

	В	elmont Radio Corp. Mod	el 6D121 Series A		Page 2 of 4	
Part No.	Schematic Symbol	Description	Part No.	Schematic Symbol	Description	
	CON	DENSERS				
C-8D-10953	C17	.15 MFD x 400 volts.	115146		Cams	
C-8D-10778	Č1, C15	.002 x 600 volts, +40%, -15%	115143 117528		Key washer (13 used on cam shaft)	
G-8F3-12	Č3	.470 mmfd., mica, ±20%	111020		Brass spacer (one used on cam shaft)	
C-3D-10760	C4	.1 x 400 volts, +20%	117602		Brass spacer (four used on cam	
C-8D-10775	C5	.25 x 200 volts, ±20%	104404		shaft)	
C-8F3-8 11994 or	C6, C8, C19	.001, mica, ±20%	131181		Spring washers, for locking collar	
A-8C-10077	C9, C10, C11	Electrolytic (for 50-60-cycle set 40 mfd. x 150 volts, 20 mfd. x 1	s), 117604 (50 117600		LOCKING COHAY	
		volts, 20 mfd, x 150 volts.	115361		Level shaft Lever with roller	
C-8D-10770	C12	.05 x 200 volts, ±20%	120283		Return spring for levers	
129161	C13, C14	Dual .0001, mica, ±10%	115449B		Dial bracket assembly	
C-8D-10774 C-8D-10778	C16 C18	.02 x 400 volts, ±20% .004 x 600 volts, ±20%	112785 A-53A-10989		l'ointer	
C 01 19110	0.0	1001 A 000 FOILS, 22070	A-49A-11087		Drive cord, 6 inches used	
	RE:	SISTORS	A-3N-11086		Spring on tuning shaft, for cord Spacer under above spring	
C-9B1-13	R1	1000 ohms, 1/2 watt, ±20%	120143 B. CD. 10844		Take-up spring for drive cord	
C-9B1-31	R2	1 megohm, ½ watt. ±20%	B-6D-10241 112-659-1		Pat scale	
C-9B1-50	R3	1 megohm, ½ watt, ±20% 100 ohms, ½ watt, ±10%	A-2M-7758		Crystal, clear, for dial scale	
C-9B1-26 C-9B1-42	R4 R5	150,000 onms, ½ watt. ±20票			Cinch buttons for fastening scale to bracket	
C-9B1-70	R6	22 ohms, ½ watt, ±10% 4700 ohms, ½ watt, ±10%	117833		Brass spacer (for spacing pointer	
C-9B1+25	R7	100,000 ohms, 1/2 watt, ±20%			from dial)	
C-9B1-23	R8, R14	100,000 ohms, 1/2 watt, ±20% 47,000 ohms, 1/2 watt, ±20%		MISC	ELLANEOUS	
C-9B2-53 C-9B2-63	R9 R10	180 ohms, 1 watt, ±10% 1200 ohms, 1 watt, ±10%	10798	MI I J C		
C-9B1-34	Řĺĺ	3.3 merohms, ½ watt, ±20%	101218 or	R15, S1	Line cord and plug	
C-9B1-52	R12, R13	150 ohms, ½ watt. ±10%	A-10A-10626)	Volume control and switch,	
C-9B1-29	R16	170,000 ohms, ½ watt, ±20%	B-8A-10211	C, C2, C7	² -gang variable condenser	
C-9B1-27 C-9B1-35	R17 R18	220,000 ohms, ½ watt, ±20%	107249 134123	Pl	Filot light bulb, type T-47	
Č-9B2-44	R19	4.7 megohms, ½ watt, ±20% 30 ohms, 1 watt, ±10%	B-23J-11464		Rupper humber, (bottom of cabinet)	
			A-2M-10096		Cardboard back (specify color)	
		COILS	16141		w capmet (4 usen)	
C-212-11565	TI	Loop antenna assembly, comple	13141 te		Cinch buttons, to cover trimmer	
A-13D-10215	7716	on back	B-5B-11463-8		holes in cabinet Pushbuttons (6 used)	
108140H or	T2 T3	Oscillator coil Input I.F. coil in can, 455 Ke.	A-23L-11900		Station call letters, set	
B-13A-1202		input i.r. con in can, 455 Kc.	A-6C-11899 5C-11228-9		Acetate tabs for call letters	
108145 or	T ∮	Output I.F. coil in can, 455 Kc.	128-686-8		Cabinet, bakelite, ivory color	
B-13B-12023 (See note on	05		A-5B-10994-9		Knob, volume, ivory color Knob, tuning, ivory color	
(500 11000 011	թութ Մ/ Cou	rtesy of nucow.com	A-8F-10995 120388		Locking screw for tuning knob.	
	S (CKETS	A-2H-10996		100cking spring for tuning knob	
121210		8-prong octal tube sockets, molded			Reset key	
121171		8-prong socket for 12SK7, laminate	u			
121216		Socket base, bakelite Pilot light socket assembly				
167271 or		ngm sooket assembly	NOTE: On son	ne sets slug	tuned IF.s are used instead of	
A-47A-1147	0		trimmer tuned	L-F.s. 108	-140H and 108-145 are trimmer	
	1 400		tuned, B-13A-19	2023 and R-1	3B-12022 are slug tuned. The slug	
at her		EAKER	tuned 1.Re and	tuned from	the top and bottom (secondary	
114197	T6	5-inch P.M. speaker				
105104	T5	Output transformer for speaker	on top, primary			
			Silic funed F	e gannat ha	wood to ambatitute trimmer Lung J	

tuned L-F.s.

DIAL PARTS

End plate (right hand bracket) End plate (left hand bracket)

115448 115448C

Slug tuned I.-F.s cannot be used to substitute trimmer tuned I.-F.s but trimmer tuned I. F.s can be used to substitute slug

Belmont Radio Corp. Model 6D121 Series A

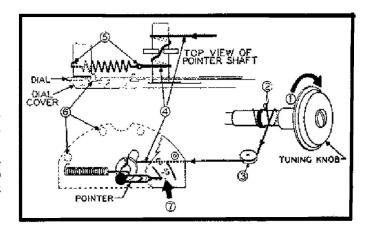
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REPLACING DIAL POINTER DRIVE CORD

Six inches of cord are required in the set. Use a piece slightly longer so that knots may be tied at each end. Numbers below correspond to circled numbers in diagram.

- 1. Rotate tuning knob to extreme clockwise position. This closes tuning condenser. Knob should remain in this position until installation is completed.
- 2. Tie cord to loop in spring as shown. Wind cord one turn around shaft in direction shown.
 - 3. Pass cord over idler pulley.
- 4. Pass cord over pointer shaft; wind it one turn around shaft; pass it through key washer; wind it one more turn around shaft.
- 5. Hook spring over end of dial support. Tie cord to spring. IMPORTANT: Before tying knot stretch spring enough so that full contraction of spring will rotate pointer shaft at least one-half turn.
 - 6. Remove dial crystal by removing Cinch buttons.

7. Make sure tuning knob is in extreme clockwise position. Then rotate pointer clockwise, against friction of shaft, until it is in horizontal position, as shown.

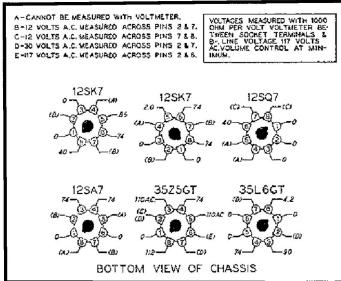


ALIGNMENT PROCEDURE

- No aligning adjustments should be attempted until all other possible causes of trouble have been checked.
 Chassis must be removed from cabinet for proper alignment. Slight adjustments of the oscillator and antenna circuits can be made, without removing the chassis, through two holes provided on the bottom of the cabinet. The two adjustment screws can be reached with a long insulated screwdriver.
 It is improved that during all the long agreement.
- · It is important that during alignment the loop antenna
- be maintained at the same distance from the chassis as when the chassis is installed in the cabinet. Turn volume control to maximum for all adjustments. Connect ground post of signal generator to $B \longrightarrow of$ radio through a 0.1 mfd, conlenser. Connect dummy antenna value in series with generators of the control of the con
- ator output lead. Connect output meter across primary of output transformer.

3						
Dand	Signal Generator Frequency Setting	l'hiramy Antenna	Connection to Radio	Tuning Condenser Setting	Adjust for Maximum Output (see chassis view)	
I.F.	455 Ke.	0.1 mfd.	Grid of 12SA7	Rotor full open (plates out of mesh)	4 trimmers on input and output I.F. transformers (See note on page 3)	
Courtesy of nucow.co	m 1650 Kc.	0.1 mfd.	Grid of 128A7	Rotor full open (plates out of mesh)	Oscillator trimmer C7 on bottom of radio	
Broadcast	1400 Kc.	None	See note A	Set dial at 1400 Kc.	Antenna trimmer C2 on bottom of radio	

Turn up generator output. Loop antenna will pick up energy. Note A: Lay output lead of generator in back of loop antenna.



Ø Ø 0 455 4.0 COÍSIDE ANTENNA CUP

VOLTAGES AT TUBE SOCKET TERMINALS

CHASSIS VIEW, SHOWING TUBE LOCATIONS

NOTE ON TUBE REPLACEMENT

Replace a defective metal 125K7 tube with another metal tube. Replace a glass 125K7 tube with either a metal tube or with an exact duplicate of the tube now in the set.

SETTING THE PUSHBUTTONS

The pushbuttons may be used, after proper adjustment, for the automatic tuning of any six stations which you select. They can be set up in any order.

1. Turn on the radio. Allow it to warm up for at least one minute.

2. Push out the call letters of the six stations from the call-letter sheets supplied with this manual.

3. Insert one call-letter tab in the rectangular opening in each of the pushbuttons, in any sequence. Press an acetate tab (supplied in small envelope) into each of the pushbuttons.

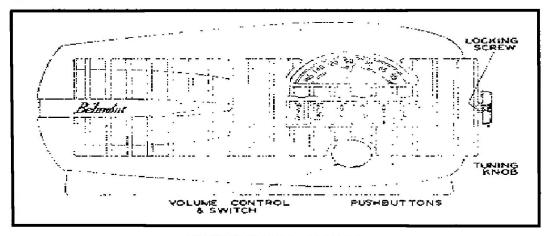
4. With the screwdriver supplied, check to see that the locking screw in the center of the tuning knob (see illustration) is loose. If it is not, turn it several turns to the left (counterclockwise). Courtesy of nucow.com

5. Press the first pushbutton down all the way. With one hand held the button down firmly and with the other carefully tune in the desired station. Release the pushbutton.

6. Follow this procedure for each of the five other buttons, adjusting each one for a different station.

7. Rotate the tuning knob on the side of the cabinet as far to the right as it will go. Tighten the locking screw in the center of the knob. IT IS IMPORTANT THAT THIS SCREW BE TIGHTENED VERY FIRMLY.

8. The pushbuttons are now properly set for automatic tuning. Any of the six stations may now be tuned in simply by pressing the proper button down as far as it will go. If it is desired to reset any of the buttons for a new station, loosen the locking screw in the center of the tuning knob, set the pushbutton as described above, and re-tighten the locking screw.



TECHNICAL DATA

Tuning range	530	to	1650	Kc.
Intermediate frequency				
Power consumption			35 W	atts
Sensitivity (for 0.05 watt				
output)	13 micro	volt	s aver	age
Selectivity55 Kc. broad at 1000	D x signo	al cat	1000	Kc.
Power output (in voice coil)				
Undistorted			0.8	watt
Maximum			1.0	watt
Voice coil impedance			.3.2 c	hms