BEFORE IF – IF and AFTER IF.

Table (5-10), RECEIVER INJECTION VOLTAGES, shows that the proper signal level to inject at the base of Q3 – the 1st IF AMP – to produce a 2 VAC signal at the speaker is 455 KHz @ 300 uV through a .01 MFD capacitor. If the signal appears at the speaker, the problem is in the RF amplifier. Divide this and continue until the trouble is found.

This technique is sometimes called "partitioning," "boxing-in-the-trouble," "divide and conquer," or "binary search"; it is mandatory for complex electronic systems, but can save time and energy on almost any electronic device.

A blown fuse should only be replaced by one of the proper rating and type. If the fuse blows again, replace it, but place an ohm meter at the power terminals in place of the supply. Make certain that the + side of the ohm meter is connected to the red power wire of the SBE-34CB. Some VOM's place the - side of the ohm meter out the red test jack. Observe that D13 protects the unit from a reversed supply. The push-to-talk, and PA/CB switch can be used to start isolating the short.

A fuse may blow only when the unit is connected in a vehicle because the vehicle has a positive ground and there is a short from the PCB ground to the chassis, or a grounded speaker was plugged into EXT SP J2.

The second harmonic trap (L20 and C91) is adjusted at the Factory; field adjustment should not be attempted without proper equipment. Failure of particular channels to work or be on frequency probably indicates a defective crystal. Refer to Table (5-3) SYNTHESIZER MIXING SCHEME. Notice that the same Transmit and Receive crystals are used every fourth channel while each Master crystal is used on four adjacent channels. Check channel selector switch, S1, by swapping crystals.

FIG. 5-2 RECOMMENDED TEST INSTRUMENTS

TEST INSTRUMENT	REQUIRED SPECIFICATIONS	USE	RECOMMENDED INSTRUMENT TYPE
R.F. Signal Generator	Output frequency: 26.965 to 27.255 MHz. Output level calibrated from .1 microvolts to 500,000 microvolts. Internal modulation capability of 30% minimum at 1 KHz. (Calibrated)	Receiver service and alignment.	Hewlett-Packard Model 606A or B. Wavetek Model 3000.
Oscilloscope	Vertical bandwidth of 25 MHz or greater at 3db point. Triggered sweep capability.	Transmitter and receiver test and alignment.	Tektronics Model T932. Tektronics Model 465. Hewlett-Packard Model 180. Phillips Model PM3260E.
Frequency Counter	Frequency range DC to 30 MHz. Sensitivity: 10mv R.M.S. at 30 MHz. Overall timebase accuracy ±.002%, 6 digit resolution.	Transmitter frequency check and synthesizer troubleshooting.	Heath-Schlumburger Model SM118A
Wattmeter	5 watts full scale into 50 ohm load ±5% accuracy.	Measure power output and S.W.R.	Bird Model 43 with type 5A element. (May be terminated with antenna load
AC VTVM	-40 to +20db range.	Measure audio output.	Heath Model IM-21.
Audio Oscillator	400 Hz to 4000 Hz output: Adjustable level, 0-1 volt output impedence 600 ohm.	Audio and modulator tests.	Hewlett-Packard Model 204C. Heath Model SG18A.
DC Power Supply	13.8 volt DC ±10% at 2 amperes.	Primary supply voltage for servicing.	Heath Model SP2720 (SBE Model SBE-1AC may be used if available.)

TABLE 5-3 SBE-34CB BRUTE

SYNTHESIZER MIXING SCHEME

Synthesizer Alignment

CH	CHANNEL FREQUENCY	MASTER OSC XTAL FREQ.	TX OSC XTAL FREQ.	RX OSC XTAL FREQ.
1	26.965		X7 = 10.635	X11 = 10.180
2	26.975	X1 = 37.600	X8 = 10.625	X12 = 10.170
3	26.985		X9 = 10.615	X13 = 10.160
4	27.005		X10 = 10.595	X14 = 10.140
5	27.015		X7	X11
6	27.025	X2 = 37.650	X8	X12
7	27.035		X9	X13
8	27.055		X10	X14
9	27.065		X7	X11
10	27.075	X3 = 37.700	X8	X12
11	27.085		X9	X13
12	27.105		X10	X14
13	27.115		X7	X11
14	27.125	X4 = 37.750	X8	X12
15	27.135		X9	X13
16	27.155		X10	X14
17	27.165		X7	X11
18	27.175	X5 = 37.800	X8	X12
19	27.185		X9	X13
20	27.205		X10	X14
21	27.215		X7	X11
22	27.225	X6 = 37.850	X8	X12
23	27.255		X10	X14

TABLE 5-4 AGC VOLTAGES versus RF INPUT LEVEL

INPUT LEVEL (1)	AGC VOLTAGES (2)
1uV	+1.35
10uV	+0.97
100uV	+0.80
1000uV	+0.70
10,000uV	+0.64

(1) Channel Frequency at Antenna Jack.

(2) Measured with 10MΩ input.

FIG. 5-5 TRANSMITTER TEST CONNECTION

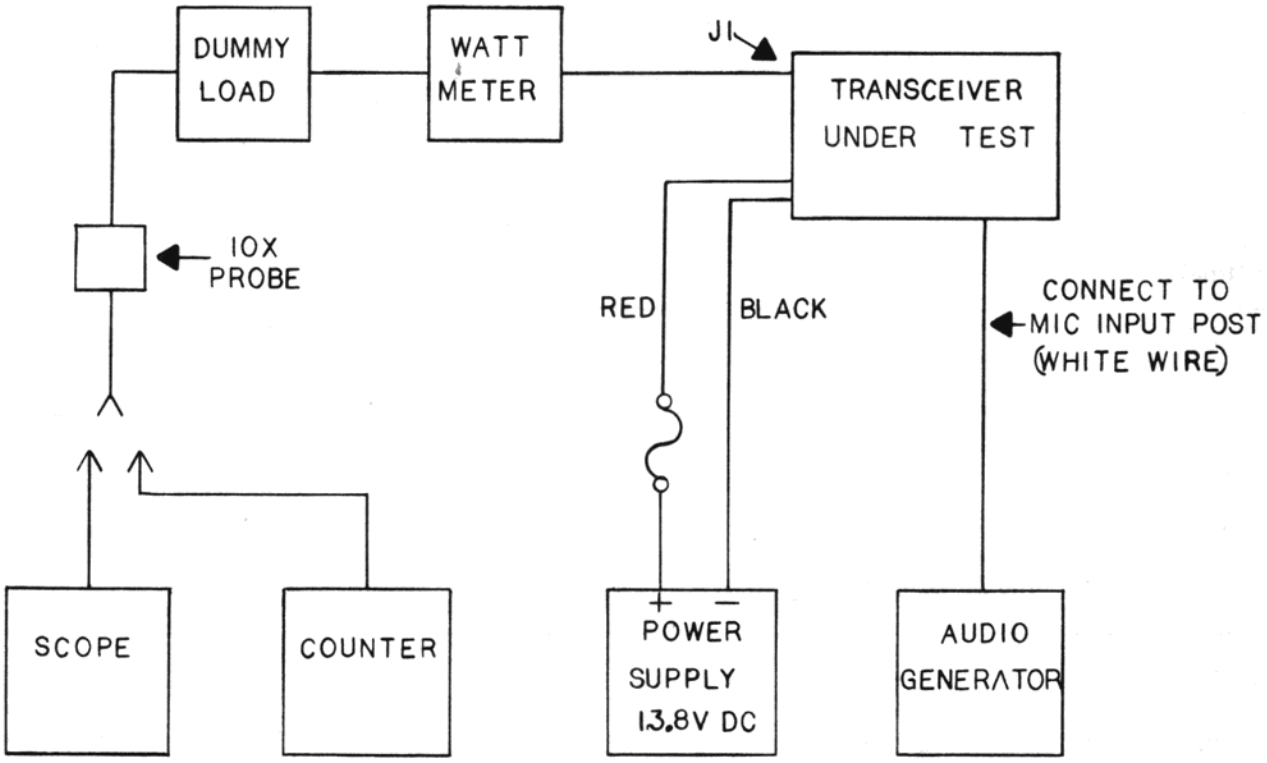


FIG. 5-6 RECEIVER TEST CONNECTION

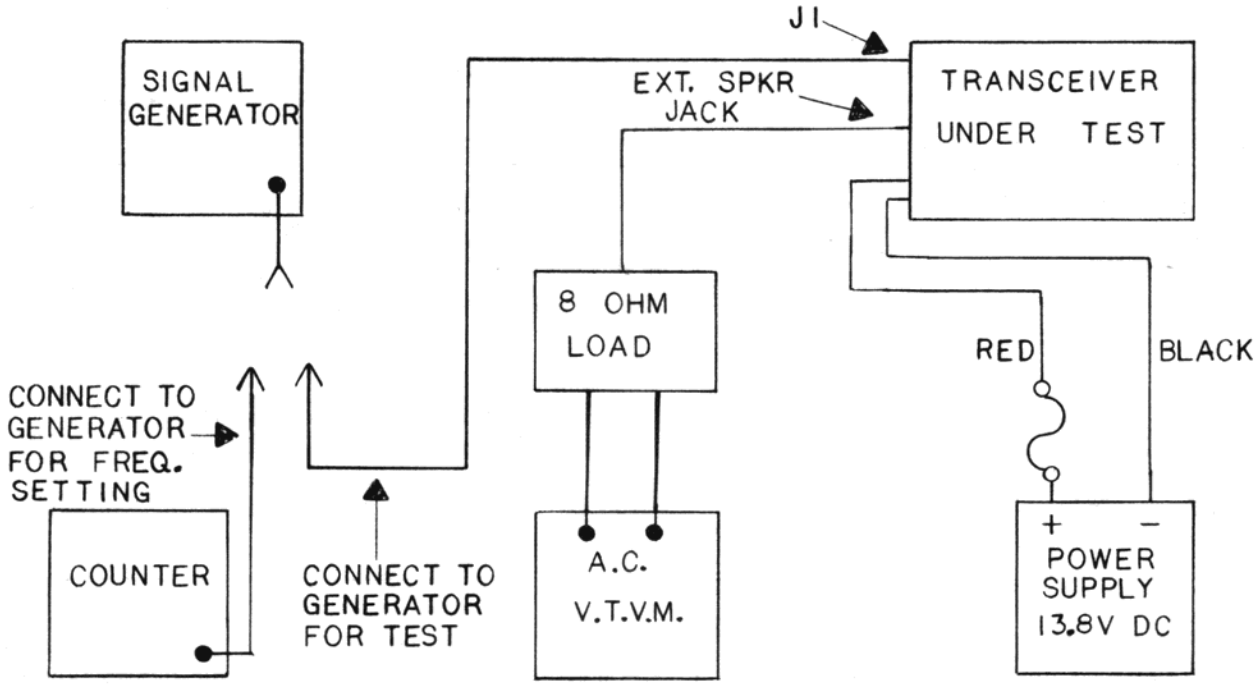


FIG. 5-7 TRANSMITTER ALIGNMENT PROCEDURE

INITIAL SET-UP
Connect the SBE-34CB transceiver to a 13.8 VDC supply. Connect an audio oscillator to the MIC input, a wattmeter and dummy load to the antenna jack, an oscilloscope to the dummy load, and set the channel selector to channel 11. (See Figure 5-5.)
STEP 1 With no modulation, key the transmitter and adjust L6, L10, L11, L13, L14, and L18 for maximum wattmeter indication.
STEP 2 With the transmitter keyed, observe the output envelope on the oscilloscope. Turn on the audio oscillator and set to 1 KHz and adjust output for approximately 50% modulation. (See Figure 5-12.)
STEP 3 Adjust L19 for maximum upward modulation.
STEP 4 Switch between channels 1 and 23. Readjust L6, L10, L11, L12, L13, L14 and L18 for minimum shift in power and to keep power under 4 watts.
STEP 5 Connect the frequency counter to the output of the dummy load. Check channels 1, 2, 3, 4, 8, 16, 20, and 23. (See Table 5-3.)

FIG. 5-8 RECEIVER ALIGNMENT PROCEDURE

INITIAL SET-UP
Connect an AC VTVM across the speaker 8Ω load plugged into the EXT SP. Connect the RF signal generator to the antenna jack, set to 27.085 MHz 30% - 1KHz modulation. Set the PA/CB switch to CB. Turn the squelch control full counterclockwise and the volume control full clockwise.
STEP 1 Adjust the RF output level of the signal generator to a level sufficient to produce approximately 2 VAC on the AC VTVM. Adjust L1, L2, L3, L4, L5, L7, and L8 for maximum indication on the AC VTVM. If at any time during the alignment procedure the audio level increases to more than 4 VAC, reduce the generator output level. Repeat adjustment until 0.7 microvolts RF signal produces approximately 2 VAC on the AC VTVM.
STEP 2 Turn squelch control full clockwise. Increase the RF signal generator output to 300 microvolts. Squelch should break. If squelch fails to break, adjust R32 to break squelch.

FIG. 5-9 ALIGNMENT LAYOUT

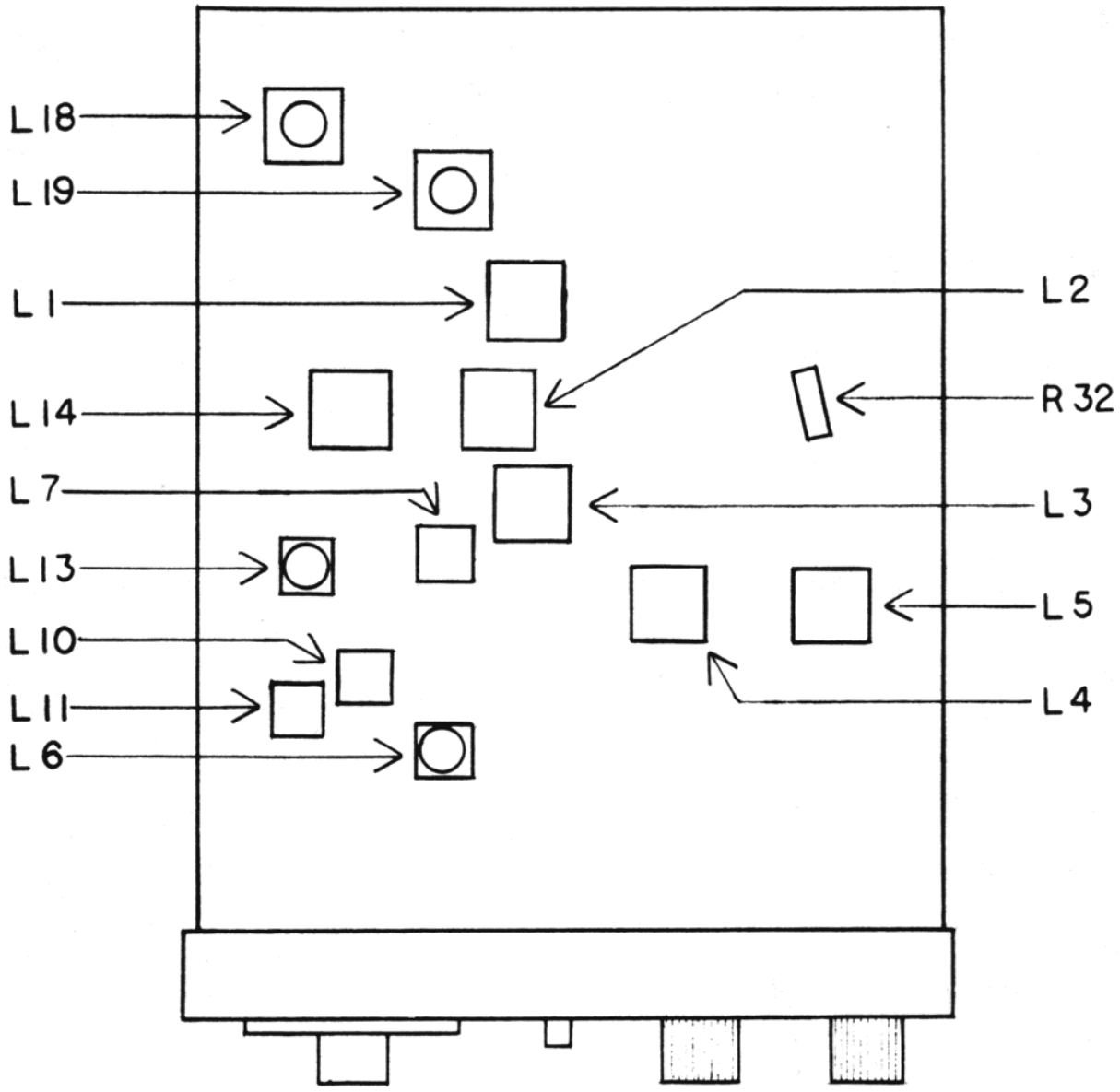
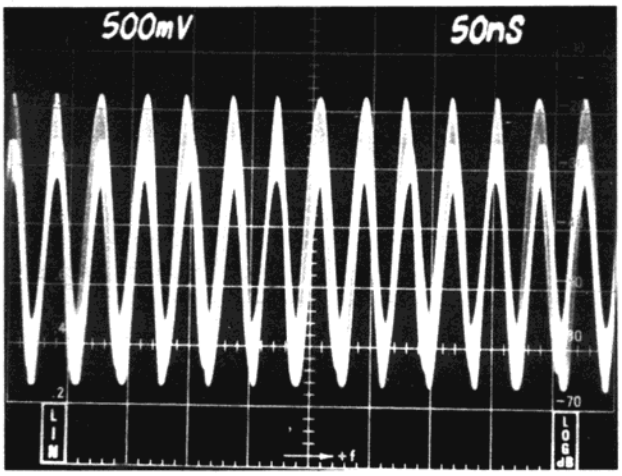


TABLE 5-10 RECEIVER INJECTION VOLTAGES

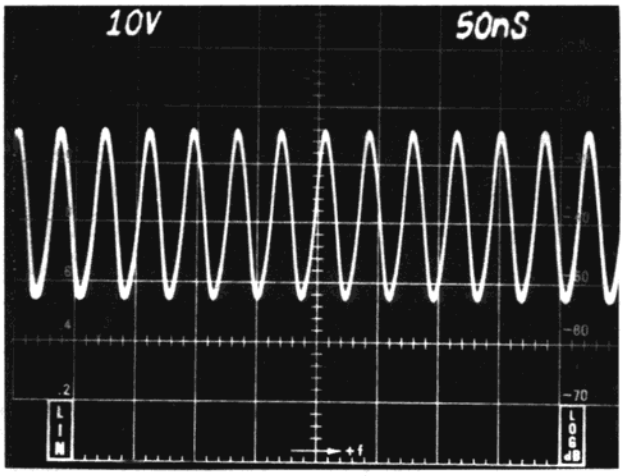
All injection voltages are at 30% - 1 KHz modulation, are fed through a .01 MFD capacitor and should produce at least 2 VAC across an 8Ω load connected at EXT SP J2.

INJECTION POINT	INJECTION LEVEL	FREQUENCY
ANT JACK	1uV	Channel Frequency
Base of Q1	1uV	Channel Frequency
Base of Q2	30uV	Channel Frequency
Base of Q3	300uV	455 KHz
Base of Q4	5000uV	455 KHz

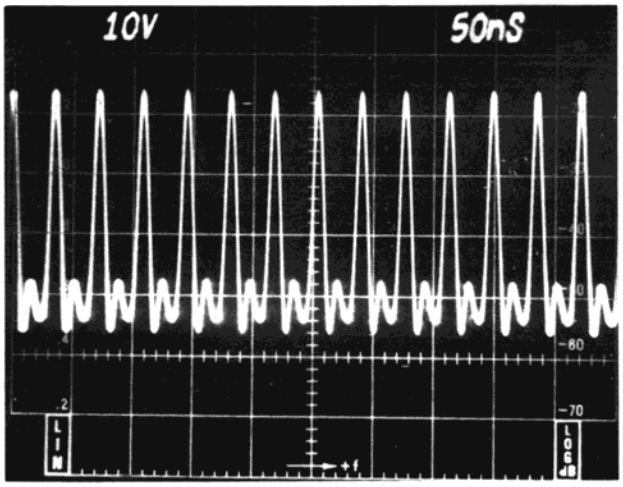
FIG. 5-11 TRANSMITTER ALIGNMENT WAVEFORMS



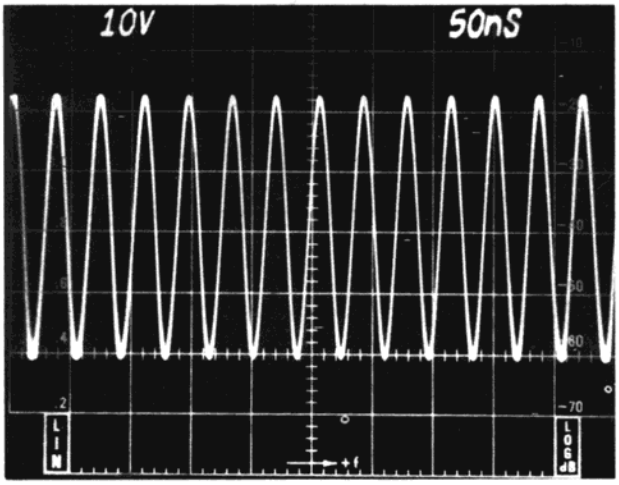
TX MIXER Q10
COLLECTOR



DRIVER Q17
COLLECTOR

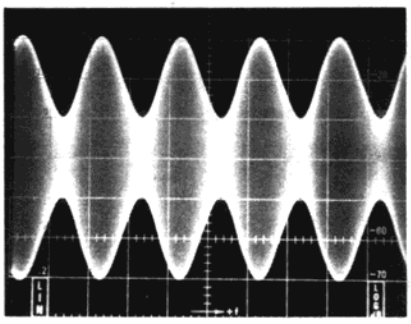


FINAL Q18
COLLECTOR

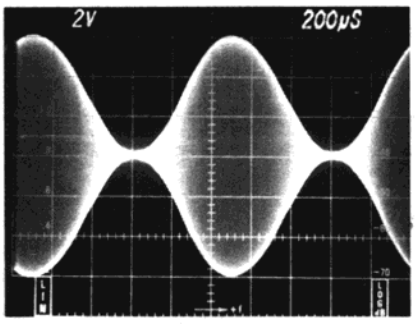


OUTPUT
DUMMY LOAD

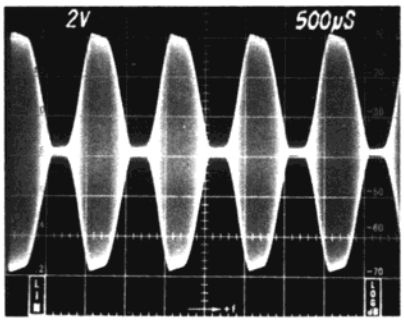
FIG. 5-12 MODULATION WAVEFORMS



50% MODULATION



100% MODULATION



OVERMODULATION

FIG. 5-13 COMPONENT LOCATION

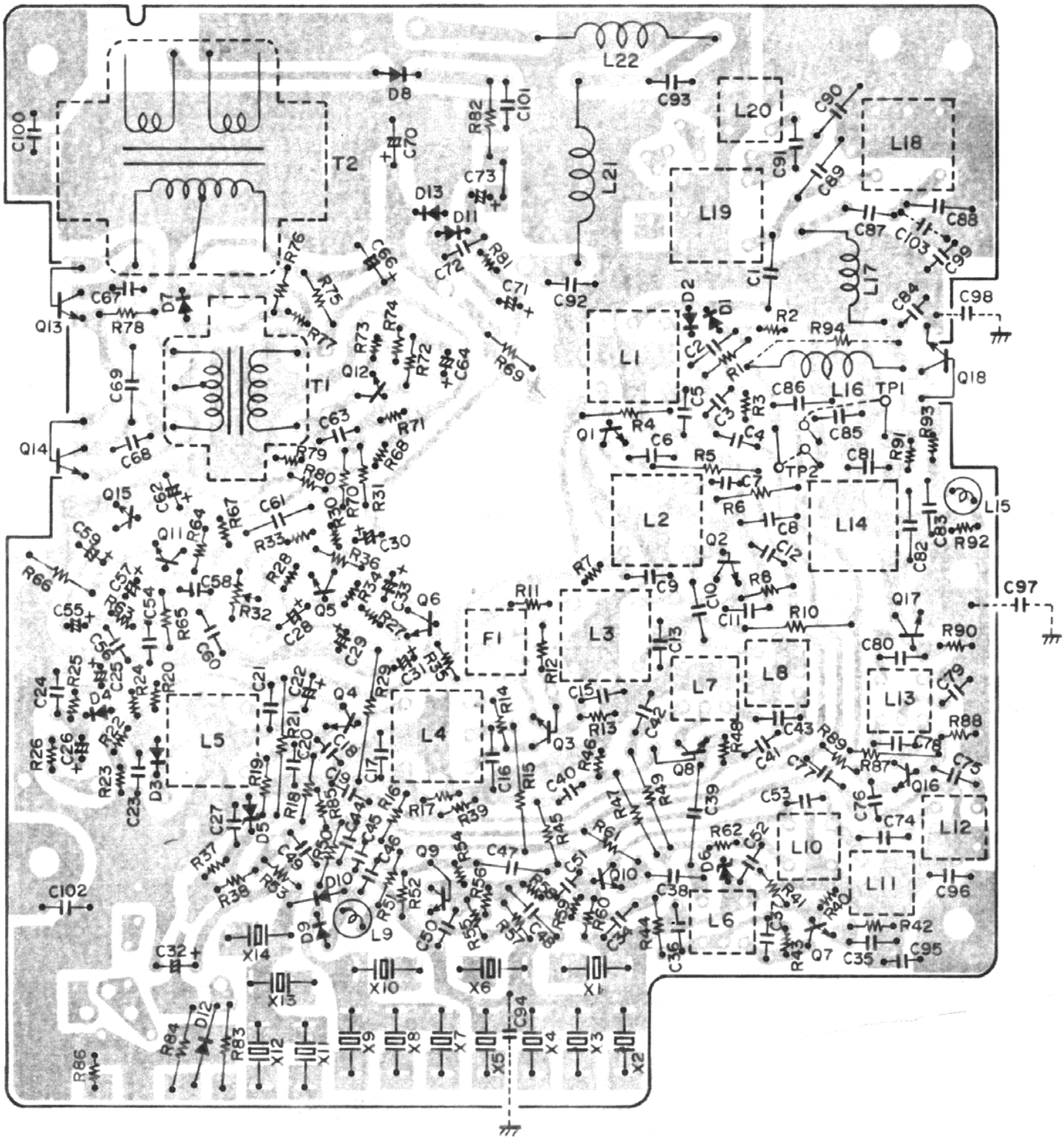
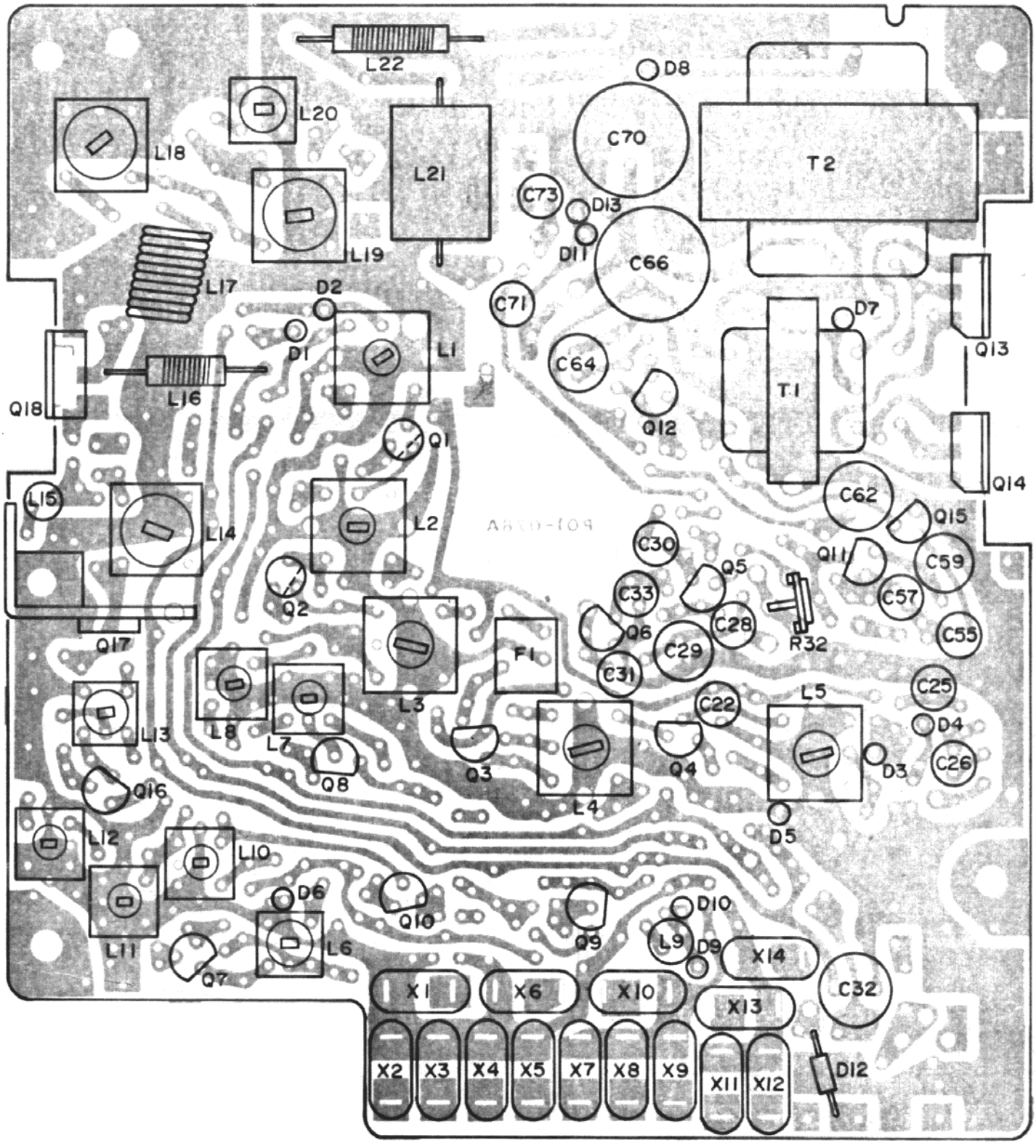


FIG. 5-14 COMPONENT LAYOUT



SBE-34CB BRUTE PARTS LIST

SYMBOL NO.	PART NUMBER	DESCRIPTION
C1	8000-00040-041	Capacitor, Fixed, 20pfd, 50V, Ceramic
C2	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C3	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C4	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C5	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C6	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C7	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C8	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C9	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C10	8000-00006-222	Capacitor, Fixed, 8pfd, 50V, Ceramic
C11	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C12	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C13	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C14	Not Used	
C15	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C16	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C17	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C18	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C19	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C20	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C21	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C22	8000-00028-024	Capacitor, Fixed, 1mfd, 50V, Electrolytic
C23	8000-00041-006	Capacitor, Fixed, 0.002mfd, 50V, Ceramic
C24	8000-00028-013	Capacitor, Fixed, 0.001mfd, 50V, Ceramic
C25	8000-00041-010	Capacitor, Fixed, 0.47mfd, 50V, Electrolytic
C26	8000-00028-024	Capacitor, Fixed, 1 mfd, 50V, Electrolytic
C27	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C28	8000-00041-010	Capacitor, Fixed, 0.47mfd, 50V, Electrolytic
C29	8000-00041-012	Capacitor, Fixed, 33mfd, 10V, Electrolytic
C30	8000-00041-010	Capacitor, Fixed, 0.47mfd, 50V, Electrolytic
C31	8000-00041-011	Capacitor, Fixed, 10mfd, 10V, Electrolytic
C32	8000-00041-013	Capacitor, Fixed, 100mfd, 10V, Electrolytic
C33	8000-00028-024	Capacitor, Fixed, 1mfd, 50V, Electrolytic
C34	8000-00041-007	Capacitor, Fixed, 0.02mfd, 25V, Ceramic
C35	8000-00028-004	Capacitor, Fixed, 50pfd, 50V, Ceramic
C36	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C37	8000-00028-004	Capacitor, Fixed, 50pfd, 50V, Ceramic
C38	8000-00028-013	Capacitor, Fixed, 0.001mfd, 50V, Ceramic
C39	8000-00028-013	Capacitor, Fixed, 0.001mfd, 50V, Ceramic
C40	8000-00028-013	Capacitor, Fixed, 0.001mfd, 50V, Ceramic
C41	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C42	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C43	8000-00006-223	Capacitor, Fixed, 7pfd, 50V, Ceramic
C44	8000-00041-007	Capacitor, Fixed, 0.02mfd, 25V, Ceramic
C45	8000-00041-007	Capacitor, Fixed, 0.02mfd, 25V, Ceramic
C46	8000-00028-013	Capacitor, Fixed, 0.001mfd, 50V, Ceramic
C47	8000-00041-003	Capacitor, Fixed, 200pfd, 50V, Ceramic
C48	8000-00041-003	Capacitor, Fixed, 200pfd, 50V, Ceramic
C49	8000-00041-007	Capacitor, Fixed, 0.02mfd, 25V, Ceramic
C50	8000-00041-007	Capacitor, Fixed, 0.02mfd, 25V, Ceramic
C51	8000-00028-013	Capacitor, Fixed, 0.001mfd, 50V, Ceramic
C52	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic

SYMBOL NO.	PART NUMBER	DESCRIPTION
C53	8000-00040-047	Capacitor, Fixed, 4pfd, 50V, Ceramic
C54	8000-00028-013	Capacitor, Fixed, 0.001mfd, 50V, Ceramic
C55	8000-00041-011	Capacitor, Fixed, 10mfd, 10V, Electrolytic
C56	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C57	8000-00006-064	Capacitor, Fixed, 4.7mfd, 16V, Electrolytic
C58	8000-00028-013	Capacitor, Fixed, 0.001mfd, 50V, Ceramic
C59	8000-00041-012	Capacitor, Fixed, 33mfd, 10V, Electrolytic
C60	8000-00041-009	Capacitor, Fixed, 0.033mfd, 50V, Mylar
C61	8000-00006-276	Capacitor, Fixed, 0.047mfd, 50V, Mylar
C62	8000-00028-023	Capacitor, Fixed, 47mfd, 16V, Electrolytic
C63	8000-00041-005	Capacitor, Fixed, 250pfd, 50V, Ceramic
C64	8000-00005-077	Capacitor, Fixed, 47mfd, 10V, Electrolytic
C65	Not Used	
C66	8000-00041-014	Capacitor, Fixed, 330mfd, 16V, Electrolytic
C67	8000-00028-200	Capacitor, Fixed, 0.022mfd, 50V, Mylar
C68	8000-00028-200	Capacitor, Fixed, 0.022mfd, 50V, Mylar
C69	8000-00028-021	Capacitor, Fixed, 0.1mfd, 50V, Mylar
C70	8000-00011-143	Capacitor, Fixed, 470mfd, 16V, Electrolytic
C71	8000-00041-011	Capacitor, Fixed, 10mfd, 10V, Electrolytic
C72	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C73	8000-00028-024	Capacitor, Fixed, 1mfd, 50V, Electrolytic
C74	8000-00040-047	Capacitor, Fixed, 4pfd, 50V, Ceramic
C75	8000-00028-004	Capacitor, Fixed, 50pfd, 50V, Ceramic
C76	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C77	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C78	8000-00028-004	Capacitor, Fixed, 50pfd, 50V, Ceramic
C79	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C80	8000-00041-007	Capacitor, Fixed, 0.02mfd, 25V, Ceramic
C81	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C82	8000-00041-004	Capacitor, Fixed, 250pfd, 50V, Ceramic
C83	8000-00041-004	Capacitor, Fixed, 250pfd, 50V, Ceramic
C84	8000-00003-009	Capacitor, Fixed, 30pfd, 50V, Ceramic
C85	8000-00028-008	Capacitor, Fixed, 0.01mfd, 25V, Ceramic
C86	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C87	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C88	8000-00041-003	Capacitor, Fixed, 200pfd, 50V, Ceramic
C89	8000-00041-004	Capacitor, Fixed, 250pfd, 50V, Ceramic
C90	8000-00041-002	Capacitor, Fixed, 130pfd, 50V, Ceramic
C91	8000-00028-004	Capacitor, Fixed, 50pfd, 50V, Ceramic
C92	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C93	8000-00028-014	Capacitor, Fixed, 0.04mfd, 25V, Ceramic
C94	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C95	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C96	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C97	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C98	8000-00041-006	Capacitor, Fixed, 0.002mfd, 50V, Ceramic
C99	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C100	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C101	8000-00041-008	Capacitor, Fixed, 0.047mfd, 25V, Ceramic
C102	8000-00028-160	Capacitor, Fixed, 0.01mfd, 50V, Ceramic
C103	8000-00041-001	Capacitor, Fixed, 10pfd, 50V, Ceramic
D1	8000-00038-008	Diode, WG713
D2	8000-00038-008	Diode, WG713
D3	8000-00041-015	Diode, 1S188FM1

SYMBOL NO.	PART NUMBER	DESCRIPTION
D4	8000-00041-016	Diode, S3838GA
D5	8000-00041-018	Diode, XZ092
D6	8000-00041-018	Diode, XZ092
D7	8000-00041-017	Diode, 1S1209
D8	8000-00030-010	Diode, 1N4002
D9	8000-00041-019	Diode, SG9150
D10	8000-00041-019	Diode, SG9150
D11	8000-00004-063	Diode, 1N60P
D12	8000-00038-008	Diode, WG713
D13	8000-00030-010	Diode, 1N4002
F1	8000-00006-291	Ceramic Filter Type CFU455H
FUSE	8000-00004-152	
J1	8000-00041-053	Connector, Antenna
J2	8000-00006-088	Jack, External Speaker
J3	8000-00006-088	Jack, PA Speaker
L1	8000-00041-020	Ant. Coil
L2	8000-00041-021	RF Coil
L3	8000-00041-022	IFT Coil, 455 KHz Yellow
L4	8000-00041-023	IFT Coil, 455 KHz White
L5	8000-00041-024	IFT Coil, 455 KHz Black
L6	8000-00041-025	Oscillation Coil, 37 MHz
L7	8000-00041-026	B.P.F. Coil (RX) White
L8	8000-00041-027	B.P.F. Coil (RX) Yellow
L9	8000-00041-028	RF Choke Coil, 270uh, LF1271K
L10	8000-00041-029	B.P.F. Coil (TX) Black
L11	8000-00041-029	B.P.F. Coil (TX) Black
L12	8000-00041-030	B.P.F. Coil (TX) Red
L13	8000-00041-031	Pre. Driver Coil
L14	8000-00041-032	Driver Coil
L15	8000-00028-143	RF Choke Coil, 2.2uh, LF42R2K
L16	8000-00041-033	RF Choke Coil, 2.2uh
L17	8000-00041-034	L.P.F. Coil
L18	8000-00041-035	L.P.F. Coil
L19	8000-00041-036	L.P.F. Coil
L20	8000-00041-037	T.V.I. Trap, Coil
L21	8000-00041-038	Choke Coil, 1.25mH
L22	8000-00041-039	Choke Coil, 0.85uh
PL1	8000-00041-054	Pilot Lamp, Channel
PL2	8000-00041-055	Pilot Lamp, TX
Q1	8000-00041-040	Transistor, 2SC930D
Q2	8000-00041-040	Transistor, 2SC930D
Q3	8000-00041-046	Transistor, 2SC1675L
Q4	8000-00041-046	Transistor, 2SC1675L
Q5	8000-00041-041	Transistor, 2SC945R
Q6	8000-00041-042	Transistor, 2SC945Q
Q7	8000-00041-046	Transistor, 2SC1675L
Q8	8000-00041-046	Transistor, 2SC1675L
Q9	8000-00041-046	Transistor, 2SC1675L
Q10	8000-00041-046	Transistor, 2SC1675L
Q11	8000-00041-041	Transistor, 2SC945R
Q12	8000-00041-041	Transistor, 2SC945R

SYMBOL NO.	PART NUMBER	DESCRIPTION
Q13	8000-00041-043	Transistor, 2SC1096M
Q14	8000-00041-043	Transistor, 2SC1096M
Q15	8000-00041-045	Transistor, 2SC1648LNS
Q16	8000-00041-046	Transistor, 2SC1675L
Q17	8000-00041-047	Transistor, 2SC1957 or 2SC2028
Q18	8000-00041-044	Transistor, 2SC1306 (1) or 2SC2029
R32	8000-00041-049	Resistor, Semi-Fixed
R78	8000-00041-048	Resistor, Wire-wound, 1/2W, 0.3Ω, ±10%
S1	8000-00041-056	Switch, Channel Selector
S3	8000-00041-057	Switch, PA-CB
SP-1	8000-00041-058	Speaker
T1	8000-00041-050	Input Transformer
T2	8000-00041-051	Output Transformer
X1	8000-00041-092	Crystal, 37.60 MHz, HC25/U
X2	8000-00041-093	Crystal, 37.65 MHz, HC25/U
X3	8000-00041-094	Crystal, 37.70 MHz, HC25/U
X4	8000-00041-095	Crystal, 37.75 MHz, HC25/U
X5	8000-00041-096	Crystal, 37.80 MHz, HC25/U
X6	8000-00041-097	Crystal, 37.85 MHz, HC25/U
X7	8000-00041-098	Crystal, 10.635 MHz, HC25/U
X8	8000-00041-099	Crystal, 10.625 MHz, HC25/U
X9	8000-00041-100	Crystal, 10.615 MHz, HC25/U
X10	8000-00041-101	Crystal, 10.595 MHz, HC25/U
X11	8000-00041-102	Crystal, 10.18 MHz, HC25/U
X12	8000-00041-103	Crystal, 10.17 MHz, HC25/U
X13	8000-00041-104	Crystal, 10.16 MHz, HC25/U
X14	8000-00041-105	Crystal, 10.14 MHz, HC25/U
VR1	8000-00041-059	Variable, Volume & Power Switch, 50KΩ
VR2	8000-00041-060	Variable, Squelch Control, 50KΩ
	8000-00041-061	Chassis, main
	8000-00041-062	Bezel
	8000-00041-063	Protector, Clear, Channel Indicator
	8000-00041-064	Lamp Shade, Red
	8000-00041-065	Name Plate
	8000-00041-066	Knob, Channel Selector
	8000-00041-067	Knob, Squelch/Volume Control
	8000-00041-068	Dial, Channel Indicator
	8000-00041-069	Felt, Squelch/Volume Control
	8000-00041-070	Rubber Cushion, Crystal
	8000-00041-071	Cabinet, Upper
	8000-00041-072	Cabinet, Lower
	8000-00041-073	Cloth, Speaker (Black)
	8000-00041-074	Cloth, Cabinet Protector (Black)
	8000-00041-075	Cloth, Speaker Protector (Green)
	8000-00041-076	Holder, Speaker
	8000-00041-077	Cloth, Panel Protector
	8000-00041-078	Grommet, Rubber
	8000-00041-079	Holder, Pilot Lamp

PART NUMBER	DESCRIPTION
8000-00041-080	Plastic Chip, Blind, CB-PA
8000-00041-081	Clamper, Mike Cord
8000-00041-082	Radiator, Transistor
8000-00041-083	Label, F.C.C. Acceptance
8000-00041-084	Washer, Ant.
8000-00041-085	Connector, Pin
8000-00041-086	Display Box
8000-00006-233	Microphone, Complete
8000-00041-087	Power Cord w/Fuse Holder
8000-00030-031	Retainer, Power Cord
8000-00041-088	Rubber Sleeve, Mike Cord
8000-00006-089	Crystal Socket
8000-00041-052	Printed Circuit Board
8000-00041-089	Screws, Mounting Bracket
8000-00041-090	Mounting Bracket
8000-00024-204	Mike Hanger w/Screws
8000-00041-091	External Speaker Plug