6000 K.C. to determine whether the circuits are in line at this frequency. Should the receiver lack sensitivity at 6000 K.C., the antenna and oscillator coils, as well as the padding condenser, should be tested.

