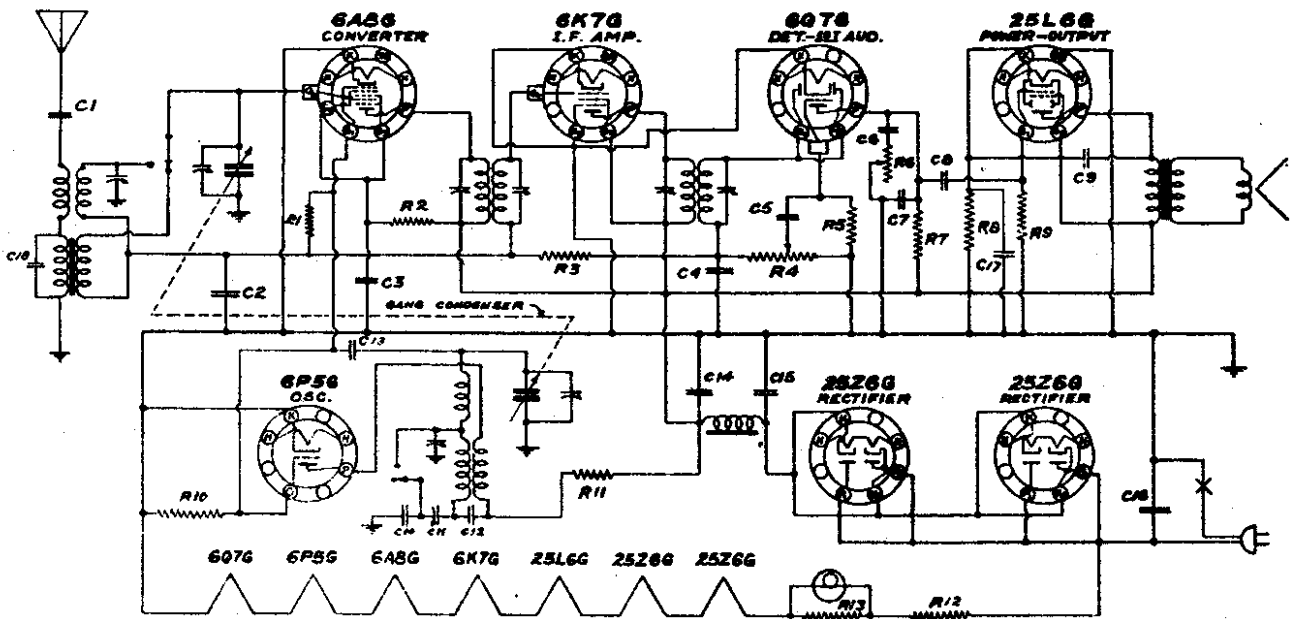


MODEL 7KS

ADMIRAL CORPORATION



CAPACITORS

NO.	MFDs	VOLTS	NO.	MFDs	VOLTS
C1	.002	600	C10	.0022	25% MICA
C2	.05	400	C11	.00062	VAR. PAD.
C3	.01	400	C12	.605	600
C4	.00025	MICA	C13	.00005	MICA
C5	.01	400	C14	25.0	150
C6	.005	600	C15	25.0	150
C7	.0005	MICA	C16	.05	400
C8	.01	400	C17	20.0	25
C9	.005	600	C18	.00005	MICA

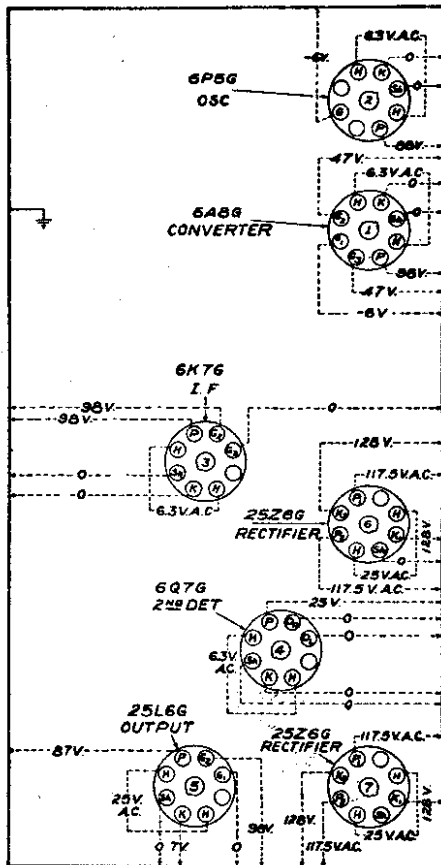
RESISTORS

NO.	OHMS	WATTS	NO.	OHMS	WATTS
R1	15 Meg.	1/2	R8	150	1/2
R2	10K	1/2	R9	1/2 Meg.	1/2
R3	2 Meg.	1/2	R10	30K	1/2
R4	1/2 Meg.	KC	R11	10K	1/2
R5	3/4 Meg.	1/2	R12	42	7
R6	1/2 Meg.	1/2	R13	30	7
R7	1/4 Meg.	1/2			

SWITCHES IN BROADCAST POSITION

I.F. 455 K.C.

VOLTAGES AT SOCKETS



Bottom View of Chassis

Speaker (Part No. P3638)

Field resistance ..... 300 ohms  
 D.C. voice coil resistance ..... 4.6 ohms  
 Voice coil impedance at 400 cycles ..... 5 ohms

Antenna Coil (Part No. G5960).

Looking at the connection end starting at the mounting strip in a clockwise direction the terminals are: No. 1, (not used); No. 2, AVC; No. 3, grid; No. 4, antenna; No. 5, ground (grounded directly to mounting strip).  
 Primary—No. 4 and No. 5—Resistance 26 ohms.  
 Secondary—No. 2 and No. 3—Resistance 2 ohms.

Short Wave Antenna Coil (Part No. P3702)

Looking at the connection end starting at the mounting strip in a clockwise direction the terminals are: No. 1, grid; No. 2, ant.; No. 3, ground; No. 4 (on other end), AVC.  
 Primary—No. 2 and No. 3—Resistance .03 ohm  
 Secondary—No. 1 and No. 4—Resistance .1 ohm

Oscillator Coil (Part No. P3700)

Looking at the end with mounting strip, starting at the mounting strip in a clockwise direction the terminals are: No. 1, padder; No. 2, B+; No. 3, (not used); No. 4, switch; No. 5, plate; No. 6, grid.  
 Primary—No. 2 and No. 5—Resistance .85 ohm  
 Short Wave Secondary—No. 4 and No. 6—Resistance .07 ohm  
 Broadcast Secondary—No. 1 and No. 4—Resistance 5.1 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.

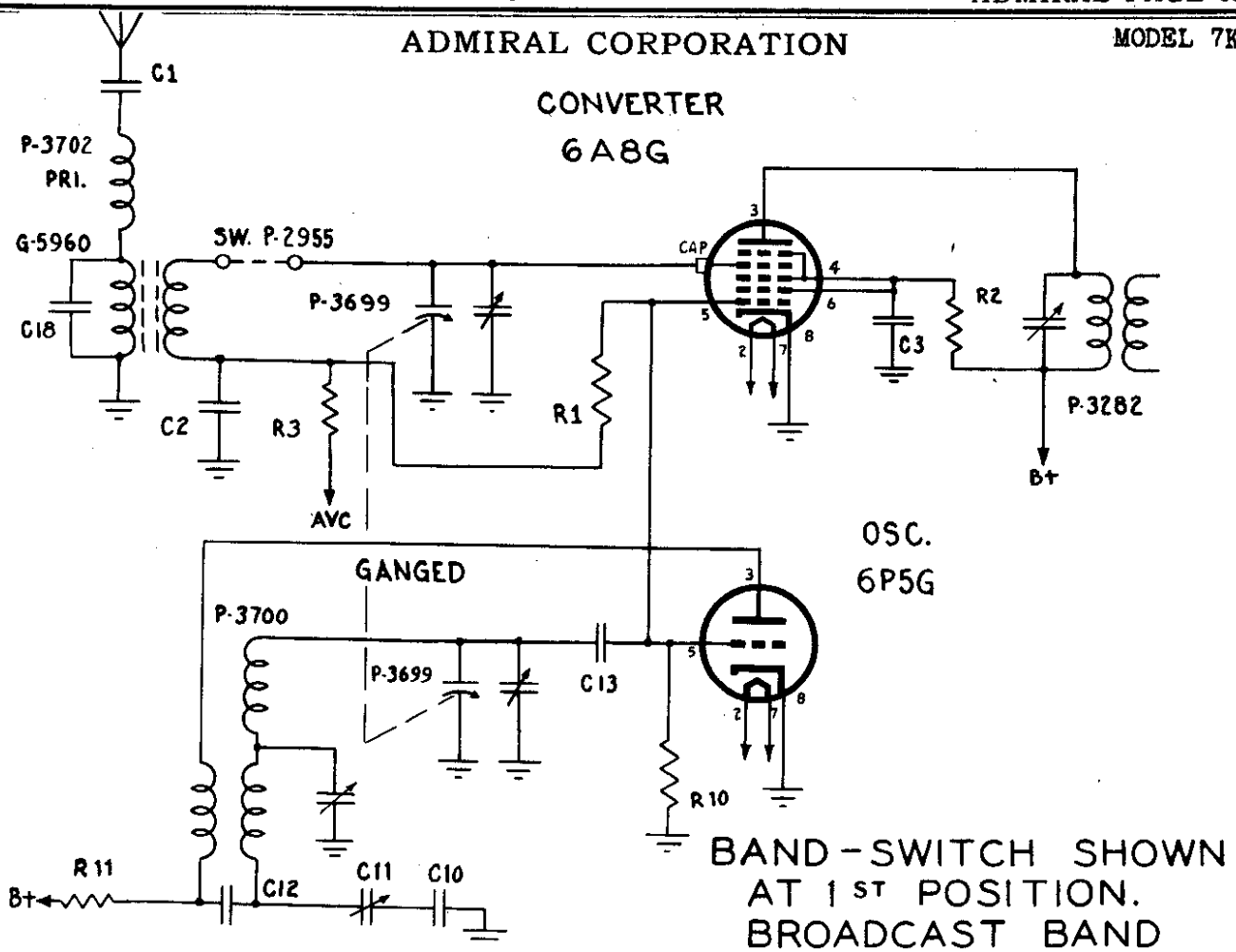
Electrolytic Condenser (Part No. P3531)

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

ADMIRAL CORPORATION

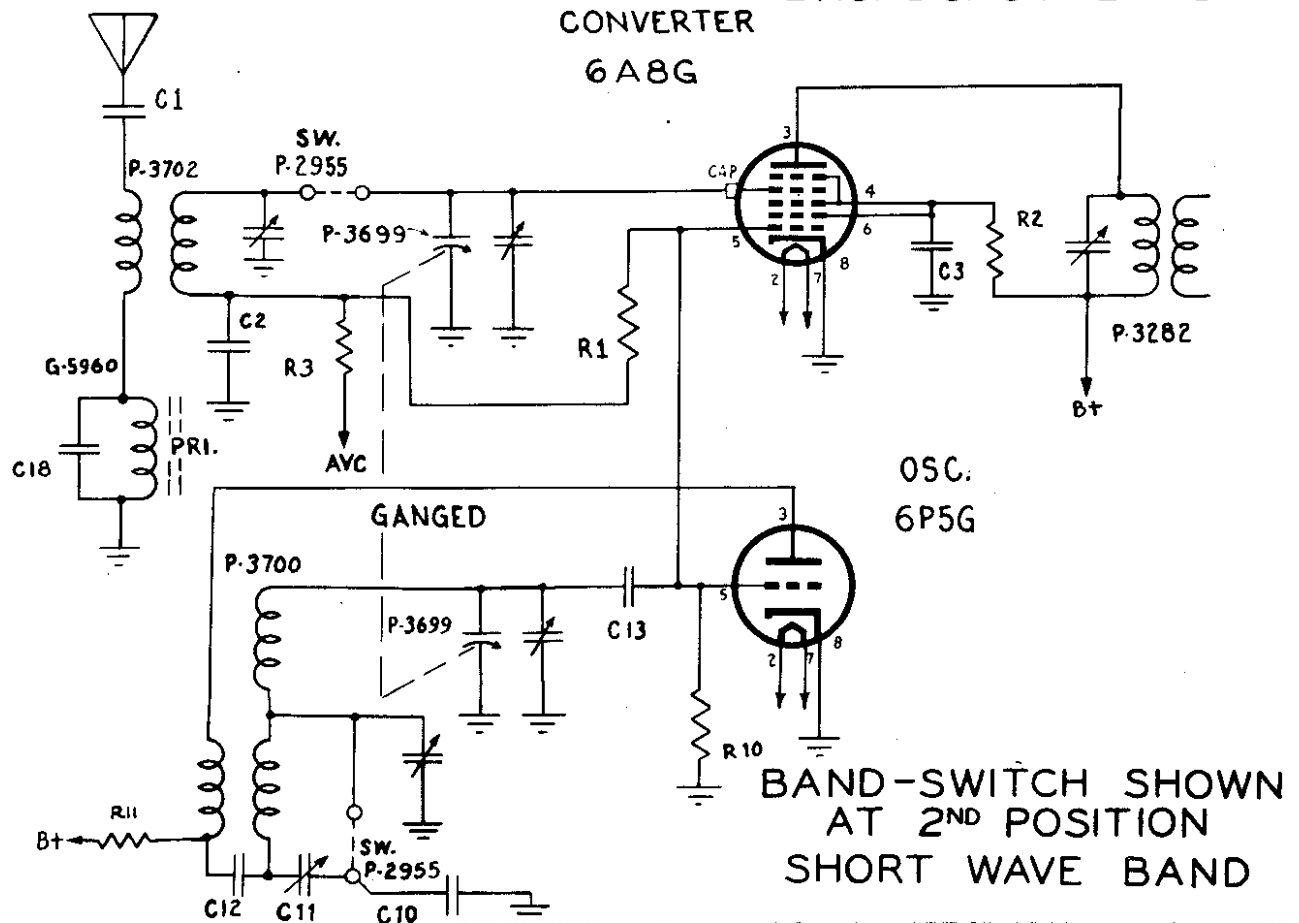
MODEL 7KS

CONVERTER  
6A8G



BAND-SWITCH SHOWN  
AT 1<sup>ST</sup> POSITION.  
BROADCAST BAND

CONVERTER  
6A8G



BAND-SWITCH SHOWN  
AT 2<sup>ND</sup> POSITION  
SHORT WAVE BAND

MODEL 7KS

ADMIRAL CORPORATION

Part No.	Description	Circuit Reference
<b>VARIABLE RESISTORS</b>		
P-327 R4	Volume control	
P-3528 R6	Tone control	
<b>TRANSFORMERS AND COILS</b>		
G-5960	Antenna coil assembly	
P-3702	Short Wave Antenna Coil	
P-3700	Oscillator coil	
P-3282	1st IF transformer	5%
P-3283	2nd IF transformer	
P-3005	Tube socket (octal)	
P-1456	Tube shield base	
P-2215	Tube shield	
P-3557	Line cord	
P-2294	Line cord clamp	
P-2125	Pulley for dial bracket	
P-3523	Dial takeup spring	
P-2065	Dial background	
P-470	Dial pointer	
P-2955	Grid clip	
P-1713	Band switch	
P-3681	Pilot light socket	
P-3638	Speaker & output transformer	
P-3088	Rubber speaker ring	
P-3096	Call letter sheet	
P-3073	Felt button	
P-3078	Felt washer (for push buttons)	
P-3644	Tuning knob	
P-3358	Volume or tone knob	
P-3684	Escutcheon	
P-3089	Dial clip	
P-3090	Escutcheon screw	
P-3703	Dial Scale	
P-3673	Chassis mounting screw	
<b>PAPER CONDENSERS</b>		
P-1322 C6, C9	.005 mfd. 600 volt	
P-334 C2, C16	.05 mfd. 400 volt	
P-164 C3, C5	.01 mfd. 400 volt	
P-1193 C1	.002 mfd. 600 volt	
<b>MICA CONDENSERS</b>		
P-817 C4	.00025 mfd.	
P-1382 C13, C18	.00005 mfd.	
P-3297 C10	.0022 mfd.	5%
P-336 C7	.0005 mfd.	
<b>ELECTROLYTIC CONDENSERS</b>		
P-3531 C14	20 mfd. 150 volt	
C15	20 mfd. 150 volt	
C17	20 mfd. 25 volt	
<b>VARIABLE CONDENSERS</b>		
P-3699	Gang condenser & tuner	
P-3299	Double trimmer strip	
P-3173 C11	Padding condenser	
<b>RESISTORS</b>		
P-3444 R13	30 ohm 7 watt	
P-3277 R12	42 ohm 7 watt	
P-2139 R1	60 ohm (wire wound)	
P-3803 R8	150 ohm ¼ watt 10%	
P-3841 R2, R11	10,000 ohm ¼ watt	
P-3853 R10	50,000 ohm ¼ watt	
P-3868 R7	250,000 ohm ¼ watt	
P-3876 R9	500,000 ohm ¼ watt	
P-3883 R3	2,000,000 ohm ¼ watt	
P-3886 R5	5,000,000 ohm ¼ watt	
P-3891 R1	15,000,000 ohm ¼ watt	

PROCEDURE FOR SETTING UP PUSH BUTTONS

There are four push buttons by means of which four stations may be selected (See Fig. 1). Make a list of four stations tuned in regularly. Loosen one of the push buttons by turning the push button knob counter clockwise a half turn or less and push it in; while holding the button in, tune in a desired station by means of the station selector wheel. Turn the selector very slowly back and forth until the signal is clearest. Now while holding the push button in, tighten it by turning clockwise. Release the push button and turn the station selector to one end of the dial; then check the button by pushing it in and if the station is tuned to the center of the area on the dial covered by the station the adjustment is correct.

Release the push button and loosen another push button and repeat the above procedure, doing this for the remaining buttons.

If it is desired to change a button to a different station simply loosen the push button and re-set.

Punch the correct station call letter tabs from the set of sheets supplied and insert them into the recesses above the push buttons.

The dial is now set up for quick tuning and all that is necessary is to push the button under the desired station all the way in and then release.

which is known to be good until the defective unit is located. Failure to operate, noisy or weak reception is usually due to defective tubes, the tubes making poor contact with sockets or grid clips making poor contact with the caps of the tubes.

ALIGNING INSTRUCTIONS

All of the adjustments have been very carefully set with signal generators at the factory and require no further adjustment, unless it becomes necessary to replace a coil or transformer, or if the adjustments have been tampered with in the field. Under no circumstances attempt any adjustments without first making certain that adjustment is necessary and only after voltages, tubes and condensers have been checked and found to be normal. To properly re-align this receiver, a signal generator as well as an output meter, must be used.

ALIGNMENT PROCEDURE

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., 400 ohms.

BAND	SIGNAL GENERATOR Frequency	Condenser Setting (Grid or Grid-leads)	Variable Condenser Setting (Plates full open or out of mesh)	Trimmer Adjustment (Plates full open or out of mesh)	Trimmer Function	Adjustment
I. F.	455 KC. .1 Mfd.	Grid of 6K7C LE tube	Rotor full open (Plates out of mesh)	Two trimmers on top	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	Input I. F.	Adjust to maximum output
SHORT WAVE	18,100 KC. 400 ohms	Antenna lead	Rotor full open (Plates out of mesh)	Trimmer—Top of left section of gang	Short Wave Oscillator	Adjust to receive signal
	16,000 KC. 400 ohms	Antenna lead	Tune signal	Trimmer—On right side of chassis, 3rd. from front	Short Wave Antenna	Adjust to maximum output
	1730 KC. 200 Mmf.	Antenna lead	Rotor full open (Plates out of mesh)	Trimmer—On right side of chassis, 2nd. from front	Broadcast Oscillator	Adjust to maximum output
BROAD-CAST	1400 KC. 200 Mmf.	Antenna lead	Set dial at 1400 KC.	Trimmer—Top of right section of gang (See Fig. 2)	Broadcast Antenna	Adjust to maximum output
	600 KC. 200 Mmf.	Antenna lead	Set dial at 600 KC.	Trimmer—On right side of chassis, 1st. from front	Oscillator Series Pad.	Adjust to maximum output

Note: "A"—Turn the dial back and forth slightly (rock) and adjust trimmer until the peak of intensity is obtained. Attenuate the signal from the signal generator to prevent the leveling-off action of the A.V.C.

Do not bend variable condenser to correct tracking.

Frequency Range—535 to 1730 and 5700 to 18,100 K.C.  
Power output 1 watt undistorted—17 watts maximum.  
Intermediate Frequency 455 K.C.  
Power Consumption—50 watts.

TUBE COMPLEMENT

The tube complement of this receiver consists of the following tubes.

- 1—Type 6AG—Pentagrid Converter (First Detector)
- 1—Type 6P5G—Triode Amplifier (Oscillator)
- 1—Type 6K7C—Remote cut-off Pentode as an IF Amplifier (455 KC.)
- 1—Type 6D7C—Duplex Diode Triode Second Detector, A.V.C. and First Audio.
- 1—Type 251G—Tetrode Power Amplifier.
- 2—Type 252AG—Twin Diode High Vacuum Rectifiers.

