

CÓD. 67

FAIXA
DO CIDADÃO

PX

11

METROS

**esquemas
elétricos**

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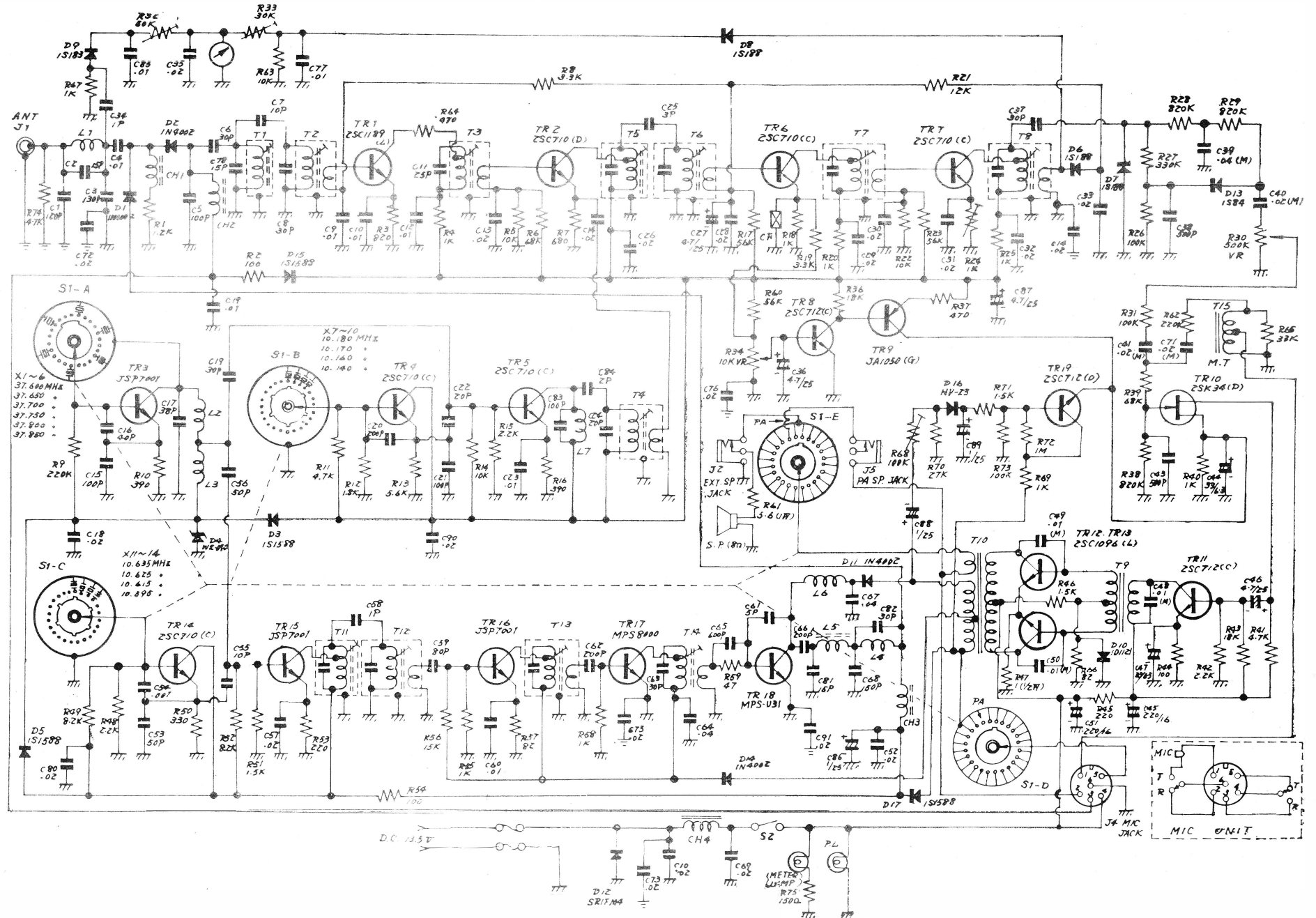
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DIAGRAMA ESQUEMÁTICO MODELO MCB-500



Symbol No.	Description	Symbol No.	Description
T11	TX Mix Coil(1) KXC-7343CDE	X6	Crystal HC-25/u 37.850 MHz
12	TX Mix Coil(2) KXC-7343CDE	7	" 10.180 MHz
13	TX Buffer Coil TKXC-24069R	8	" 10.170 MHz
14	TX Driver Coil 43462	9	" 10.160 MHz
15	Mike Transformer MI-5005	10	" 10.140 MHz
		11	" 10.635 MHz
L1	Filter Coil 43499	12	" 10.625 MHz
2	Main Osc. Coil(1) 42683	13	" 10.615 MHz
3	Main Osc. Coil(2) 42682	14	" 10.595 MHz
4	Filter Coil 43499		
5	TX Final Coil 42573	R1	Fixed Resistor 1/4W 1.2K Ω
6	Choke Coil 42577	2	" 100 Ω
7	Choke Coil 43499	3	" 820 Ω
		4	" 1K Ω
CH1	Micro Inductor LF1-100K	5	" 10K Ω
2	" LF1-100K	6	" 68K Ω
3	" LF1-100K	7	" 680 Ω
4	Choke Transformer CH-5013	8	" 3.3K Ω
		9	" 220K Ω
C.F.	Ceramic Filter BFB455B	10	" 390 Ω
		11	" 4.7K Ω
X1	Crystal HC-25/u 37.600 MHz	12	" 1.8K Ω
2	" 37.650 MHz	13	" 5.6K Ω
3	" 37.700 MHz	14	" 10K Ω
4	" 37.750 MHz	15	" 2.2K Ω
5	" 37.800 MHz	16	" 390 Ω

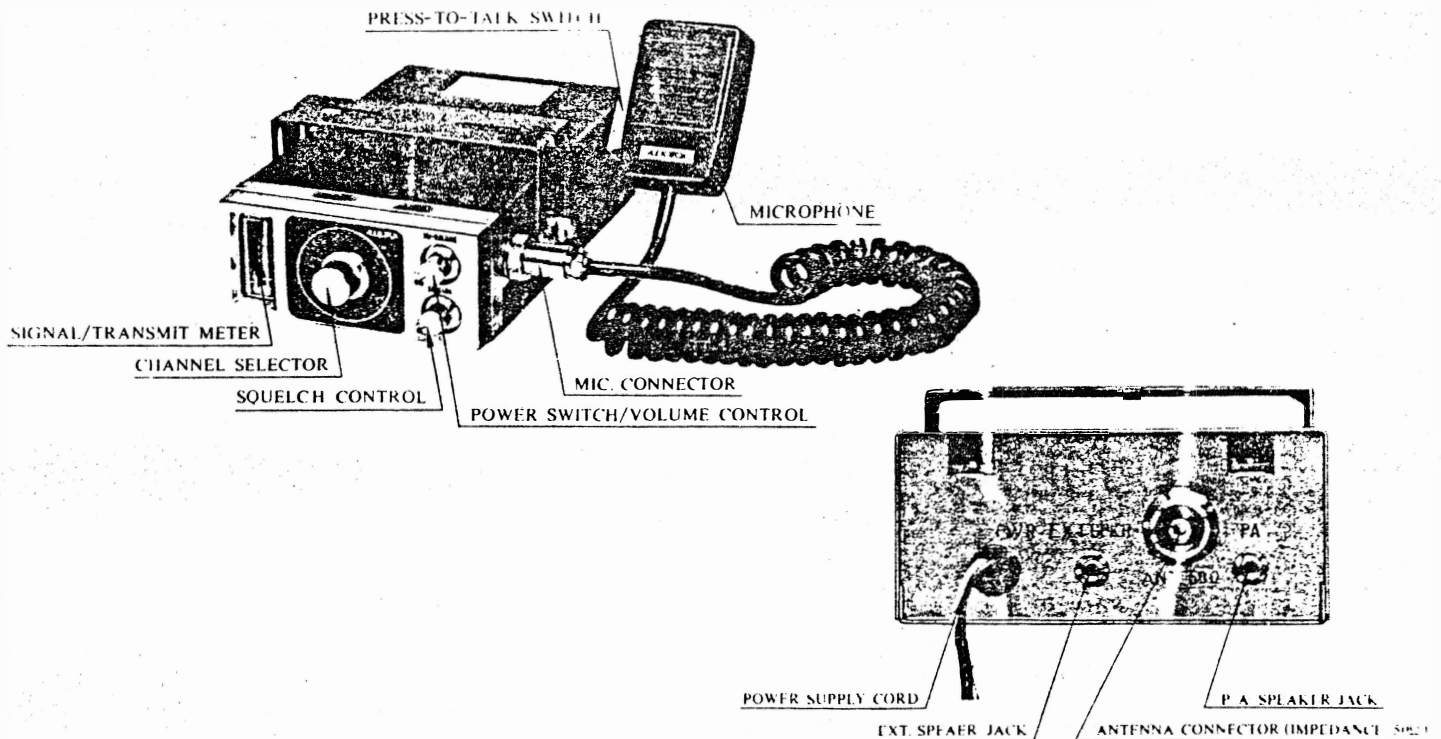
Symbol No.	Description	Symbol No.	Description
R17	Fixed Resistor 1/4W 56K Ω	R43	Fixed Resistor 1/4W 18K Ω
18	" 1K Ω	44	" 100 Ω
19	" 3.3K Ω	45	" 220 Ω
20	" 1K Ω	46	" 1.5K Ω
21	" 12K Ω	47	Fixed Resistor 1/2W 1 Ω
22	" 10K Ω	48	Fixed Resistor 1/4W 2.2K Ω
23	" 56K Ω	49	" 8.2K Ω
24	Semi-Fixed Resistor 1K Ω	50	" 330 Ω
25	Fixed Resistor 1/4W 1K Ω	51	" 1.5K Ω
26	" 100K Ω	52	" 8.2K Ω
27	" 330K Ω	53	" 220 Ω
28	" 820K Ω	54	" 100 Ω
29	" 820K Ω	55	" 1K Ω
30	Volume Control 500K Ω - D	56	" 15K Ω
31	Fixed Resistor 1/4W 100K Ω	57	" 82 Ω
32	Semi-Fixed Resistor 50K Ω	58	" 1K Ω
33	" 30K Ω	59	" 47 Ω
34	Squelch Control 10K Ω - B	60	" 56K Ω
35	Unused	61	Fixed Resistor 1W 5.6 Ω
36	Fixed Resistor 1/4W 18K Ω	62	Fixed Resistor 1/4W 220K Ω
37	" 470 Ω	63	" 10K Ω
38	" 820K Ω	64	" 470 Ω
39	" 68K Ω	65	" 33K Ω
40	" 1K Ω	66	" 82 Ω
41	" 4.7K Ω	67	" 1K Ω
42	" 2.2K Ω	68	Semi-Fixed Resistor 100K Ω

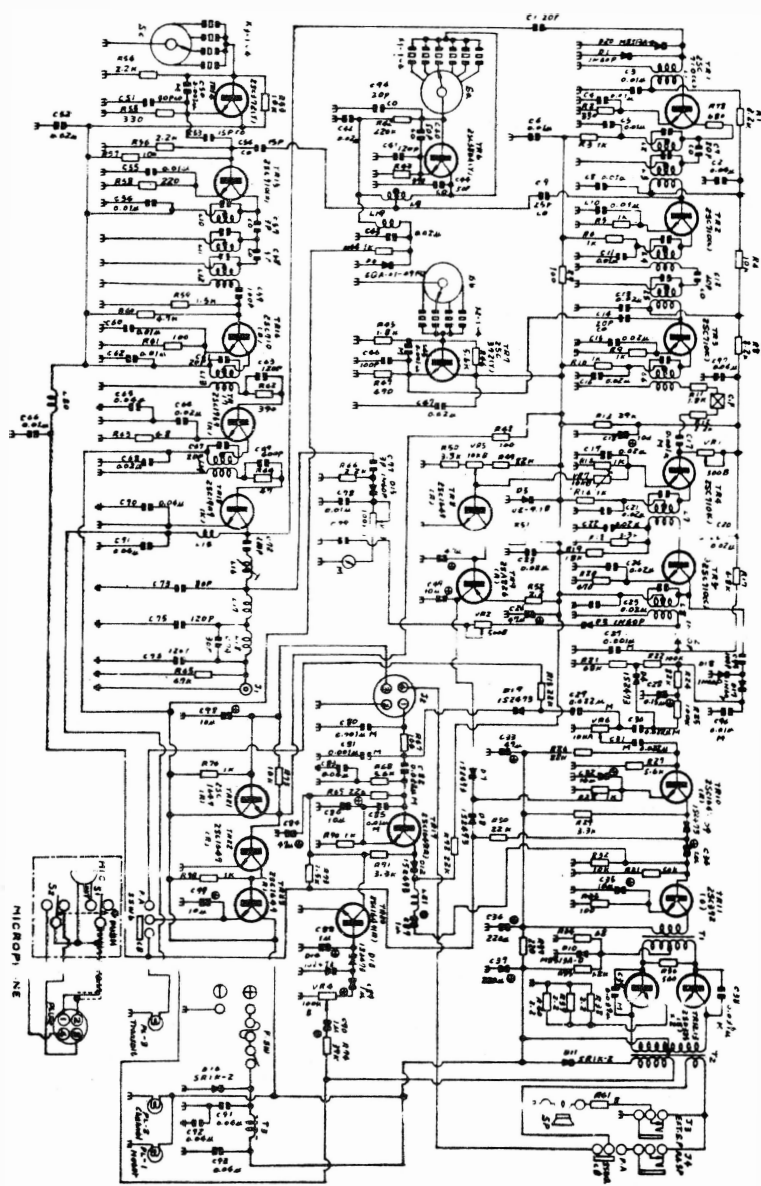
Symbol No.	Description	Symbol No.	Description
TR1	Transistor 2SC1189-L	D5	Diode 1S1588
2	" 2SC710-D	6	" 1S188-FM
3	" JSP7001	7	" 1S188-FM
4	" 2SC710-C	8	" 1S188-FM
5	" 2SC710-C	9	" 1S188-FM
6	" 2SC710-C	10	Varistor VD1121
7	" 2SC710-C	11	Diode 1N4002
8	" 2SC712-C	12	" SR1FM4
9	" JA1050-G	13	" 1S84
10	FET 2SK34-D	14	" 1N4002
11	Transistor 2SC712-C	15	" 1S1588
12	" 2SC1096-L	16	" HV23
13	" 2SC1096-L	17	" 1S1588
14	" 2SC710-C		
15	" JSP7001	T1	RX ANT. Coil (1) KXN-2441D2
16	" JSP7001	2	RX ANT. Coil (2) KXN-2441D2
17	" MPS8000	3	RX R.F. Coil KXN-2442F2
18	" MPS-U31	4	RX Pre-Mix Coil 40111
19	" 2SC712-D	5	IFT 1st (1) YOC-15000A
		6	IFT 1st (2) YOC-15000A
D1	Diode 1N4002	7	IFT 2nd YOC-15001A
2	" 1N4002	8	IFT 3rd YMC-15002A
3	" 1S1588	9	Input Transformer T-01027
4	Zener Diode WZ090	10	Output Transformer 00-5026

Symbol No.	Description	Symbol No.	Description
R69	Fixed Resistor 1/4W 1K Ω	C19	Ceramic Capacitor 30PF
70	" 27K Ω	20	" 200PF
71	" 1.5K Ω	21	" 100PF
72	" 1M Ω	22	" 20PF
73	" 100K Ω	23	" 0.01 μ F
74	" 4.7K Ω	24	" 20PF
75	" 150 Ω	25	" 3PF
		26	" 0.02 μ F
C1	Ceramic Capacitor 120PF	27	Chemical Capacitor 4.7 μ F/10V
2	" 15PF	28	Ceramic Capacitor 0.02 μ F
3	" 130PF	29	" 0.02 μ F
4	" 0.01 μ F	30	" 0.02 μ F
5	" 100PF	31	" 0.02 μ F
6	" 30PF	32	" 0.0 μ F
7	" 10PF	33	" 0.0 μ F
8	" 30PF	34	" 1PI
9	" 0.01 μ F	35	" 0.02 μ F
10	" 0.01 μ F	36	Chemical Capacitor 4.7 μ F/6.3V
11	" 25PF	37	Ceramic Capacitor 30PF
12	" 0.01 μ F	38	" 500PF
13	" 0.02 μ F	39	Mylar Capacitor 0.04 μ F
14	" 0.02 μ F	40	" 0.02 μ F
15	" 100PF	41	" 0.02 μ F
16	" 40PF	42	Unused
17	" 38PF	43	Ceramic Capacitor 500PF
18	" 0.02 μ F	44	Chemical Capacitor 33 μ F/6.3V

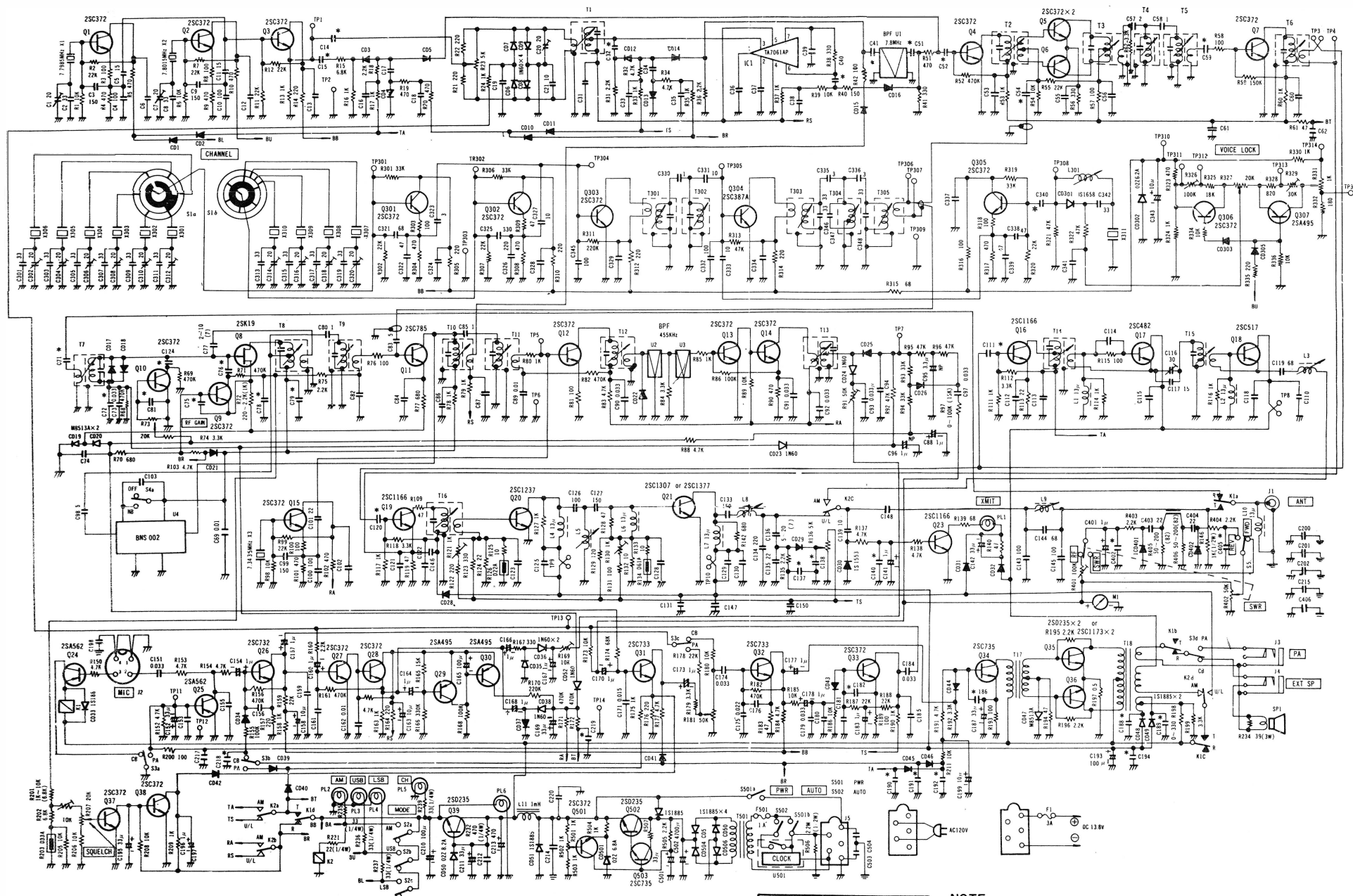
Symbol No.	Description	Symbol No.	Description
C45	Chemical Capacitor 220 μ F/16V	C71	Mylar Capacitor 0.02 μ F
46	" 4.7 μ F/10V	72	Ceramic Capacitor 0.02 μ F
47	" 33 μ F/6.3V	73	" 0.02 μ F
48	Mylar Capacitor 0.01 μ F	74	" 0.02 μ F
49	" 0.01 μ F	75	" 0.02 μ F
50	" 0.01 μ F	76	" 0.02 μ F
51	Chemical Capacitor 220 μ F/16V	77	" 0.01 μ F
52	Ceramic Capacitor 0.02 μ F	78	" 15PF
53	" 50PF	79	" 0.01 μ F
54	" 0.001 μ F	80	" 0.02 μ F
55	" 10PF	81	" 15PF
56	" 50PF	82	" 30PF
57	" 0.02 μ F	83	" 100PF
58	" 1PF	84	" 2PF
59	" 80PF	85	" 0.01 μ F
60	" 0.01 μ F	86	Chemical Capacitor 1 μ F/25V
61	" 5PF	87	" 4.7 μ F/16V
62	" 200PF	88	" 1 μ F/25V
63	" 30PF	89	" 1 μ F/25V
64	" 0.04 μ F	90	Ceramic Capacitor 0.02 μ F
65	" 600PF	91	" 0.02 μ F
66	" 200PF		
67	" 0.04 μ F		
68	" 150PF		
69	" 0.02 μ F		
70	" 0.02 μ F		

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CLARICON - MOD. 30500



SCHEMATIC
COBRA 135
488-127-9-002

NOTE
 All resistors are in ohms and 1/8W unless otherwise noted.
 All mylarfilm capacitors indicated as 0.033 etc are in μ F.
 All ceramic capacitors indicated as 22 etc are in PF.
 All ceramic capacitors of this mark (—|—) are 4700PF unless otherwise noted.
 All ceramic capacitors of this mark (*|—) are 2200PF unless otherwise noted.
 All diodes of this mark (—|>) are 1S1555 unless otherwise noted.

SCHEMATIC
SYMBOL

DESCRIPTION

DYNASCAN
PART NO.

CRYSTALS (Continued)

X303	Crystal 16.065 MHz	132-008-9-004
X304	Crystal 16.115 MHz	132-008-9-005
X305	Crystal 16.165 MHz	132-008-9-006
X306	Crystal 16.215 MHz	132-008-9-007
X307	Crystal 6.000 MHz	132-008-9-008
X308	Crystal 6.010 MHz	132-008-9-009
X309	Crystal 6.020 MHz	132-008-9-010
X310	Crystal 6.040 MHz	132-008-9-011
X311	Crystal 12.800 MHz	132-008-9-012

SWITCHES

S1	Rotary Switch 24 Steps	083-149-9-001
S2	Push Switch (mode) 2C-2P×3	088-012-9-001
S3,4,401	Push Switch 4C-2P, 2C-2P×2	088-012-9-002
S501	Push Switch 2C-1P	088-010-9-001
S502	Push Switch 1C-1P	088-010-9-002

MISCELLANEOUS

J1	Antenna Jack SO 239	772-002-9-001
J2	Microphone Jack and Plug	773-039-9-001
J3,4	PA and EXT SP Jack	773-043-9-001
J501	Power Jack	773-039-9-003
K1	Relay 4C-2P 12V	441-006-9-001
K2	Relay 4C-2P 6V	441-007-9-001
M1	DC ammeter	320-036-9-001
MK1	Dynamic microphone	502-003-9-001
PL1-5	Indicator lamp	400-022-9-001
PL6	Indicator lamp	400-023-9-001
SP1	Speaker 6.3" × 2.35"	580-012-9-001
U1	Crystal Filter	143-002-9-001
U2	Ceramic Filter LF B6	140-008-9-001
U3	Ceramic Filter LF B8	140-008-9-002
U4	Noise Blanker Module	520-026-9-001
U501	Digital Clock	465-001-9-001
F1	Fuse 3A	191-251-3-003
F501	Fuse 1A	
FS1	Fuse Holder for DC	742-013-9-001
FS501	Fuse Holder for AC	
	Power Cord for DC	420-014-9-001
	Power Cord for AC	420-014-9-002
	Knob for Channel Switch	751-093-9-001
	Knob for Voice Lock, Volume	751-092-9-004
	RF Gain, Squelch and SWR	
	Knob for Clock Time	751-085-9-003
	Knob for Clock Time Set	751-085-9-004
	Channel Indicator	380-153-9-001
	Meter Holder	251-105-9-001
	Case	272-094-9-001

NOTE: Standard value resistors and capacitors are not listed, values may be obtained from schematic diagram.

Minimum charge \$2.00 per invoice. Orders will be shipped C.O.D. unless previous open account arrangements have been made or remittance accompanies order. Advance remittance must cover postage or express charge.

Specify serial number when ordering replacement parts.

COBRA 135 PARTS LIST

488-127-9-001

SCHEMATIC
SYMBOL

DESCRIPTION

DYNASCAN
PART NO.

RESISTORS, CONTROLS AND THERMISTORS

R113,231	Carbon Fixed 22Ω 1/4W	002-104-5-220
R119,128,140	Carbon Fixed 47Ω 1/4W	002-104-5-470
R122	Carbon Fixed 220Ω 1/4W	002-104-5-221
R123	Carbon Fixed 330Ω 1/4W	002-104-5-331
R131	Carbon Fixed 100Ω 1/4W	002-104-5-101
R139	Carbon Fixed 68Ω 1/4W	002-104-5-680
R197	Carbon Fixed 0.5Ω 1/4W	004-100-9-001
R232	Carbon Fixed 470Ω 1/4W	002-104-5-471
R507	Carbon Fixed 1Ω 1/4W	002-104-5-010
R146	Carbon Fixed 1KΩ 1/2W	002-102-5-102
R129	Solid Fixed 120Ω 1/2W	002-102-5-121
R235-237,239	Solid Fixed 33Ω 1/4W	002-104-5-330
R238	Solid Fixed 22Ω 1/2W	002-102-5-220
R506	Solid Fixed 2.2MΩ 1/2W	002-102-5-225
R234	Wire Wound Fixed 39Ω 3W	006-005-5-160
R23	Semi-Fixed (Pot.) 5KΩ	008-176-9-001
R169,204	Semi-Fixed 10KΩ	008-165-9-001
R121,130	Semi-Fixed 1KΩ	008-176-9-002
R136,502	Semi-Fixed (Pot.) 1KΩ	008-158-9-001
R310,401	Semi-Fixed 100KΩ	008-158-9-003
R91	Semi-Fixed 50KΩ	008-158-9-008
R326	Semi Fixed (Pot.) 100KΩ	008-206-9-001
R329	Semi-Fixed (Pot.) 30KΩ	008-206-9-002
R331	Semi Fixed (Pot.) 1KΩ	008-206-9-003
R73,207,327	Variable 20KΩ	008-177-9-001
R181	Variable 50KΩ	008-158-9-011
R402	Variable 50KΩ with 1C-2P switch	008-177-9-002
R126	Thermistor D22A	004-099-9-001
R134	Thermistor D61A	004-108-9-001
R203	Thermistor D33A	004-099-9-002

CAPACITORS AND TRIMMERS

C2,8,301,303,305,307,309,311,313,315,317,319,346-348	Ceramic N220 33pF 50V	020-097-9-001
C3,9,99,127,133	Ceramic SL 150pF 50V	020-097-9-002
C4,10,100	Ceramic N220 100pF 50V	020-088-9-003
C5,11,117	Ceramic SL 15pF 50V	020-097-9-008
C6,12,13,16-19,31,33-39,53,55,56,60,61,62,74,82,84,86,87,94,102,103,110,112-115,118,121,122,123,125,128-131,146,147,148,150,153,155,156,159,161,176,180,181,185,198,200-202,212,214,215,217,220,324,328,329,334,337,341,344,503,504	Ceramic YR 4700pF 50V	020-088-9-008

COMPOSITE
499-051-9-001

CAPACITORS AND TRIMMERS (Continued)

C14,15,32,40,41,51, 52,54,59,71,72,75, 76,78,79,81,111, 120,124,137,138, 140,182,186,188 ~192,194,218, 219,340,402,405, 406	Ceramic YR-2200pF 50V	020-088-9-007
C21	Ceramic N750 10pF 50V	020-097-9-003
C57	Ceramic SL 2pF 50V	020-097-9-004
C58,80,85,330	Ceramic SL 1pF 50V	020-097-9-005
C101,135,403,404	Ceramic SL 22pF 50V	020-097-9-006
C77,136	Ceramic SL 7pF 50V	020-097-9-012
C83,98,323	Ceramic SL 5pF 50V	020-097-9-007
C119,321	Ceramic N220 68pF 50V	020-088-9-001
C126,143,145,332, 345	Ceramic SL 100pF 50V	020-088-9-004
C134,326	Ceramic SL 220pF 50V	020-097-9-009
C139,327,331,333	Ceramic SL 10pF 50V	020-097-9-010
C144	Ceramic SL 47pF 50V	020-097-9-011
C322,338,339	Ceramic N220 47pF 50V	020-088-9-002
C325	Ceramic SL 330pF 50V	020-097-9-013
C335,336	Ceramic SL 3pF 50V	020-097-9-014
C342	Ceramic N470 33pF 50V	020-097-9-015
C1,7,20,302,304, 306,308,310,312, 314,316,318,320	Ceramic Variable 20pF 50V	028-026-9-001
C116	Ceramic Variable 30pF 50V	028-026-9-002
C73,90~93,97,151, 174,179,184	Mylar-Film 0.033 μ F 50V	025-060-9-003
C69,89,162	Mylar-Film 0.01 μ F 50V	025-060-9-001
C171	Mylar-Film 0.015 μ F 50V	025-071-9-001
C175	Mylar-Film 0.022 μ F 50V	025-071-9-002
C152,187	Tantalum 33 μ F 3V	027-005-9-001
C165,193	Tantalum 100 μ F 3V	027-007-9-001
C88,141,154,157, 160,164,166~168, 170,173,177,178, 183,196,401	Electrolytic 1 μ F 50V	022-076-9-001
C142,169,195,211, 501	Electrolytic 33 μ F 16V	022-076-9-005
C158,163,199,343	Electrolytic 10 μ F 16V	022-076-9-003
C210	Electrolytic 100 μ F 16V	022-091-9-001
C213	Electrolytic 470 μ F 25V	022-076-9-007
C502	Electrolytic 4700 μ F 25V	022-092-9-001
C95	Electrolytic (Non-Polar) 3.3 μ F 6V	034-005-9-001
C96	Electrolytic (Non-Polar) 1 μ F 6V	034-005-9-002

COILS, CHOKES AND TRANSFORMERS

T1	RF Transformer L1786	066-015-9-001
T2	RF Transformer L1787	066-015-9-002
T3	RF Transformer L1785	066-015-9-003
T4,5,9	RF Transformer L1641	066-013-9-002
T6,14	RF Transformer L1505	066-013-9-009
T7	RF Transformer L1790	066-015-9-004
T8	RF Transformer L1789	066-015-9-005
T10,11	RF Transformer L1788	066-015-9-006
T12,13	IF Transformer DI0753	060-014-9-004

COILS, CHOKES AND TRANSFORMERS (Continued)

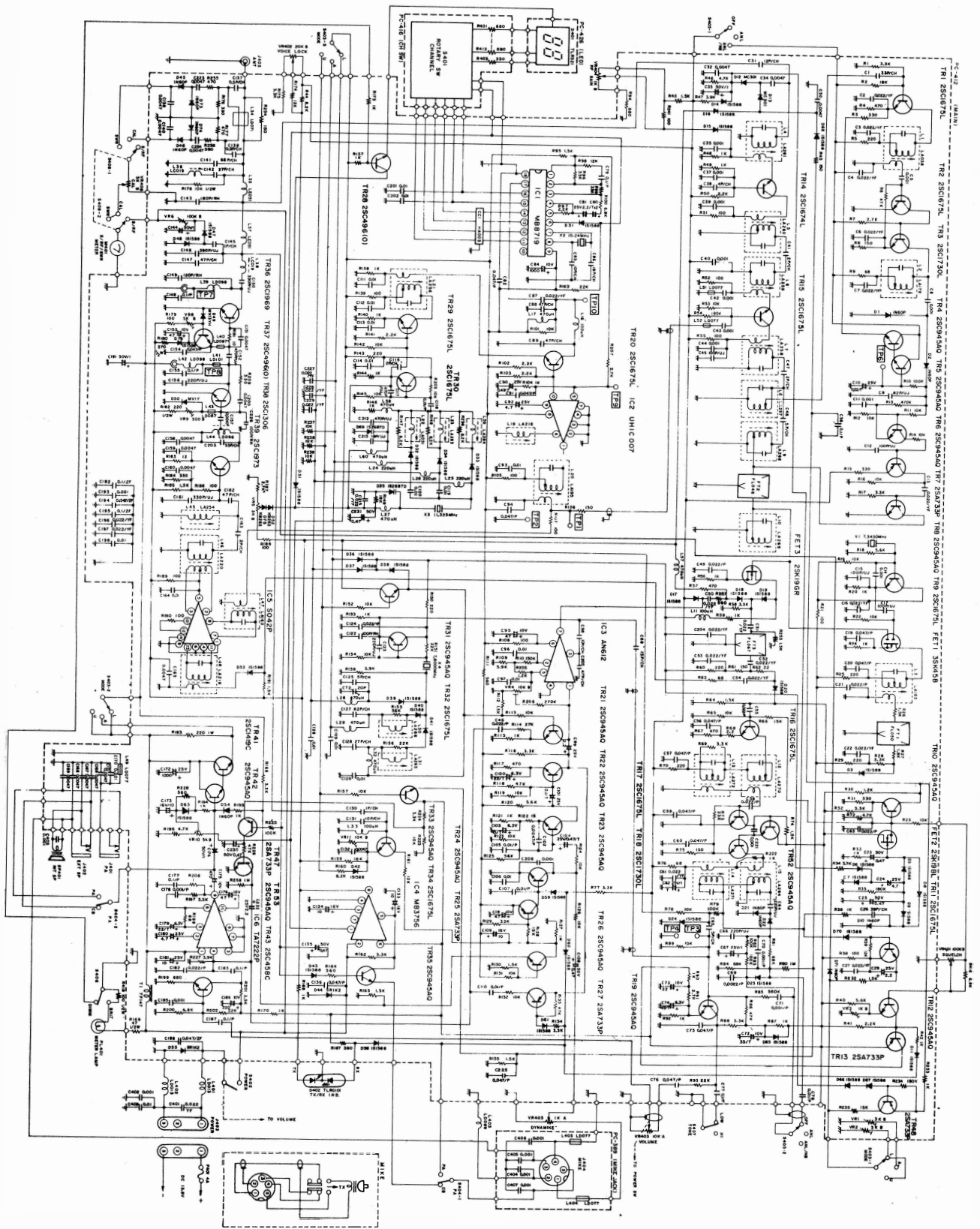
T15	RF Transformer L1511	066-013-9-010
T16	RF Transformer L1791	066-015-9-007
T17	AF Driver Transformer	068-005-9-001
T18	AF Output Transformer	061-021-9-001
T301	RF Transformer L1840	066-015-9-009
T302	RF Transformer L1841	066-015-9-010
T303,304	RF Transformer L1869	066-015-9-011
T305	RF Transformer L1870	066-015-9-012
T501	Power Transformer	065-076-9-001
L1,2,4,6,7,10	RF Choke Coil L1122	042-009-9-001
L3	RF Output L1101	044-025-9-002
L5,9	RF Coil L1792	041-054-9-001
L8	RF Coil L1793	041-054-9-002
L11	AF Choke Coil	042-010-9-001
L301	RF Coil L1871	041-054-9-004

DIODES, TRANSISTORS AND INTEGRATED CIRCUIT

IC1	TA 7061 AP	307-020-9-001
Q1~7,9,10,12~15, 27,28,33,37,38, 301~303,305, 306,501	2SC372 NPN Silicon	176-029-9-001
Q8	2SK19 FET	182-009-9-001
Q11	2SC785 NPN Silicon	176-037-9-001
Q16,19,23	2SC1166 NPN Silicon	176-037-9-002
Q17	2SC482 NPN Silicon	176-029-9-002
Q18	2SC517 NPN Power Silicon	172-009-9-001
Q20	2SC1173 (RF) or 2SC1237 NPN Power Silicon	172-013-9-001
Q21	2SC1307 or 2SC1377 NPN Power Silicon	176-044-9-001
Q24,25	2SA562 PNP Silicon	177-006-9-002
Q26	2SC732 NPN Silicon	176-031-9-002
Q29,30,307	2SA495 PNP Silicon	177-006-9-001
Q31,32	2SC733 NPN Silicon	176-037-9-003
Q34,503	2SC735 NPN Silicon	176-031-9-001
Q35,36,39,502	2SD235 or 2SC1173 (AF) NPN Power Silicon	172-010-9-001
Q304	2SC387A NPN Silicon	176-044-9-002
CD1~5,10~18,21, 22,25,26,28,29,31, 32,34,37,39~46, 303~305,401,402	1S1555	151-030-9-001
CD6~9,23,24,35, 36,38,52	1N60	150-001-9-005
CD19,20,47	M8513A	151-034-9-001
CD30	1S1553	151-042-9-001
CD33,48,49,51, 502~506	1S1885	151-030-9-005
CD50	02Z8.2A	152-042-9-001
CD301	1S1658	151-030-9-004
CD302	02Z6.2A	152-047-9-001
CD501	02Z6.8A	152-042-9-002

CRYSTALS

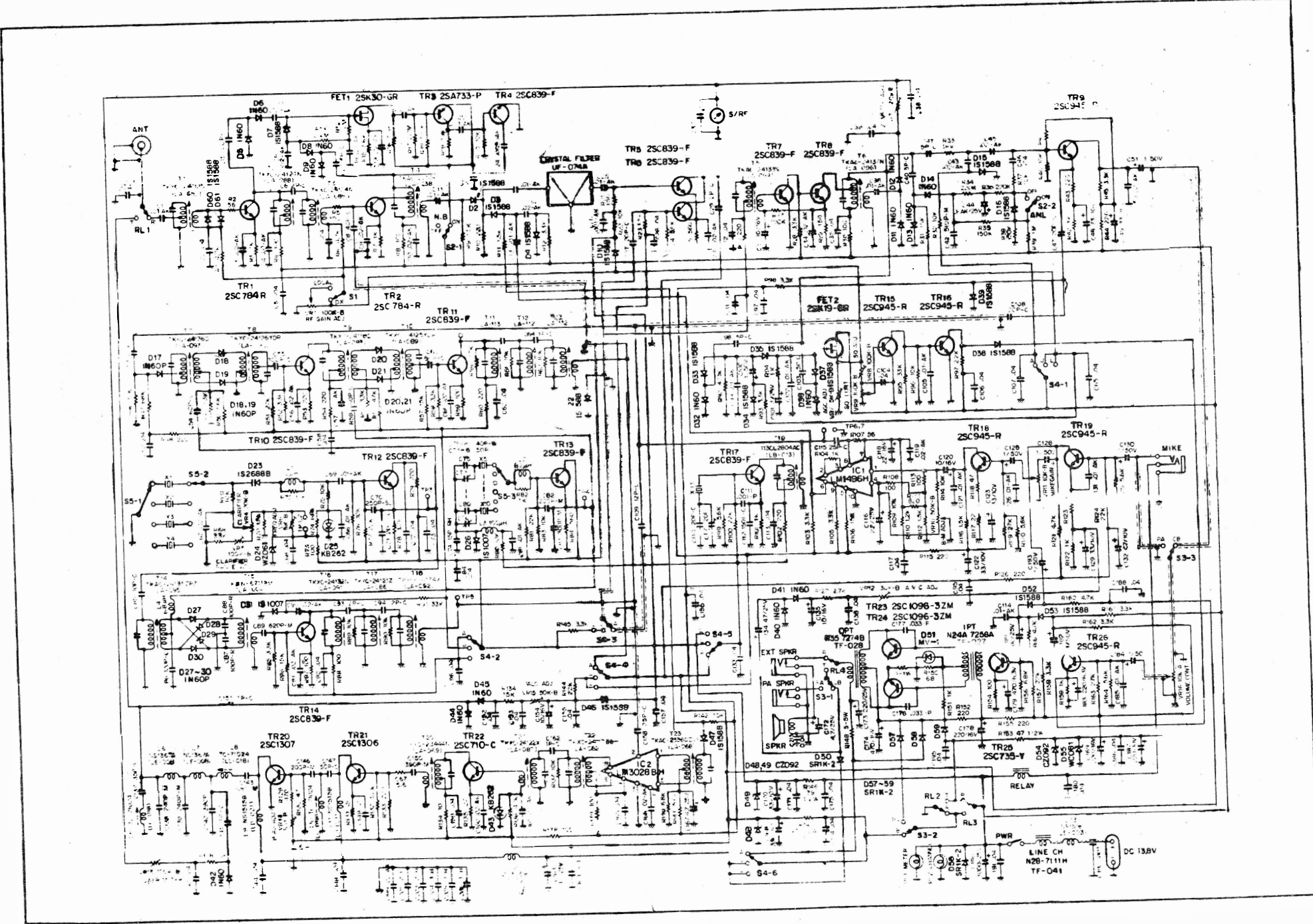
X1	Crystal 7.7985 MHz	132-006-9-001
X2	Crystal 7.8015 MHz	132-006-9-002
X3	Crystal 7.3435 MHz	132-006-9-003
X301	Crystal 15.965 MHz	132-008-9-002
X302	Crystal 16.015 MHz	132-008-9-003



CIRCUIT DIAGRAM FOR COBRA 148GTL

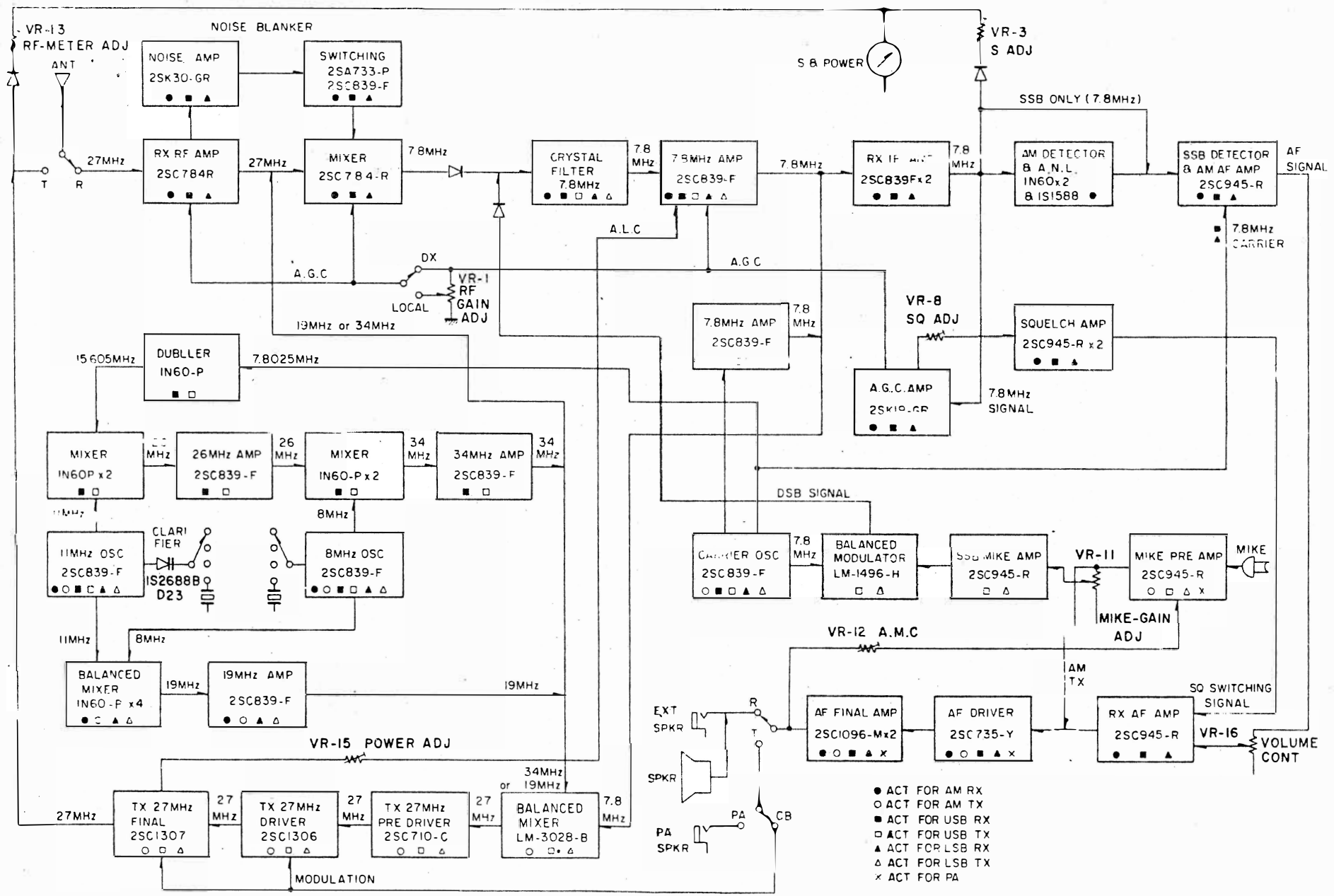
CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO	CIRCUIT SYMBOL	DESCRIPTION
	CAPACITORS (Continued)			MISCELLANEOUS (Continued)
C 1, 203	Capacitor, Ceramic, 33 pF 50V ±5%	CH	S 401	Switch, SR 209, CH SW
C 26, 142	Capacitor, Ceramic, 39 pF 50V ±5%	CH	S 403, 438	Switch, SR 205, MODE/METER
C 88, 89, 147, 162	Capacitor, Ceramic, 47 pF 50V ±5%	CH	S 405	Switch, SW 067, NB/ANL
C 40	Capacitor, Ceramic, 56 pF 50V ±5%	CH	S 404, 406, 407	Switch, SW 056, PA CB, DIM, TONE
C 127	Capacitor, Ceramic, 82 pF 50V ±5%	CH	SP 401	Speaker, SP 050
C 141	Capacitor, Ceramic, 100 pF 50V ±5%	CH	M 401	Meter, MT 158
C 122	Capacitor, Ceramic, 100 pF 50V ±10%	CH	J 405	Microphone, MK-091
C 149	Capacitor, Ceramic, 120 pF 50V ±5%	CH	J 404	Jack, Antenna, JK 068
C 143	Capacitor, Ceramic, 180 pF 50V ±10%	CH	J 403	Jack, Microphone, JK-107
C 9	Capacitor, Ceramic, 82 pF 50V ±5%	CH	J 401, 402	Jack, DC PWR, JK-052
C 12, 15, 17, 45	Capacitor, Ceramic, 100 pF 50V ±10%	CH	TP-1, 3, 6, 9, 10, 11	Jack, PA/EXT SP, JK 089
C 64, 66	Capacitor, Ceramic, 220 pF 50V ±10%	CH	TP-7, 8	Terminal, Test Point, TP-027
C 150, 156, 161	Capacitor, Ceramic, 330 pF 50V ±10%	CH	TP-2, 4	Terminal, Test Point, TP-020
C 146	Capacitor, Ceramic, 390 pF 50V ±10%	UJ		Fuse, FS-01 2.4 Amp
C 152	Capacitor, Ceramic, 470 pF 50V ±10%	UJ		Insulator, YD 040, M83756
C 115	Capacitor, Ceramic, 220 pF 50V ±10%	SL		Insulator, YD 039, TA7222P
C 117	Capacitor, Ceramic, 470 pF 50V ±10%	SL		Insulator, YD 033, 2SC1419
C 5, 8, 11, 30, 32, 34, 35, 37, 39, 42, 43, 44, 65, 170, 402, 403, 404, 405, 406, 407	Capacitor, Ceramic, 0.001 μF 50V ±20%	YD		Insulator, YD 027, 2SC1969, 2SC1306
C 132, 138, 140, 151, 157, 158, 159, 160, 165, 166, 167, 168, 169, 171, 193, 196, 200	Capacitor, Ceramic, 0.0047 μF 50V ±20%	YD		Bushing, YY 036, 2SC1419, 2SC1306, 2SC1969
C 93, 96, 97, 106, 111, 112, 113, 114, 118, 119, 120, 126, 129, 164, 198, 199, 201, 202, 409	Capacitor, Ceramic, 0.01 μF 50V ±20%	YD		Wire Clamp, Y Y-047
C 2, 3, 4, 6, 7, 13, 16, 22, 27, 50, 51, 52, 53, 54, 87, 124, 194, 197, 204, 401	Capacitor, Ceramic, 0.022 μF 50V ±80% ±20%	YF		Core, Speaker, JK-082-003
C 188	Capacitor, Ceramic, 0.047 μF 50V ±80% ±20%	YF		Core, DC Power, V-070234
C 192, 195	Capacitor, Ceramic, 0.1 μF 50V ±80% ±20%	YF		Cable, Flat, V/F-005
CC 1	Capacitor Array, HA-003			Cable, Flat, V/F-109
CT-1, 2	Capacitor, Trimmer, CV 028, 20 pF			Chassis, Main
	CRYSTALS			Case, Top
X 2	Crystal, OX-077, 10.24 MHz			Case, Bottom
X 4	Crystal, OX-092, 7.800 MHz			Case, Holder
X 1	Crystal, OX-093, 7.345 MHz			Bracket, Mounting
X 3	Crystal, OX-086, 11.3258 MHz			Holder, Main PCB
	MISCELLANEOUS			Chassis, Front
	Printed Circuit Board, PC 409AA, Main			Access, Switch
	Printed Circuit Board, PC 416AA, CH SW			Terminal, Grounding, DC PWR
	Printed Circuit Board, PC 426BA, LED			Hanger, Microphone
	Printed Circuit Board, PC 389AA, MIKE			Panel, Front
FT 1	Filter, Ceramic, FL 050			Knob, Channel
FT 2	Filter, Crystal, FL 046			Knob
FT 3	Filter, Crystal, FL 067			Knob, Inner Concentric
				Knob, Outer Concentric
				Channel Display Window
				Channel Display Holder
				Cap, Rubber, LED
				Screw for Mounting Bracket
				Bushing, Polyethylene
				Holder, Polyethylene, Meter
				Washer, Rubber, Mounting Bracket
				Protection Cover, Chassis
				Washer, Felt, Knobs
				Work Coated Paper, Case
				Label, Serial No
				Label, Warning
				Plate, Front
				FCC Name Plate

CIRCUIT SYMBOL	DESCRIPTION	DYNASCAN PART NO
	MISCELLANEOUS (Continued)	
	Screw, Pan Head 3 x 6 Metric	
	Screw, Flat Head 3 x 8 Metric	
	Screw, Blind Head 2 x 5 Metric	
	Screw, Blind Head 2 6 x 5 Metric	
	Screw, Blind Head 2 6 x 6 Metric	
	Screw, Blind Head 2 6 x 10 Metric	
	Screw, Blind Head 3 x 6 Metric	
	Screw, Blind Head 3 x 8 Metric	
	Screw, Round Head 3 5 x 8 Metric	
	Screw, Round Head 5 x 10 Metric	
	Screw, Blind Head 3 x 6 Metric	
	Screw, Blind Head 3 x 8 Metric	
	Nut, Hex 2 6 Metric	
	Nut, Hex 3 Metric	
	Nut, Flange 3 Metric	
	Washer, Spring 2 6 Metric	
	Washer, Lock, 3 5 Metric	
	Washer, Star, 5 Metric	
	Terminal, Solder Lug, 3 Metric	
	Spring Knob	
	Spring Knob	
	Spring Knob	
	Ribbet, FCC Plate	
	Self Lock Insert	
	Styrofoam, Packing Pad	
	Styrofoam, Packing Pad	
	Display Box	
	Shipping Carton Box	
	Instruction Manual	
	Circuit Diagram/Bills of Material	
	Warranty Card	
	Service Station Card	
	FCC Form 505	
	FCC Form 555 B	
	FCC Rules Part 95	



BLOCK DIAGRAM

13



FANFARE 300

Figure 3. Block Diagram, Fanfare 300 Single Sideband Transceiver.

SECTION 1

GENERAL INFORMATION

DESCRIPTION

Your new FANON FANFARE 300 SSB is an all transistorized, 23-channel Citizens Band SSB/AM Transceiver. The unit was designed for mobile operation from a 13.8V DC power source, negative/positive ground. A power cord and mounting hardware are included with your FANON FANFARE 300 SSB.

The receiver is a sensitive superheterodine circuit featuring:

Crystal Synthesizer	{	Adjustable Squelch
Low Noise RF Stage	{	Noise Blanker
Signal Clarifier	{	External Speaker Jacks

The transmitter features "synthesis" techniques in producing a highly stable signal generating circuit, driving the transmitter final.

Both the receiver and transmitter operate on the UPPER SIDEBAND, LOWER SIDEBAND and AM.

SPECIFICATIONS

GENERAL

Frequency Range :	23 Channels, Crystal-Controlled AM Upper Side Band and Lower Side Band 26.965 MHz to 27.255 MHz
Frequency Control :	Synthesizer
Frequency Tolerance :	± 500Hz at 25° C.
Frequency Stability :	0.005%, from -30° to 50° C.
Operating Temperature :	20° C to - 50° C.
Primary Power :	Input Voltage 13.8 VDC (EIA Standard)
Antenna :	50 ohm Coaxial
Dimensions :	H: 2-5/16"; W: 7-1/2"; L: 9-1/2" (16×19×24cm)
Weight :	6 Lbs. (2.7 kg)

RECEIVER

Sensitivity :	S.S.B. Less than 0.15µV for 10db S + N N.A.M. Less than 0.5µV for 10db S + N N
Selectivity :	S.S.B. ± 2.1KHz at 6db AM ± 3.5KHz at 6db
Spurious Rejection :	More than 60db
Squelch Range :	Adjustable from 0.3µV to 500µV
L.F. Freq. :	S.S.B. 7.8MHz A.M. 7.8MHz
Clarifier Range :	± 600Hz
Audio Output :	6 Watts

TRANSMITTER

Input Power :	AM = 5 Watts; SSB = 15 Watts PEP
Output Power :	AM = 3.5 Watts; SSB = 8 Watts PEP Nominal
Modulation Capability :	100%
Frequency Response :	400Hz at 3db- 3KHz at 3db
Spurious Harmonic Suppression :	Better Than - 50db Down
Output Impedance :	50 ohms unbalanced
SSB Filter :	7.8Hz crystal Lattice Type 2.1KHz at 6db, 5.5KHz at 60db
Frequency Tolerance :	Better Than ± 0.005%

DO NOT TRANSMIT WITH YOUR EQUIPMENT UNTIL YOU HAVE RECEIVED YOUR LICENSE FROM THE DOC. Illegal operation can result in severe penalties. A license application form can be obtained from your nearest DOC Radio Regulations office. Consult your local telephone directory under "Government-Canada Communications." See also page 7.

FREQUENCIES AVAILABLE FOR CLASS D OPERATION

Channel	MHz	Channel	MHz	Channel	MHz
1	26.965	5	27.015	9	27.065
2	26.975	6	27.025	10	27.075
3	26.985	7	27.035	11	27.085
4	27.005	8	27.055	12	27.105

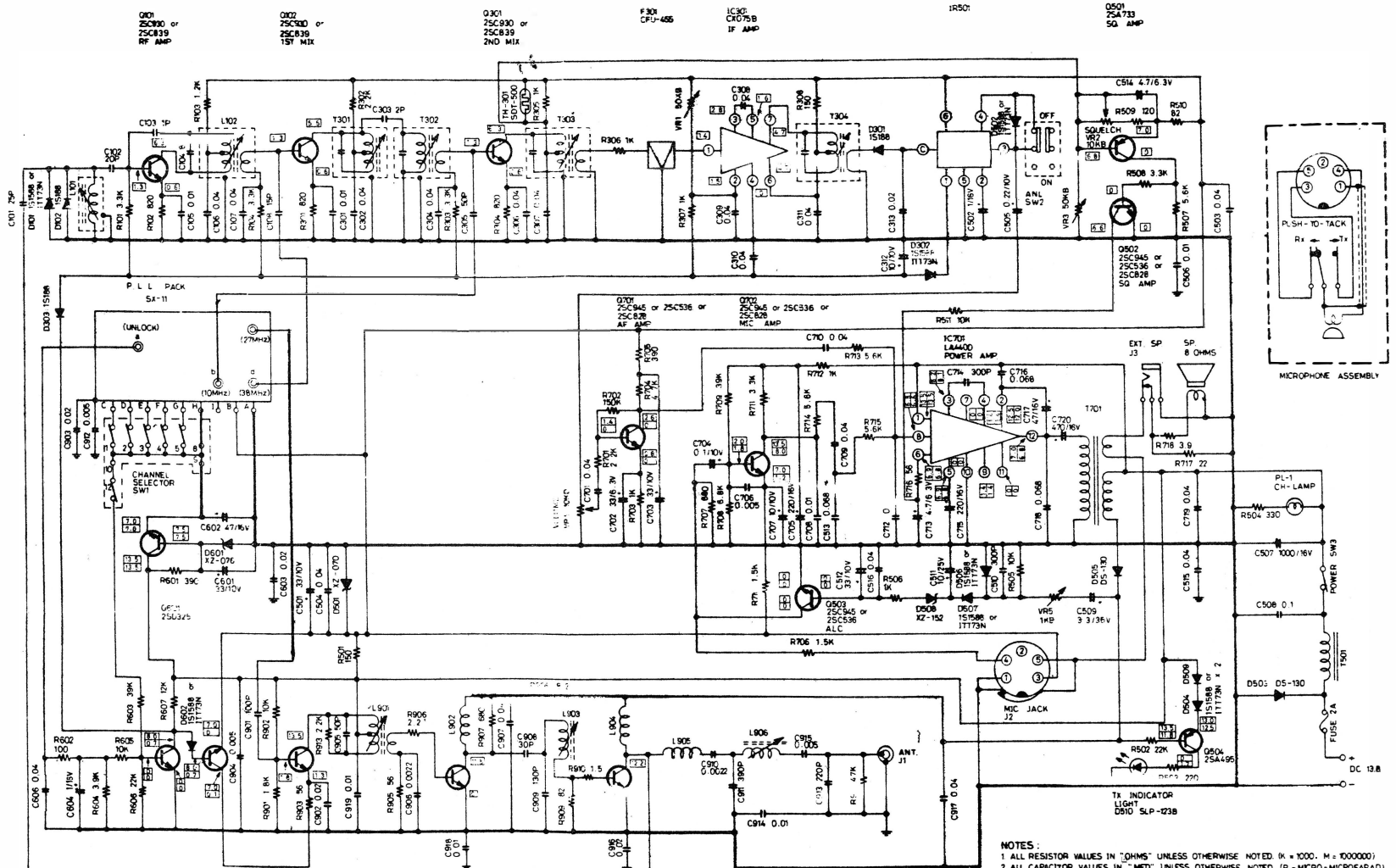
GENERAL ELECTRIC
MOB. 3-5800

"10" CODE

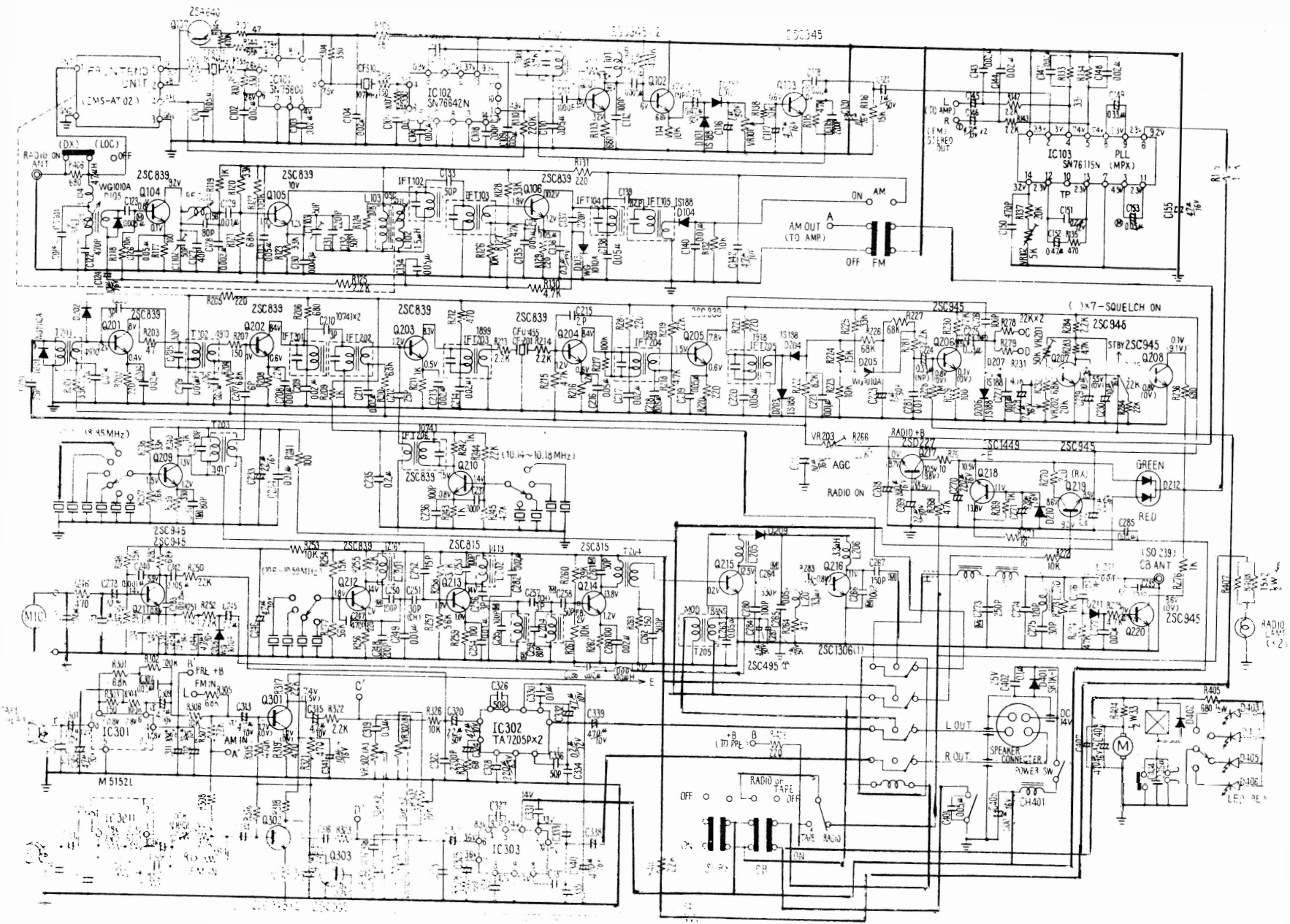
Reduced for your convenience.
Cut out on dotted line and carry
or tape near CB for immediate
use

"10 CODE"

- 10-1 - Signal weak
- 10-2 - Signal good
- 10-3 - Stop transmitting
- 10-4 - Affirmative (OK)
- 10-5 - Relay (to)
- 10-6 - Busy
- 10-7 - Out of service
- 10-8 - In service
- 10-9 - Say again
- 10-10 - Negative
- 10-11 - On duty
- 10-12 - Stand by (stop)
- 10-13 - Existing conditions
- 10-14 - Message/Information
- 10-15 - Message delivered
- 10-16 - Reply to message
- 10-17 - Enroute
- 10-18 - Urgent
- 10-19 - (In) Contact
- 10-20 - Location
- 10-21 - Call by phone
- 10-22 - Disregard
- 10-23 - Arrived at scene
- 10-24 - Assignment completed
- 10-25 - Report to (meet)
- 10-26 - Estimated time of arrival
- 10-27 - License/Permit information
- 10-28 - Ownership information
- 10-29 - Records check
- 10-30 - Danger/Caution
- 10-31 - Pick Up
- 10-32 - Units needed
Specify Number Type
- 10-33 - Help me quick
- 10-34 - Time

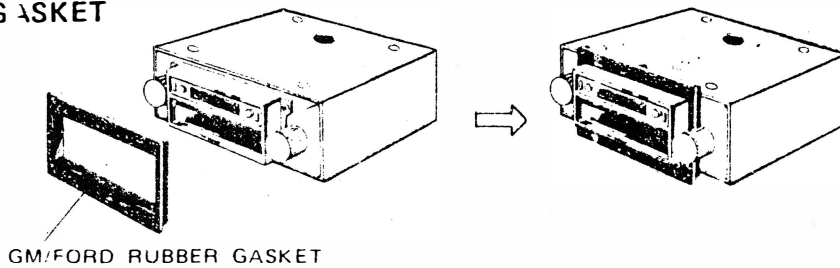


NOTES:
 1. ALL RESISTOR VALUES IN "OHMS" UNLESS OTHERWISE NOTED. (K = 1000, M = 1000000)
 2. ALL CAPACITOR VALUES IN "MFD" UNLESS OTHERWISE NOTED (P = MICRO-MICROFARAD)
 3. ALL VOLTAGES IN "VOLTS"
 4. ALL VOLTAGES IN BONES ARE MEASURED UNDER FOLLOWING CIRCUIT CONDITIONS:
 1) POWER SUPPLY VOLTAGE = 13 BY
 2) ALL VOLTAGE MEASUREMENTS ARE WITH NO SIGNAL INPUT
 3) ALL VOLTAGES ARE MEASURED UNDER UNSWITCHED CONDITION
 4) VOLTAGES IN PARENTHESIS ARE MEASURED FROM THE COMMON NEGATIVE GROUND
 UPPER IN RECEIVE MODE AND LOWER IN TRANSMIT MODE
 5) MEASURED WITH V.T.V.M
 5. ALL VALUES AND RATINGS ARE SUBJECT TO CHANGE FOR IMPROVEMENT WITHOUT NOTICE



INDASH

RUBBER GASKET



CAUTION:

It is advisable to remove the Tape Cartridge from the unit when not in use.
Do not insert any substance other than the tape cartridge into the cartridge compartment

SPECIFICATIONS:

1) 8 TRACK STEREO AND RADIO:

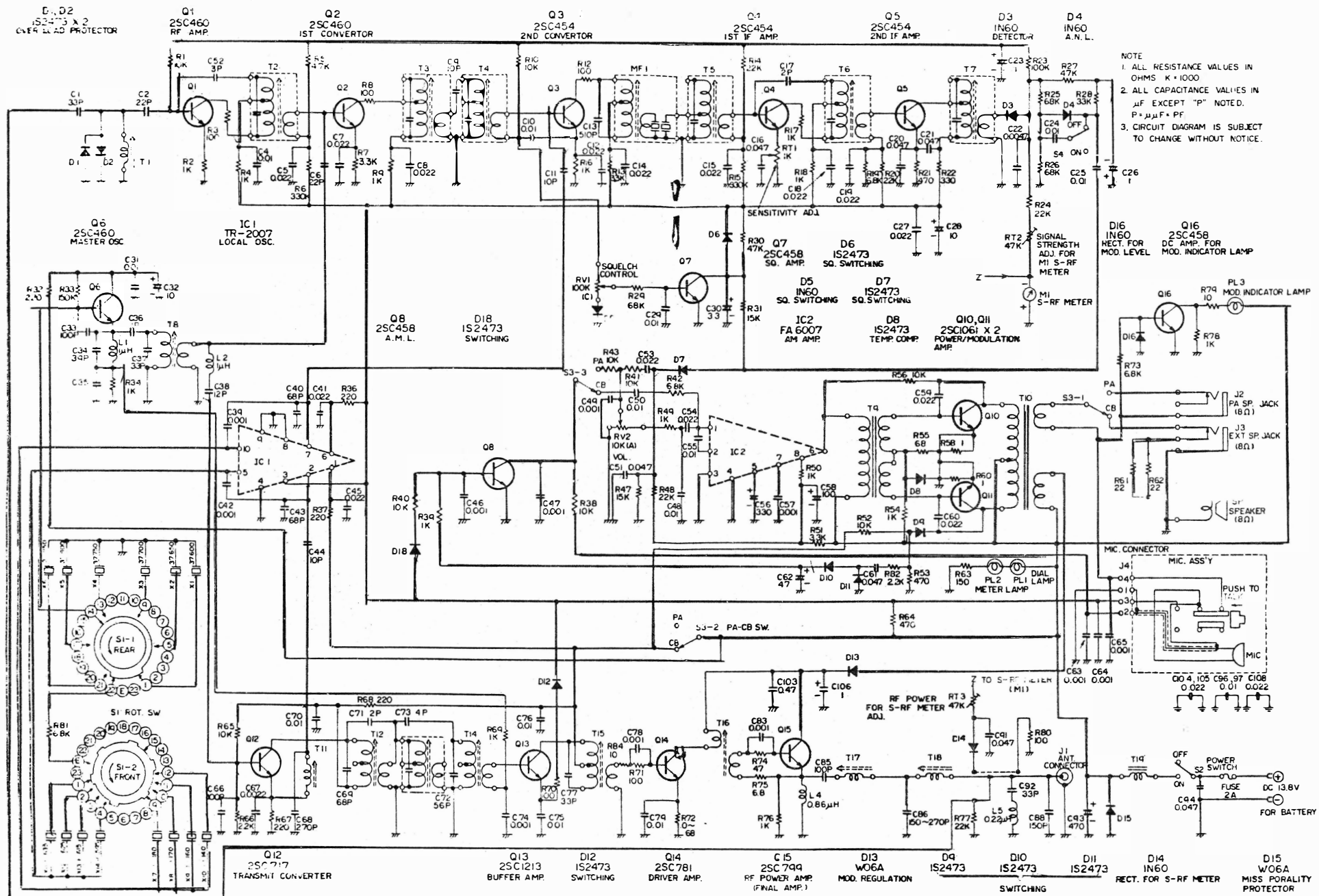
Tape Drive System:	Capstan drive for stereophonic playback
Circuit:	6 IC's, 30 Silicon Transistors, 19 Diodes
Playback System:	8-track 2 channel continuous play
Tape Speed:	3-3/4 inches per second
Wow and Flutter:	Less than 0.3%
Output Power:	5 watts RMS (8 ohms per channel @ THD 10%)
Frequency Response:	50 ~ 10,000 Hz
Distortion:	Less than 3%
Separation (Cross Talk):	Better than 45 db
Signal to Noise Ratio:	Better than 45 db
Radio Frequency Range:	AM: 530 ~ 1,610 KHz, FM: 88 ~ 108 MHz
Usable Sensitivity:	Less than 20 db
Stereo Separation:	More than 23 dB
Intermediate Frequency:	AM: 262.5 KHz, FM: 10.7 MHz
Loudspeaker Impedances:	4 ohms or 8 ohms
Power Requirements:	+14 volts DC
Controls Provided:	Volume, Balance and Tone Controls. Manual track selector. AM/FM, Local/Distance Switch. Antenna Trimmer Built-in, Squelch Control, Stand-by Switch, CB Switch.

2) CB TRANSCEIVER:

1. RECEIVER:	
Frequency Range (MHz):	26.965 ~ 27.255
Sensitivity:	1 μ V for 10 db S/N
Selectivity:	5 KHz min. at 6 db down
Adj. Channel Rejection:	More than 45 db
Audio Fidelity (1 KHz = 0 db, 6 db down):	400 Hz ~ 2,000 Hz
A.G.C. Figure of Merit:	More than 80 db
(Input 94 db for 10 db range)	
Squelch Sensitivity (Threshold):	Less than 0.5 μ V
Spurious Response:	More than 45 db
2. TRANSMITTER:	
Frequency Range (MHz):	26.965 ~ 27.255
RF Output:	3.5 watt
Modulation Capability:	More than 80%
Spurious Suppression:	More than 50 db
Frequency Tolerance:	\pm 0.005%
Usable Ambient Temperature:	-30°C ~ +50°C

PACKING CONTENTS

- 1) Rubber Gasket for GM & Ford
- 1) VW Outer Trim
- 1) Universal Plate (Front: Leather, Back: Walnut Grain)
- 1) Knobs
- 1) Back-Up Plate



J.C. PENNEY

SPECIFICATIONS

RECEIVER

Channel	..... All 23 channels
Sensitivity	..... 0.35 μ v 10 db S+N/N
Selectivity	..... 50 db \pm 10 kHz
Squelch	..... Adjustable
I-F Frequency	..... 1st I F = 10.595 to 10.635 MHz 2nd I F = 455 kHz
Audio Output	..... 5 Watts

TRANSMITTER

Channel	..... All 23 channels
Power Output	..... 3 Watts
Modulation	..... +100%, -90%
R-F Frequency Stability	..... 0.002%

IC'S

IC 1	TR2007	..... Local Oscillator
IC 2	FA6007	..... Audio Amplifier

TRANSISTORS

Q 1	2SC460	..... R-F Amplifier
Q 2	2SC460	..... First Mixer
Q 3	2SC454	..... Second Mixer
Q 4	2SC454	..... First I-F Amplifier
Q 5	2SC454	..... Second I-F Amplifier
Q 6	2SC460	..... Master Oscillator
Q 7	2SC458	..... Squelch Amplifier
Q 8	2SC458	..... Automatic Modulation Limiter

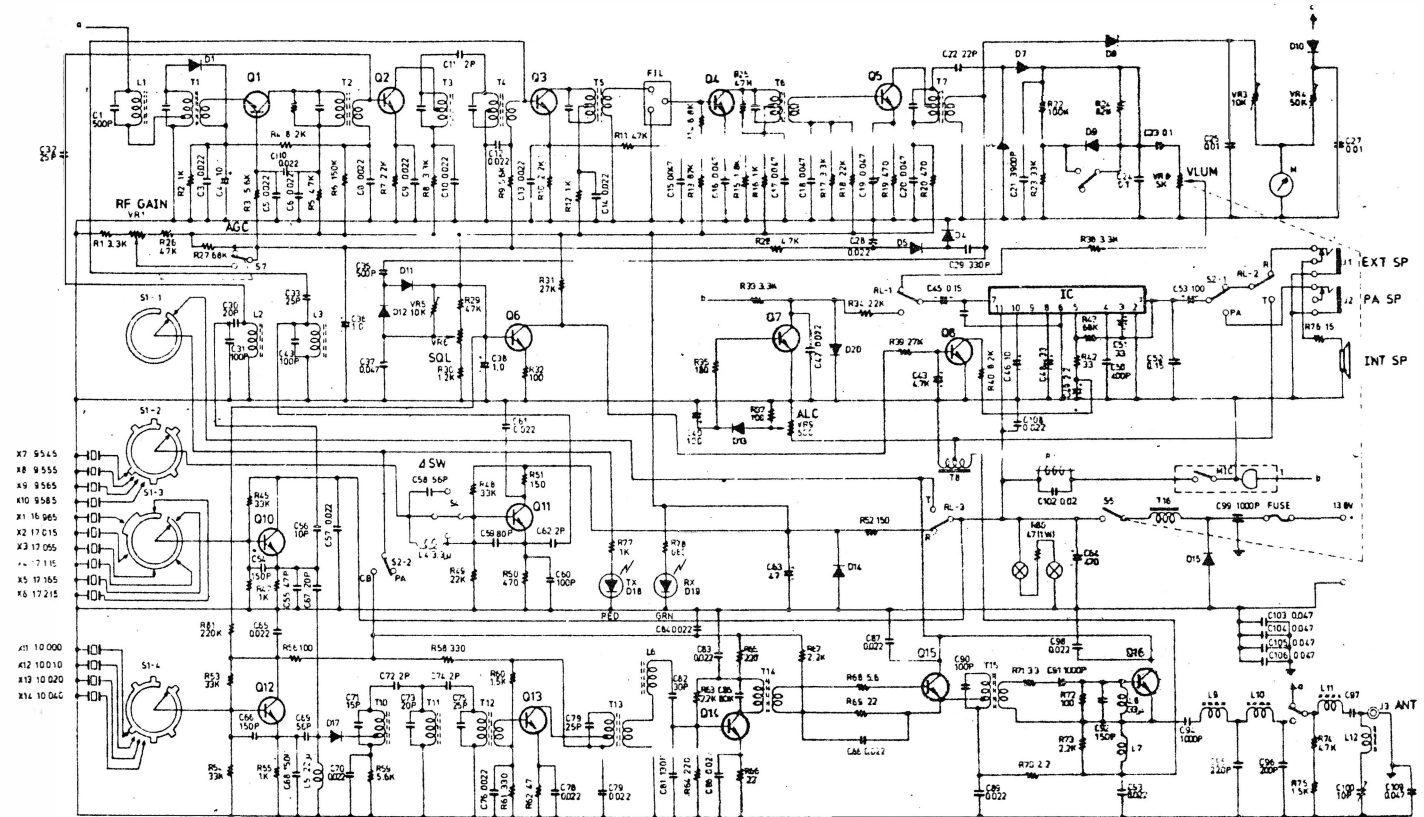
Q10	2SC1061	..... Audio Power Output/Modulation
Q11	2SC1061	..... Audio Power Output/Modulation
Q12	2SC717 or 2SC454	..... Transmit Mixer
Q13	2SC1213 or 2SC454	..... Transmit Buffer Amplifier
Q14	2SC781 or 2SC1728	..... Transmit Driver Amplifier

Q15	2SC799 or 2SC1239	..... Transmit Final Amplifier
Q16	2SC458	..... Modulation Lamp Switching

DIODES

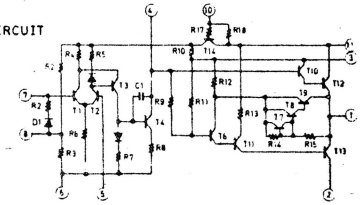
D 1	1S2473	..... Over Load Protector
D 2	1S2473	..... Over Load Protector
D 3	1N60	..... Detector
D 4	1N60	..... Automatic Noise Limiter
D 5	1N60	..... Switching
D 6	1S2473	..... Switching
D 7	1S2473	..... Switching
D 8	1S2473	..... Temperature Compensator
D 9	1S2473	..... Switching
D10	1S2473	..... Switching
D11	1S2473	..... Switching
D12	1S2473	..... Switching
D13	W06A	..... Modulation Regulator
D14	1N60	..... Rectifier for S/R-F Meter
D15	W06A	..... Mis Polarity Protector
D18	1S2473	..... Switching
D19	1N60	..... Rectifier

GENERAL POWER REQUIREMENT	..... 12-14V DC
DIMENSIONS	..... 1 1/2" (H) x 6 1/4" (W) x 7 1/4" (D)
WEIGHT	..... 2 lbs. 14 oz



- X7 9545
- X8 9555
- X9 9565
- X10 9585
- X11 9685
- X2 17 015
- X3 17 095
- X4 17 115
- X5 17 165
- X6 17 215
- X17 10 000
- X18 10 010
- X19 10 020
- X16 10 040

IC (AN355F) EQUIVALENT CIRCUIT



IC AN355	IC	Q1	25C1359(C)	Q12	25C820(C)
IN60	O6 7 8 10 11 12	Q2	25C829(B)	Q13	25C1359(C)
IS2076	D1 4 5 9 20	Q3	25C829(A)	Q14	25C1973
W06	D15	Q4	25C829(A)	Q15	25C1567(P)
IS1941	D17	Q5	25C829(C)	Q16	25C1846
KB269	D13	Q6	25C828(P)		
WZ090	D14	Q7	25C828(P)		
LED GL-52AR	D18	Q8	25C828(G)		
LED GL-52PG	D19	Q10	25C1359(C)		
		Q11	25C829(B)		

SCHEMATIC DIAGRAM OF MODEL KCB 1402

KRACO

TECHNICAL SPECIFICATIONS MODEL KCB-1402

GENERAL

Circuitry	15 Transistors, 1 IC, 17 Diodes and 14 Crystals
Frequency Control	Crystal synthesizing system
Channels	23 channels all installed
Mode of Operation	AM
Power Source Voltage	13.8 Volt DC negative or positive ground
Speaker	3" Dynamic 4 ohm
Microphone	Dynamic

RECEIVER SECTION

Receiving System	Crystal Controlled dual conversion super-heterodyne system
Sensitivity	0.7 μ V for 10 dB S/N
Delta Tuning	About \pm 1 KHz
Image Rejection	Better than -45 dB
Audio Output Power	4 watts into 4 ohm
Squelch Sensitivity	0.5 μ V
IF	1st 10.0 MHz 2nd 455 KHz

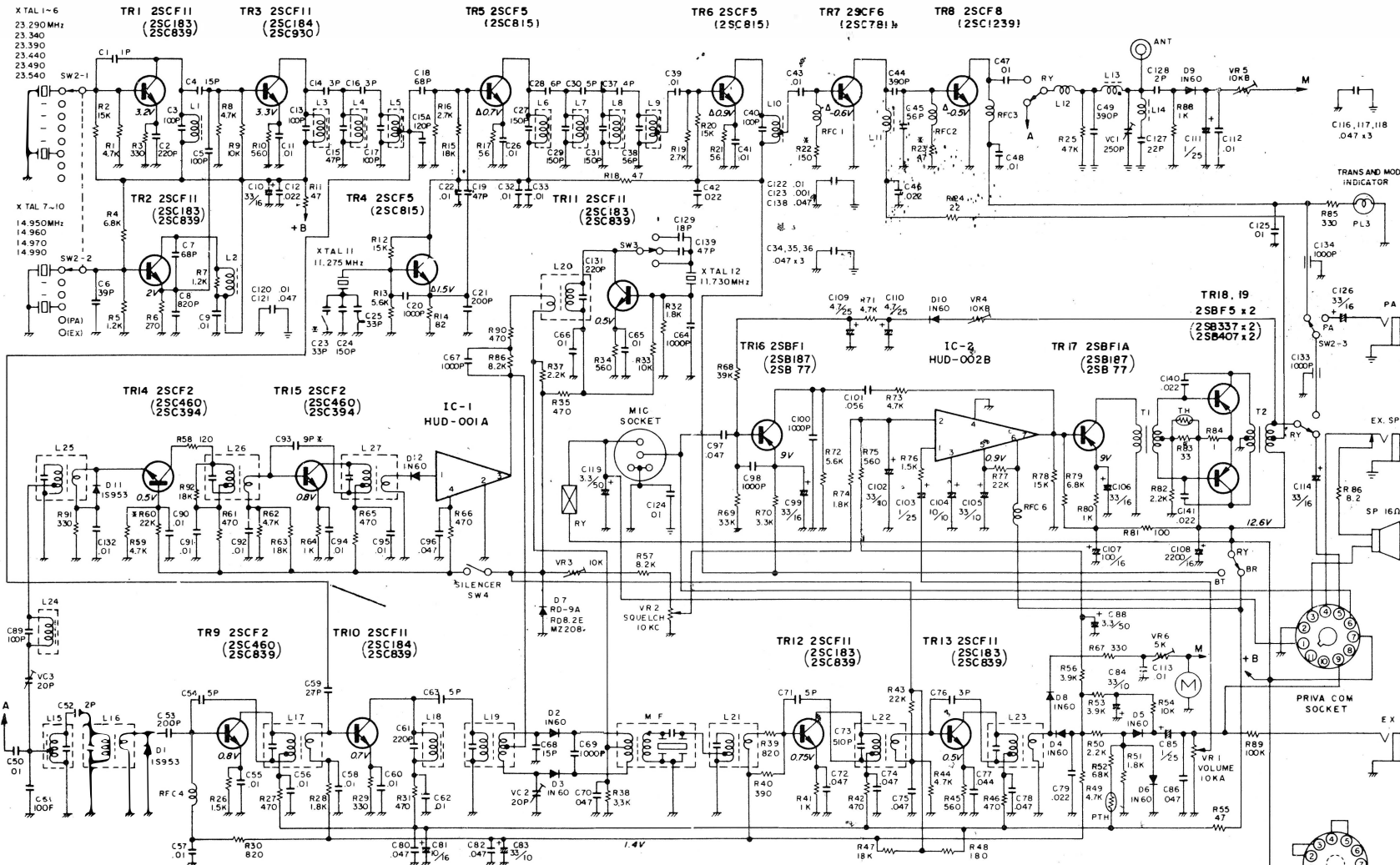
TRANSMITTER SECTION

Modulation System	High level class B, AM emitter modulation system
RF Output Power at 13.8 V	4 watts (FCC Maximum)
Frequency Tolerance	\pm 0.005%
Spurious Rejection	-55 dB

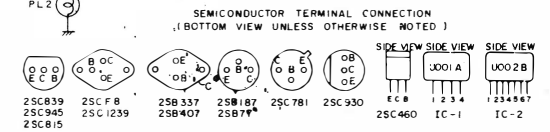
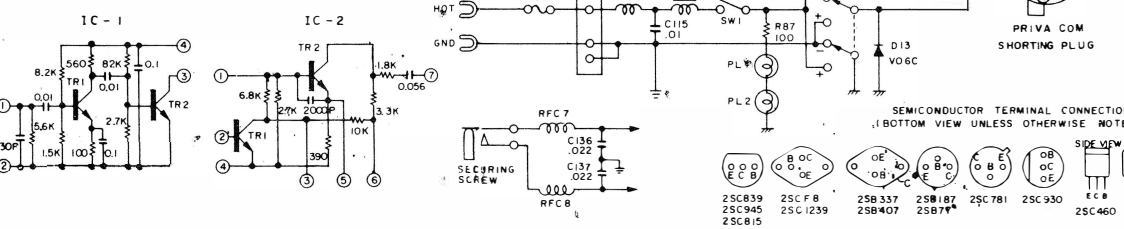
For your own protection, we urge you to record the serial number of this unit in space provided. You will find the Serial number on the back of this unit.

Serial Number _____

KRACO

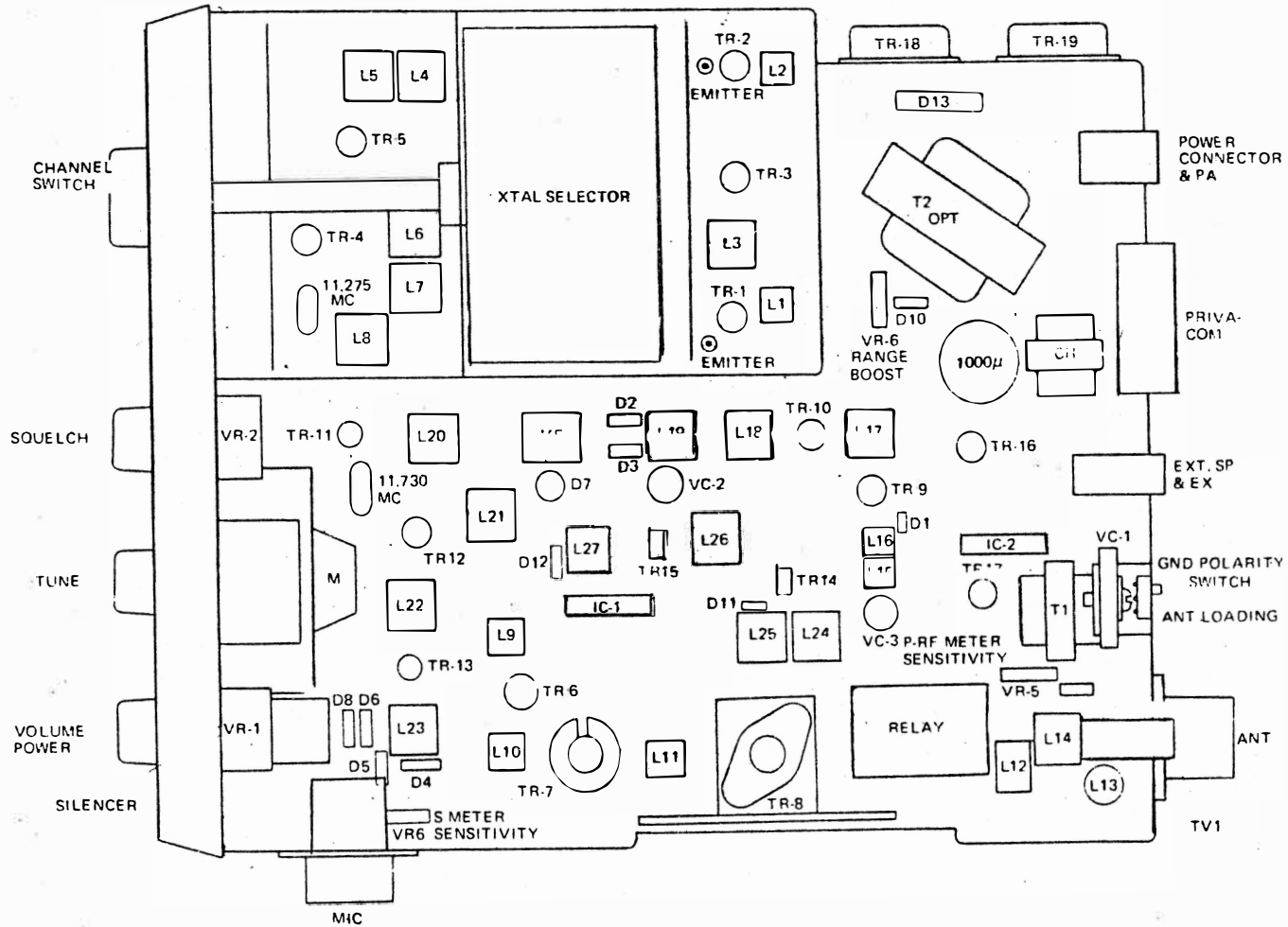


- * All measurements are D.C. and obtained with NO SIGNAL INPUT and volume controls at extreme minimum position.
- * All measurements obtained using Tester [Impedance: Higher than 20,000 ohms]
- * All measurements are relative to chassis ground.
- * All unmarked polarity measurements are positive to chassis ground.
- * If measurements obtained are in excess of plus/minus 20 percent of values shown then reason for difference should be corrected
- * Δ VOLTAGE DURING TRANSMIT * VARIABLE
- * This schematic applicable to units bearing serial NO.085-505-1501 on higher.



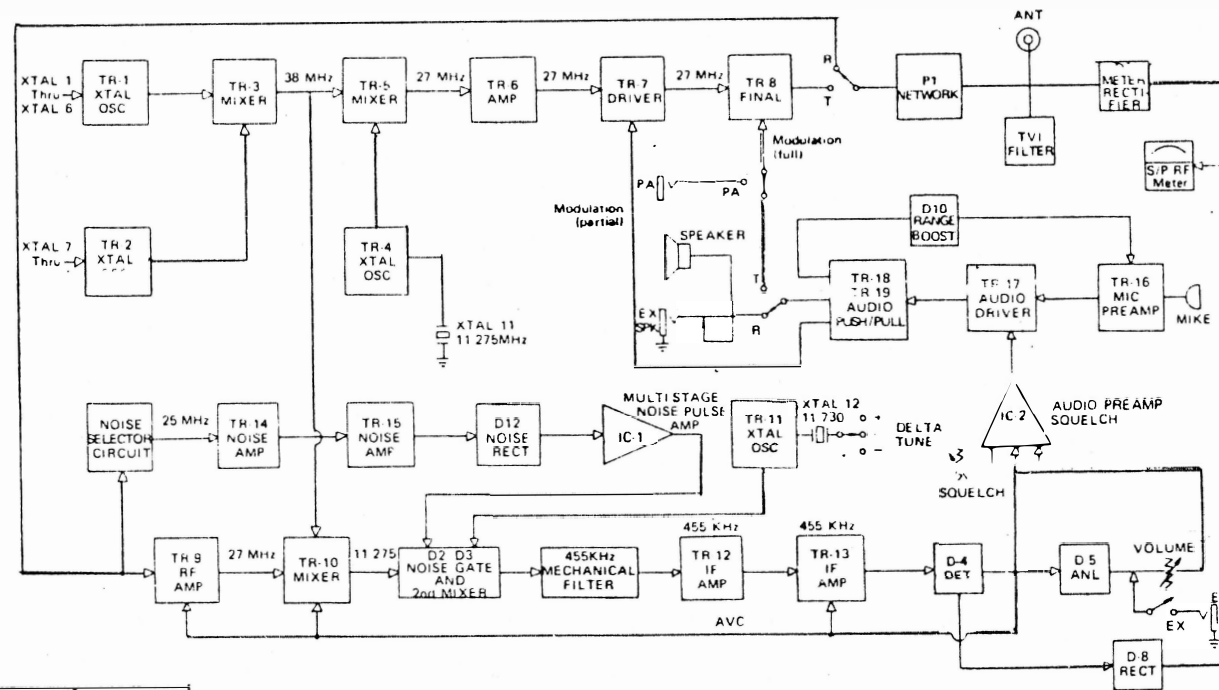
E: EMITTER
C: COLLECTOR
B: BASE

HB-625A SCHEMATIC DIAGRAM



COMPONENT AND ADJUSTMENT POINT LOCATIONS

LAFAYETTE - HB-625A



XTALS	Channels for which used
1 23 290	1-4
2 23 340	5-6
3 23 350	9-12
4 23 440	13-16
5 23 490	17-20
6 23 540	21-23
7 14 950	1, 5, 9, 13, 17, 21
8 14 960	2, 6, 10, 14, 18, 22
9 14 970	3, 7, 11, 15, 19
10 14 990	4, 8, 12, 16, 20, 23

FUNCTIONAL BLOCK DIAGRAM

LAFAYETTE - HB - 625A

SPECIFICATIONS

RECEIVER

CIRCUIT TYPE	Dual conversion superheterodyne; Crystal frequency synthesizer provides 23 crystal-controlled transmit and receive channels.
SENSITIVITY	0.7 μ V for 10 dB S + N to N ratio at 30% at 1000 Hz modulation.
SELECTIVITY	6 dB down at 6 KHz; 45 dB down at \pm 10 KHz.
INTERMEDIATE FREQUENC	1st IF: 11.275 MHz. 2nd IF: 455 KHz.
AUDIO OUTPUT	3 watts into ext. spkr. jack.
AUXILIARY CIRCUITS	(1) RF noise silencer (on-off). (2) Full-time automatic noise limiter (audio). (3) Crystal-controlled fine tuning (delta). (4) Adjustable squelch (5) 455 KHz mechanical filter. (6) "S" meter/RF power.

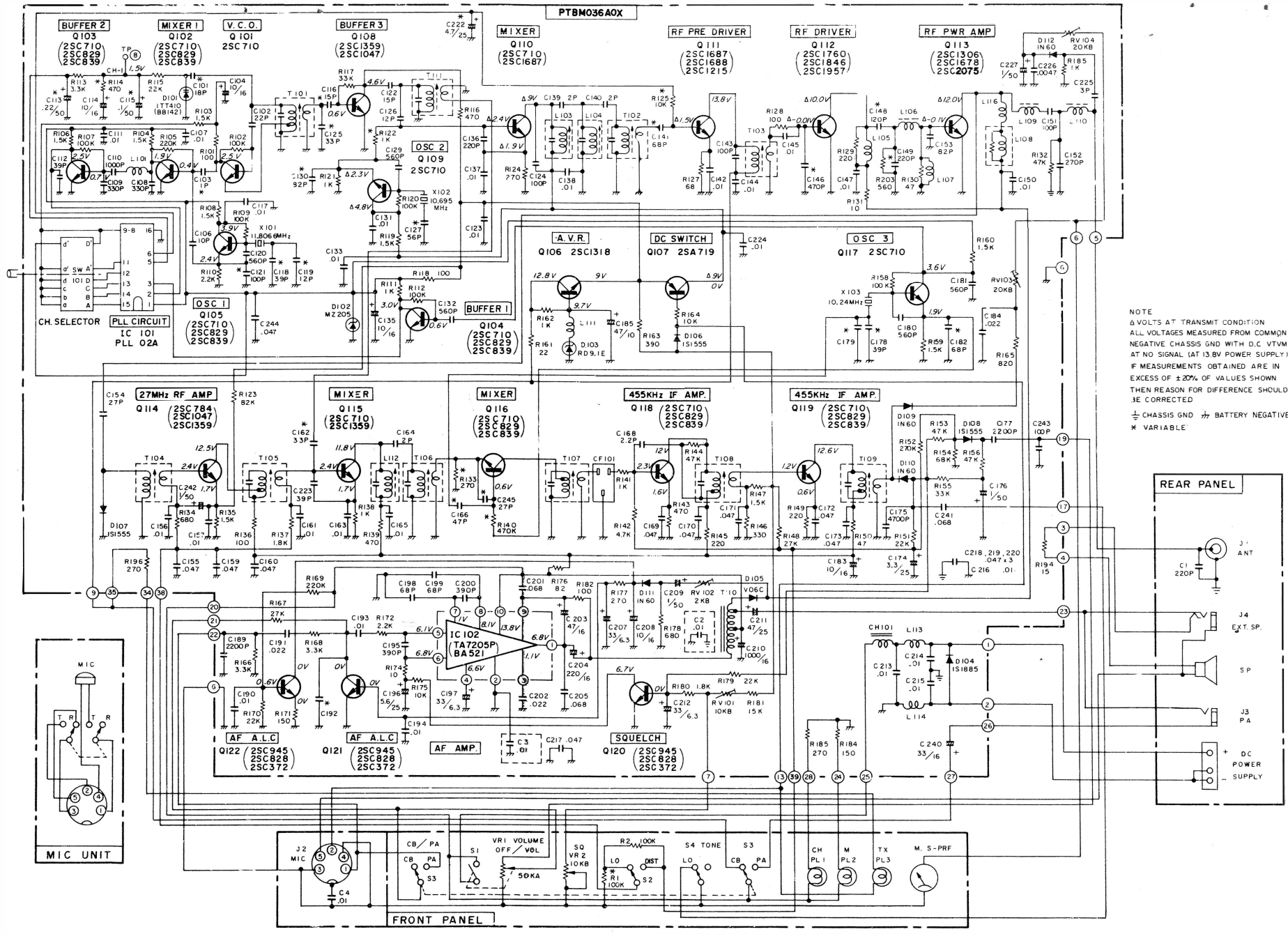
TRANSMITTER

PLATE POWER INPUT	5 watts
RANGE BOOST	Yields high average modulation at average voice levels (90% typical).
CARRIER DEVIATION	Not greater than \pm 800 Hz on any channel (exceeds FCC requirements).
HARMONIC SUPPRESSION	Exceeds FCC requirements.
ANTENNA MATCHING	Nominal 50 Ω (may be used with 30-100 Ω antennas)

GENERAL

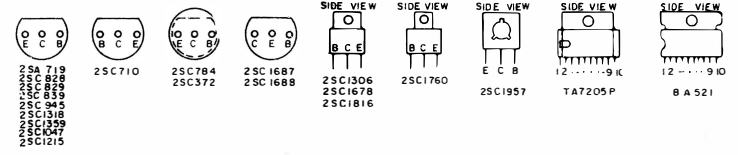
SEMI-CONDUCTORS	2 Integrated circuits, 19 transistors, 13 diode
POWER SUPPLY	11.5 to 14.5 volts DC, negative or positive ground (with external switching) or with optional 117 volts AC power supply (PS-52)
ACCESSORIES	(1) Push-to-talk dynamic microphone. (2) DC power cable. (3) Mobile mounting bracket. (4) Microphone clip

LAFAYETTE - HB-625A



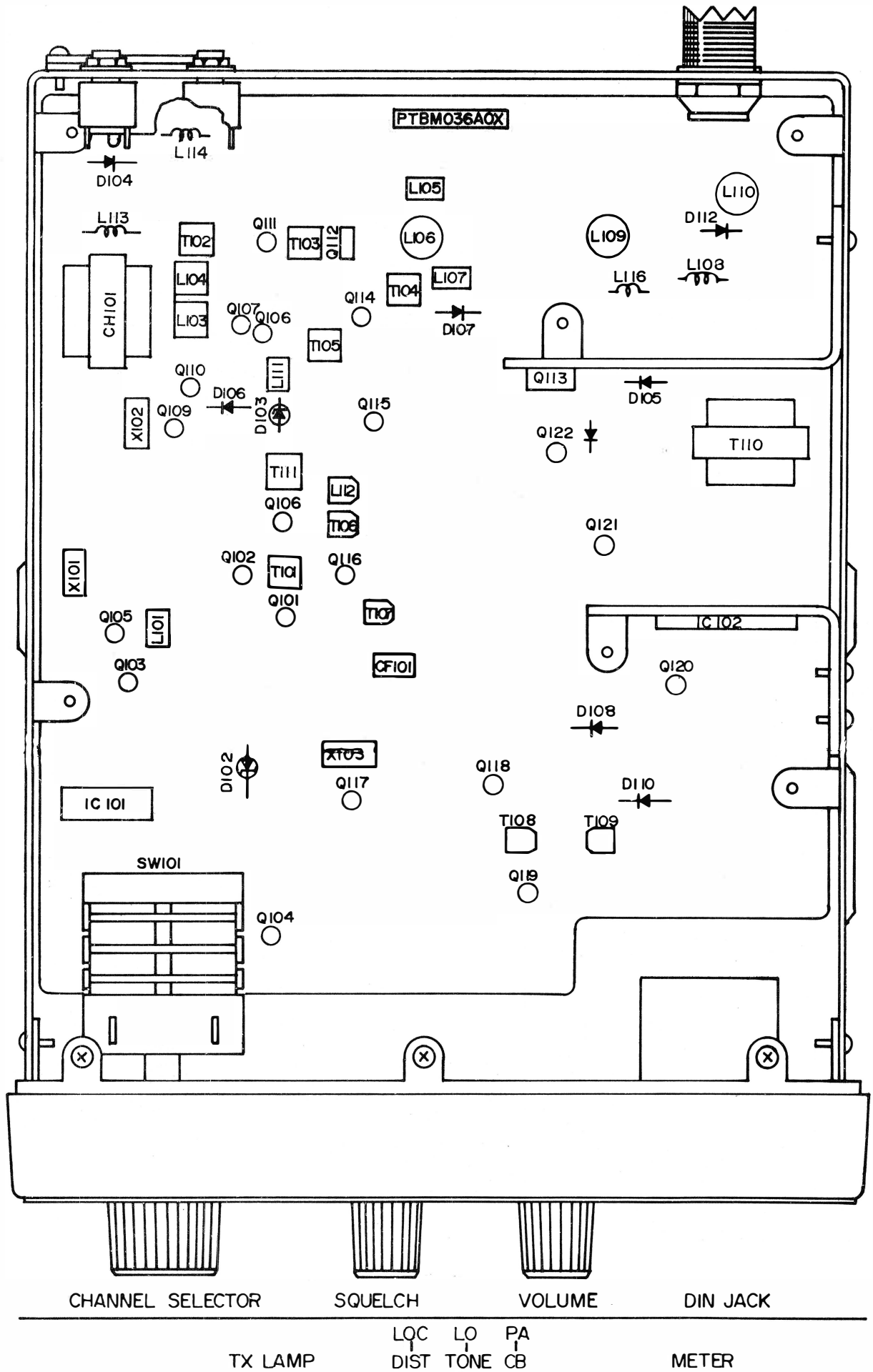
NOTE
 Δ VOLTS AT TRANSMIT CONDITION
 ALL VOLTAGES MEASURED FROM COMMON
 NEGATIVE CHASSIS GND WITH D.C. VTVM
 AT NO SIGNAL (AT 13.8V POWER SUPPLY)
 IF MEASUREMENTS OBTAINED ARE IN
 EXCESS OF ±20% OF VALUES SHOWN
 THEN REASON FOR DIFFERENCE SHOULD
 BE CORRECTED
 ⊥ CHASSIS GND ⊥ BATTERY NEGATIVE
 * VARIABLE

SEMICONDUCTOR TERMINAL CONNECTION (BOTTOM VIEW UNLESS OTHERWISE NOTED)

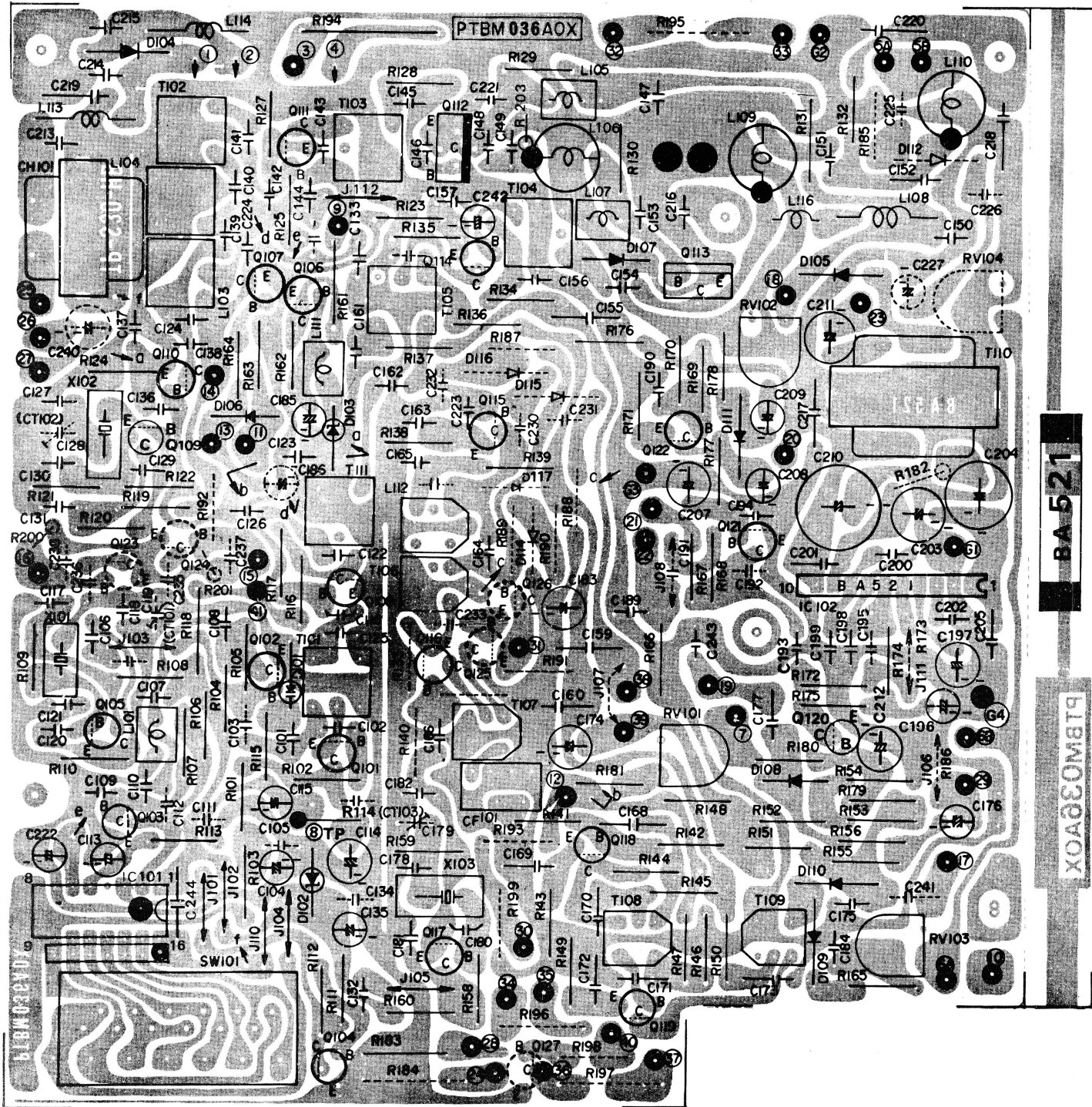


E : EMITTER
 C : COLLECTOR
 B : BASE

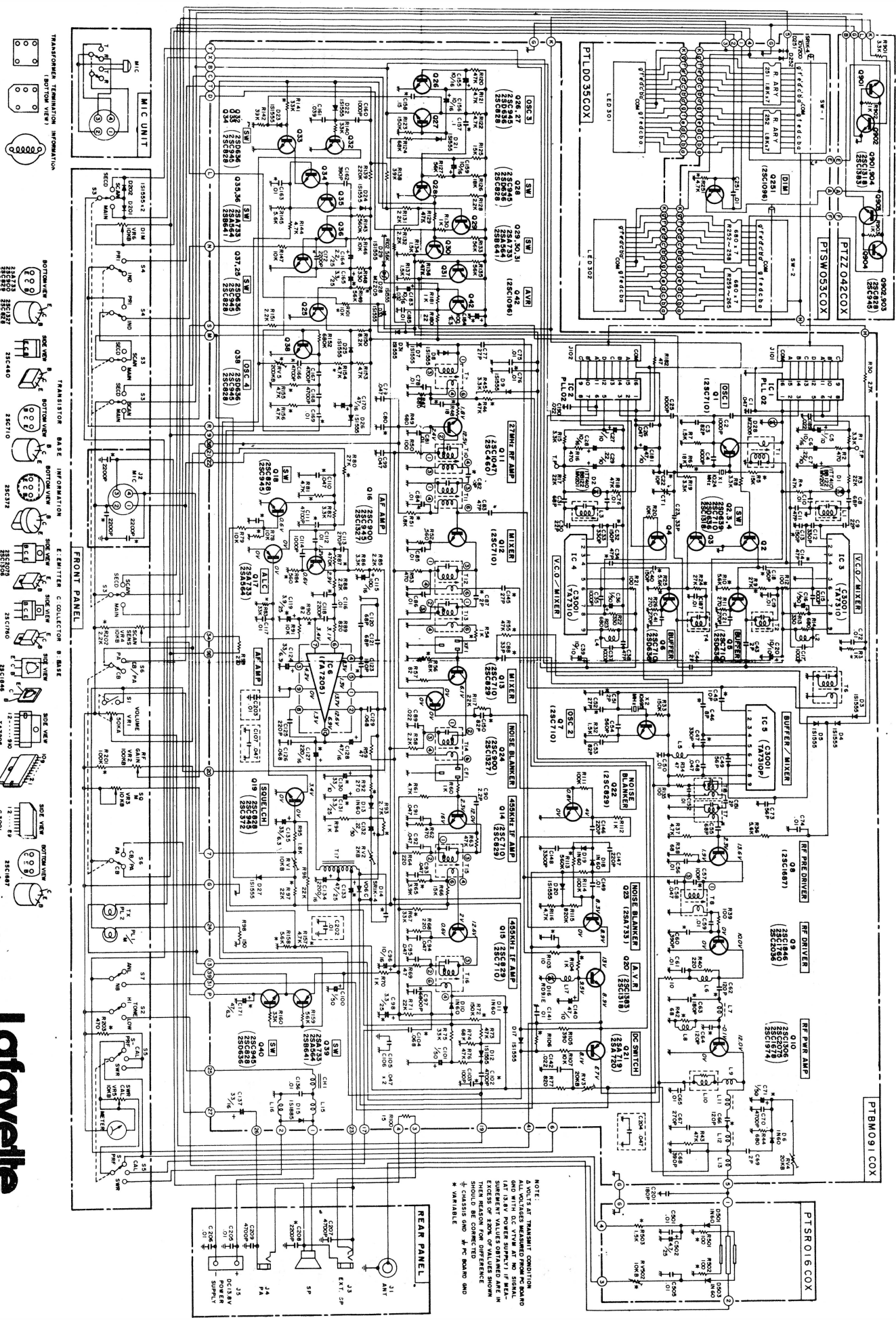
HB-650 SCHEMATIC DIAGRAM



PARTS LOCATION

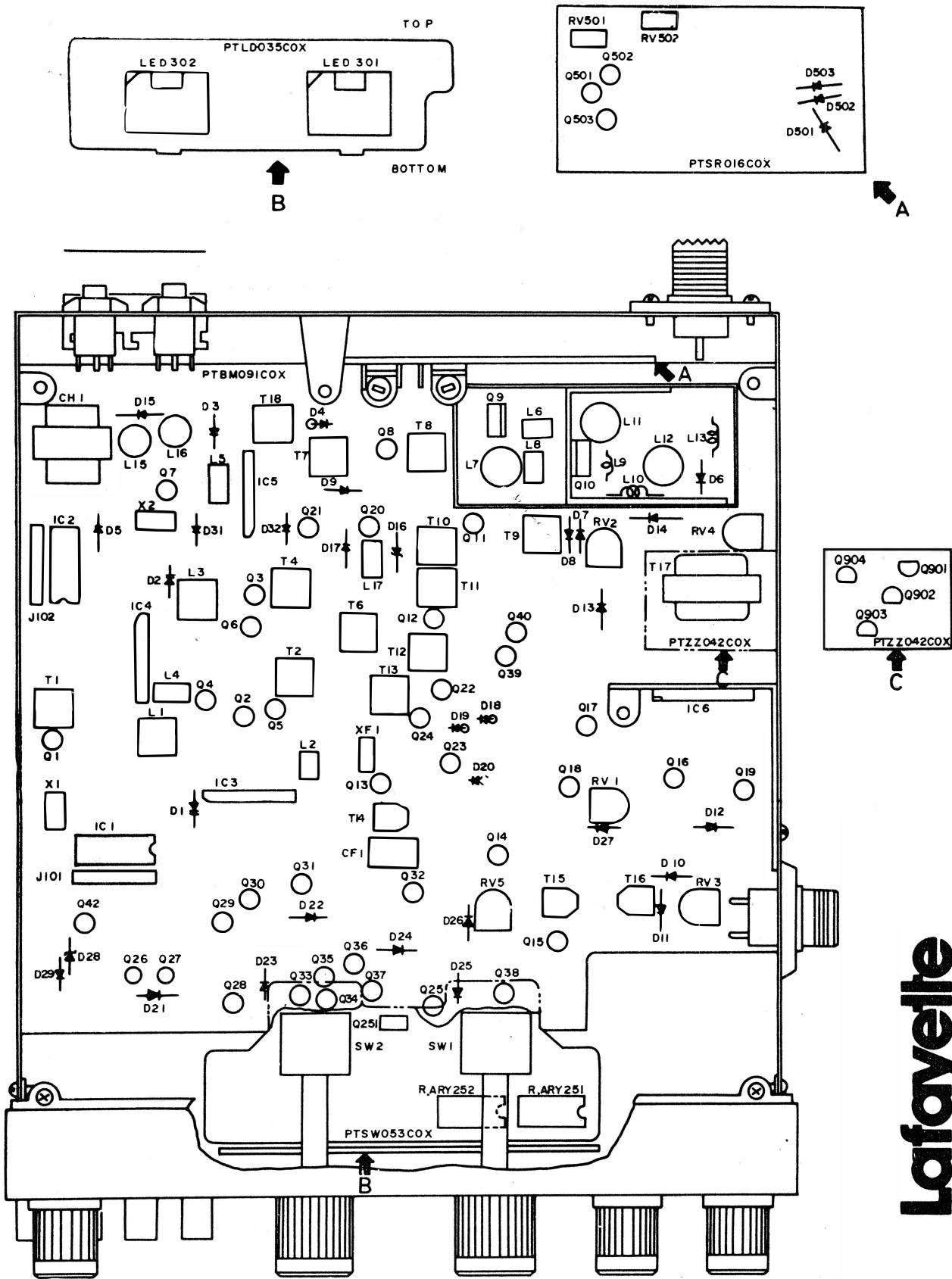


PC BOARD



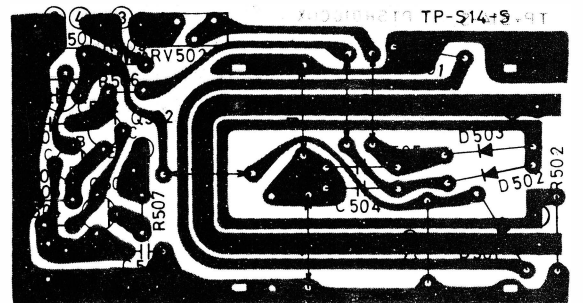
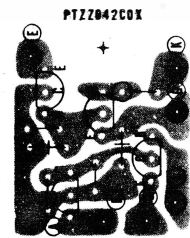
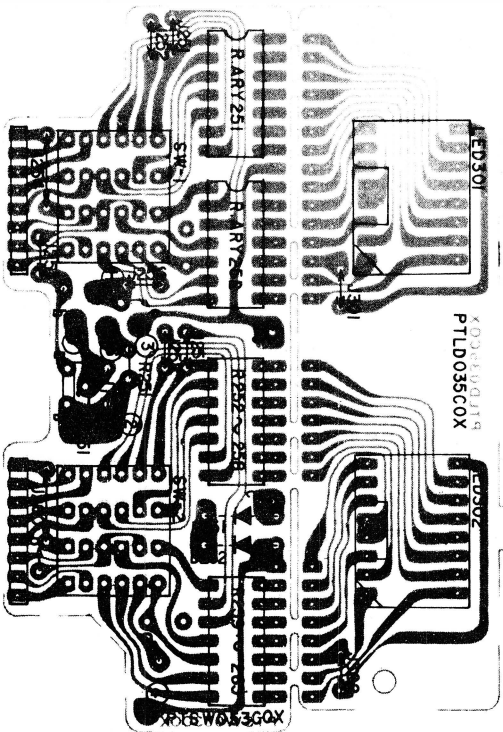
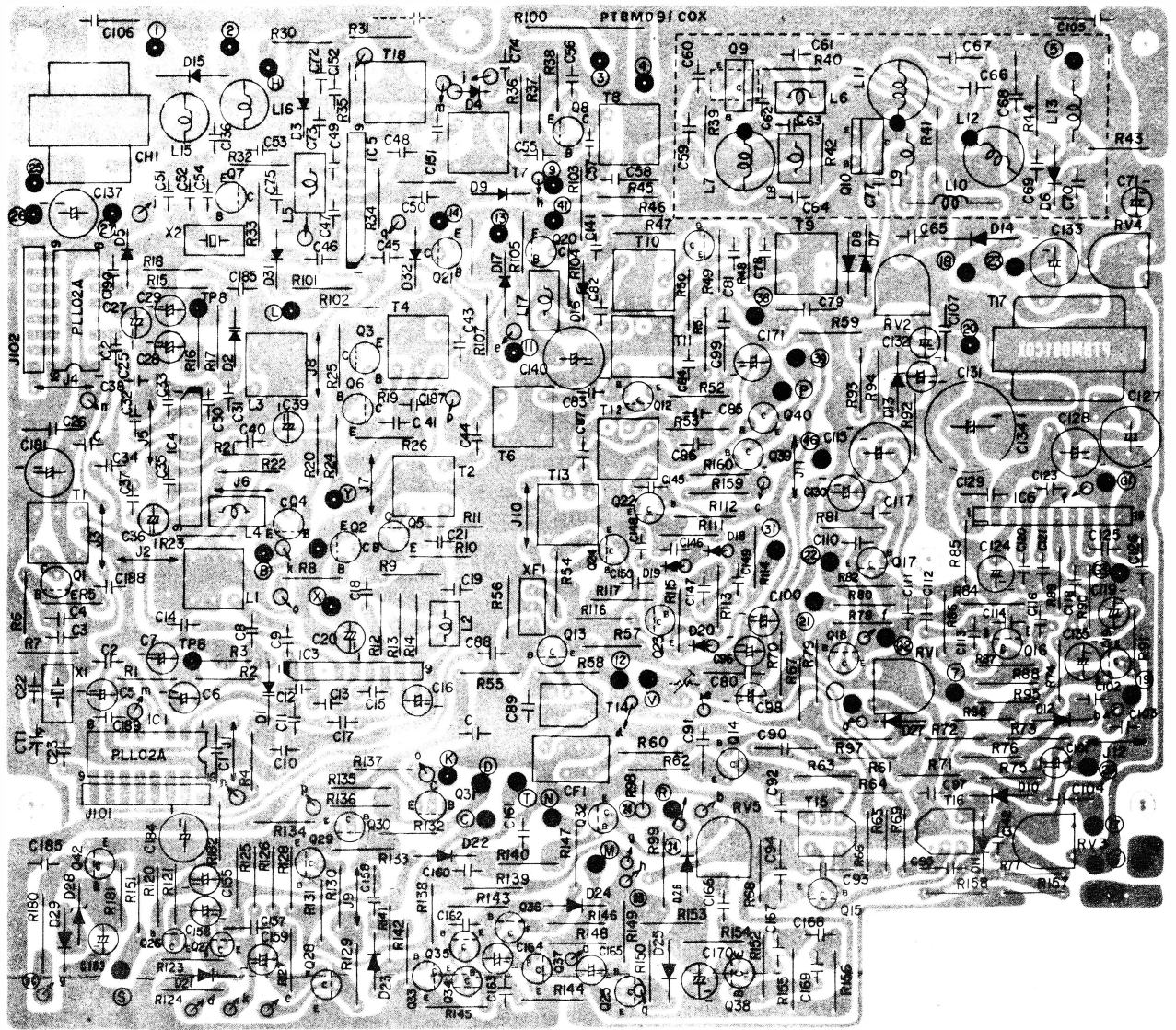
Lafayette
LM-300

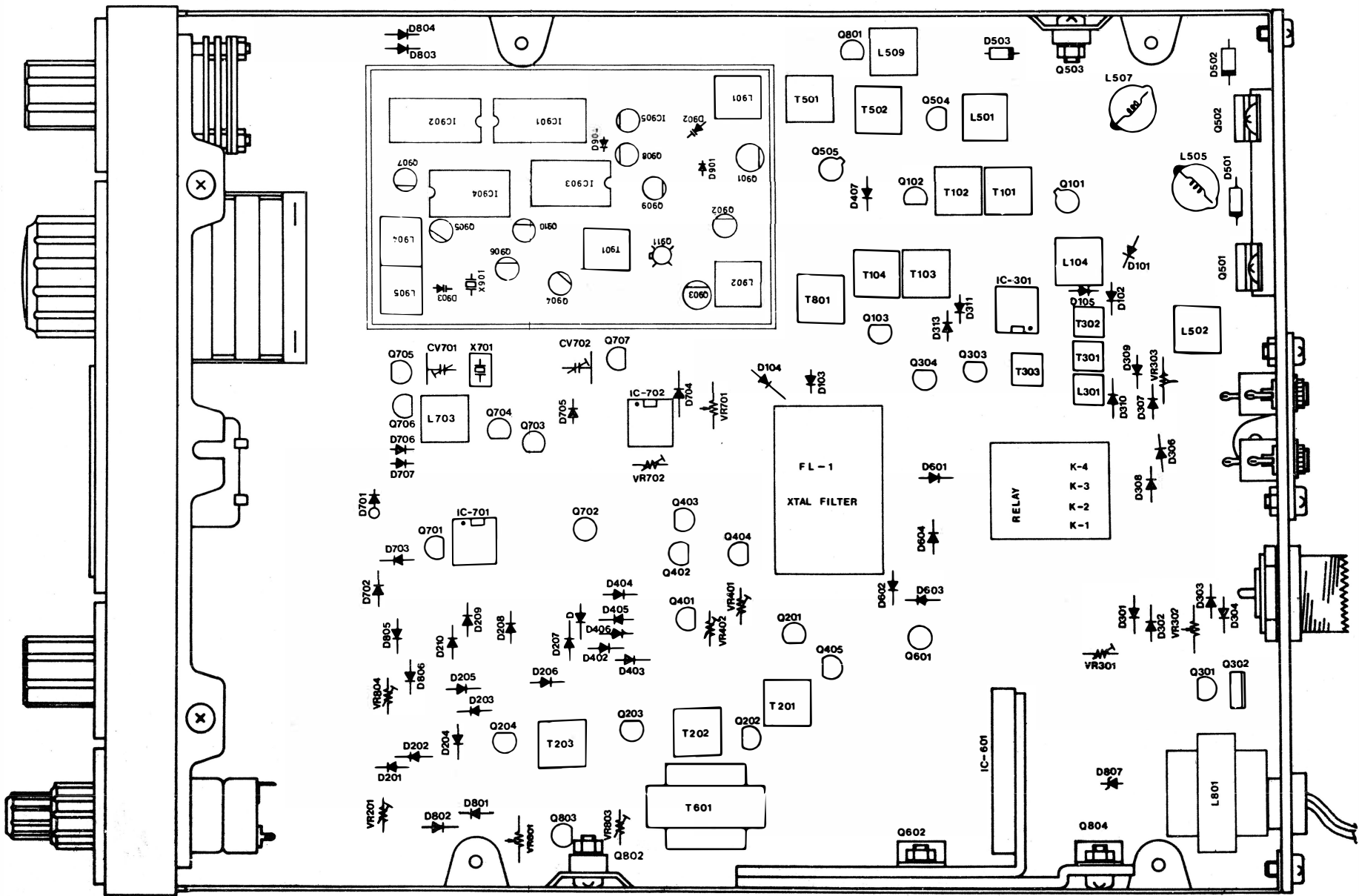
NOTE:
RESISTORS AT TRANSMIT CONDITION
ALL VALUES MEASURED FROM PC BOARD
GND WITH D.C. VOLTAGE AT NO SIGNAL
SHOWN VALUES OBTAINED ARE IN
EXCESS OF 50% OF VALUES SHOWN
THEIR REASON FOR DIFFERENCE
SHOULD BE COME IN CONTACT WITH
LAFAYETTE ELECTRONIC CORP.
* VARIABLE

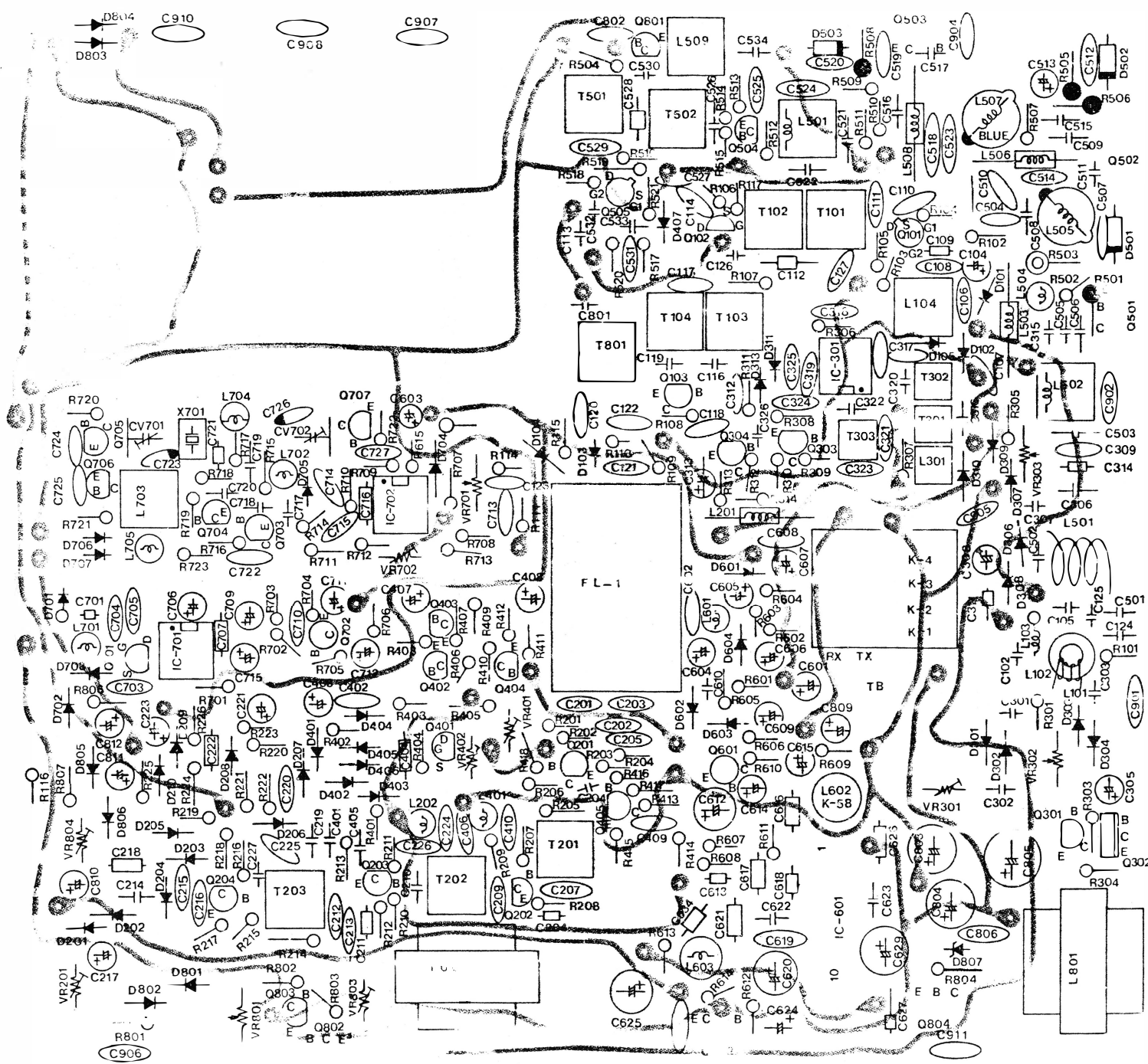
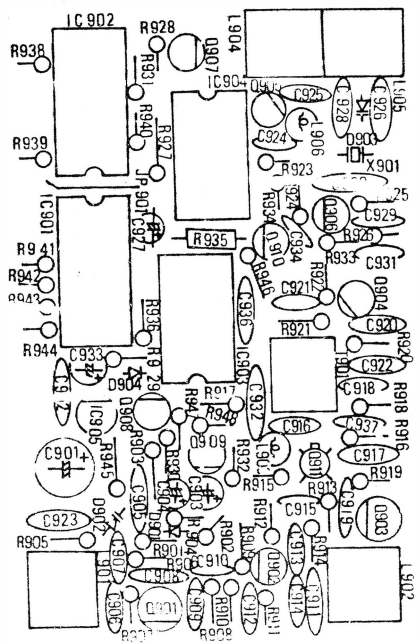


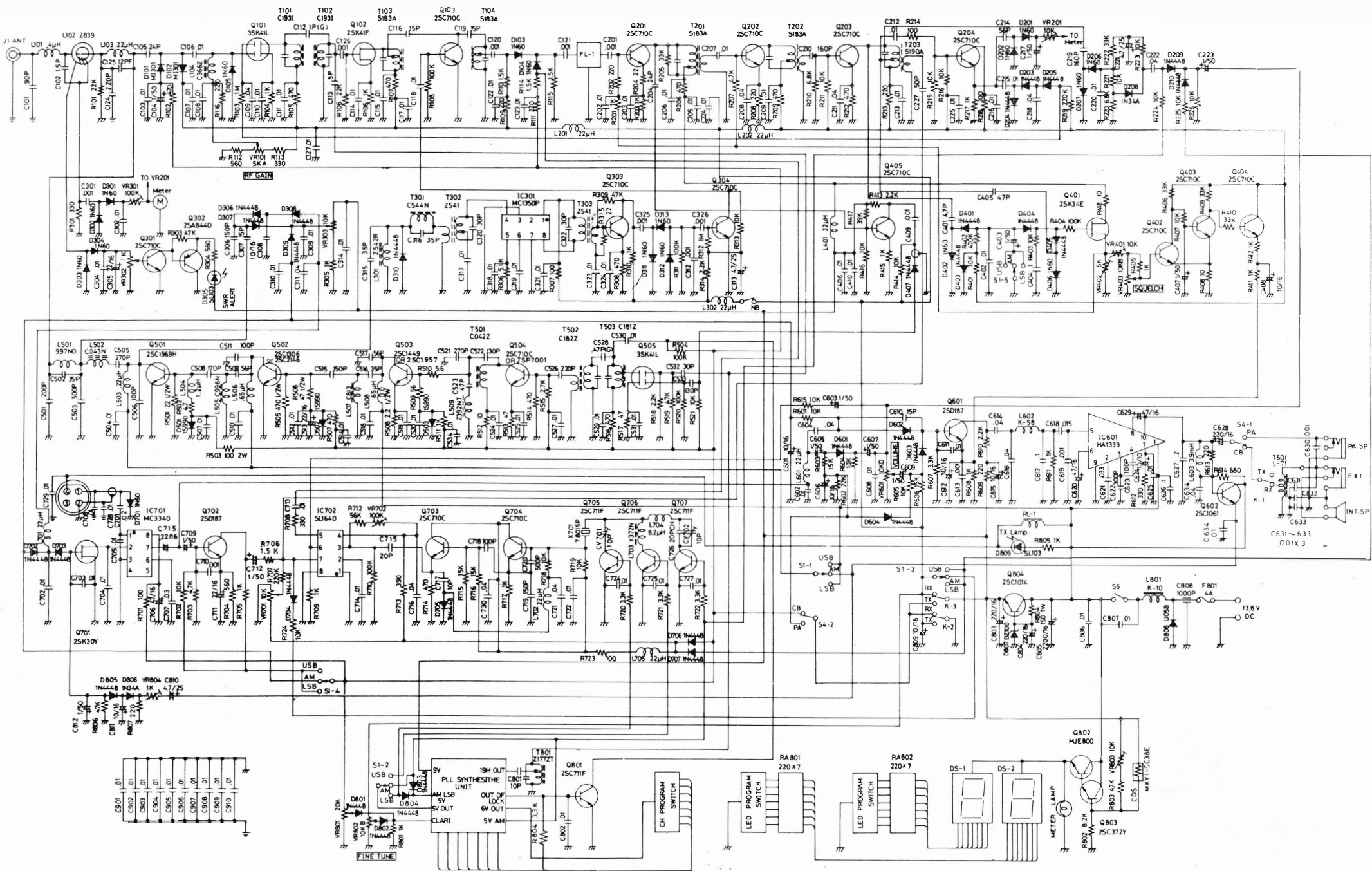
PARTS LOCATION

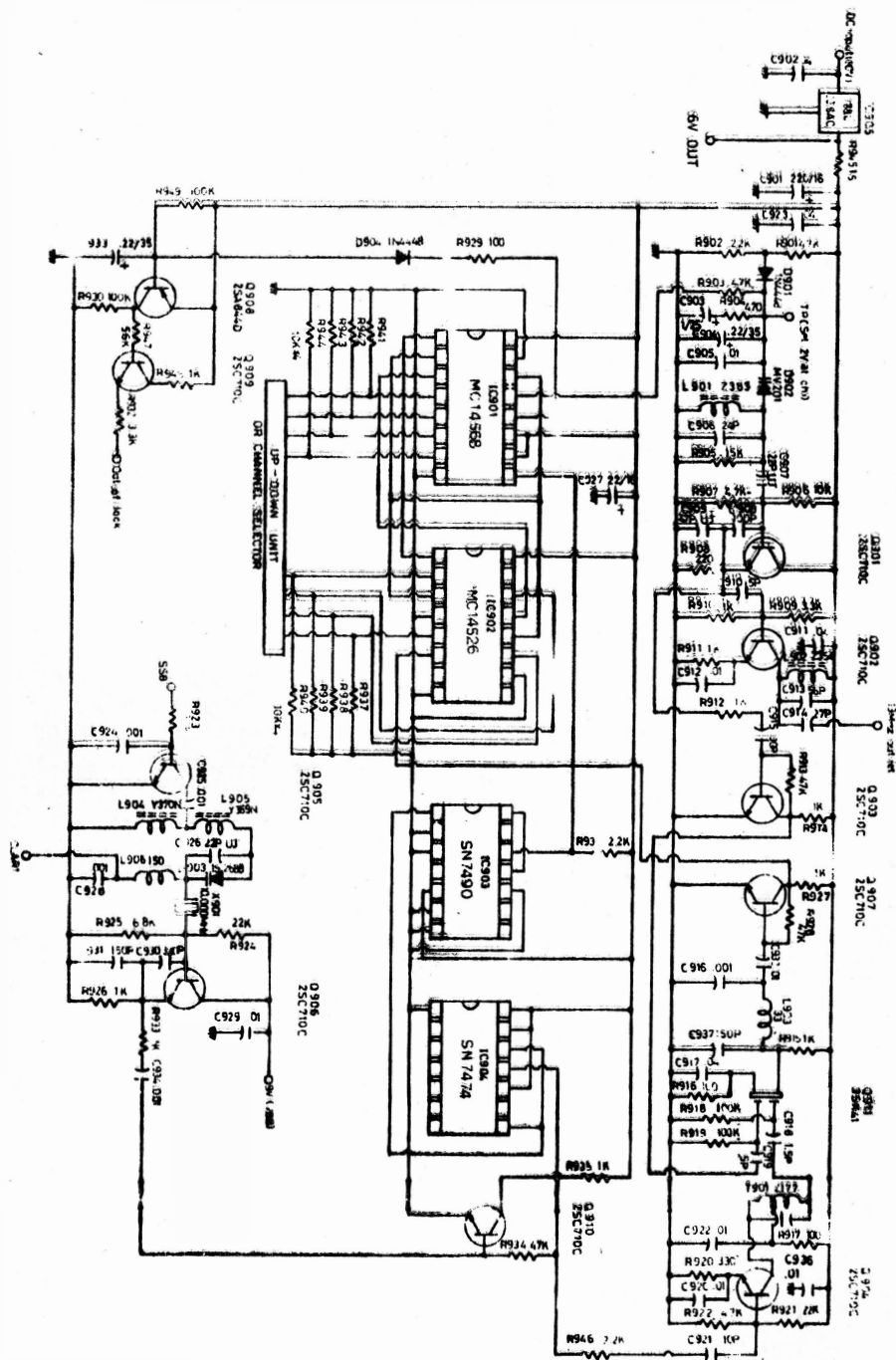
Lafayette
 111 Jericho Tpk., Syosset, N.Y. 11791





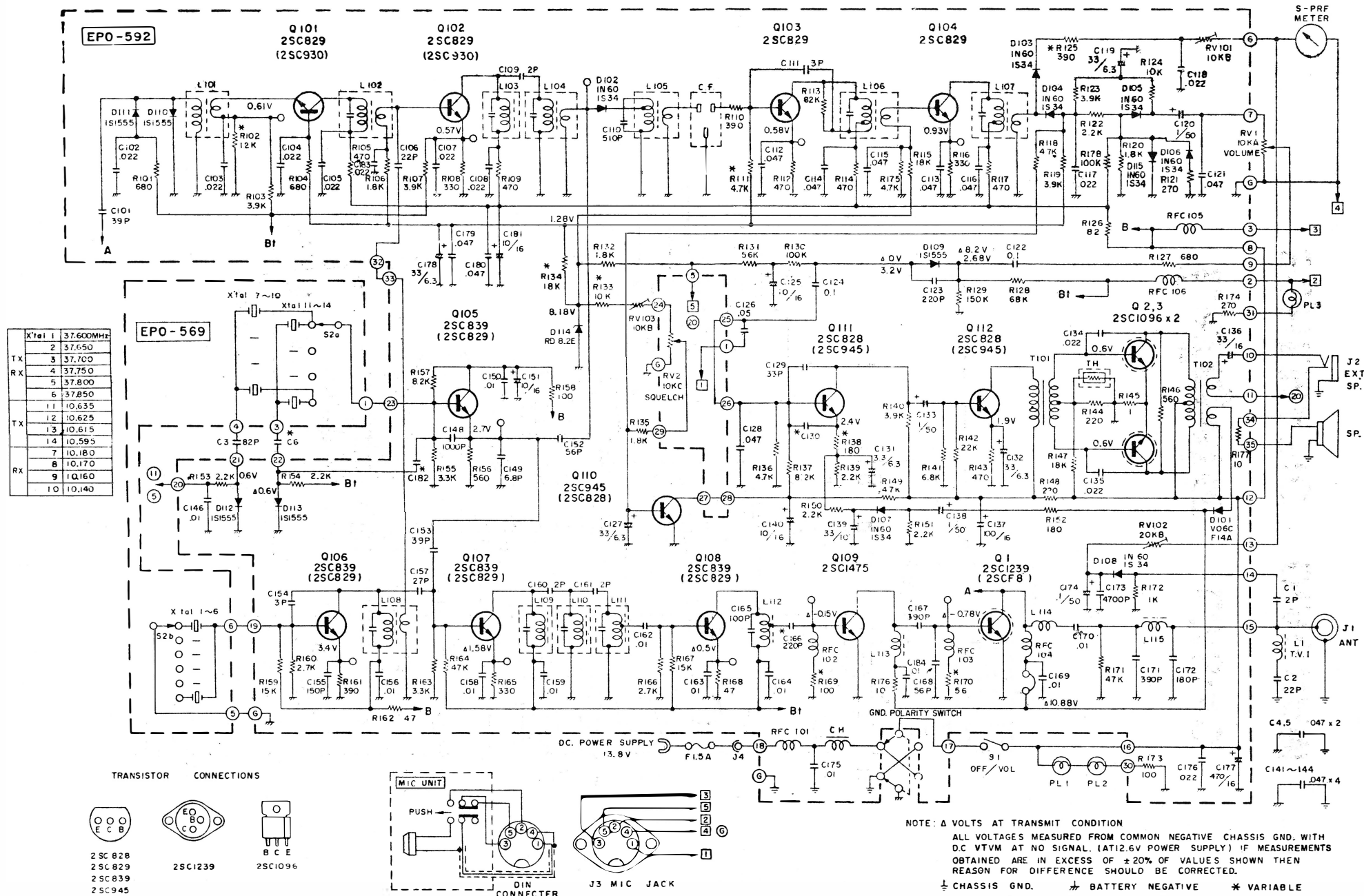






Lafayette LMS-40

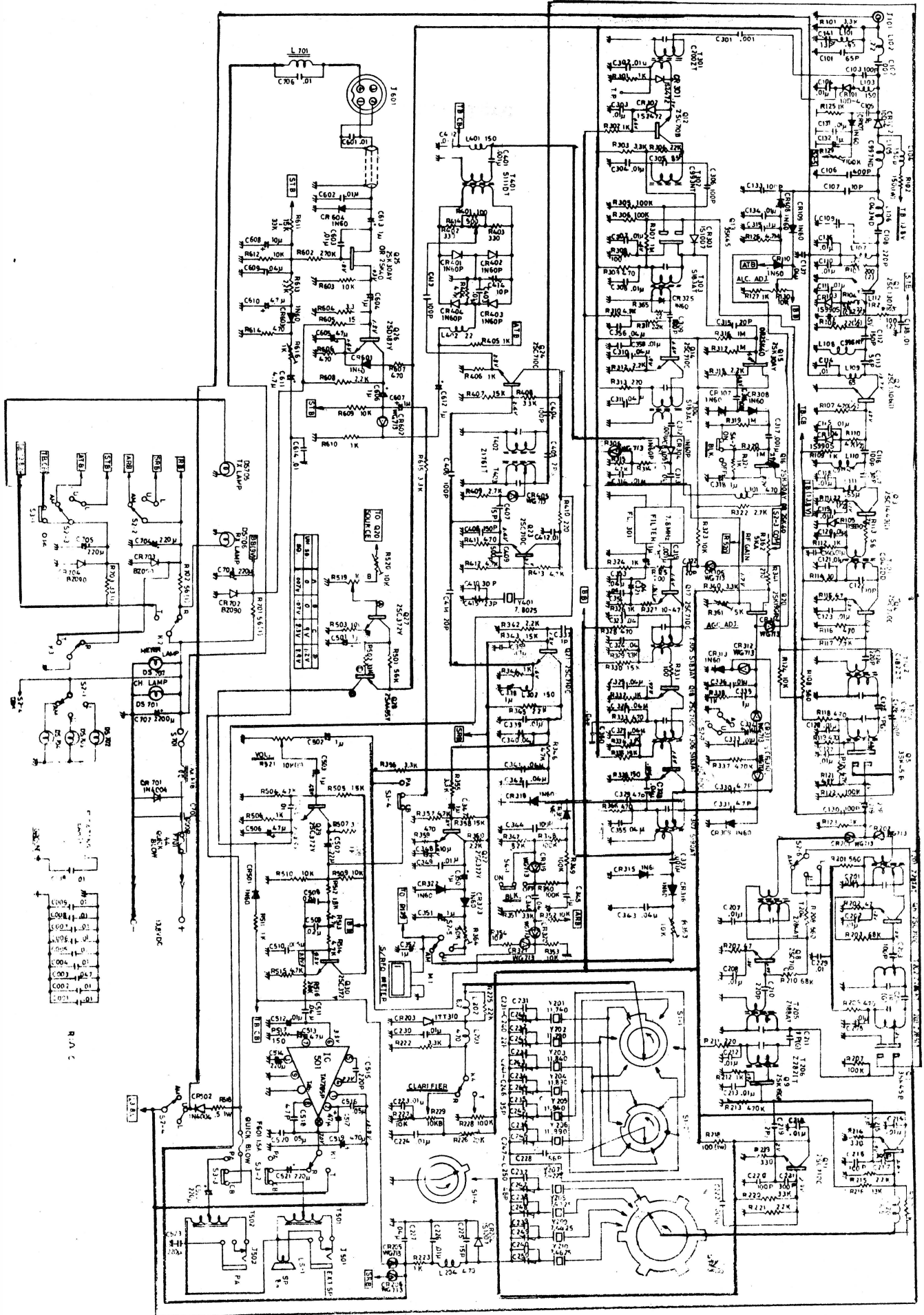
SCHEMATIC DIAGRAM



Lafayette

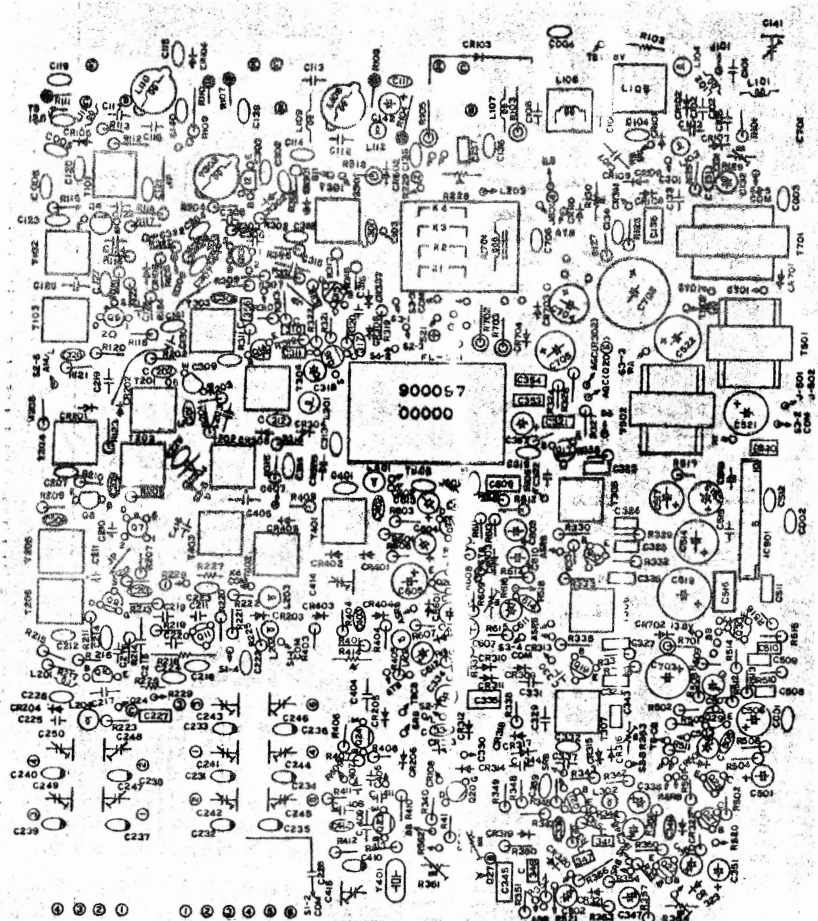
RADIO ELECTRONICS CORPORATION

MICRO-723



PACE SIDELTAK - 1000

PARTS LOCATOR



PACE SIDELTAK - 1000

PARTS LIST

Reference Number	Description	Part Number
CAPACITORS*		
C135, 335, 345	Mylar, 0.1 μ F	IP 22-0047
C136, 227, 319, 311, 321, 323 thr. 328, 340 thru 343, 346, 353 thru 356, 511, 609	Mylar, 0.04 μ F	IP 22-0018
C141, 414	Variable, 10 pF	IP 22-0045
C142	Electrolytic, 22 μ F/16 V	IP 22-0012
C241 thru 246	Variable, 30 pF	IP 22-0021
C247 thru 250	Variable, 40 pF	IP 22-0046
C312, 318, 334, 338, 347, 350, 351, 352, 501, 502, 503, 604	Electrolytic, 1 μ F/50 V	IP 22-0001
C348, 608	Electrolytic, 10 μ F/16 V	IP 22-0004
C357, 507, 606, 607, 612, 613	Electrolytic, 0.22 μ F	IP 22-0044
C415	Variable, 20 pF	IP 22-0020
C506, 513, 517, 605	Electrolytic, 47 μ F/16 V	IP 22-0006
C508, 509	Mylar, 0.01 μ F	IP 22-0017
C510	Mylar, 0.005 μ F	IP 22-0048
C514, 521, 522, 703, 704, 705	Electrolytic, 220 μ F/16 V	IP 22-0009
C516, 520	Mylar, 0.047 μ F	IP 22-0033
C519	Electrolytic, 470 μ F/16 V	IP 22-0010
C610, 611	Electrolytic, 4.7 μ F/16 V	IP 22-0003
C702	Electrolytic, 2200 μ F/16 V	IP 22-0043
RESISTORS*		
R102	150 Ohm 1 W	IP 23-0010
R103	200 Ohm 2 W	IP 23-0011
R104	5.6 Ohm 1/2 W	IP 23-0017
R105	100 Ohm 2 W	IP 23-0012
R111	2.2 Ohm 1/2 W	IP 23-0018
R129	Potentiometer, Trimmer, 100 k Ohm	IP 24-0002
R130	Potentiometer, Trimmer, 10 k Ohm	IP 24-0003
R218	100 Ohm 1 W	IP 23-0013
R228	Potentiometer, Trimmer, 100 k Ohm	IP 24-0013
R229	Potentiometer, Clarifier, 10 k Ohm-B	IP 24-0001
R361	Potentiometer, Trimmer, 5 k Ohm	IP 24-0035
R362	Potentiometer, RF Gain, 5 k Ohm-A	IP 24-0036
R363	Potentiometer, Trimmer, 10 k Ohm	IP 24-0005
R364, 520	Potentiometer, Trimmer, 50 k Ohm	IP 24-0015
R414	Potentiometer, Trimmer, 500 Ohm	IP 24-0023
R518 . . . . .	.5 Ohm 1 W	IP 23-0014
R519, 521	Potentiometer, Concentric, VOLUME/SQUELCH w/Switch	IP 24-0017
R616	Potentiometer, Trimmer, 1 k Ohm	IP 24-0007
R701, 702	56 Ohm 1 W	IP 23-0015
R703	33 Ohm 1 W	IP 23-0016

PACE SIDELETAK - 1000

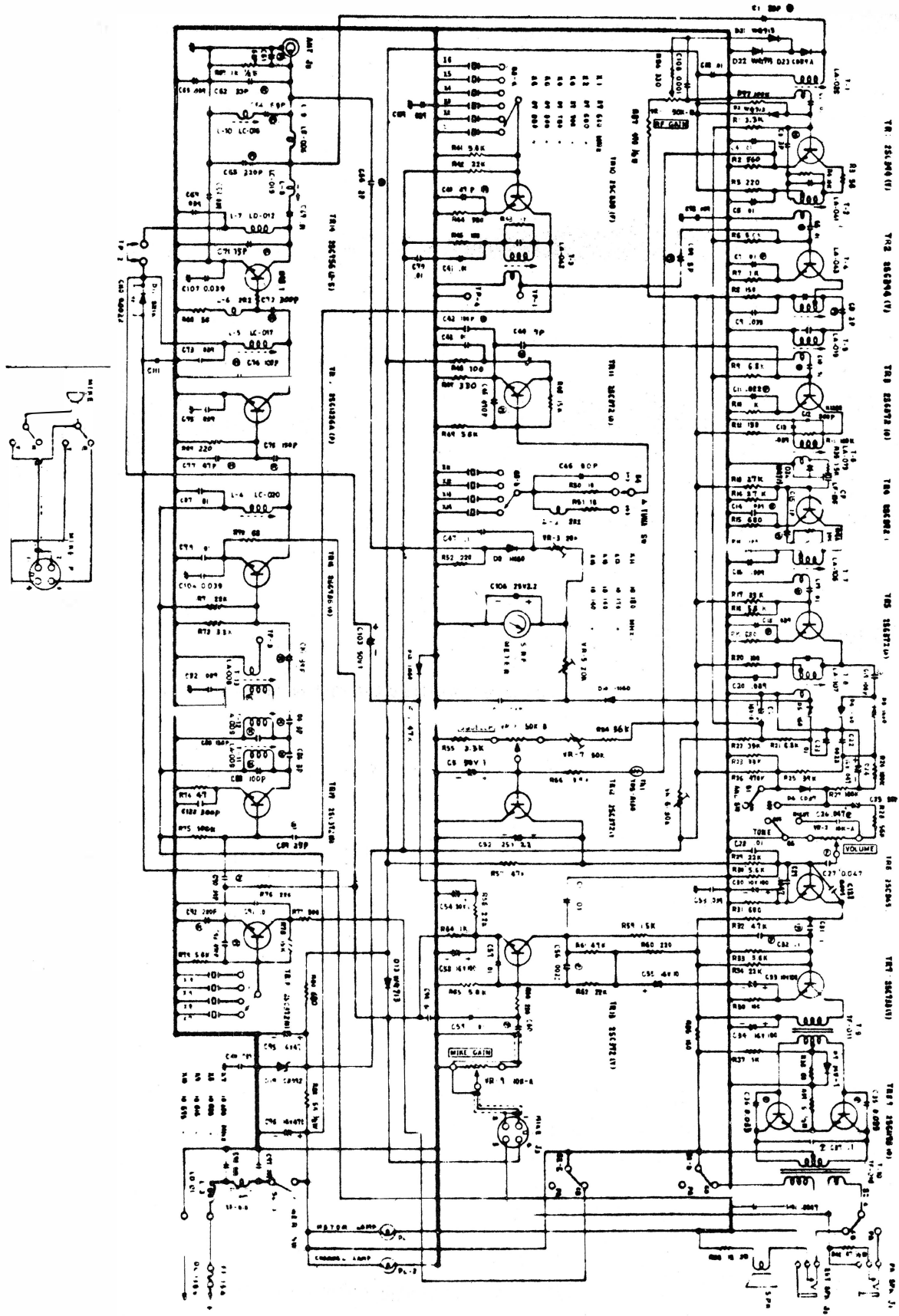
PARTS LIST (cont'd)

Reference Number	Description	Part Number
INDUCTORS, CHOKES, AND TRANSFORMERS		
L101, 109, 111	Choke, RF, .65 μ H	IP 21-0071
L102, 107	Choke, RF, .22 μ H	IP 21-0098
L103, 104, 302, 401	Choke, RF, 150 μ H	IP 21-0074
L105	Coil, RF, C997N	IP 21-0206
L106	Coil, RF, C043N	IP 21-0095
L108	Coil, RF, C996N	IP 21-0205
L110	Coil, RF, C979N	IP 21-0180
L112	Choke, RF, 1.2 μ H	IP 21-0179
L201	Choke, RF, 5.5 μ H	IP 21-0101
L202	Choke, RF, 8.2 μ H	IP 21-0180
L203, 204, 301	Choke, RF, 470 μ H	IP 21-0195
L402	Choke, RF, 22 μ H	IP 21-0072
T101	Transformer, RF, C042D	IP 21-0093
T102	Transformer, RF, C182Z	IP 21-0084
T103	Transformer, RF, C181Z	IP 21-0083
T201	Transformer, RF, Z287A	IP 21-0207
T202	Transformer, RF, Z286K	IP 21-0208
T203	Transformer, RF, Z285I	IP 21-0209
T204	Transformer, RF, Z284A	IP 21-0210
T205	Transformer, RF, Z188A	IP 21-0087
T206	Transformer, RF, Z282I	IP 21-0211
T301	Transformer, RF, C200Z	IP 21-0091
T302	Transformer, RF, C993N	IP 21-0212
T303 thru 306	Transformer, IF, S-183A	IP 21-0085
T307	Transformer, IF, S-190A	IP 21-0089
T401	Transformer, IF, S-111D	IP 21-0092
T402, 403	Transformer, RF, Z176I	IP 21-0078
T501, 502	Transformer, AF, I-57	IP 21-0186
T701	Choke, AF, K-18	IP 21-0112
DIODES, INTEGRATED CIRCUITS, AND TRANSISTORS		
CR101, 102	Diode, 10D-4	IP 20-0022
CR103, 104, 105	Diode, 1S990S	IP 20-0018
CR106, 201, 202, 205, 206, 306, 310, 311, 312, 314, 319, 320, 321, 405, 602	Diode, WG-713	IP 20-0145
CR107 thru 110, 307, 308, 309, 313, 315 thru 318, 322, 323, 501, 601, 603	Diode, 1N60	IP 20-0060
CR203	Diode, 1TT 310	IP 20-0151
CR204, 303	Diode, 1S1007	IP 20-0020
CR301, 302	Diode, 1S2472	IP 20-0021
CR304, 305, 401 thru 404	Diode, 1N60P	IP 20-0016
CR502, 701	Diode, 1N4004	IP 20-0025
CR702, 703, 704	Diode, BZ090	IP 20-0019
IC501	Integrated Circuit, TA7205P	IP 20-016

PARTS LIST (cont'd)

Reference Number	Description	Part Number
Q1	Transistor, 2SC1307	IP 20-0154
Q2	Transistor, 2SC306 (1)	IP 20-0155
Q3	Transistor, 2SC1449 (1)	IP 20-0156
Q4, 6, 8, 10, 11, 14, 17, 18, 19, 21, 23, 24	Transistor, 2SC710C	IP 20-0002
Q5, 7, 13	Transistor, 3SK45B	IP 20-0157
Q9, 20	Transistor, 2SK19GR	IP 20-0012
Q12	Transistor, 2SC710B	IP 20-0001
Q15, 16, 25	Transistor, 2SK30	IP 20-0078
	Transistor, 2SK40 (Alternate)	IP 20-0162
Q22, 27, 29, 30	Transistor, 2SC372Y	IP 20-0006
Q26	Transistor, 2SD187Y	IP 20-0160
Q28	Transistor, 2SA495Y	IP 20-0159
MISCELLANEOUS		
DS701 thru 707	Lamps, Indicator	IP 28-0009
FL301	Filter, FX07800 Crystal	IP 31-0047
J101	Jack, Antenna	IP 26-0013
J501, 502	Jack, Earphone	IP 26-0005
M01	Jack, Microphone	IP 26-0014
K1-4, L701	Relay, 12 V DC	IP 32-0005
M1	Meter, S/R	IP 27-0007
S1	Switch, Channel Selector	IP 25-0037
S2	Switch, Mode	IP 25-0038
S3	Switch, PA/CB	IP 25-0031
S4	Switch, NB ON-OFF	IP 25-0036
YH1	Holder, (Crystal)	IP 34-0004
Y201	Crystal, 11.740 MHz	IP 31-0058
Y202	Crystal, 11.790 MHz	IP 31-0059
Y203	Crystal, 11.840 MHz	IP 31-0060
Y204	Crystal, 11.890 MHz	IP 31-0061
Y205	Crystal, 11.940 MHz	IP 31-0062
Y206	Crystal, 11.990 MHz	IP 31-0063
Y207	Crystal, 7.4225 MHz	IP 31-0064
Y208	Crystal, 7.4325 MHz	IP 31-0065
Y209	Crystal, 7.4425 MHz	IP 31-0066
Y210	Crystal, 7.4625 MHz	IP 31-0067
Y410	Crystal, 7.8025 MHz	IP 31-0068
	Knob (Mode, Clarifier, RF Gain)	IP 30-0094
	Knob, Inner (VOLUME)	IP 30-0092
	Knob, Outer (SQUELCH)	IP 30-0093
	Dial, Channel	IP 30-0122
	Cover, Upper	IP 30-0120
	Cover, Lower	IP 30-0121
	Bracket, Mobile Mount	IP 30-0117
	Lens, Red TX	IP 30-0123
	Lens, Green RX	IP 30-0124
	Lens, Amber USB	IP 30-0126
	Lens, White LSB	IP 30-0127
	Microphone w/Cord and Plug	IP 29-0016
	Speaker, 2 W 8 Ohm	IP 29-0017
	Bezel	IP 30-0119
	Panel, Front	IP 30-0128

* Order unlisted parts by description and reference number.



REGENCY CR - 185

PARTS LIST

REF. NO	ITEM	STOCK NO.
TR-15	Transistor 2SC1226A (P)	185-001
TR-12	Transistor 2SC394 (Y)	185-002
TR-3,4,5,11,17,18	Transistor 2SC372 (O)	185-003
TR-12,13	Transistor 2SC372 (Y)	185-004
TR-7	Transistor 2SC733 (Y)	185-005
TR-16	Transistor 2SC735 (O)	185-006
TR-8,9	Transistor 2SC1173 (O)	185-007
TR-14	Transistor 2SC756 (2-5)	185-008
TR-10	Transistor 2SC839 (F)	185-009
TR-6	Transistor 2SC945 (R)	185-010
D-23	Diode CD37A	185-011
D-6	Diode CD37	185-012
D-3,4,5,8,10,12	Diode 1N60	185-013
D-11	Diode SR1K-1	185-014
D-2,13,21,22,24	Diode WG713	
D-19	Zener diode CZ092	185-015
D-7	Varistor MV-1	
TH-1	Thermister TD5-A130	185-016

COILS

REF. NO	ITEM	STOCK NO.
T-1	LA-029	LA-029
T-2	LA-041	LA-041
T-3	LA-042	LA-042
T-4	LA-043	LA-043
T-5	LA-019	LA-019
T-6	LA-073	LA-073
T-7	LA-106	LA-106
T-8	LA-107	LA-107
T-11,12	LA-009	LA-009
T-13	LA-008	LA-008
L-3	LD-013	LD-013
L-4	LC-020	LC-020
L-5	LC-017	LC-017
L-7	LD-012	LD-012
L-8	LC-019	LC-019
L-9	LE-006	LE-006
L-10	LC-018	LC-018
L-26	Micronductor 2R2	2R2
CH	Choke transformer TF-017	185-017
T-9	Input transformer TF-011	185-018
T-10	Output transformer TF-016	185-019
CF	Ceramic filter LF-B6	185-020

CRYSTALS

REF NO	ITEM	STOCK NO
X-1	37,650 mHz Crystal	185-022

PARTS LIST

REF NO	ITEM	STOCK NO
X-2	37,650 mHz Crystal	185-022
X-3	37,700 mHz Crystal	185-023
X-4	37,750 mHz Crystal	185-024
X-5	37,800 mHz Crystal	185-025
X-6	37,850 mHz Crystal	185-026
X-7	10,635 mHz Crystal	185-027
X-8	10,625 mHz Crystal	185-028
X-9	10,615 mHz Crystal	185-029
X-10	10,595 mHz Crystal	185-030
X-11	10,180 mHz Crystal	185-031
X-12	10,170 mHz Crystal	185-032
X-13	10,160 mHz Crystal	185-033
X-14	10,140 mHz Crystal	185-034

RESISTORS

REF. NO.	ITEM	STOCK NO
VR-3,5	Semi fixed resistor 20 kohm 6BM	185-035
VR-6	Semi fixed resistor 30 kohm 6BM	185-036
VR-7	Semi fixed resistor 50 kohm 6BM	185-037
R-39	0.5 ohm 1/2W, Metal coated resistor	185-038
R-86	12 ohm 2W, Metal coated resistor	185-039
R-40	47 ohm 1/2W, Solid resistor	
R-82	56 ohm Solid resistor	
R-87	470 ohm Solid resistor	
R-67	1 kohm, Solid resistor	
R-56	3.9 kohm 1/4W, Carbon resistor	
R-57	4.7 kohm 1/4W, Carbon resistor	
R-98	1 ohm 1/4W, Carbon resistor	
R-50	10 ohm 1/4W, Carbon resistor	
R-51	18 ohm 1/4W, Carbon resistor	
R-74	47 ohm 1/4W, Carbon resistor	
R-3,6,8	56 ohm 1/4W, Carbon resistor	
R-38,70	68 ohm 1/4W, Carbon resistor	
R-16,20,36,45,46	100 ohm 1/4W, Carbon resistor	
R-8,12,85	150 ohm 1/4W, Carbon resistor	
R-5,52,66,76,60,69	220 ohm 1/4W, Carbon resistor	
R-44,77,94,47	330 ohm 1/4W, Carbon resistor	
R-2	500 ohm 1/4W, Carbon resistor	
R-15,19,31,7,80	680 ohm 1/4W, Carbon resistor	
R-10,37,43,64	1 kohm 1/4W, Carbon resistor	
R-35,59	15 kohm 1/4W, Carbon resistor	
R-58	2.2 kohm 1/4W, Carbon resistor	
R-72,1,55	3.3 kohm 1/4W, Carbon resistor	
R-32,61,73	4.7 kohm 1/4W, Carbon resistor	
R-6,18,30,41,49,33,65,79	5.6 kohm 1/4W, Carbon resistor	
R-9,21	6.8 kohm 1/4W, Carbon resistor	
R-11	2.7 kohm 1/4W, Carbon resistor	

PARTS LIST

REF. NO.	ITEM	STOCK NO.
R-4	10 kohm 1/4W. Carbon resistor	
R-4878	15 kohm 1/4W. Carbon resistor	
R-34,62,71,29,42	22 kohm 1/4W. Carbon resistor	
R-13	27 kohm 1/4W. Carbon resistor	
R-17,23	33 kohm 1/4W. Carbon resistor	
R-22,25	39 kohm 1/4W. Carbon resistor	
R-28,54	56 kohm 1/4W. Carbon resistor	
R-11,24,27,75,96,97	100 kohm 1/4W. Carbon resistor	
R-26	470 kohm 1/4W. Carbon resistor	

CAPACITORS

REF. NO.	ITEM	STOCK NO.
C-24	0.47 µF 50V. Electric cap	185-040
C-25,51,54,103	1 µF 50V. Electric cap	185-041
C-52,100	22 µF 25V. Electric cap	185-042
C-21,55	10 µF 16V. Electric cap	185-043
C-95	47 µF 16V. Electric cap	185-044
C-30,33,58	100 µF 10V. Electric cap	185-045
C-34	100 µF 16V. Electric cap	185-046
C-96	470 µF 16V. Electric cap	185-047
C-56	0.0022 µF 50V. Mylar cap	
C-6,7,10,17	0.01 µF 50V. Mylar cap	
C-11	0.022 µF 50V. Mylar cap	
C-35,36	0.033 µF 50V. Mylar cap	
C-14,18	0.039 µF 50V. Mylar cap	
C-26,27	0.047 µF 50V. Mylar cap	
C-37,31,32,60	0.1 µF 50V. Mylar cap	
C-31,32,60	0.1 µF 35V. Mylar cap	
C-8,66	2pF 50V. Ceramic cap	
C-3,84,86	3pF 50V. Ceramic cap	
C-44	7pF 50V. Ceramic cap	
C-39,71	10pF 50V. Ceramic cap	
C-89	25pF 50V. Ceramic cap	
C-1,62	33pF 50V. Ceramic cap	
C-81,90	39pF 50V. Ceramic cap	
C-40,77	47pF 50V. Ceramic cap	
C-61,64	68pF 50V. Ceramic cap	
C-46	80pF 50V. Ceramic cap	
C-42,74,83,88,19	100pF 50V. Ceramic cap	
C-76,85	150pF 50V. Ceramic cap	
C-92	200pF 50V. Ceramic cap	
C-65	220pF 50V. Ceramic cap	
C-72,122	300pF 50V. Ceramic cap	
C-45,93	470pF 50V. Ceramic cap	
C-15	1µF 50V. Ceramic cap	
12	500pF 50V. Ceramic cap	
C-22,110	0.0022 µF 50V. Ceramic cap	
C-29,101,111	0.0047 µF 50V. Ceramic cap	

PARTS LIST

REF. NO.	ITEM	STOCK NO.
C-2,4,5,23,38,41,43,57,59,67	0.01 µF 50V. Ceramic cap	
70,79,87,91,94,28,117		
C-108,121	0.001 µF 50V. Ceramic cap	
C-47	0.1 µF 50V. Ceramic cap	
C-16,20,50,53,63,68,69,73,75	0.039 µF 50V. Ceramic cap	
78,13,82,97,98,100,109,104,		
107,9		

SWITCHES

REF. NO.	ITEM	STOCK NO.
S-4	Rotary switch. SR-050	185-048
S-3	Rotary switch. SR-046	185-049
S-1,5	Slide switch. SW-023	185-050
S-2	Slide switch. SW-030	185-051

VOLUME CONTROL

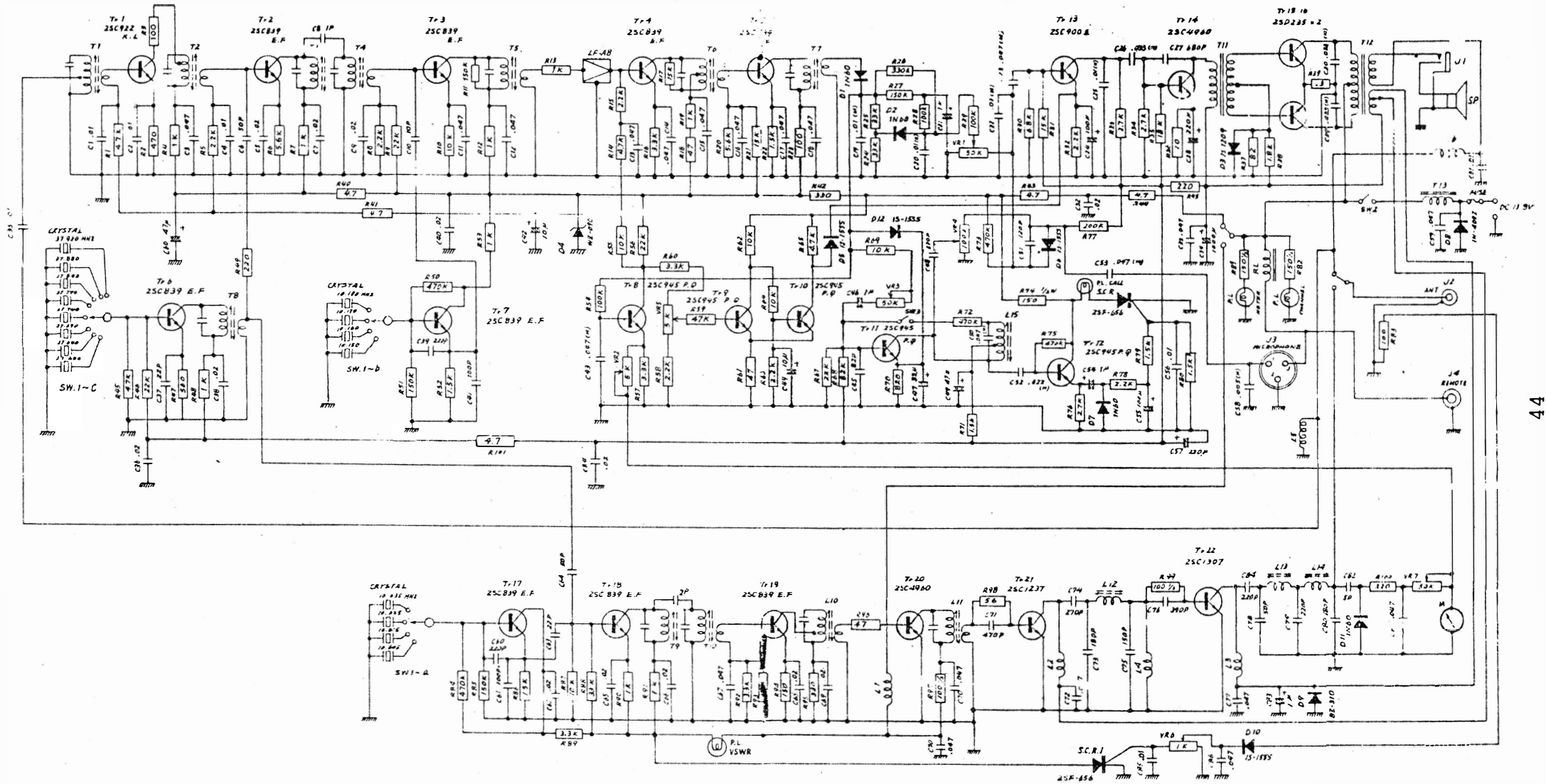
REF. NO.	ITEM	STOCK NO.
VR-2,8	Volume. RV-083	185-052
VR-1,9	Volume. RV-085	185-053

OTHERS

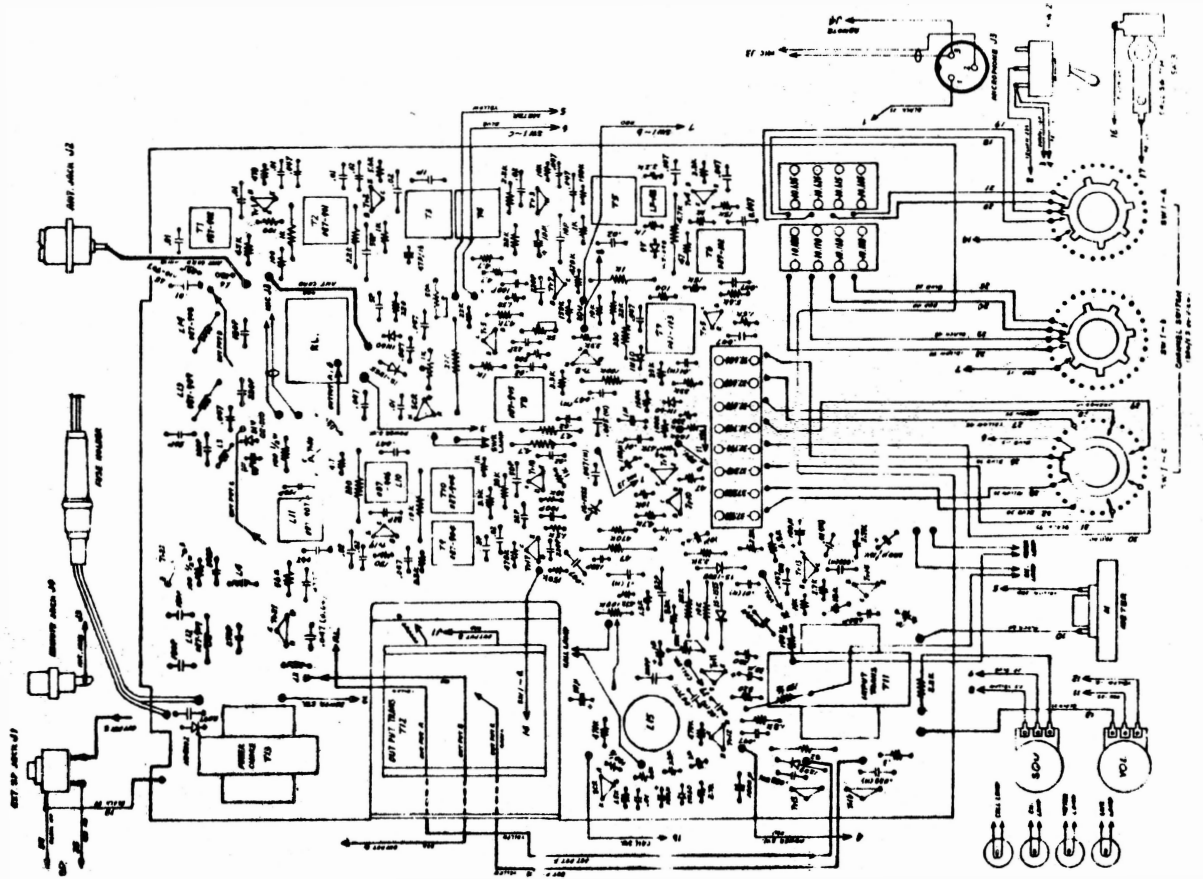
REF. NO.	ITEM	STOCK NO.
SPK	Printed circuit board	185-054
MTR	Speaker. SP-003	185-055
MIKE	Meter. MT-028	185-056
	Microphone MK-041	185-057
	Microphone hunger	185-058
J-5	Antenna connector	185-059
P	4 ping plug	185-060
J-3	4 ping socket	185-061
	Chassis M2-02286	185-062
	Cabinet-top	185-063
	Cabinet-bottom	185-064
	Mounting bracket	185-065
	Front panel M2-02692	185-066
	Channel knob	185-067
	Channel plate	185-068
	Control plate	185-069
	Microphone plate	185-070
	FCC plate	185-071
	Illumination board	185-072
	Instruction Manual	185-073
	Display Box	185-074

REGENCY - CR - 185

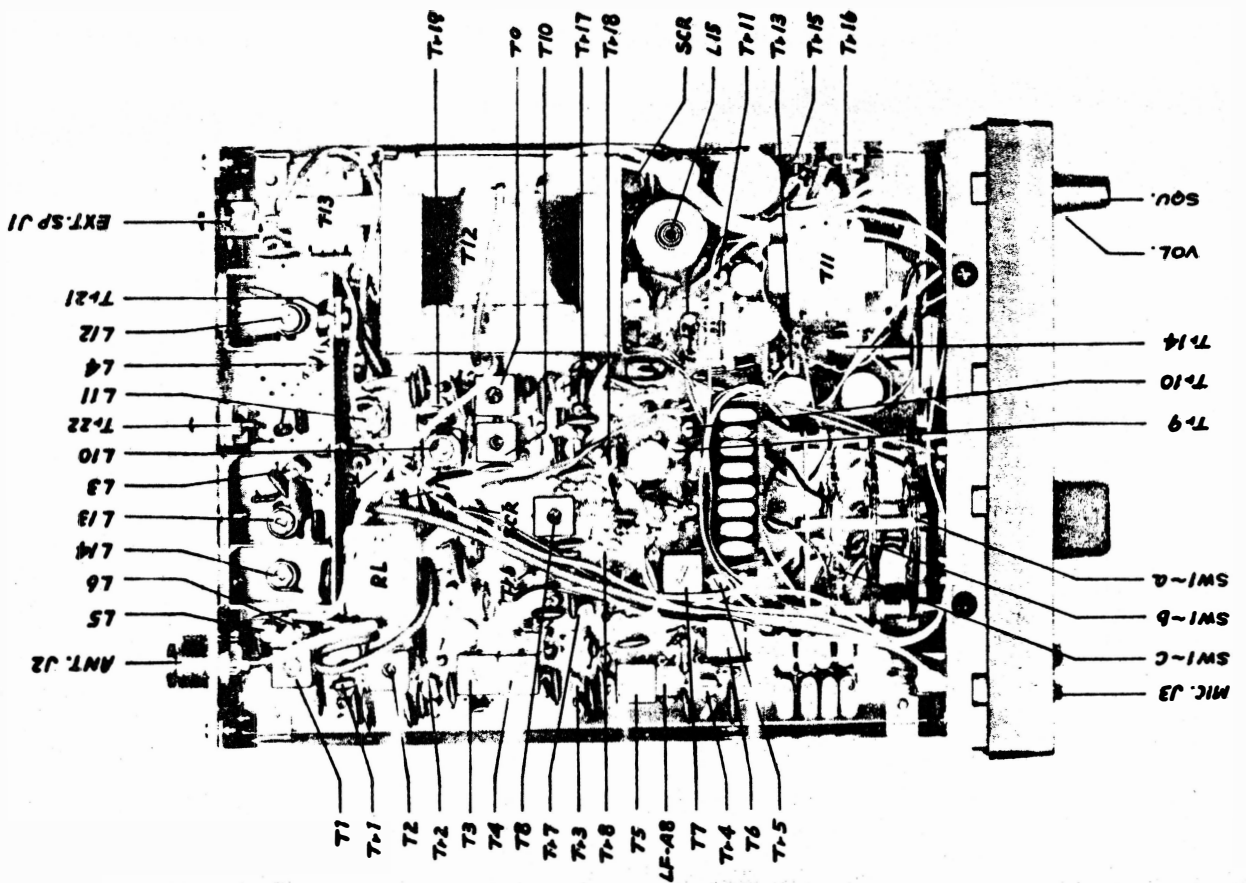
SCHMATIC DIAGRAM



PRINTED CIRCUIT BOARD PARTS LAYOUT



COMPLETE PARTS LAYOUT



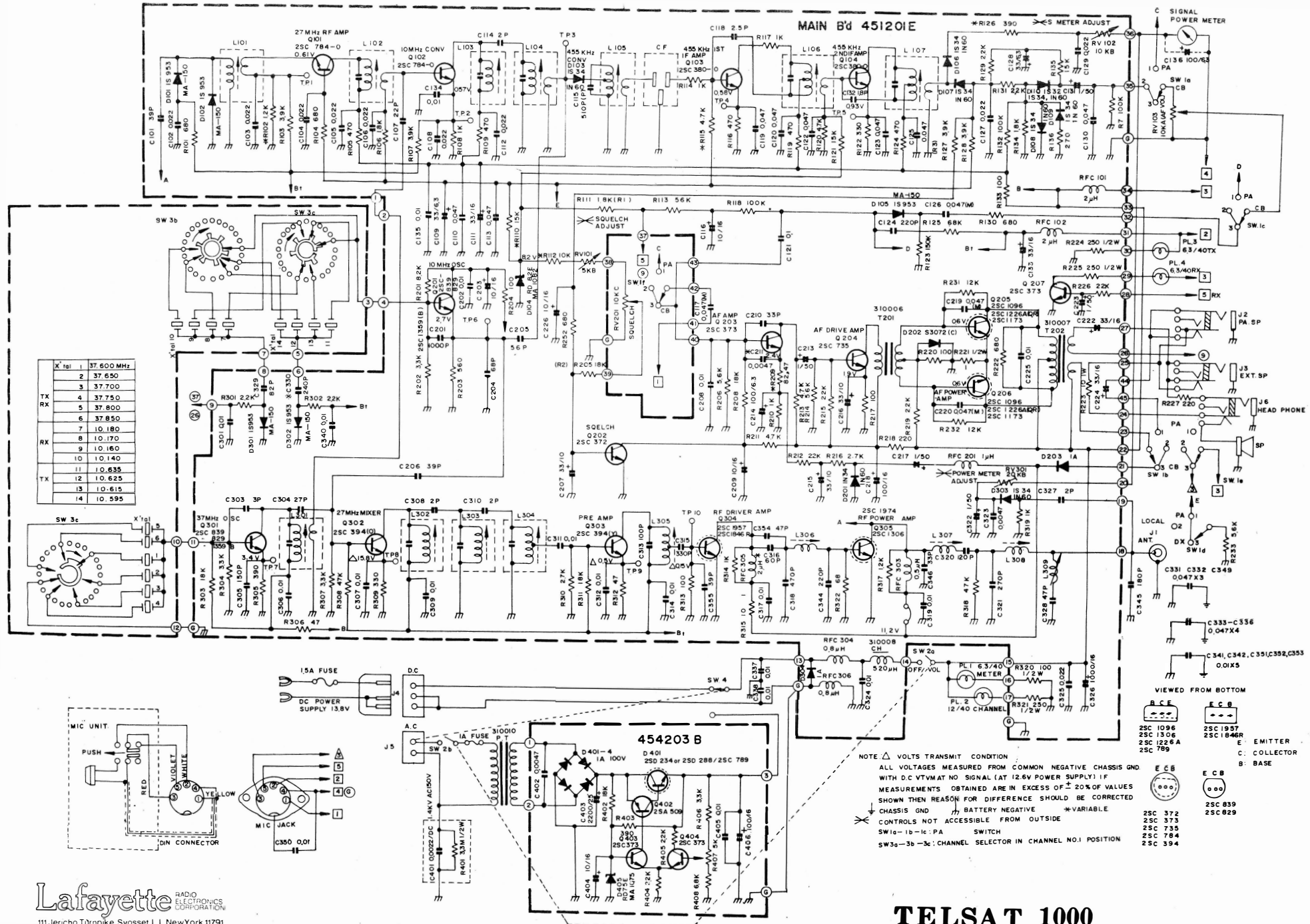
SOMMERKAMP - TS - 630 S

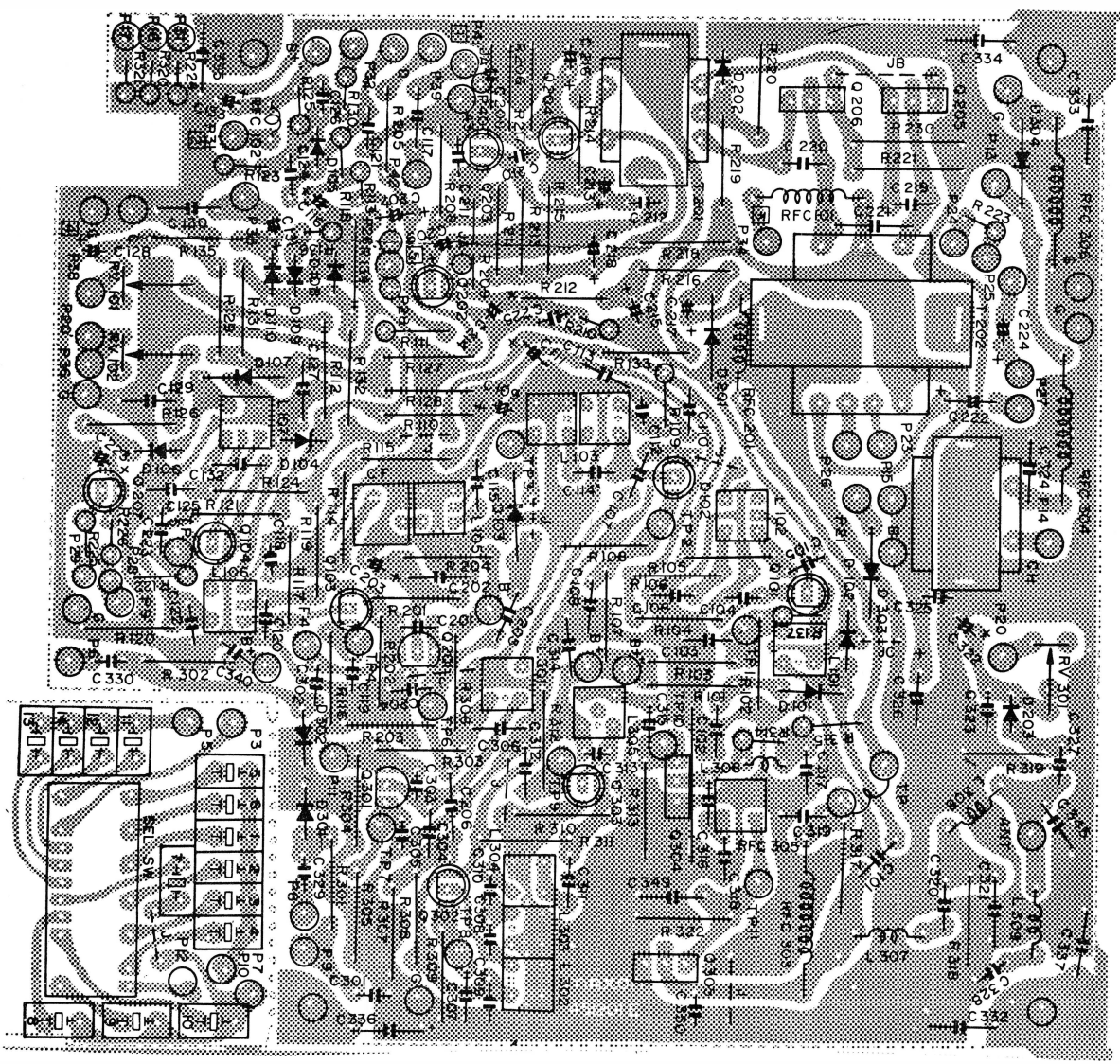
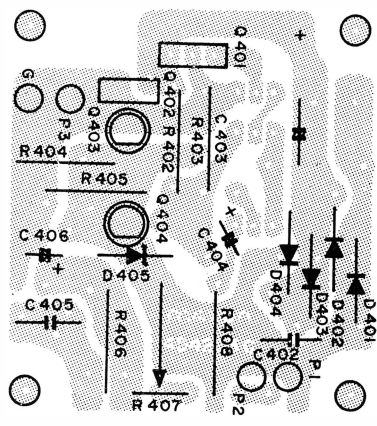
PARTS LIST for TS-630S

DESIGNATION	PARTS NAME	PARTS NO.
MP-201	Front Flame	483014-S
MP-202	Chassis Flame	482009-S
MP-203	Back Pannel	484100
MP-105	Cabinet Cover (Upper)	483016
MP-106	Cabinet Cover (Lower)	483015
MP-107	Mounting Bracket	484085
MP-204	Front Plate (L)	484122
MP-205	Front Plate (R)	484120
MP-206	Brand Plate	484097
MP-207	Back Plate	484121
MP-110	Mounting Bracket for Meter	484064
MP-208	Mounting Bracket for Output Trans	484080
MP-209	Heatsink for 2SC1307 (A)	484102
MP-210	Heatsink for 2SC1307 (B)	484101
MP-211	Meter Lamp Reflection Plate	484063
MP-212	Channel Indicator Screen	484107
MP-213	Screen Holder	484106
MP-214	Mounting Bracket for Channel Lamp	484108
MP-111	Call Switch Contact	484086
MP-112	Call Switch Spring	484087
MP-19	Lamp Lens (Red)	M40024R
MP-117	Knob for Channel Selector	484116
MP-17	Knob for Vol. SQU.	474011
MP-118	Nut for Channel Selector	484073
MP-120	Screw for Mounting Bracket	484098
MP-215	Channel Indicator Plate	484115
J1	EXT. SP. Jack	SJ-296
J2	Antenna Jack	MRM/INCH
J3	Microphone Metal Consent	MC-01
J4	Remote Jack	RCA-1P
EP201	Power Cord with Contact & Fuse holder	W-002
F1	Fuse 5A	F-5A
M	Meter	D33B35R
SP	Speaker	87P-30-1
PL1	Pilot Lamp 9V-30 mA	PL-9-30
PL2	Pilot Lamp 12V-50mA	PL-12-50
SW1	Channel Selector Switch	43-30
MIC	Microphone Complete	22-256-13
EP-202	Crystal Socket 8P	XS-8P
EP-203	Crystal Socket 4P	XS-4P
RL	Reley	SR-74
SW2	Power Switch	PS-2P

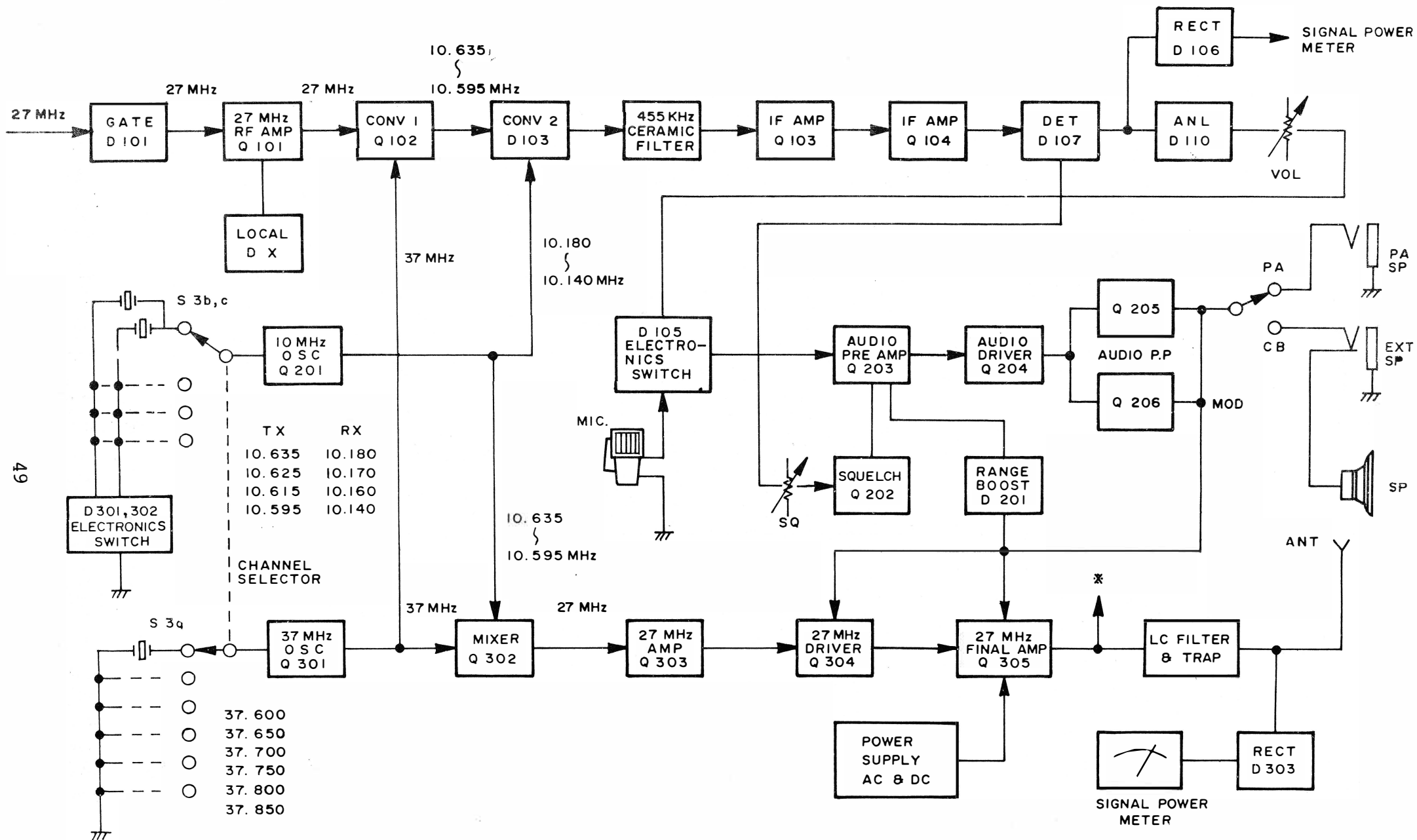
PARTS LIST for TS-630S

DESIGNATION	PARTS NAME	PARTS NO.
Tr1	Transistor	2SC922
Tr2, 3, 4, 5, 6, 7, 17, 18, 19	Transistor	2SC839
Tr8, 9, 10, 11, 12	Transistor	2SC945
Tr13	Transistor	2SC900
Tr14, 20	Transistor	2SC496
Tr21	Transistor	2SC1237
Tr22	Transistor	2SC1307
Tr15, 16	Transistor	2SD235
D1, 2, 7, 11	Germanium Diode	1N60
D3	Varistor	1S-1209
D4	Zener Diode	WZ-090
D5, 6, 10, 12	Sillicon Diode	1S-1555
D13, 14	S. C. R.	2SF-656
D8	Sillicon Diode	1N-4002
T1	RF Coil (Black)	T-2001
T2	RF Coil (White)	T-2002
T3	I. F. T. 10.7 MHz (orange)	T-2003
T4	I. F. T. 10.7 MHz (orange)	T-2004
T5	I. F. T. 455 KHz (Yellow)	T-2005
T6	I. F. T. 455 KHz (White)	T-2006
T7	I. F. T. 455 KHz (Black)	T-2007
T8	O. S. C. Coil 37 MHz (Red)	T-2008
T9	TX Tuning Coil (Green)	T-2009
T10	TX Tuning Coil (Green)	T-2010
T11	Input Transformer	EI-2901
T12	Output Transformer	EI-5701
T13	Choke Transformer	EI-2401
L1,2,3,4,5,6	RF Choke	L1033
L10	RF Coil	L-2011
L11	RF Coil	L-2012
L12	RF Coil	L-2013
L13	RF Coil	L-2014
L14	RF Coil	L-2015
L15	Call Coil	L-2010
MF	Ceramic Filter	LF-A8
EP-204	P. C. Board	63001
VR1	Variable Resistor (Volume) 50K Ohm	VR1650K
VR2	Semi Variable Resistor 5K Ohm	SVR005K
VR3, 7	Semi Variable Resistor 50K Ohm	SVR050K
VR4	Semi Variable Resistor 100K Ohm	SVR100K
VR5	Variable Resistor 5K Ohm	VR1605k
VR6	Semi Variable Resistor 1K	SVR001K

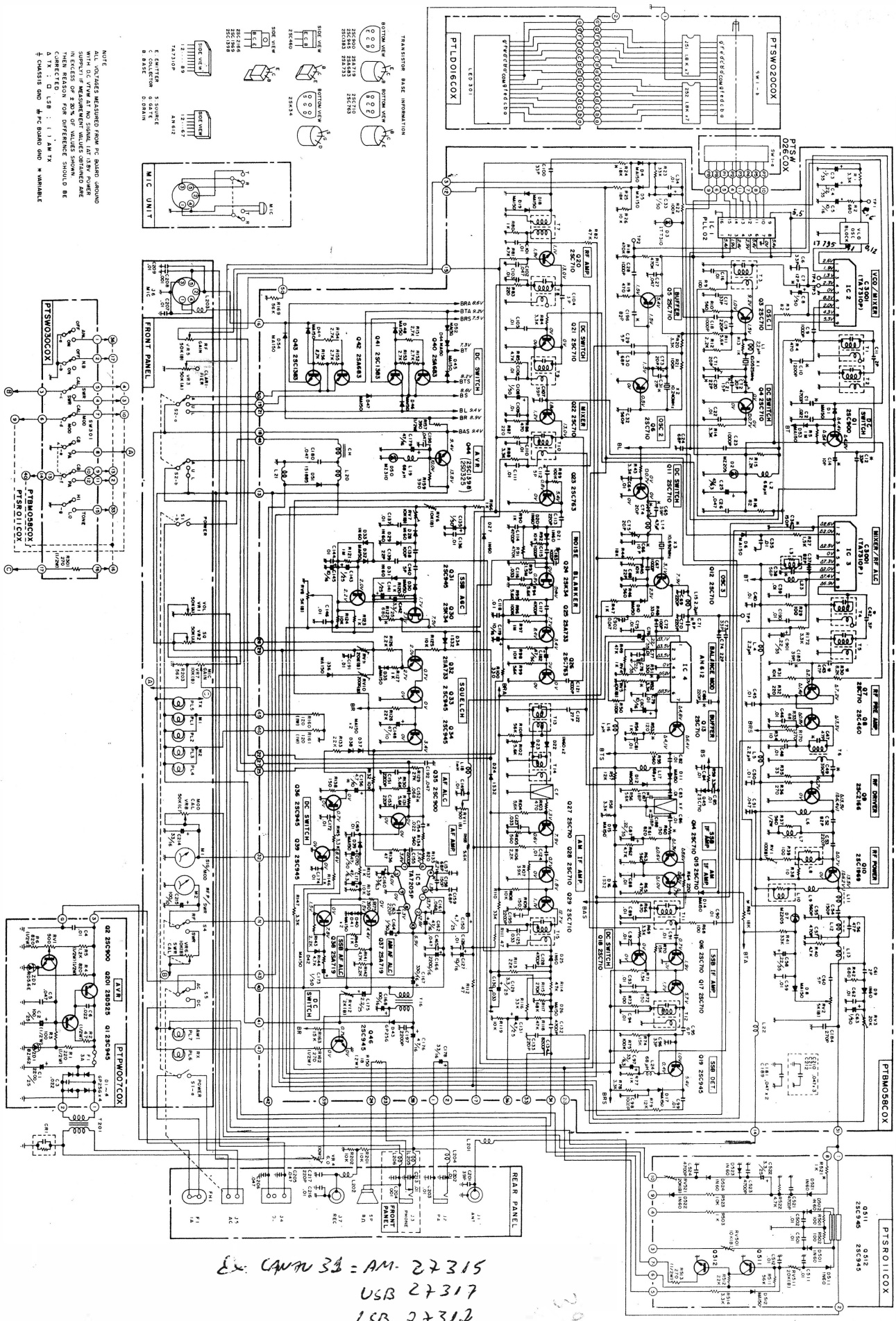




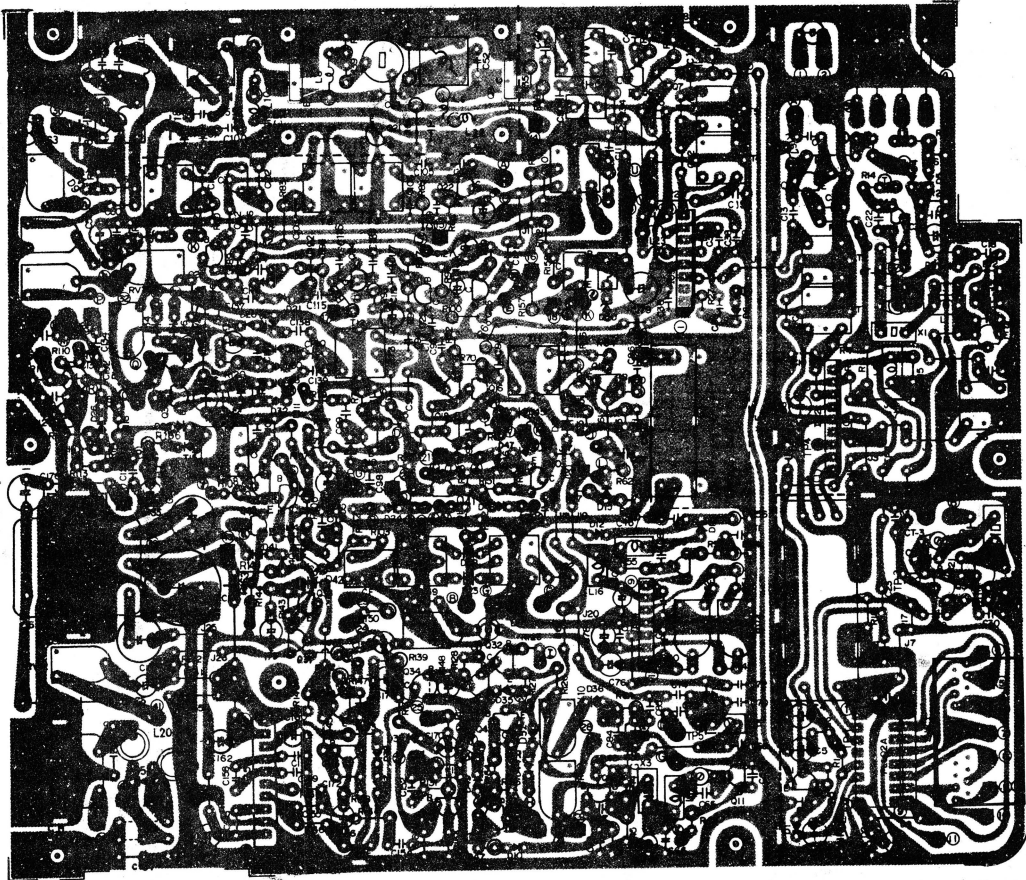
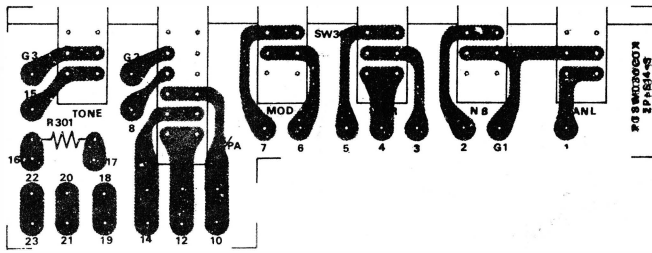
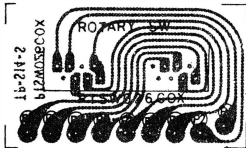
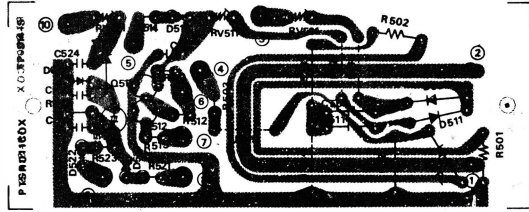
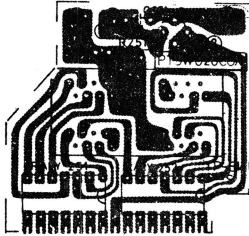
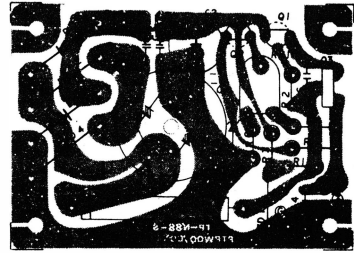
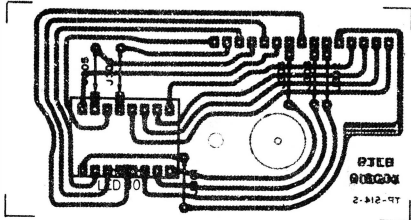
PC BOARD BOTTOM VIEW



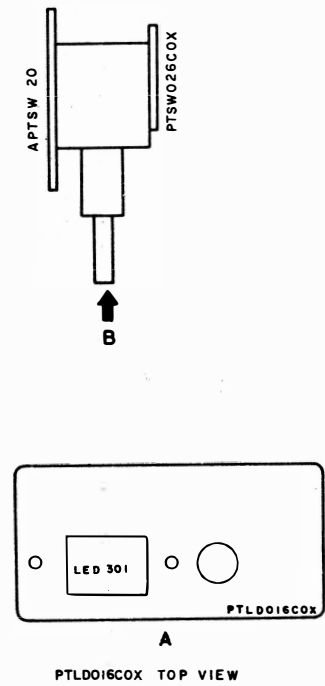
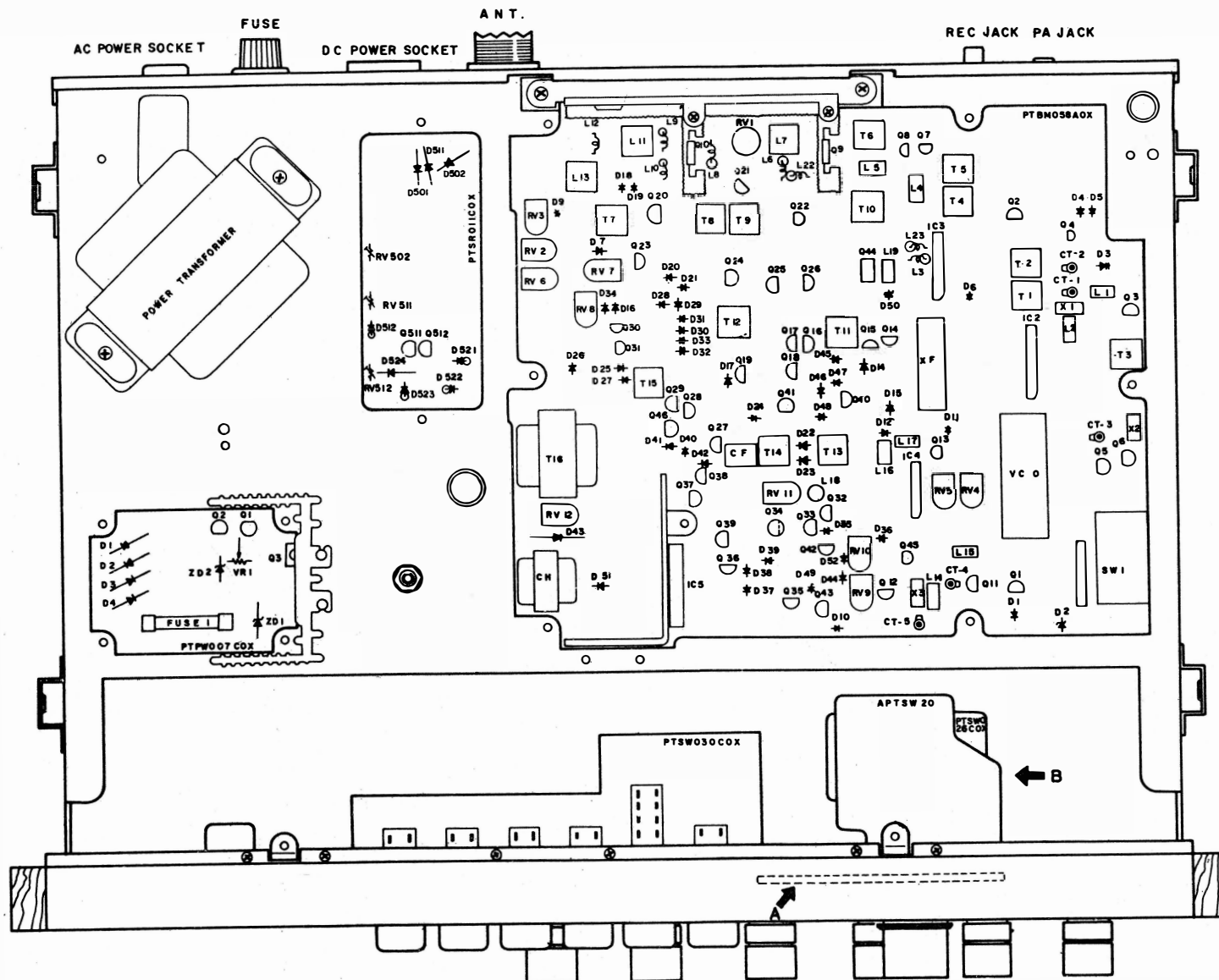
INTERIOR COMPONENT LAYOUT



TELSAT SSB-140 SCHEMATIC DIAGRAM



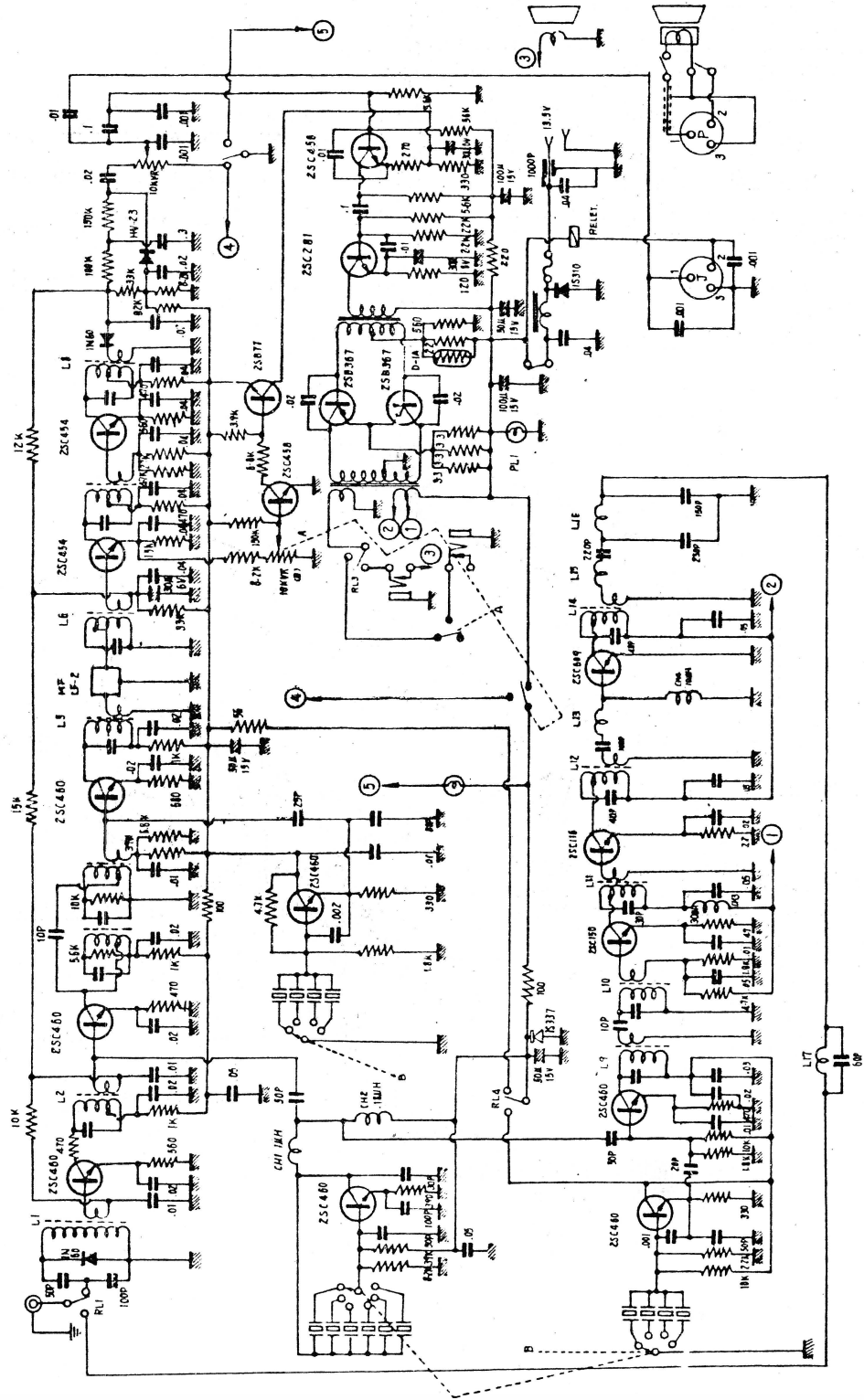
TELSAT SSB-140 PC BOARDS

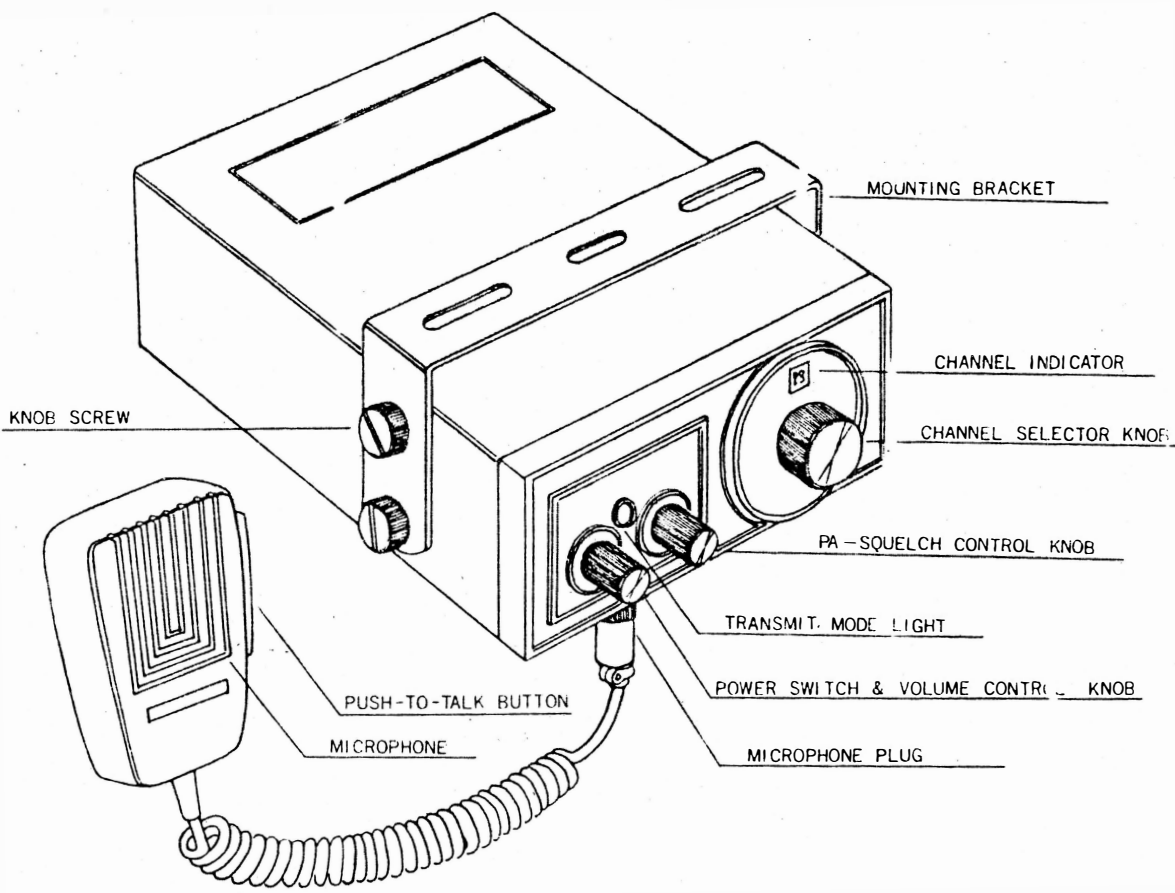
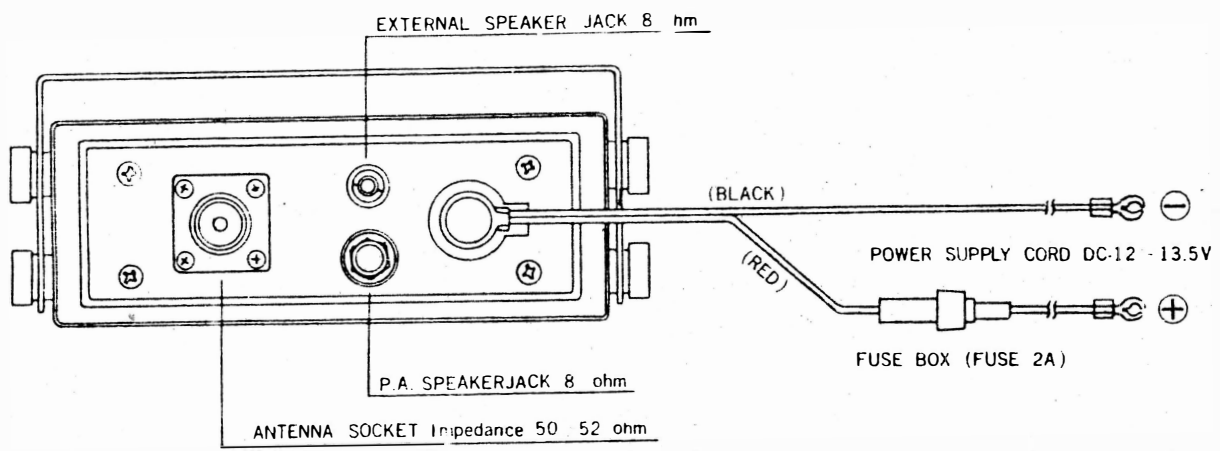


ANL	NB	SWR	MOD	PA	TONE LO	CHANEL	VOLUME
OFF	OFF	CAL	CAL	CB	HI	SELECTOR	SQUELCH
PHONE	POWER	SWR CAL	MOD CAL	RF GAIN	FINE TUNE	USB	MIC
			RF			LSB AM	

TELSAT SSB-140

SCHEMATIC DIAGRAM TC-5007





TOKAI - TC - 5007