

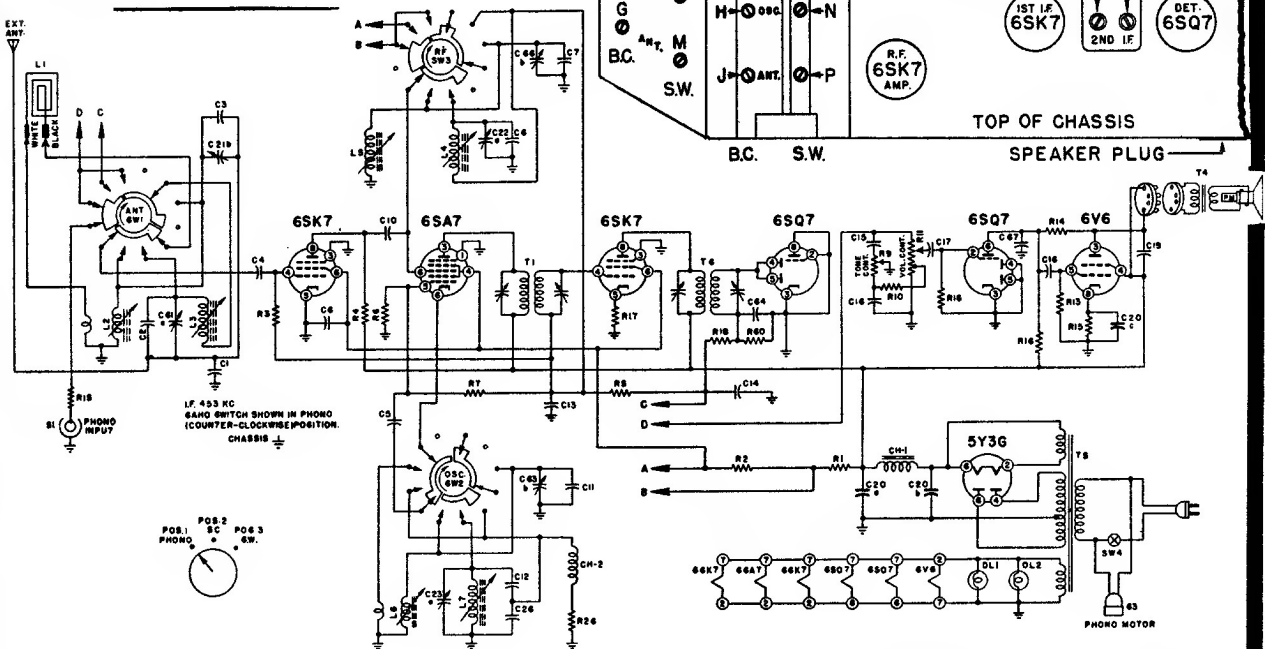
# ALIGNMENT PROCEDURE

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



### REPLACEMENT PARTS

Symbol	Description	Part No.
R1	12,000 Ohms 5 Watt	61A1-1
R2	150,000 Ohms 1/2 Watt	6088-154
R3	470,000 Ohms 1/2 Watt	6088-474
R4	10,000 Ohms 2 Watt	60820-103
R6	22,000 Ohms 1/2 Watt	6088-223
R7	10 Megohms 1/2 Watt	6088-106
R8	1 Megohm 1/2 Watt	6088-105
R9	2 Megohms, Tone Control	7581-5
R10	27,000 Ohms 1/2 Watt	6088-273
R11	1 Megohm, Volume Control Tapped at Approx. 500,000 ohms	7582-1
R12	270,000 Ohms 1/2 Watt	6088-274
R13	470,000 Ohms 1/2 Watt	6088-474
R14	1 Megohm 1/2 Watt	6088-105
R15	390 Ohms 1 Watt	60814-391
R16	10 Megohms 1/2 Watt	6088-106
R17	100 Ohms 1/2 Watt	6088-101
R18	47,000 Ohms 1/2 Watt	6088-473
R19	100,000 Ohms 1/2 Watt	6088-104
R20	270,000 Ohms 1/2 Watt	6088-274
R22	100 Ohms 1/2 Watt	6088-101

Symbol	Description	Part No.
C1	1,000 Mmfd., Mica	6587-33
C2	140 Mmfd., Silver Mica 3%	6581-26
C3	25 Mmfd., Silver Mica 3%	6581-28
C4	100 Mmfd., Mica	6585-11
C5	50 Mmfd., Mica	6481-22
C6	.05 Mfd., 400 Volts	6581-27
C7	65 Mmfd., Silver Mica 3%	6581-13
C8	420 Mmfd., Silver Mica 2%	6587-5
C10	20 Mmfd., Mica	6581-27
C11	65 Mmfd., Silver Mica 3%	6581-14
C12	200 Mmfd., Silver Mica 2%	6481-20
C13	.1 Mfd., 400 Volts	6587-22
C14	250 Mmfd., Mica	6587-33
C15	1,000 Mmfd., Mica	6481-24
C16	.02 Mfd., 400 Volts	6481-25
C17	.01 Mfd., 400 Volts, Condenser	6481-25

Symbol	Description	Part No.
C18	.01 Mfd., 400 Volts, Condenser	6481-25
C19	.01 Mfd., 600 Volts, Condenser	6481-10
C20a	30 Mfd., 350 Volts	67C6-25
C20b	30 Mfd., 350 Volts	
C20c	30 Mfd., 25 Volts	
C21a	4-40 Mmfd. Trimmer	66A1-5
C21b	3-40 Mmfd. Trimmer	66A1-5
C22a	3-40 Mmfd. Trimmer	66A1-5
C22b	3-40 Mmfd. Trimmer	66A1-5
C23a	3-40 Mmfd. Trimmer	66A1-5
C23b	3-40 Mmfd. Trimmer	66A1-5
C24	100 Mmfd., Mica	6587-17
C26	1,200 Mmfd., Mica	6585-34
C27	100 Mmfd., Mica	6587-17

### TRANSFORMERS and COILS

Symbol	Description	Part No.
L1	Antenna, Loop	AC104
L2	Coil, S.W. Antenna	AD116-1
L3	Coil, B.C. Antenna	AB100-2
L4	Coil, B.C. R.F.	AB100-1
L5	Coil, S.W. R.F.	AD116-2
L6	Coil, S.W. Oscillator	AD116-3
L7	Coil, B.C. Oscillator	AC101-1
T1	Transformer, 1st I.F.	72B7
T2	Transformer, 2nd I.F.	72B8
T3	Transformer, Power	80B1
T4	Transformer, Output	98B6-1
CH1	Choke, Filter	74A3
CM2	Choke, Oscillator Cathode	AB103-1

### SWITCHES, PLUGS and SOCKETS

Symbol	Description	Part No.
S1	Socket, Phono	B8A1
S2	Socket, Speaker	B7A6-1
S3	Socket and Cord, Phono Motor	89A6-3
SW1	Switch, Antenna	76B1-3
SW2	Switch, Oscillator	76B1-2
SW3	Switch, R.F.	76B1-1
SW4	Switch (on-off) S.P.S.T.	77B1-44

Description	Part No.
Background, Dial.....	22B7-1
Bulb, Pilot Light No. 47.....	81A1-8
Button (For Phono switch button).....	33A8-1
Cable and Plug, Shielded.....	89A5-1
Cord, Dial (64" approx.).....	50A1-3
Drum, Dial.....	17A3
Escutcheon, Dial.....	21C7-1
Escutcheon, Switch.....	26A7-1
Knob, Tuning.....	33B9-1
Knob, SW, B.C., Phono.....	33B9-2
Knob, Tone.....	33B9-3
Knob, Volume.....	33B9-4
Pin Tip, Antenna (Large).....	86A2-1
Pin Tip, Antenna (Small).....	86A2-2
Plug, Speaker.....	88A4-4
Plug, Phono Output.....	88A2-1
Pointer, Dial.....	25A3
Slug, B.C. Tuning—Specify color code when ordering.....	71B1-3
Slug, S.W. Tuning—Specify color code when ordering.....	71B1-9
Socket, Dial Light.....	82A2-1
Socket, Speaker.....	87A6-1
Speaker.....	78B7
Spring, Drum Tension.....	19B1-7
Stud, Slug adjusting.....	27A4

### PHONOGRAPH PARTS

See Record Changer Service Manual for Detailed Parts List.

Description	Part No.
Centerpost.....	G400A12
Crystal Cartridge.....	409A1
Idler Wheel (407B3 Motor).....	G400A23
Idler Wheel (407B2 Motor).....	G400A59
Idler Wheel (407B1 Motor).....	G400A57
Motor, 60 cycle 115 volt, A.C. (Types 407B1 & 407B2 also used)....	407B3

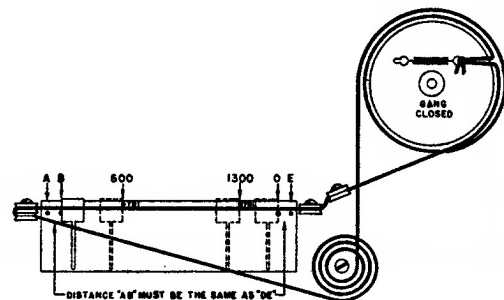
### POINTER ADJUSTMENT

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.

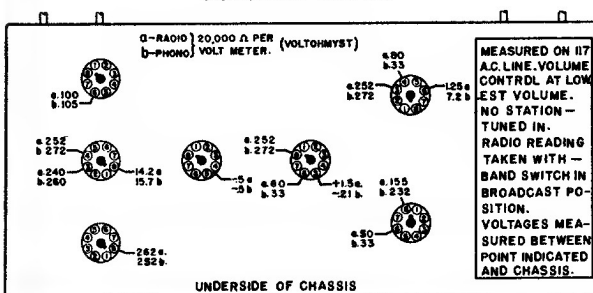
### REPLACING TUNING SLUG

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



UNDERSIDE OF CHASSIS