

Service Data

MODEL CB-3 *Littlephone*

SPECIFICATIONS

Transmitter Power Input	5 watts	Output Circuit	50-ohm link
Frequency Range	26.965 MC to 27.255 MC	T.V.I. Suppression	2nd Harmonic (54 MC) series tuned trap, 50 DB minimum.
Receiver Sensitivity	Less than 1 microvolt for a 10-DB signal-to-noise ratio	Power Requirements (Transmit)	
Receiver Audio Power Output	2-1/2 watts	115 VAC, 60 cycle	48 watts
Transmitting Crystals	3rd overtone CR-23/U, ±0.005% tolerance	12 volts DC	4.5 ampere
Receiving Crystals	As in transmitter excepting 1650 KC higher in frequency	Size (HxWxD)	5-1/2 x 12 x 8 inches
		Weight	12-1/2 pounds
		Shipping Weight	15-1/2 pounds

CHASSIS REMOVAL

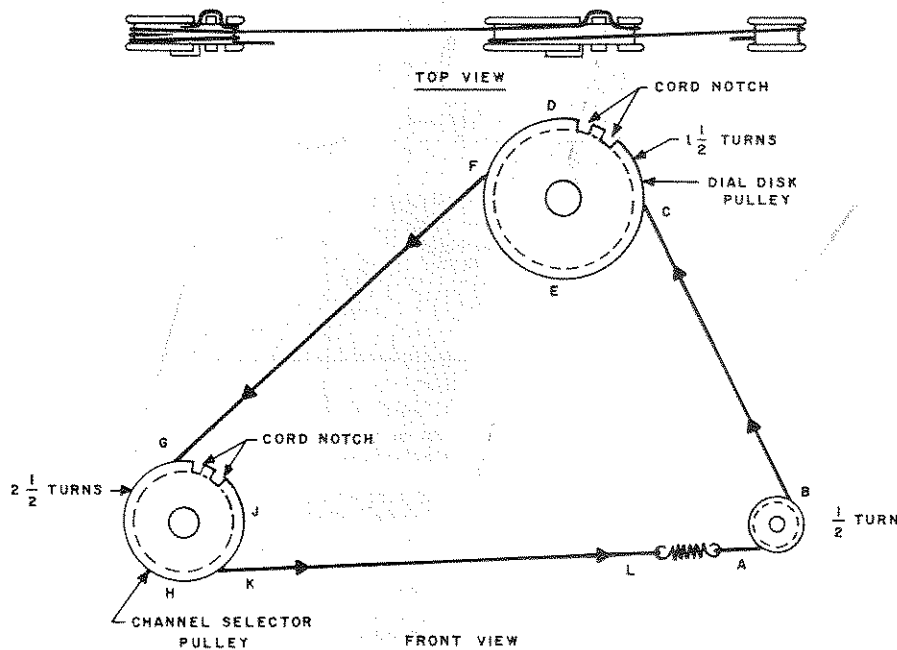
Completely remove top cover. Remove knobs and six screws on underside of cabinet. Slide chassis out of bottom cover.

DIAL CORD RESTRINGING

In order to restring the dial assembly, it is required that the front of the chassis be completely exposed. Also remove the dial disc (1 screw) to expose the pulley.

Refer to figure 1. Follow the arrows and letter sequence to string the dial cord.

The dial cord spring should be expanded 1/8 inch to 1/4 inch. The cord is raised with a pointed tool and placed into pulley notches after stringing to lock cord to pulleys. Replace dial disc so that the letter A will align with window opening in panel. Replace all parts and hardware to original positions.



NOTE: CHANNEL SELECTOR SWITCH IN COUNTERCLOCKWISE POSITION

092-012520

Figure 1. Dial Cord Stringing Diagram.

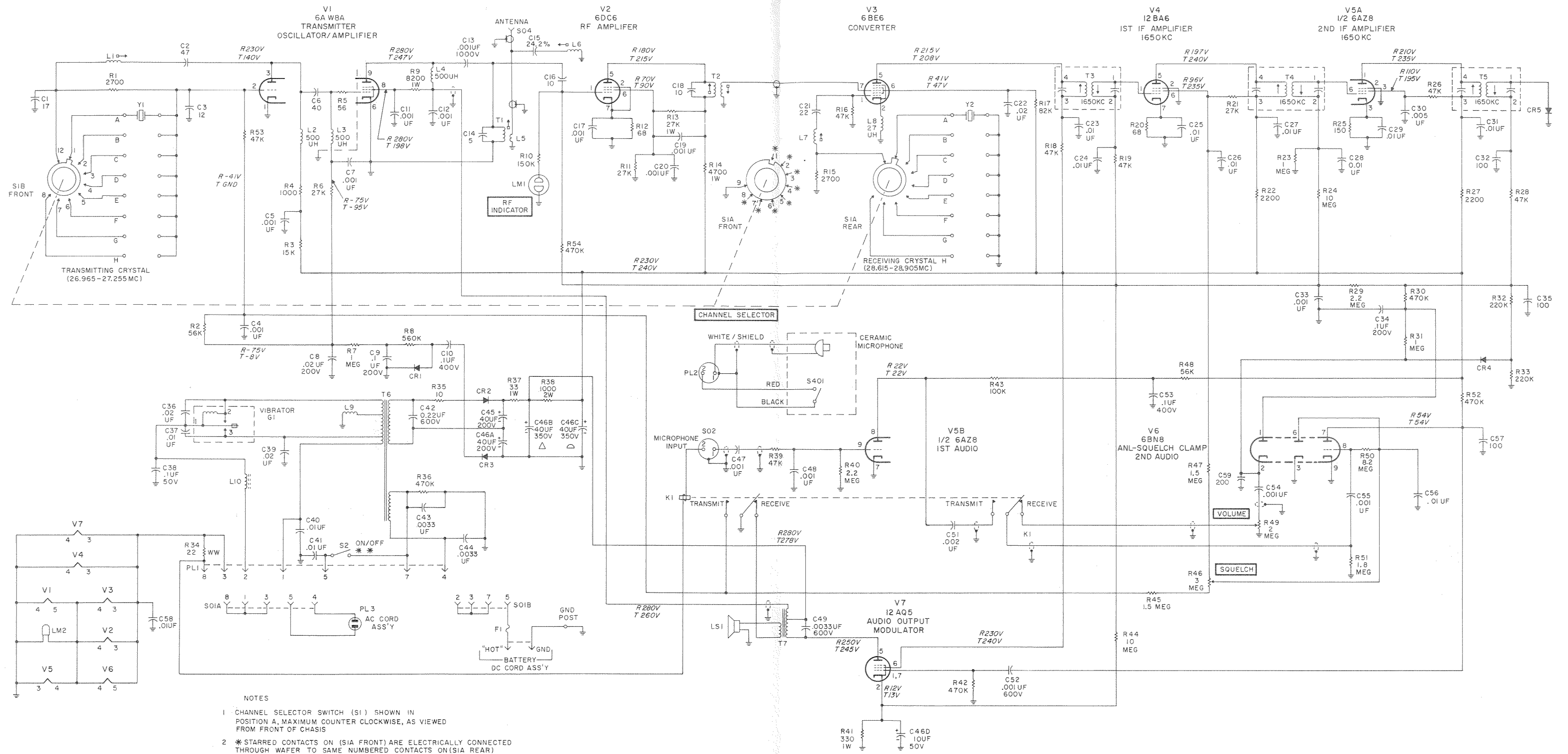


Figure 2. Schematic Diagram.

PARTS LIST

Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number	Schematic Symbol	Description	Hallicrafters Part Number
CAPACITORS			*RESISTORS (CONT)			TUBES, LAMPS, AND SOCKETS (CONT)		
C1	17 uuf, 2%, 300V, Duramica	481-131170	R8	560K ohm	451-252564	V6	6BN8 ANL, Squelch Clamp, 2nd Audio	090-001465
C2	47 uuf, 2%, 500V, Duramica	481-151470	R9	8.2K ohm, 5%, 1W	451-351822	V7	12AQ5 Audio Output, Modulator	090-001432
C3	12 uuf, 2%, 300V, Duramica	481-131120	R10	150K ohm	451-252154		Socket, Crystal	006-100320
C4,5,7,11,12,17,19,20,33,47,48,54,55	.001 uf, 500V, GMV, Ceramic Disc	047-200230	R12,20	68 ohm	451-252680		Socket, Dial Light Assembly	086-000593
C6	40 uuf, 2%, 300V, Duramica	481-151400	R13	27K ohm, 1W	451-352331		Socket, Tube (7 pin min.) (V2, V4, V7)	006-000886
C8	.02 uf, 20%, 200V, Molded Paper	499-014203	R14	4.7K ohm, 1W	451-352472		Socket, Tube (9 pin min.) (V5, V6)	006-000888
C9,34	0.1 uf, 20%, 200V, Molded Paper	499-014104	R16,18,19,26,39,53	47K ohm	451-252473		Socket, Tube (7 pin min. mica) (V3)	006-200492
C10,53	0.1 uf, 20%, 400V, Molded Paper	499-024104	R17	82K ohm	451-252823		Socket, Tube (9 pin min. mica) (V1)	006-000887
C13	.001 uf, 20%, 1000V, Ceramic Disc	047-101172	R22,27	2.2K ohm	451-252222			
C14	5 uuf, ±0.5 uuf, N750, Ceramic Tubular	491-102050-95	R24,44	10 megohm	451-252106			
C15	24 uuf, 2%, 500V, Duramica	482-151240	R25	150 ohm	451-252150			
C16,18	10 uuf, ±0.5 uuf, N750, Ceramic Tubular	491-102100-95	R28	47K ohm	451-252473			
C21	22 uuf, 2%, 300V, Duramica	481-151220	R29,40	2.2 megohm	451-252225			
C22,36,39	.02 uf, +80%, -20%, 500V, Ceramic Disc	047-100242	R30,36,42,52,54	470K ohm	451-252474			
C23,24,25,26,27,28,29,31,37,56	.01 uf, +80%, -20%, 500V, Ceramic Disc	047-100224	R32,33	220K ohm	451-252224			
C30	.005 uf, 500V, GMV, Ceramic Disc	047-100168	R34	22 ohm, 5W, wire wound	024-001328-02	MISCELLANEOUS		
C32	100 uuf, 20%, N750, Ceramic Tubular	491-127101-95	R35	10 ohm	451-252100	Baffle, Speaker	012-000160	
C38	.01 uf, +80%, -20%, 500V, Ceramic Disc	047-001146	R37	33 ohm, 1W	451-352330	Cabinet Assembly (Complete)	150-003365	
C40,58	.01 uf, 20%, 500V, Ceramic Disc	047-100354	R38	1K ohm, 2W	451-652102	Cabinet Bottom Rivet Assembly	150-003424	
C41	.01 uf, 1400 VDC, 150 VAC, GMV, Ceramic Disc	047-001618	R41	330 ohm, 1W	451-352331	Cable Assembly, AC	087-006174	
C42	.22 uf, 20%, 600V, Molded Paper	499-034224	R43	100K ohm	451-252104	Cable Assembly, DC	087-006188	
C43,44	.0033 uf, 1400 VDC, GMV, Ceramic Disc	047-001618	R45,47	1.5 megohm	451-252155	Clip, Transformer Mounting	076-100385	
C45	40 uf, 200V, Electrolytic	045-000633	R46	3 megohm, Variable, SQUELCH	025-002047	Connector, Coaxial (Antenna)	010-100056	
C46A,B,C,D	40 uf @ 200V, 2 x 40 uf @ 350V, 10 uf @ 50V, Electrolytic	045-000632	R49	2 megohm, Variable, VOLUME	025-102217	Connector, Microphone	010-101569	
C49	.0033 uf, 20%, 600V, Molded Paper	499-034332	R50	8.2 megohm	451-252825	Core, Iron (Transformer)	077-100068	
C51	.002 uf, 20%, 600V, Molded Paper	499-034202	R51	1.8 megohm	451-252185	Cover, Relay Dust Shield	066-003346	
C52	.001 uf, 20%, 600V, Molded Paper	499-034102	*All Resistors are 10%, 1/2 watt, carbon type, unless otherwise specified.			S04	Crystal, Receiving	019-002819
C59	200 uuf, 20%, N750, Ceramic Tubular	491-127201-95	COILS AND TRANSFORMERS			S02	Crystal, Transmitting	019-002820
						Y2	Detent, Bandswitch	061-000034
						Y1	Dial Cord	038-100049
							Dial Scale	083-000943
						CR4	Diode, Type 1N128	019-002718
						CR5	Diode, Type 1N34A	019-101918
							Foot, Mounting	016-101076
						F1	Fuse, 5 ampere	039-100322
							Fuseholder	006-000883
							Handle Assembly	150-003500
							Holder, Microphone	076-003277
							Knob, Channel Selector	015-001683
							Knob, Squelch	015-001678
							Knob, Volume	015-001680
							Latch, Cabinet Bottom	030-000777-1
							Latch, Cabinet Top	030-000777-2
							Microphone	081-000111
							Panel, Front	068-001243
							Pulley	028-000457
						CR1	Rectifier, Selenium	027-000284
						CR2,3	Rectifier, Silicon	027-000296
						K1	Relay, DPDT, 12 VAC Coil	021-000511
							Rubber Bumper, (Handle)	016-001518
							Shield, Pilot Light	086-100037
							Shield, Tube	069-200710
						LS1	Speaker	085-000206
							Spring, Dial Cord	075-000854
						G1	Vibrator (12V)	027-000282
						S1A	Wafer, Switch (Receiver)	062-000194
						S1B	Wafer, Switch (Transmitter)	062-000193
							Washer, Hinge Cushion (Flat Rubber)	004-002533
R1,15	2.7K ohm	451-252272	LM1	Indicator Light	039-000680			
R2,48	56K ohm	451-252563	LM2	Pilot Lamp (# 47)	039-100004			
R3	15K ohm	451-252153	V1	6AW8A Transmitter Oscillator and Amplifier	090-901103			
R4	1K ohm	451-252102	V2	6DC6 RF Amplifier	090-901328			
R5	56 ohm	451-252560	V3	6BE6 Converter	090-901124			
R6,11,21	27K ohm	451-252273	V4	12BA6 1st IF Amplifier	090-900039			
R7,23,31	1 megohm	451-252105	V5	6AZ8 1st Audio and 2nd IF Amplifier	090-901417			