

# MANUAL OF 1947 MOST-OFTEN-NEEDED RADIO DIAGRAMS

## ALIGNMENT PROCEDURE

1. Loop must be connected during alignment.

Check the set screws that hold the tuning drum to the shaft to see that they are tight and that the drum has not slipped on the shaft. The correct position of the drum can be seen on the stringing diagram.

2. In the closed position the stop on the rear of the dial drum must be against the stop post.

3. With the gang wide open, all slugs should be  $1\frac{3}{8}$  inches out of their coil forms. If there is any serious deviation

or if there has been any tampering, turn the adjusting screws until this distance is correct.

4. Be sure both the set and the signal generator are thoroughly warmed up before starting alignment.

5. Turn receiver Volume Control full on.

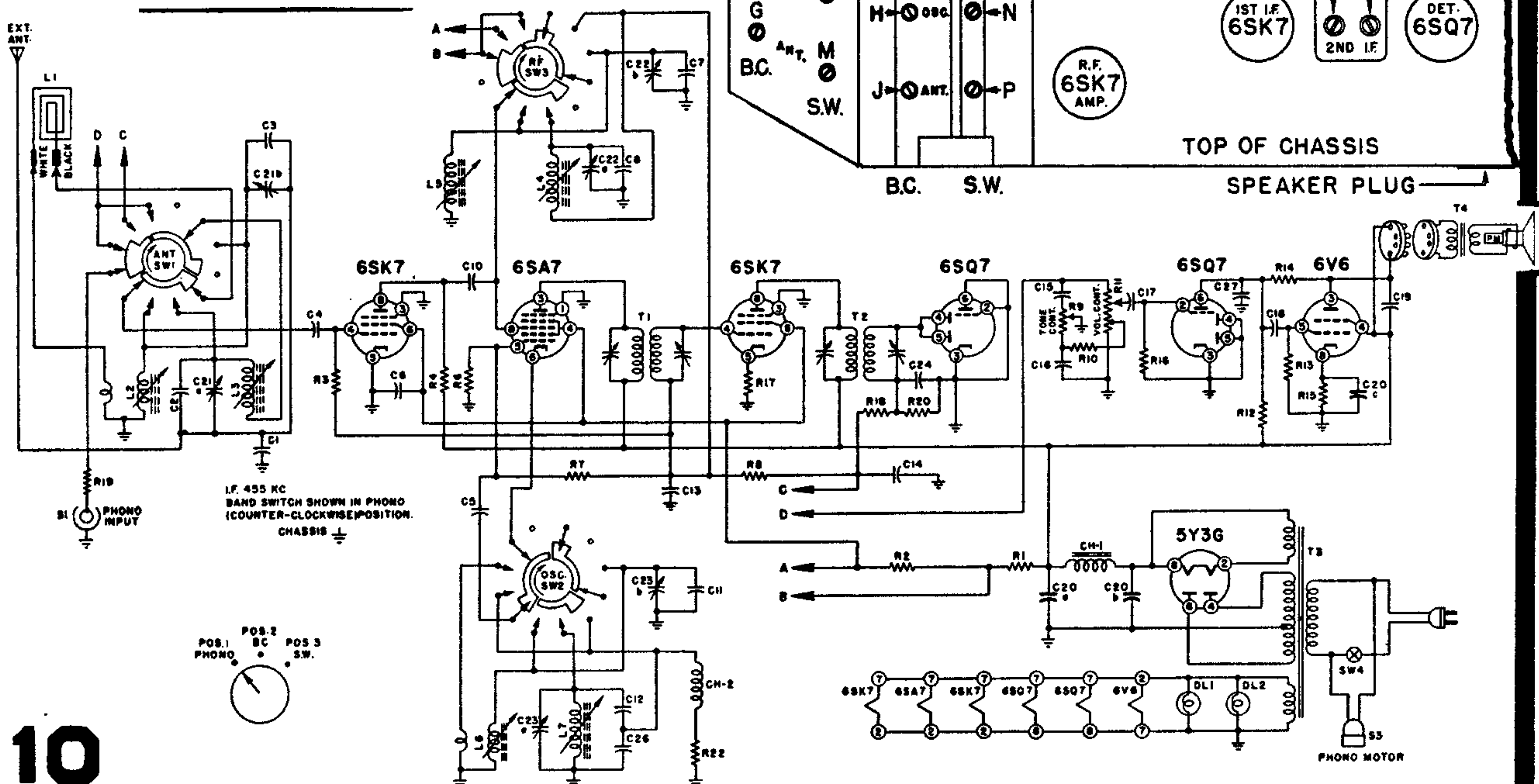
6. Use lowest output setting of signal generator that gives a satisfactory reading on meter.

7. Proceed in sequence as outlined below.

STEP	CONNECT SIGNAL GENERATOR TO	DUMMY ANTENNA BETWEEN RADIO AND SIGNAL GENERATOR	SIGNAL GENERATOR FREQUENCY	TUNING GANG SETTING	ADJ. TRIMMERS IN FOLLOWING ORDER TO MAX.
1	Set Band Change Switch to Broadcast Position. 6SA7 Grid (Pin #8)	.1 MFD.	455 K.C.	Set Pointer to Upper Limit	A, B, C, D
2	Before proceeding to step 3 check pointer travel as outlined under paragraph below headed "Pointer Adjustment."				
3	Black Loop Lead	20 MMFD. If not available wrap several turns of the generator lead around the black loop lead.	1605 K.C.	Set Pointer to Upper Limit	E, F, G
4	Black Loop Lead		1300 K.C.	Set Pointer to 1300 Mark on Slide Rail	H, I, J
5	Set Band Change Switch to Short Wave Position.				
6	Black Loop Lead	400 Ohms	12.5 M.C.	Set Pointer to Upper Limit	K, L, M
7	Black Loop Lead	400 Ohms	12.0 M.C.	Set Pointer to 1300 Mark on Slide Rail	N, O, P

# Admiral

## CHASSIS 7B1



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# Admiral

## CHASSIS 7B1

### REPLACEMENT PARTS

RESISTORS			CONDENSERS (Cont'd)			MISCELLANEOUS	
Symbol	Description	Part No.	Symbol	Description	Part No.	Description	Part No.
R1	12,000 Ohms 5 Watt	61A1-1	C18	.01 Mfd., 400 Volts, Condenser	6481-28	Background, Dial.....	22B7-1
R2	150,000 Ohms 1/2 Watt	60B8-154	C19	.01 Mfd., 600 Volts, Condenser	6481-10	Bulb, Pilot Light No. 47.....	81A1-8
R3	470,000 Ohms 1/2 Watt	60B8-474	C20a	30 Mfd., 350 Volts	67C6-25	Button (For Phono switch button).....	33A8-1
R4	10,000 Ohms 2 Watt	60B20-103	C20b	30 Mfd., 350 Volts		Cable and Plug, Shielded.....	89A5-1
R5	22,000 Ohms 1/2 Watt	60B8-223	C20c	20 Mfd., 250 Volts		Cord, Dial (64" approx.).....	50A1-3
R6	10 Megohms 1/2 Watt	60B8-106	C21a	3-40 Mmfd. Trimmer	66A1-5	Drum, Dial.....	17A3
R7	1 Megohm 1/2 Watt	60B8-105	C21b	3-40 Mmfd. Trimmer	66A1-5	Escutcheon, Dial.....	21C7-1
R8	2 Megohms, Tone Control	75B1-5	C22a	3-40 Mmfd. Trimmer	66A1-5	Escutcheon, Switch.....	26A7-1
R9	27,000 Ohms 1/2 Watt	60B8-273	C22b	3-40 Mmfd. Trimmer	66A1-5	Knob, Tuning.....	33B9-1
R10	1 Megohm, Volume Control	75B2-1	C23a	3-40 Mmfd. Trimmer	66A1-5	Knob, SW, B.C., Phono.....	33B9-2
R11	Tapped at Approx. 500,000 ohms		C23b	3-40 Mmfd. Trimmer	66A1-5	Knob, Tone.....	33B9-3
R12	270,000 Ohms 1/2 Watt	60B8-274	C24	100 Mmfd., Mica	65B7-17	Knob, Volume.....	33B9-4
R13	470,000 Ohms 1/2 Watt	60B8-474	C26	1,200 Mmfd., Mica	65B5-34	Pin Tip, Antenna (Large).....	86A2-1
R14	1 Megohm 1/2 Watt	60B8-105	C27	100 Mmfd., Mica	65B7-17	Pin Tip, Antenna (Small).....	86A2-2
R15	390 Ohms 1 Watt	60B14-391	<b>TRANSFORMERS and COILS</b>			Plug, Speaker.....	88A4-4
R16	10 Megohms 1/2 Watt	60B8-106	Symbol	Description	Part No.	Plug, Phono Output.....	88A2-1
R17	100 Ohms 1/2 Watt	60B8-101	L1	Antenna, Loop	AC104	Pointer, Dial.....	25A3
R18	47,000 Ohms 1/2 Watt	60B8-473	L2	Coil, S.W. Antenna	AD116-1	Slug, B.C. Tuning—Specify color	71B1-3
R19	100,000 Ohms 1/2 Watt	60B8-104	L3	Coil, B.C. Antenna	AB100-2	code when ordering.....	
R20	270,000 Ohms 1/2 Watt	60B8-274	L4	Coil, B.C. R.F.	AB100-1	Slug, S.W. Tuning—Specify color	71B1-9
R22	100 Ohms 1/2 Watt	60B8-101	L5	Coil, S.W. R.F.	AD116-2	code when ordering.....	
<b>CONDENSERS</b>			L6	Coil, S.W. Oscillator	AD116-3	Socket, Dial Light.....	82A2-1
Symbol	Description	Part No.	L7	Coil, B.C. Oscillator	AC101-1	Socket, Speaker.....	87A6-1
C1	1,000 Mmfd., Mica	65B7-33	T1	Transformer, 1st I.F.	72B7	Speaker.....	78B7
C2	140 Mmfd., Silver Mica 3%	65B1-26	T2	Transformer, 2nd I.F.	72B8	Spring, Drum Tension.....	19B1-7
C3	25 Mmfd., Silver Mica 3%	65B1-28	T3	Transformer, Power	80B1	Stud, Slug adjusting.....	27A4
C4	100 Mmfd., Mica	65B7-17	T4	Transformer, Output	98B6-1	<b>PHONOGRAPH PARTS</b>	
C5	50 Mmfd., Mica	65B5-11	CH1	Choke, Filter	74A3	See Record Changer Service Manual for Detailed Parts List.	
C6	.05 Mfd., 400 Volts	6481-22	CH2	Choke, Oscillator Cathode	AB103-1	Description	Part No.
C7	65 Mmfd., Silver Mica 3%	65B1-27	<b>SWITCHES, PLUGS and SOCKETS</b>			Centerpost.....	G400A12
C8	420 Mmfd., Silver Mica 2%	65B1-13	Symbol	Description	Part No.	Crystal Cartridge.....	409A1
C10	20 Mmfd., Mica	65B7-5	S1	Socket, Phono	88A1	Idle Wheel (407B3 Motor).....	G400A23
C11	65 Mmfd., Silver Mica 3%	65B1-27	S2	Socket, Speaker	B7A6-1	Idle Wheel (407B2 Motor).....	G400A59
C12	200 Mmfd., Silver Mica 2%	65B1-14	S3	Socket and Cord, Phono Motor	89A6-3	Idle Wheel (407B1 Motor).....	G400A57
C13	.1 Mfd., 400 Volts	64B1-20	SW1	Switch, Antenna	76B1-3	Motor, 60 cycle 115 volt, A.C.	(Types 407B1 & 407B2 also used)....407B3
C14	250 Mmfd., Mica	65B7-22	SW2	Switch, Oscillator	76B1-2		
C15	1,000 Mmfd., Mica	65B7-33	SW3	Switch, R.F.	76B1-1		
C16	.02 Mfd., 400 Volts	6481-24	SW4	Switch (on-off) S.P.S.T.	77B1-44		
C17	.01 Mfd., 400 Volts, Condenser	6481-25					

### POINTER ADJUSTMENT

Move the dial pointer by means of the tuning control knob to see that it reaches the upper and lower limits as shown on the stringing diagram. In the upper limit position measure the distance D-E and in the lower limit position measure the distance A-B. The distance from A and B must be the same as the distance from D to E. If these distances are not equal, unclamp and move the pointer slide on the string until they are the same. The pointer should be checked again at the upper and lower limit to be sure that it is right. Take care to see that the pointer does not slip during this operation. Reclamp the pointer slide tightly to the string and seal with any quick-drying cement. Set the tuning gang wide open and proceed with operation 3.

### REPLACING TUNING SLUG

If it becomes necessary to change a tuning slug proceed in the following manner: Set the gang to its wide open position, unsolder and remove the old slug. Set the slug adjusting screw about half way down. Place the new slug in such a position that 1 3/8 inches of its length is above the coil form. Solder it in this position making sure that it does not slip during the operation and that the slug wire is straight. Proceed to realign the set as shown in the chart.

### STRINGING DIAGRAM

### VOLTAGE CHART

