

This Information Is Provided By  
***CBTricks.com***

Midland 77-805 (UK) Service Manual

**Liability of damages to any equipment is the sole responsibility of the user! Downloading, viewing, or using any information provided on these pages automatically accepts the user to the terms of this agreement!**

**Modifications are provided for information purposes only!**

Supporters of CBTricks.com paid for the hosting so you would have this file.

CBTricks.com is a non-commercial personal website was created to help promote the exchange of service, modification, technically oriented information, and historical information aimed at the Citizens Band, GMRS (CB "A" Band), MURS, Amateur Radios and RF Amps.

CBTricks.com is not sponsored by or connected to any Retailer, Radio, Antenna Manufacturer or Amp Manufacturer, or affiliated with any site links shown in the links database. The use of product or company names on my web site is not endorsement of that product or company.

The site is supported with donations from users, friends and selling of the Site Supporters DVD's to cover some of the costs of having this website on the Internet instead of relying on banner ads, pop-up ads, commercial links, etc. Thus I do not accept advertising banners or pop-up/pop-under advertising or other marketing/sales links or gimmicks on my website.

ALL the money from donations is used for CBTricks.com I didn't do all the work to make money (I have a day job). This work was not done for someone else to make money also, for example the ebay CD sellers.

All Trademarks, Logos, and Brand Names are the property of their respective owners.

This information is not provided by, or affiliated in any way with any radio or antenna Manufacturers.

**Thank you for any support you can give.**

For information on how to Support CBTricks.com

<http://www.cbtricks.com/support/>

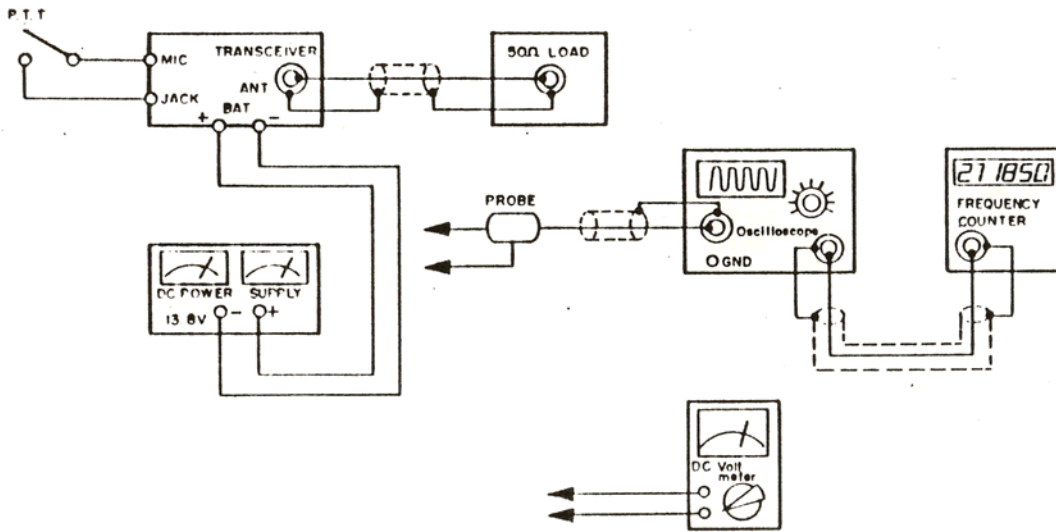
77-805(UK)

(SERVICE MANUAL)

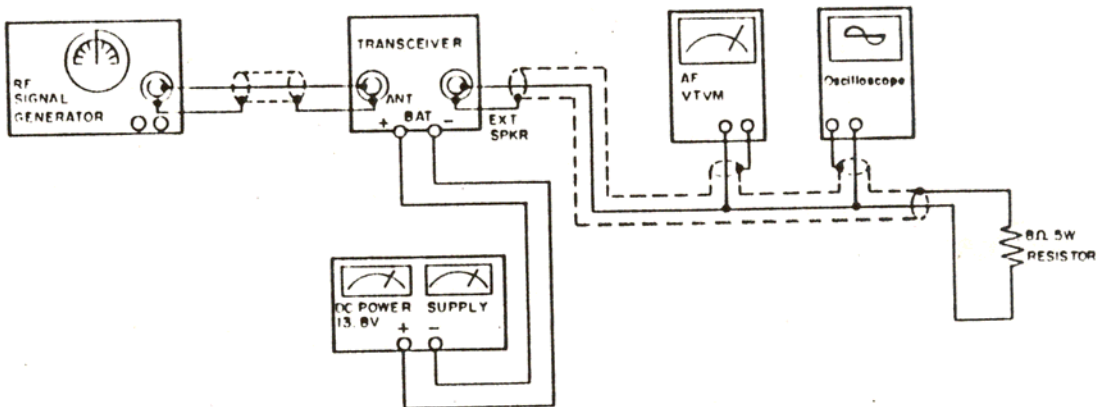
MIDLAND

# Test Equipments Setup

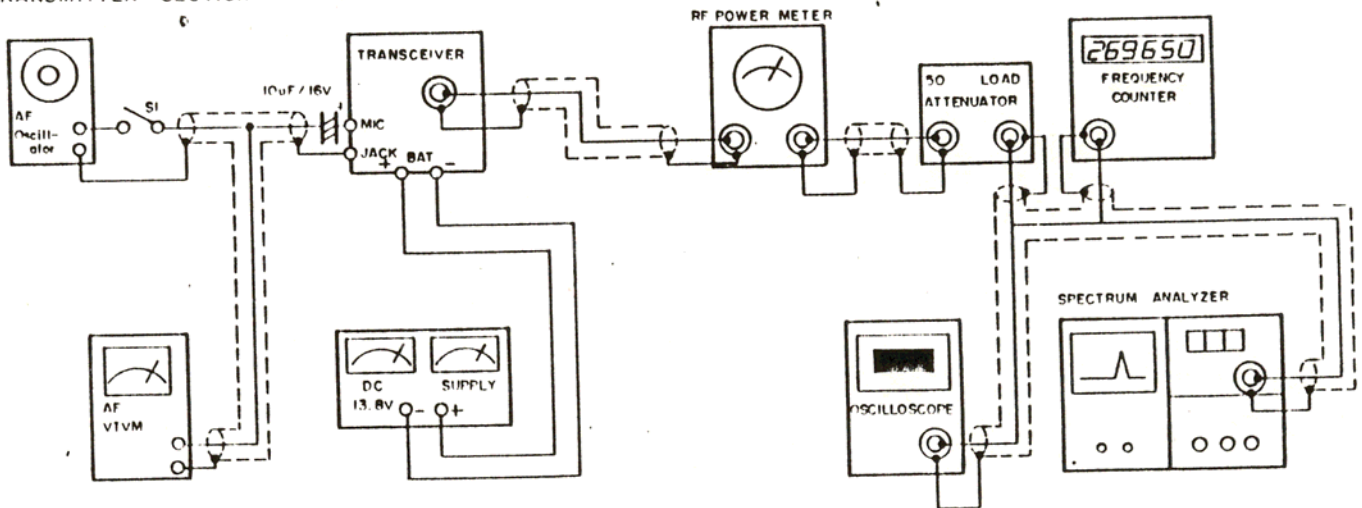
## PLL AND CARRIER SECTION



## RECEIVER SECTION



## TRANSMITTER SECTION



# Voltage Chart

## I. RX

(UNIT:V)

Q NO.		Q101	Q102	Q103	Q104	Q105	Q107	Q108
BASE	RX	1.40	2.10	2.10	0.20	7.95	1.40	0.65
	TX	0.07	0.50	0.50	-0.20	7.25	0.60	0.55
COLLECTOR	RX	6.10	6.65	6.65	0.00	0.00	0.65	2.55
	TX	0.80	8.00	8.00	-0.15	7.95	0.55	0.65
EMITTER	RX	2.15	1.40	1.40	0.00	8.00	0.00	0.00
	TX	0.45	0.00	0.00	0.00	8.00	0.00	0.00

IC NO.		PIN NO.	1	2	3	4	5	6	7	8
IC101 MC3357	RX		7.99	7.90	7.50	8.00	1.00	1.00	1.00	8.00
	TX		7.99	7.90	7.50	8.00	1.00	1.00	1.00	8.00
IC NO.		PIN NO.	9	10	11	12	13	14	15	16
IC101 MC3357	RX		4.60	1.90	2.15	1.30	(SQ.4.25) 0.00	(SQ.0.00) 0.45	0.00	1.95
	TX		4.60	1.90	2.10	1.30	4.25	0.00	0.00	1.95

IC NO.		PIN NO.	1	2	3
IC103 MC78M03	RX		13.10	0.00	8.00
	TX		12.20	0.00	8.00

NOTE 1. RX AND TX CHANNEL : 19CH.  
 2 CHECK VOLTAGE : ALL DC VOLTAGE (V).  
 3 RX : NO SIGNAL.  
 TX : NO MOD.

IC NO.		PIN NO.	1	2	3	4	5	6	7	8	9	10
IC104 KIA7217	RX		13.10	11.95	3.75	7.60	1.40	3.20	3.20	1.20	0.00	6.40
	TX		12.20	11.05	3.55	7.25	1.40	3.00	3.00	1.20	0.00	6.00

IC NO.		PIN NO.	1	2	3	4	5	6	7	8
IC106 TL489CP	RX		0.00	0.00	11.75	0.00	0.00	0.00	12.09	0.10
	TX		0.00	0.00	0.05	0.05	0.05	0.09	10.75	1.00

2. TX

(UNIT: V)

Q NO.		Q109	Q110	Q111	Q112
BASE	RX	0.00	0.00	0.00	0.00
	TX	2.35	1.45	0.10	0.90
COLLECTOR	RX	0.00	13.15	13.15	13.15
	TX	7.95	11.80	11.30	12.30
EMITTER	RX	0.00	0.00	0.00	0.00
	TX	1.70	0.70	0.00	0.00

PIN NO.		1	2	3	4	5	6	7
IC105	RX	5.80	5.55	7.25	7.10	7.25	5.55	5.80
LM324	TX	3.50	3.50	3.50	7.00	3.50	3.50	3.50
PIN NO.		8	9	10	11	12	13	14
IC105	RX	5.80	5.75	7.25	0.00	0.01	0.25	0.00
LM324	TX	3.55	3.50	3.50	0.00	0.01	0.25	0.00

3. V-C-O

Q NO.		Q113	Q114	Q115
BASE	RX	0.75	4.65	0.00
	TX	0.75	4.65	0.80
COLLECTOR	RX	5.85	8.00	8.00
	TX	5.85	8.00	0.00
EMITTER	RX	0.00	4.25	0.00
	TX	0.00	4.25	0.00

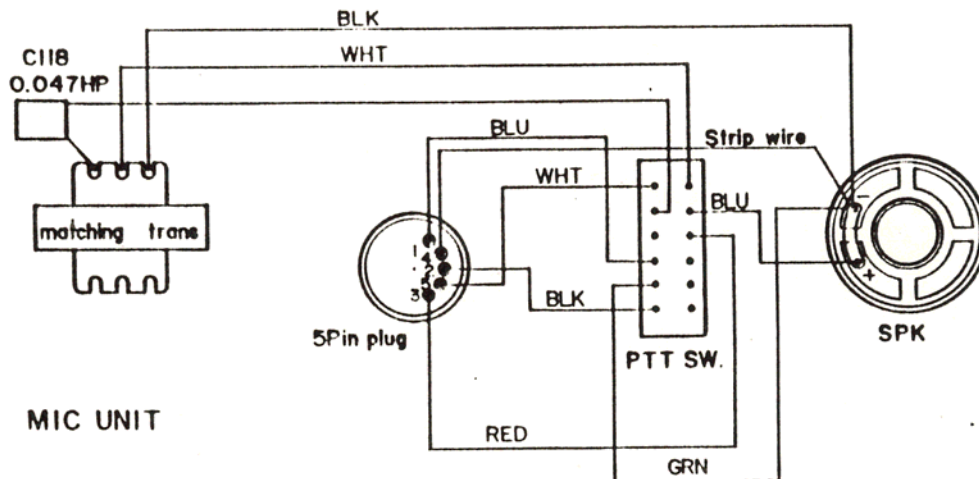
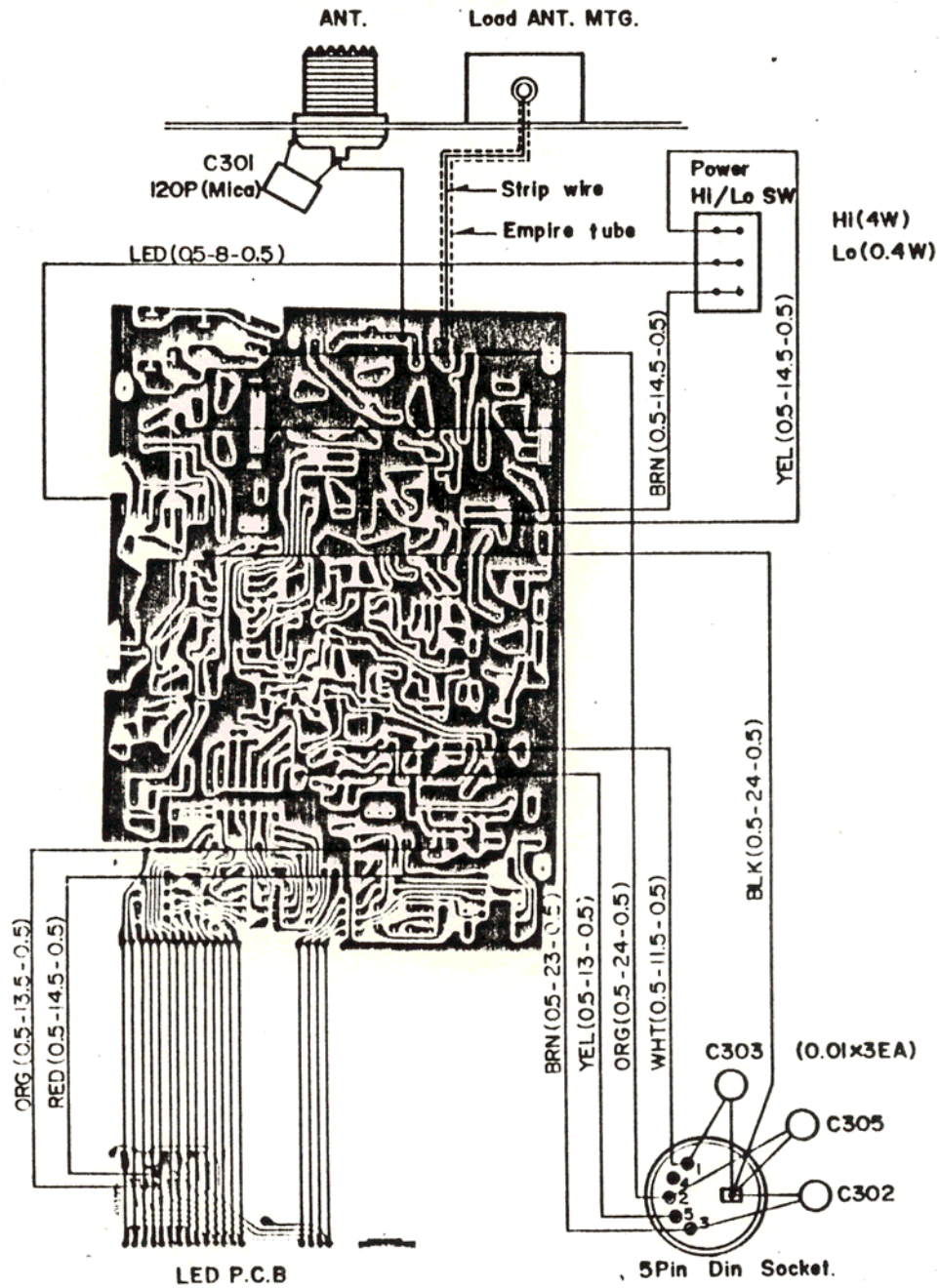
- NOTE 1. RX AND TX CHANNEL : 19CH.  
 2. CHECK VOLTAGE : ALL DC VOLTAGE (V).  
 3. RX : NO SIGNAL.  
 TX : NO MOD.

PIN NO.		1	2	3	4	5	6	7	8	9	10
IC102	RX	7.25	0.02	0.02	7.25	7.25	0.02	0.01	0.01	0.01	0.00
LC 7136	TX	7.25	0.02	0.02	7.25	7.25	0.01	0.01	0.01	0.01	4.65
PIN NO.		11	12	13	14	15	16	17	18	19	20
IC102	RX	2.95	3.45	0.00	0.00	1.58	1.58	2.35	6.70	3.35	6.70
LC 7136	TX	2.95	3.45	0.00	4.65	1.66	1.66	1.35	6.70	3.35	0.50

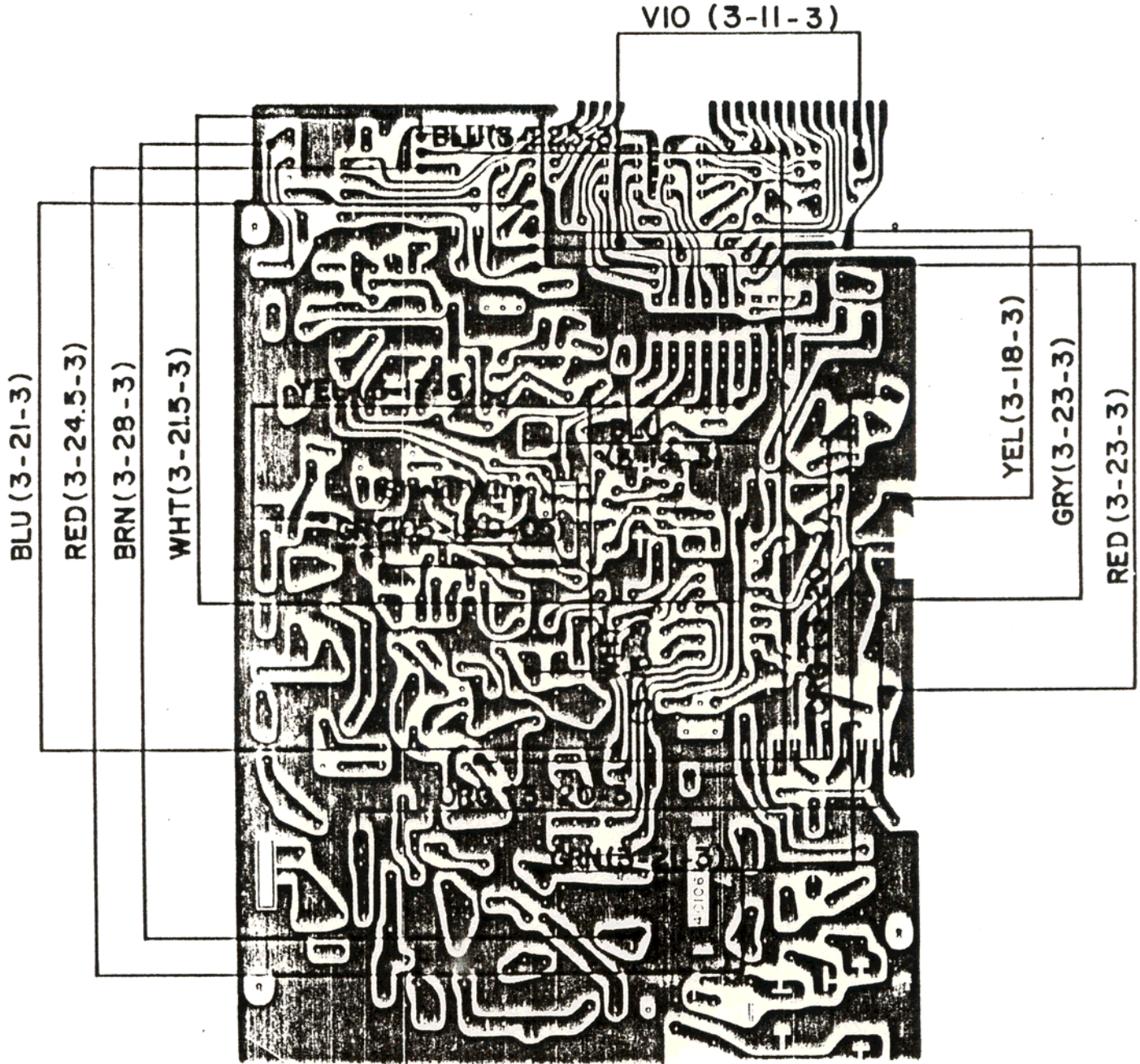
4. CHECK LIGHT SW. TR

		B	E	C
Q116	LED ON	0.75	0	0
	LED OFF	0	0	7.8

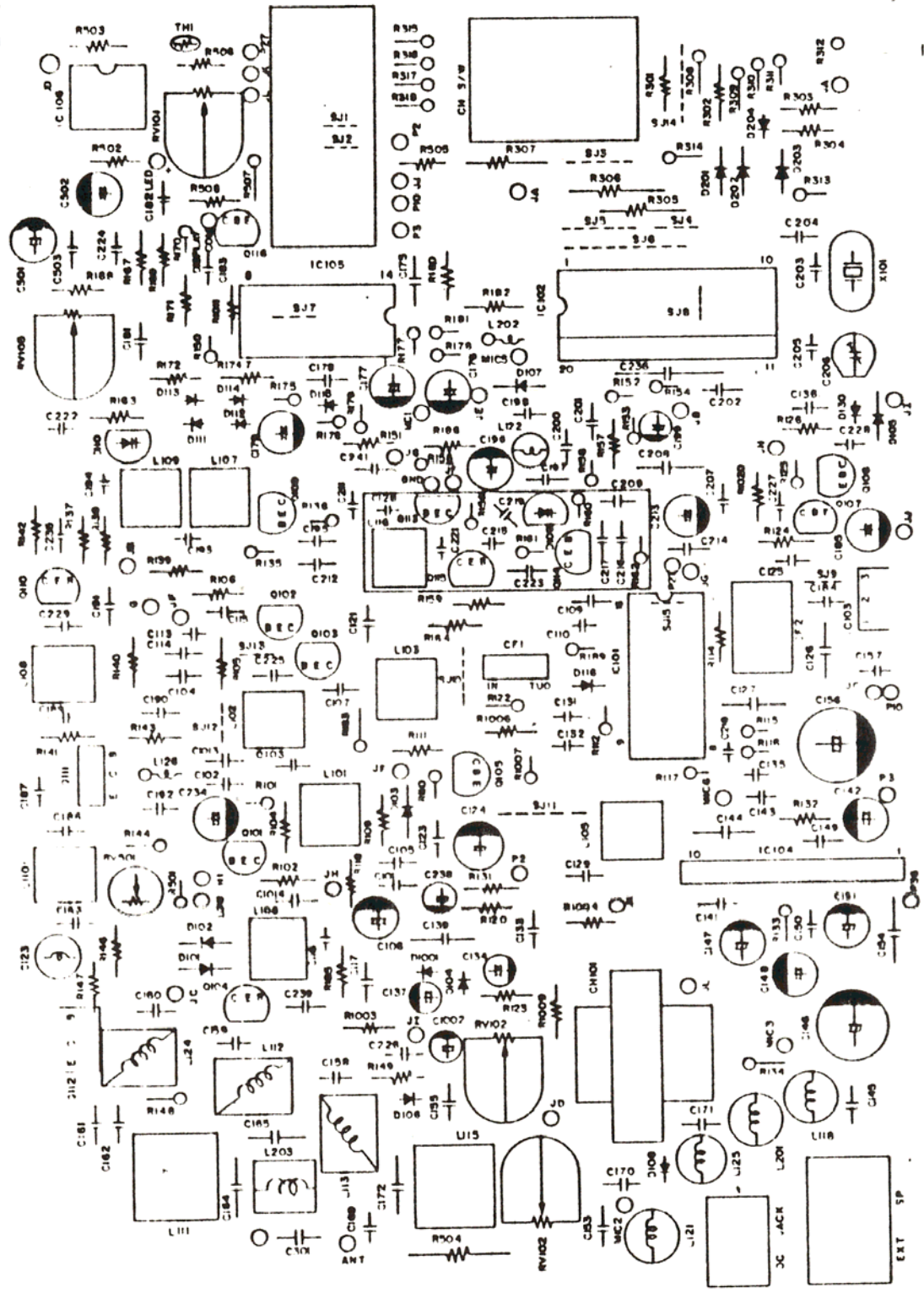
# Wiring Diagram



# PCB Wiring Diagram



# Bottom View

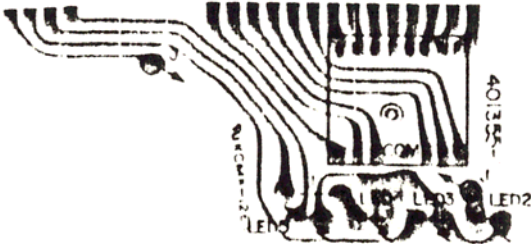
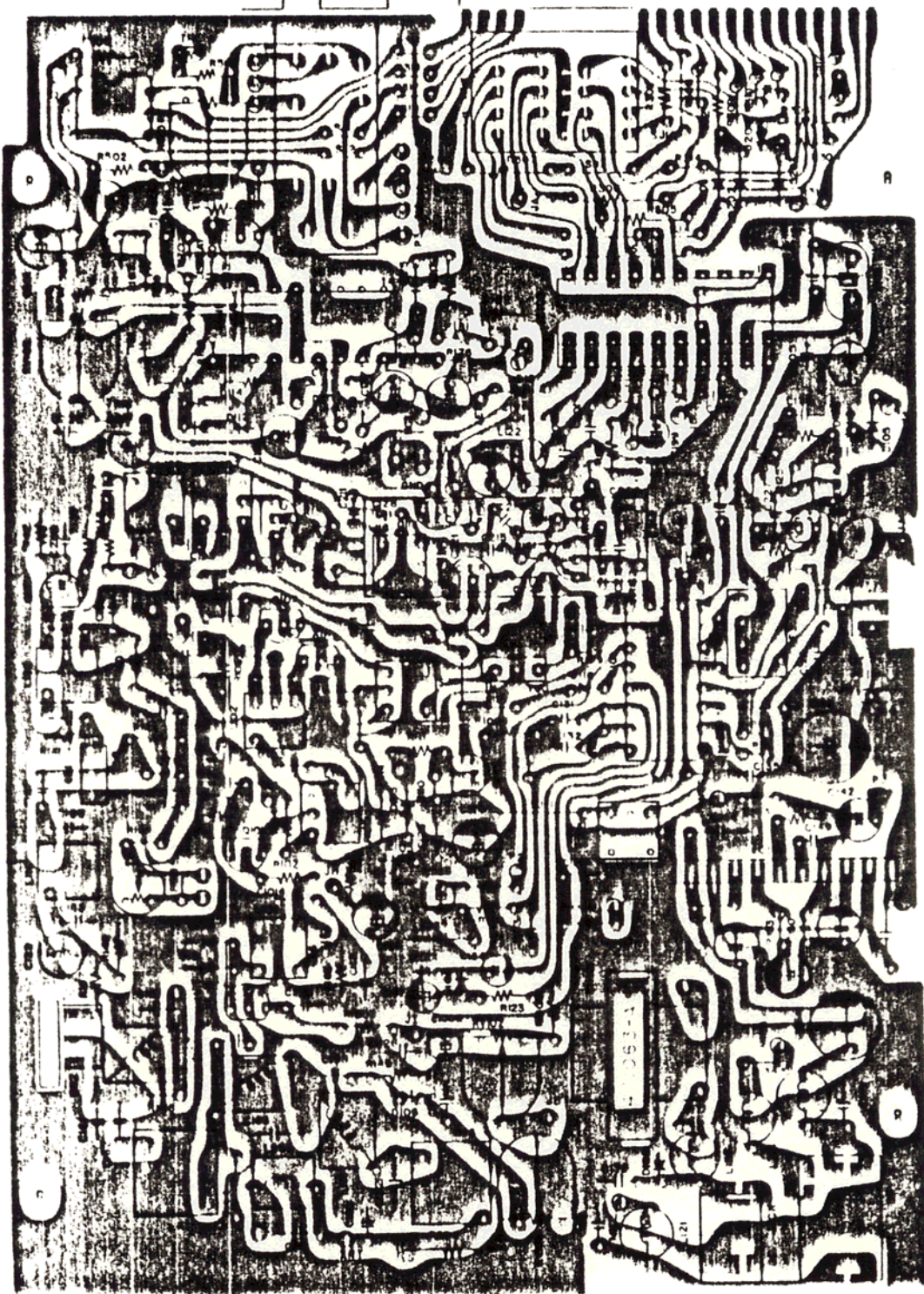


g b a f G B A F  
c d e COM C D E





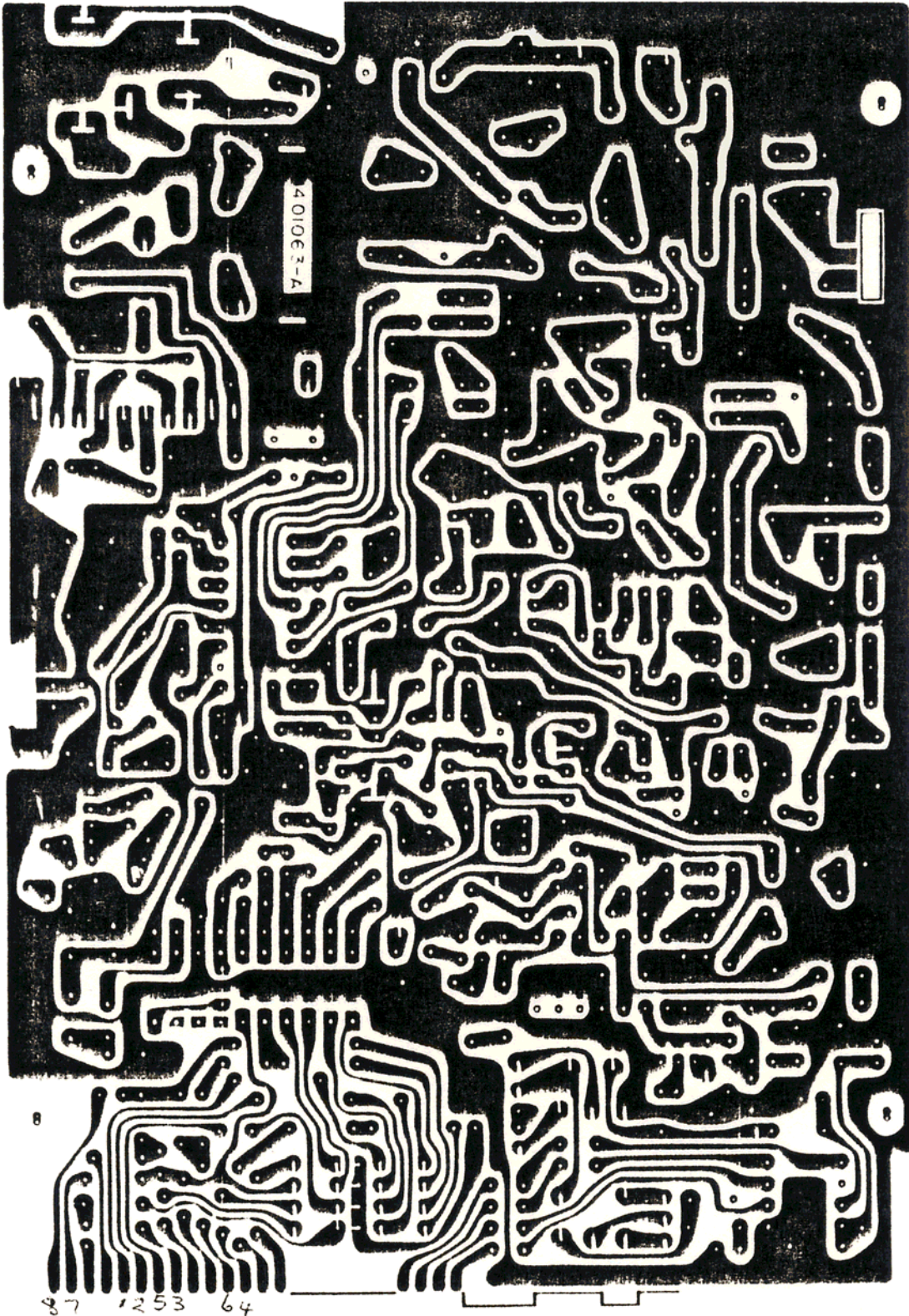
# Bottom View





401355-1

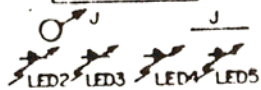
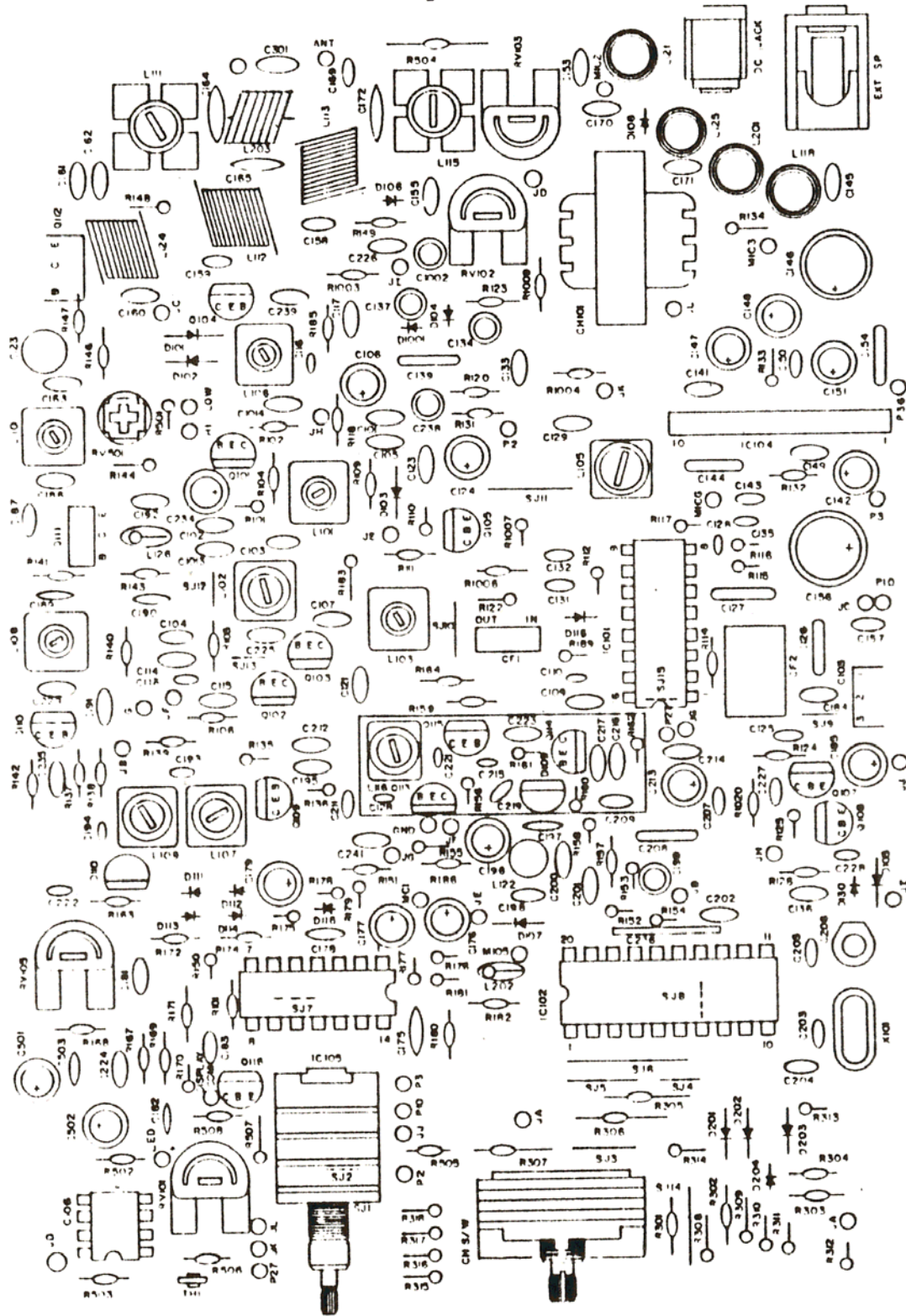
PARCME-1281



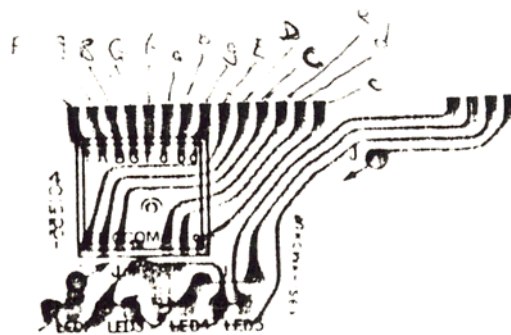
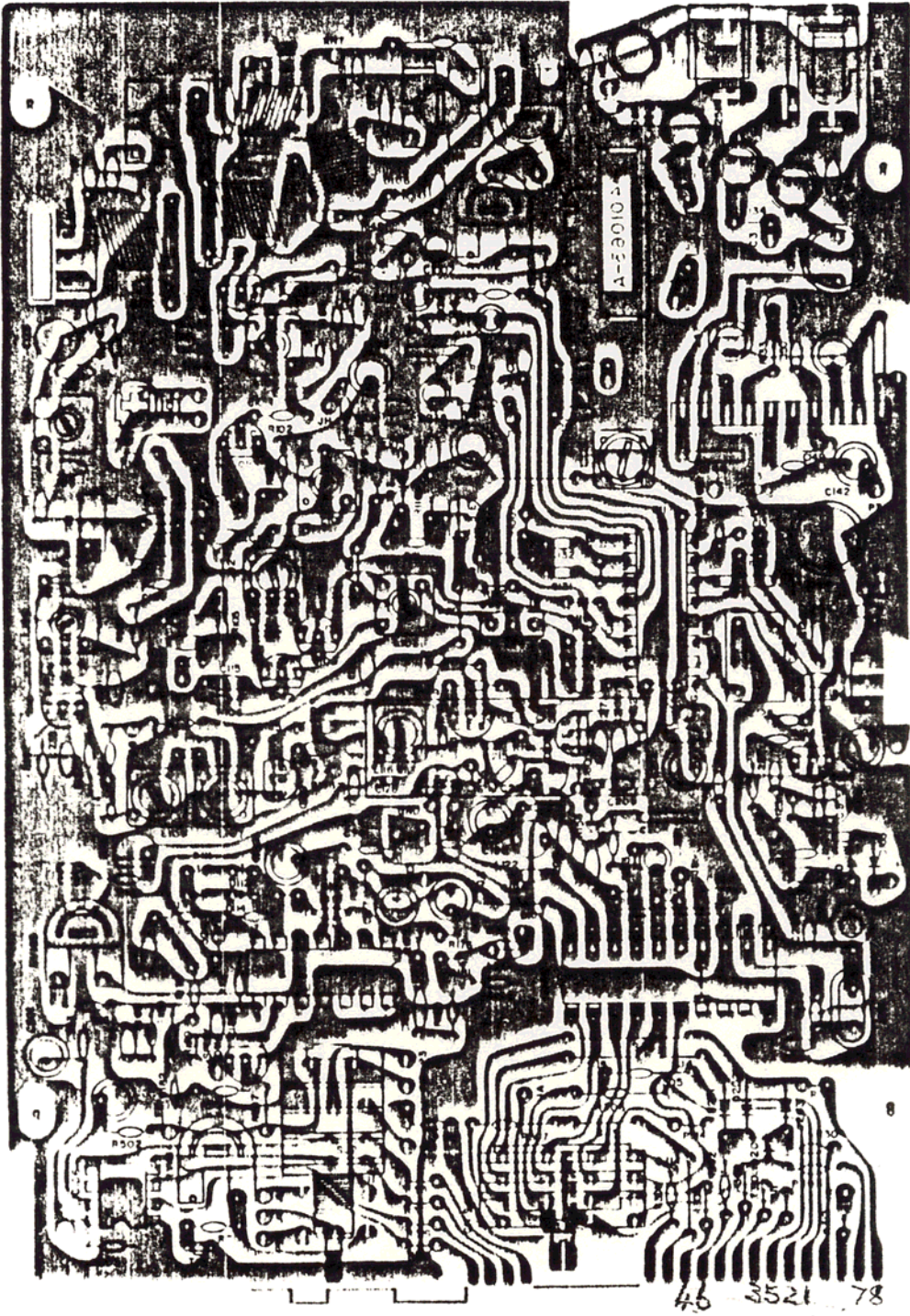
401063-A

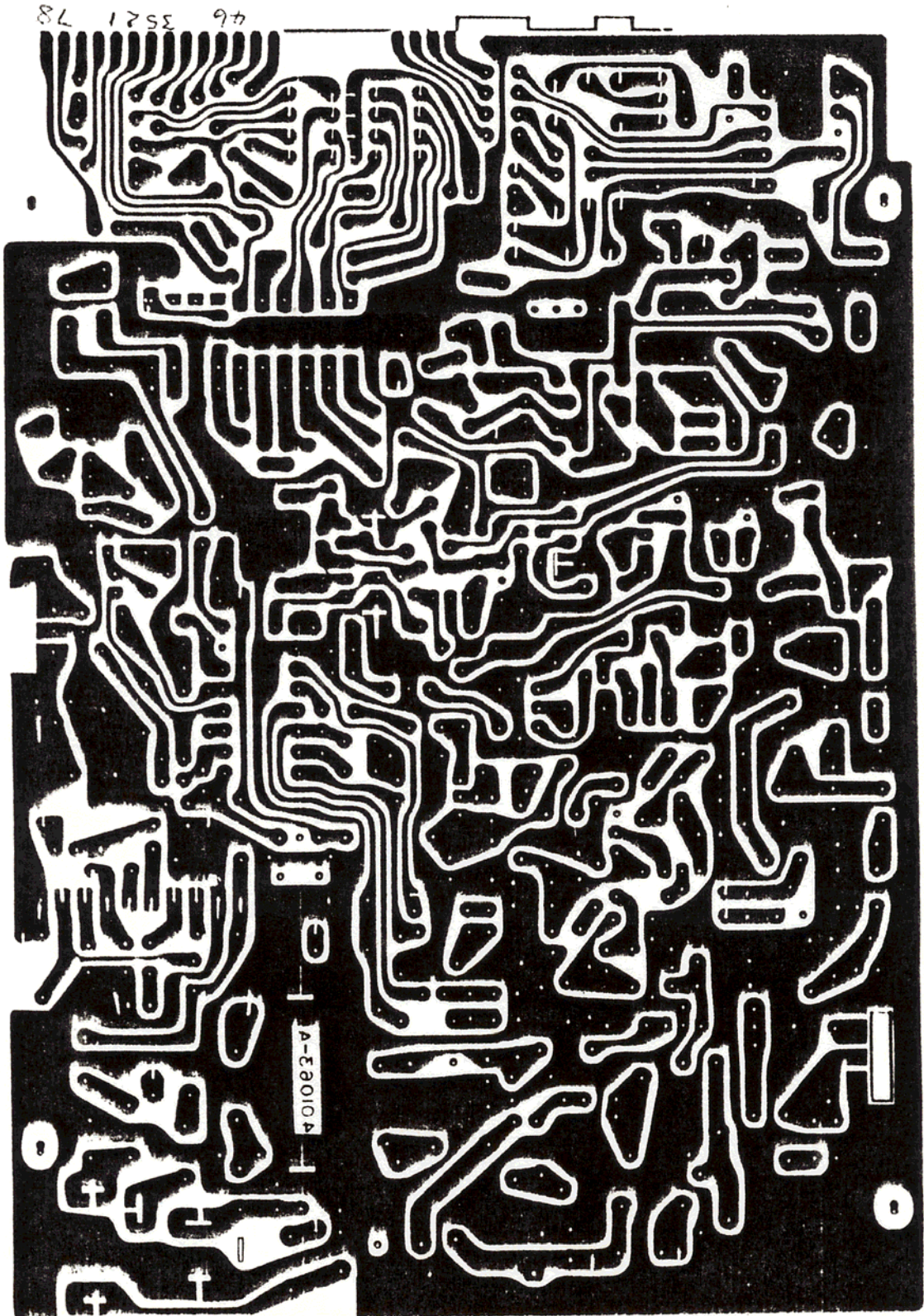
87 1253 64

# Top View



# Top View





# Part List

Seq.	Part-No.	Part Name and Description	Q'ty	Reference-No.
1	510-42C-A	Cover Ass'y	1	E.S.C MTG=4 Main Body & U/B Cover=8
	611-095	(+) Machine Screw (F.H) M2.6x5 Zn-Plate	4	
	633-082	(+) Tap Tite Screw (B.H) 3x6 BLK	8	
	713-580	Cover Upper Spcc 155x165x0.8t	1	
	714-020	Bottom (Cover) Spcc 155x165x0.8t	1	
	791-361	Name Plate ALP3 32x27x0.5t	1	
	801-040	Escutcheon 77-805UK	1	
	812-570	Lens Smoke 77-104 Acryl Silk	1	
	822-231	Knob (Channel)	1	
	822-241	Knob (Control) ABS BLK Paint	1	
	822-251	Knob (Squelch) ABS BLK Paint	1	
	891-590	Rubber Sponge 25x25x5t	1	
	900-054	Insulation Plate (Cover) Fiber 30x30x0.3t	1	
	901-031	Felt (Strip) Felt 110x6x0.3t	2	
	901-721	Plate Insulation Fiber 106x146x0.8t	1	
	901-767	Felt Strip BLK Felt 10x110x1t	2	
	2	510-42F-B	Front Body Ass'y	
130-102-9		Capacitor Ceramic 0.01 $\mu$ F 50WV (Hik (B))	3	
161-202-0		Capacitor Mica 120pF 50WV	1	
203-010-6		Transistor MPS9418(T)	1	
204-010-1		Transistor 2SC 2078(E)	1	
222-006-4		I.C KIA 7217AP	1	
223-006-9		I.C MC78M08CT	1	
251-016-7		L.E.D Lamp SLB26UR3HL RED	4	
252-025-0		LED Display LTD333G GRN	1	
401-355-B		P.C.B LED 70.5x24.5x1.6t	1	
420-401-9		Center Loaded Telescopic ANT/MTG Bracket For 77-800M	1	
420-707-6		Jack Earphone HS J 0615-01-010	1	
421-507-7		Socket D/N D5-730N00	1	
421-511-0		External PWR Socket SKJ122A	1	
430-030-0		Rotary SW GPS-0563	1	
435-004-2		Toggle SW MS245-A01	1	
440-004-0		Mica (For T.R 2SC2078)	1	
441-004-5		Bushing (For T.R 2SC2078)	1	
480-015-6		Potential Meter KAC-170-5N2111,5N1211-10KC	1	
508-450		Ant MTG Holder Ass'y	1	
420-723-0		Mounting Ant 4BS BLK	1	
850-173		Bushing (M i G ANT) BSBM 8 $\phi$ x13	1	
613-332		(+) Machine Screw (B.H) M3x10 Zn-Plate	3	
623-168		(+) Tapping Screw (F.H) 3x6-2S Zn-Plate	4	
623-265		(+) Tapping Screw (B.H) 3x6-2S Zn-Plate	4	
623-344		(+) Tapping Screw (B.H) 3x8-2S BLK	2	
651-024		Nut SS41 M3-1S Zn-Plate	3	
660-457		Washer Flat 3.2x8	1	
662-305		Washer (Spring) M3 Zn-Plate	3	
700-981		Main Body (77-805Series) SPC 425x42x1t	1	
731-790		Holder (ANT MTG) Spte 29x35x0.3t	1	
760-704		Heat Sink (IC MTG) APL 30x18x2t	1	
760-740		Heat Sink (TR MTG) APL 65x25x2t	1	
760-870		Heat Sink (Large IC MTG) ALP 92x25x2t	1	
770-390		Shield Plate Spte 26x17x0.3t	1	
902-050		Insulation Plate Fiber 26x14x0.3t	1	
990-024		Rivet AL 2x3	2	
992-440	Ant Receptacle (W/Nut Washer) Kyeong Seovg M Type 8112	1		
3	510-42M-P	Main PCB Ass'y	1	R110,308-314 R150,2,170,507
	001-102-4	Resistor Carbonfilm 1K Ohm 1/16W +5% "F"	8	
	001-103-5	Resistor Carbonfilm 10K Ohm 1/16W +5% "F"	4	

Seq.	Part No.	Part Name and Description	Q'ty	Reference-No.
	001-104-8	Resistor Carbonfilm 100K Ohm 1/16W +5% "F"	2	R125,158
	001-105-7	Resistor Carbonfilm 1M Ohm 1/16W +5% "F"	1	R112
	001-122-2	Resistor Carbonfilm 1.2K Ohm 1/16W "F"	5	R148,315-318
	001-154-1	Resistor Carbonfilm 150K Ohm 1/16W +5% "F"	1	R135
	001-222-9	Resistor Carbonfilm 2.2K Ohm 1/16W +5% "F"	3	R101,115,154
	001-223-0	Resistor Carbonfilm 22K Ohm 1/16W +5% "F"	2	R160,176
	001-224-1	Resistor Carbonfilm 220K Ohm 1/16W +5% "F"	1	R161
	001-272-4	Resistor Carbonfilm 2.7K Ohm 1/16W +5% "F"	1	R175
	001-331-4	Resistor Carbonfilm 330 Ohm 1/16W +5% "F"	1	R133
	001-332-5	Resistor Carbonfilm 3.3K Ohm 1/16W +5% "F"	1	R164
	001-333-6	Resistor Carbonfilm 33K Ohm 1/16W +5% "F"	1	R153
	001-391-8	resistor Carbonfilm 390 Ohm 1/16W +5% "F"	2	R136,189
	001-392-9	Resistor Carbonfilm 3.9K Ohm 1/16W +5% "F"	1	R181
	001-393-0	Resistor Carbonfilm 39K Ohm 1/16W +5% "F"	1	R1007
	001-471-7	Resistor Carbonfilm 470 Ohm 1/16W +5% "F"	1	R183
	001-472-8	Resistor Carbonfilm 4.7K Ohm 1/16W +5% "F"	3	R116,178,9
	001-474-0	Resistor Carbonfilm 470K Ohm 1/16W +5% "F"	1	R177
	001-561-5	Resistor Carbonfilm 560 Ohm 1/16W +5% "F"	1	R501
	001-683-2	Resistor Carbonfilm 68K Ohm 1/16W +5% "F"	1	R117
	002-101-8	Resistor Carbonfilm 100 Ohm 1/16W +5% "S"	1	R140
	002-102-9	Resistor Carbonfilm 1K Ohm 1/16W +5% "S"	11	R126,143,9,155,301-307
	002-103-0	Resistor Carbonfilm 10K Ohm 1/16W +5% "S"	8	R122,131,168,171,2,180, 508,1011
	002-104-1	Resistor Carbonfilm 100K Ohm 1/16W +5% "S"	3	R123,4,163
	002-122-7	Resistor Carbonfilm 1.2K Ohm 1/16W +5% "S"	1	R1006
	002-151-3	Resistor Carbonfilm 150 Ohm 1/16W +5% "S"	1	R502
	002-154-6	Resistor Carbonfilm 150K Ohm 1/16W +5% "S"	1	R156
	002-180-9	Resistor Carbonfilm 18 Ohm 1/16W +5% "S"	1	R102
	002-203-7	Resistor Carbonfilm 20K Ohm 1/16W "S"	1	R169
	002-221-3	Resistor Carbonfilm 220 Ohm 1/16W +5% "S"	1	R186
	002-222-4	Resistor Carbonfilm 2.2K Ohm 1/16W +5% "S"	2	R114,1070
	002-223-5	Resistor Carbonfilm 22K Ohm 1/16W +5% "S"	1	R1003
	002-272-9	Resistor Carbonfilm 2.7K Ohm 1/16W +5%	3	R105,137,162
	002-332-0	Resistor Carbonfilm 3.3K Ohm 1/16W +5% "S"	1	R506
	002-333-1	Resistor Carbonfilm 33K Ohm 1/16W +5% "S"	1	R1004
	002-391-3	Resistor Carbonfilm 390 Ohm 1/16W +5% "S"	1	R109
	002-471-2	Resistor Carbonfilm 470 Ohm 1/16W +5% "S"	3	R106,118,151
	002-472-3	Resistor Carbonfilm 4.7K Ohm 1/16W +5% "S"	5	R111,138,9,157,182
	002-473-4	Resistor Carbonfilm 47K Ohm 1/16W +5% "S"	2	R159,167
	002-474-5	Resistor Carbonfilm 470K Ohm 1/16W +5% "S"	1	R174
	002-562-1	Resistor Carbonfilm 5.6K Ohm 1/16W +5% "S"	1	R120
	002-569-8	Resistor Carbonfilm 5.6 Ohm 1/16W +5% "S"	1	R147
	002-680-4	Resistor Carbonfilm 68 Ohm 1/16W +5% "S"	3	R141,2,6
	002-752-6	Resistor Carbonfilm 7.5K Ohm 1/16W +5% "S"	1	R503
	002-821-5	Resistor Carbonfilm 820 Ohm 1/16W +5% "S"	2	R132,185
	002-823-7	Resistor Carbonfilm 82K Ohm 1/16W +5% "S"	1	R104
	002-903-6	Resistor Carbonfilm 90K Ohm 1/16W +5% "S"	1	R1009
	012-472-6	Resistor Carbonfilm 4.7K Ohm 1/2W +5% "S"	1	R504
	018-100-0	Resistor Metaloxide 10 Ohm 1W "S"	2	R144,505
	019-479-8	Resistor Metaloxide 4.7 Ohm 2W +5% "S"	1	R134
	061-103-3	Resistor Semifixed 10K Ohm 8DIA "H"	1	RV102
	061-202-9	Resistor Semifixed 2K Ohm 8DIA "H"	1	RV101
	061-203-0	Resistor Semifixed 20K Ohm 8DIA "H"	2	RV103,5
	071-471-8	Resistor Semifixed H0651A-470B "H"	1	RV501
	098-501-3	Thermistor 500 Ohm	1	TH1
	101-006-2	Capacitor Elect 1.0 $\mu$ F 50WV (5DIAX11)	2	C142,501
	101-012-7	Capacitor Elect 10 $\mu$ F 16WV (5DIAX11)	6	C106,176,9,196,213,502

Seq.	Part-No.	Part Name and Description	Q'ty	Reference-No.
	101-021-5	Capacitor Elect 100 $\mu$ F 10WV (6DIAX11)	2	C124,185
	101-048 0	Capacitor Elect. 1000 $\mu$ F 16WV SR (12.5DIAX16.5)	1	C156
	102-223-6	Capacitor Elect 220 $\mu$ F 16WV (10DIAX12.5)	1	C146
	103 313 9	Capacitor Elect 33 $\mu$ F 16WV (5DIAX11)	1	C151
	104-703 3	Capacitor Elect 4.7 $\mu$ F 16WV (5DIAX11)	1	C234
	104-704 4	Capacitor Elect LN 4.7 $\mu$ F 16WV (5DIAX11)	1	C148
	104-711-0	Capacitor Elect 47 $\mu$ F 10WV (5DIAX11)	1	C177
	104-712-1	Capacitor Elect 47 $\mu$ F 16WV (6DIAX11)	1	C147
	130-101-8	Capacitor Ceramic 0.001 $\mu$ F 50WV	2	C153,222
	130-102-9	Capacitor Ceramic 0.01 $\mu$ F 50WV (Hik (B))	32	C101,2,7,9,17,21,3,36, 45,55,70,1,84,90,1,2,5,7, 200,1,2,14,23
	130 405-3	Capacitor Ceramic 0.047 $\mu$ F 50WV	6	C104,5,115,157,160,236
	131-002-7	capacitor Ceramic 10pF 50WV	3	C103,128,135
	131-016 0	Capacitor Ceramic 1pF 50WV SL 4 $\phi$ D	1	C158
	131-202-1	Capacitor Ceramic 120pF 50WV	2	C212,6
	131-501-1	Capacitor Ceramic 15pF 50WV	1	C193
	131-503 3	Capacitor Ceramic 150pF 50WV	2	C114,225
	131-802-3	Capacitor Ceramic 180pF 50WV	1	C149
	132-204-8	Capacitor Ceramic 220pF 50WV	3	C141,186,217
	132-701-0	Capacitor Ceramic 27pF 50WV	6	C110,125,159,203,211,5
	133 301-7	Capacitor Ceramic 33pF 50WV	1	c198
	133 302-8	Capacitor Ceramic 330pF 50WV SL	1	C189
	134-716 4	Capacitor Ceramic 47pF SL5 $\phi$	1	C116
	135 005-0	Capacitor Ceramic 5pF 50WV	3	C113,207,218
	135 007-2	Capacitor Ceramic 5pF (NPO) 4 $\phi$ D	1	C304
	135 602-9	Capacitor Ceramic 560pF 50WV	1	C163
	136 801-7	Capacitor Ceramic 68pF 50WV	1	C150
	138 201-5	Capacitor Ceramic 82pF 50WV SL	1	C194
	150 404-8	Capacitor Aluminum 0.47 $\mu$ F 16WV	2	C134,238
	151-003 4	Capacitor Aluminum 1.0 $\mu$ F 16WV	3	C137,199,1002
	161 005-9	Capacitor Mica 100pF 50WV	2	C161,2
	161-803 3	Capacitor Mica 180pF 50WV	3	C164,5,172
	163 501-0	Capacitor Mica 35pF 50WV	1	C205
	163 601-7	Capacitor Mica 36pF 50WV	1	C221
	163-901-8	Capacitor Mica 39pF 50WV	1	C219
	165 601-7	Capacitor Mica 56pF 50WV	1	C204
	166 002-1	Capacitor Mica 60pF 50WV	2	C169,187
	168 201-4	Capacitor Mica 82pF 50WV	1	C229
	172-002-4	Capacitor Trimmer 20pF TZ03R200E	1	C206
	191-002-5	M.P Capacitor 0.001 $\mu$ F 50WV +5%:J	3	C131,2,183
	191-004-7	M.P Capacitor 0.01 $\mu$ F 50WV +10%:K	5	C129,133,178,182,224
	191-502-0	M.P Capacitor 0.015 $\mu$ F 50WV:K +10%	1	C181
	192-201-3	M.P Capacitor 0.0022 $\mu$ F 50WV +5%:J	1	C143
	192-203-5	M.P Capacitor 0.022 $\mu$ F 50WV +5% "J"	1	C209
	194-703-0	M.P Capacitor 0.047 $\mu$ F 50WV +10%:K	1	C175
	196 803-7	M.P Capacitor 0.068 $\mu$ F 50WV +10%:K	5	C126,7,139,144,154
	203-004-1	Transistor MPS9426(B)	3	Q104,113,5
	203-005-2	Transistor MPS9426(C)	6	Q101,2,3,9,110,4
	203-009-6	Transistor MPS9681(T)	1	Q105
	203 011-7	Transistor MPS9623(H)	1	Q108
	203 012-8	Transistor MPS9623(I)	1	Q107
	204 017-8	Transistor 2SC2314(F)	1	Q111
	223 008-1	I.C MC3357P	1	IC101
	224 015-2	I.C LC7136	1	IC102
	231-001-7	I.C LM324N	1	IC105
	235 001-7	I.C TL 489CP	1	IC106



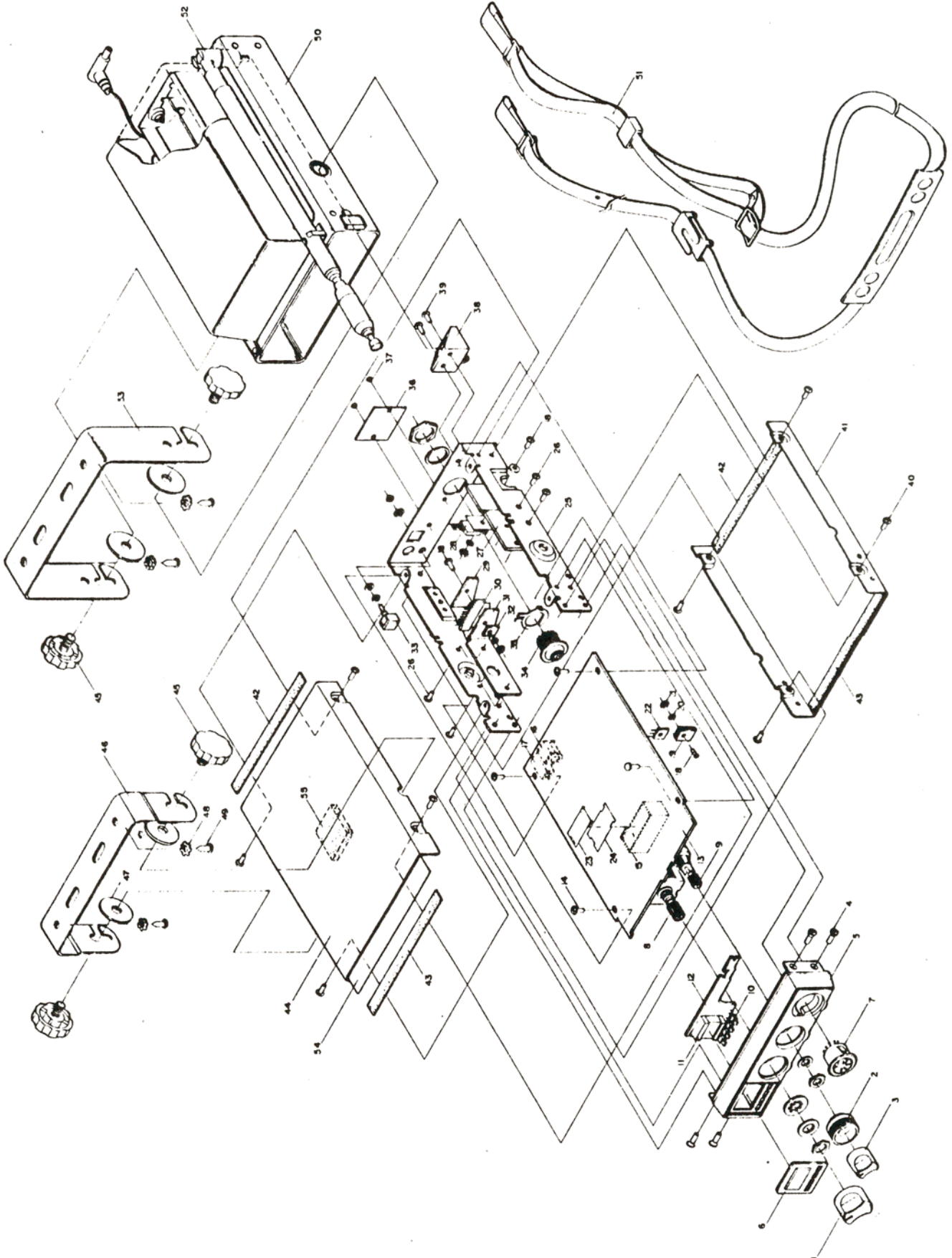
Seq.	Part-No.	Part Name and Description	Q'ty	Reference-No.
	242-002-6	Diode Varicap MV2209	2	D109,110
	243-004-3	Diode SI 1S2473	7	D101,2,3,7,201-203
	243-014-2	Diode 1S2473 "F" Type	7	D111-114,115,6,204
	244-003-7	Diode GE OA90	5	D105,6,1001,104,130
	245-004-3	Diode SI 1N4002	1	D108
	260-027-5	Crystal 10.240460MHz	1	X101
	270-007-0	Ceramic Filter CFW455HT	1	CF2
	270-010-2	Ceramic Filter 10.7MJ	1	CF1
	300-116-5	Trasformer Choke EI-19	1	CH101
	310-022-6	Coil RF Choke 10 $\mu$ H Core	1	L125
	310-025-9	Coil Choke 1 $\mu$ H Bobbin	1	L126
	310-038-1	Coil RF Choke 22 $\mu$ H Bobbin	1	L202
	310-045-7	Coil RF Choke 25 $\mu$ H PC	1	L122
	310-065-5	Coil RF Choke 0.5 $\mu$ H Spring	2	L113,124
	310-069-9	Coil RF Choke 6.8 $\mu$ H PC	1	L123
	310-072-1	Coil RF Choke 0.8 $\mu$ H Spring	3	L118,121,201
	310-207-7	Spring Coil 0.24 $\mu$ H	1	L203
	320-032-8	Coil AM TX Ant 27MHz A	1	L112
	320-142-4	Coil IFT 27MHz TX Ant Tuning-C(4.5t)	2	L111,5
	320-276-2	Coil IFT DET 455KHz	1	L105
	320-314-3	27MHz RX Ant	1	L106
	320-315-4	27MHz RF AMP (RX)	1	L101
	320-318-7	27MHz RF PRE AMP A (TX)	2	L107,109
	320-320-8	27MHz RF-C (TX)	1	L110
	320-390-1	Coil RF PRE AMP TX	1	L108
	320-411-7	RX RF 27MHz	1	L102
	320-412-8	RX Mixer 10,7MHz	1	L103
	320-413-9	RX OSC 17MHz	1	L116
	401-063-A	P.C.B Main 154.5x105.5x1.6t	1	
	613-305	(+) Machine Screw (B.H) M3x8 Zn-Plate	1	
	651-024	Nut SS41 M3-1S Zn-Plate	1	
	662-305	Washer (Spring) M3 Zn-Plate	1	
	760-430	Heat Sink (TR MTG) ALP3 12x30x0.8t	1	
	770-336	Shield Plate Spte-N 90x25x0.3t	1	
4	510-42-P-A	Packing Ass'y	1	
	502-150	Leather Case Ass'y	1	
	508-320	Shoulder Strip Ass'y	1	
	720-483	Hanger "B" SPC CR-P 80x16x0.6t S WRM 20x12x2 $\phi$	2	
	730-617	Holder ABS BLK	1	
	750-154	Clip SUS Cr-P	1	
	840-940	Shoulder Strap BLK 1550x15x1.8t	1	
	850-137	Rivet Long Stem 8M/M BLK 6 $\phi$	2	
	890-519	Rubber Holder Rubber BLK	1	
	508-430	Shoulder Strap BRK SUB Ass'y	1	
	665-027	E-Ring Cr-P 1.8 $\phi$	2	
	720-632	Bracket (Bracket & Shaft) SPC Cr-P 18x50x0.8t	1	
	720-641	Bracket (Bracket & Shaft) SPC Cr-P 30x68x1t	1	
	850-270	Shaft (Bracket) Bsbm Cr-P 2 $\phi$ x22	1	
	508-950	Battery Case Ass'y	1	
	018-560-2	Registor Metaloxide 56 Ohm 1W "S"	1	
	420-708-7	Jack Power (DC) MJ179-2.1	1	
	429-033-5	Wire 1007 AWG 22(17/0.16) Ass'y 17.5CM RED	0.17	
	429-034-6	Wire 1007 AWG 22(17/0.16) Ass'y 6CM BLK	0.07	
	621-350	(+) Tapping Screw (P.H) 2.6x6-1S BLK	2	
	750-215	Lug Terminal SS34 18x9x 0.3t Ni-Plate	1	
	840-338	Battery Case ABS BLK	1	
	864-080	DC Power Jack Plug 2DIA	1	

Seq.	Part-No.	Part Name and Description	Q'ty	Reference-No.
	880-163	Spring "B" (0.6 $\phi$ ) SWPA Ni-Plate	9	
	880-172	Spring "A" (0.6 $\phi$ ) SWPA Ni-Plate	2	
	720-456	Bracket Mic Hanger SPC 54x30x0.8t	1	
	720-465	Bracket (Hanger) SPC 25x16x0.8t Cr-P	2	
	721-990	Bracket (Ant Molder) Spcc	1	
	730-200	Holder (Ant) Nilon66 BLK	1	
	750-145	Cord Stopper SR-2 P-4	1	
	840-204	Belt, Strap BLK 150x32x2t	1	
	840-950	Main Case Texon Leather BLK 335x180x2t	1	
	840-970	Case BLK Texon Leather BLK 155x70x3t	1	
	841-110	Case Battery Cover Texon Leather BLK 140x230x1.5t	1	
	850-137	Rivet Long Stem 8M/M BLK 6 $\phi$	29	
	850-155	Hook W/107 Ass'y BLK 10 $\phi$	3	
	850-164	Rivet Large 9 $\phi$ BLK	2	
	890-263	Cushion (Sponge)WHT146x56x5t	1	
	900-434	Melton Protect Sheet (Round) Strip Felt (Brkt) 16 $\phi$ x0.5t BLK	4	
	900-461	Melton Protect Sheet (Square) Strip Felt (Ant HLD) 22x40x0.5t	1	
	903-570	Strip Felt 20DIAX0.5t BLK	3	
	903-580	Strip Felt 35x20x0.5t BLK	2	
	903-590	Strip Felt 130x20x0.5t BLK	2	
	940-359	Battery Label 77-805UK, Turkey	1	
	503-161	Adapter DC Car Ass'y (2.1 $\phi$ )	1	
	510-42M-A	Mic Ass'y	1	
	194-703-0	M.P Capacitor 0.047 $\mu$ F 50WV +10%:K	1	C118
	300-049-8	Transformer Matching	1	T2
	420-135-9	Speaker 50RP01 2" 16 Ohm 0.5W	1	
	432-004-7	Push S.W 2P-4C	1	
	504-037	5P Din Plug/Curled Cord Ass'y	1	
	420-304-5	Curled Cord 3P W/Bushing	1	
	421-002-7	Mic 5Pin Din Plug	1	
	890-096	Rubber Bushing Rubber	1	
	600-015	Securing Screw ABS (M6 P=1x9MM)	2	
	621-195	(+) Tapping Screw (R.H) 2.6x6-1S Zn-Plate	2	
	623-478	(+) Tapping Screw (R.H) 3x6-2S Zn-Plate	2	
	624-066	(+) Tapping Screw (R.H) 4x10-2S Zn-Plate	2	
	625-007	(+) Tapping Screw (T.H) 5x12-1S Zn-Plate	3	
	642-026	(+) Wood Screw (R+F.H) 2.7x14 Ni-Plate	3	
	642-044	(+) Wood Screw (R+F.H) 2.7x16-1S Ni-Plate	2	
	660-138	Washer Rubber 7x1.5 BLK	2	
	664-305	Washer (Lock "A" Type) M3 Zn Plate	2	
	664-411	Washer (Lock "B" Type) M4 Zn-Plate	2	
	664-518	Washer (Lock "B" Type ) M5 Zn Plate	3	
	710-532	Cover (Upper) Mic ABS Silk Silver Splay	1	
	710-541	Cover (Bottom) Mic ABS BLK	1	
	720-094	Bracket (Mic) SPC 58x41x1t Cr-P	1	
	721-970	Bracket Set MTG SPCC227x30x1.5t	1	
	730-024	Holder (Mic) ABS 2G BLK	1	
	740-081	Lever (S.W) Mic ABS BLK	1	
	750-048	Stopper (Cord Wire) SPC 12x25x1t	1	
	830-168	Bezel Mic ABS BLK	1	
	870-036	Wire Clamp (Cord) Nylon	1	
	890-281	Sponge Rubber (Speaker) Rubber BLK	1	
	890-290	Sponge (Trans) Sponge WHT	1	
	900-470	Felt (Speaker) Felt BLK	1	
	920-023	Poly Bag Mic Vinyl 125x205x0.03t	1	
	920-032	Poly Bag Accessory Vinyl 65(W)x85(L)x0.03t	2	

Seq.	Part-No.	Part Name and Description	Q'ty	Reference-No.
	920-041	Poly Bag Vinyl 255x185x0.03t	1	
	920-342	Poly Bag (Set) Vinyl 120x300x0.03t	1	
	940-171	Warning Card Nega Only	1	
	950-749	Label (Caution)	1	
	722-030	Bracket (Set) SPC	1	
	910-969	Box Snow (Upper) Styropor	1	
	910-978	Box Snow (Bottom) Styropor	1	
	917-815	Inner Box SW1 338x226x102	1	
	917-825	Out Box DW1 695x243x330	0.167	
	920-236	Poly Bag (Manual) Vinyl 300x185x0.03t	1	
	920-379	Poly Bag Set Vinyl	1	
	920-388	Poly Bag Ant. Vinyl	1	
	921-030	Poly Bag PP 250x100x0.05t	1	Power Cord:1
	935-280	Manual Instruction 77-805UK	1	
	940-199	Customer Registration (150M 40CH)	1	
5	510-42W-FB	Wire Front Body Ass'y	1	
	427-001-6	Wire 1007 AWG 24(1/0.51) BLK	0.24	1, Mic 4-PCB Mic GND (0.5:0.5)
	427-006-1	Wire 1007 AWG 24(1/0.51) GRN	0.06	28, LED PCB J7-J7 GND (0.5:0.5)
	427-010-4	Wire 1007 AWG 24(1/0.51) WHT	0.115	8, Mic 1-PCB Mic 1 (0.5:0.5)
	427-002-7	Wire 1007 AWG 24(1/0.51) BRN	0.375	
	427-003-8	Wire 1007 AWG 24(1/0.51) RED	0.225	
	427-004-9	Wire 1007 AWG 24(1/0.51) ORG	0.375	
	427-005-0	Wire 1007 AWG 24 (1/0.51) YEL	0.275	
6	510-42W-MA	Wire Mic Ass'y 77-805UK	1	
	427-044-5	Wire 1007 AWG 26(7/0.16) ORG	0.1	29, SP(+)-P.P5 (0.5:0.5)
	427-046-7	Wire 1007 AWG 26(7/0.16) GRN	0.1	30, SP(-)-P.P2 (0.5:0.5)
	427-047-8	Wire 1007 AWG 26 (7/0.16) BLU	0.1	31, SP(+)-P.P8 (0.5:0.5)
7	510-42W-MP	Wire Main PCB Ass'y	1	
	427-006-1	Wire 1007 AWG 24(1/0.51) GRN	0.21	18, JI-JI (3:3)
	427-008-3	Wire 1007 AWG 24 (1/0.51) VIO	0.11	21, JA-JA (3:3)
	427-009-4	Wire 1007 AWG 24(1/0.51) GRY	0.23	24, P10-P10 (3:3)
	427-316-1	Shield Wire 1533 AWG 26(1/0.41-0.42) GRY	0.12	27, GND-GND, JF-JF (2:2)
	427-002-7	Wire 1007 AWG 24(1/0.51) BRN	0.48	
	427-003-8	Wire 1007 AWG 24(1/0.51) RED	0.475	
	427-004-9	Wire 1007 AWG 24(1/0.51) ORG	0.4	
	427-005-0	Wire 1007 AWG 24(1/0.51) YEL	0.35	
	427-007-2	Wire 1007 AWG 24(1/0.51) BLU	0.365	
	427-010-4	Wire 1007 AWG 24(1/0.51) WHT	0.365	
8	952-420	Label (Check) (P.C.B. MTG) Paper 35x20	1	
9	960-007	Tube Vinyl (Clear) 3d	0.15	
10	960-025	Tube Vinyl (Clear) 5d	0.105	
11	964-043	Tube His 8M/M	0.225	
12	964-052	Tube His 11M/M	0.15	
13	964-098	Tube Empire 1d	0.225	
14	965-020	Tape Scotch 20M/M (0.020x25M)	0.3	
15	965-039	Tape Packing PVC (0.05x25M)	0.75	
16	966-007	Solder BAR 60:40	20	
17	966-016	Solder Rosin Core Wire 60:40 0.04"-0.05"	30	
18	966-025	Flux Rosin	10	
19	966-034	Thinner For Flux	5	
20	966-061	Silicon Grease YG-6111 OR XG-6111	1.5	
21	967-002	Stavilizer Material	50	
22	967-011	Bond #201	1.5	

Seq.	Part-No.	Part Name and Description	Q'ty	Reference-No.
23	967-039	Bond #601	5	
24	967-048	Compound	2	
25	967-057	Wax Micro	10	
26	967-066	Wax Poly	5	
27	967-084	Screw Locking Paint AGP	3	
28	967-136	Staple 18M/M	1	

# Exploded View



## Exploded View Part List

Seq.	Part No.	Part Name and Discription
1	822230	Knob Channel
2	822250	Knob Squelch
3	822240	Knob Control
4	611095	(+) Machine Screw (F.H) M2.6x5
5	800670	Escutcheon
6	812570	Lens Smoke
7	4215077	Socket D/N
8	4300180	Rotary S.W
9	4800156	Potentio Meter
10	2510167	LED Lamp SLB 26UR3HL
11	2520151	LED Display LTD 383G
12	4013551	P.C.B LED
13	4010424	P.C.B Main
14	623265	(+) Tapping Screw (B.H) 3x6-2S
15	770336	Shield Plate
16	4207076	Jack Earphone
17	4215110	External PWR Socket
18	613305	(+) Machine Screw (B.H) M3x8
19	760430	Heat Sink (TR MTG)
20	662305	Washer (Spring) M3
21	651024	Nut. SS41 M3-1S
22	2040167	Transistor 2SC2314(E)
23	770390	Shield Plate
24	902050	Insulation Plate Fiber
25	770980	Main Body
26	623168	(+) Tapping Screw (F.H) T3x6-2S
27	760740	Heat Sink (TR MTG)
28	2040091	Transistor 2SC 2078(D)
29	760704	Heat Sink (IC MTG)
30	2220064	I.C KIA 7217AP
31	760870	Heat Sink (Large IC MTG)
32	660457	Washer Flat 3.2x8
33	4350042	Toggle S.W
34	992440	ANT Receptacle (W/Nut Washer)
35	730477	Holder (ANT MTG)
36	789180	Name Plate
37	990024	Rivet
38	508450	ANT MTG Holder Ass'y
39	623344	(+) Tapping Screw (B.H) 3x8-2S
40	633082	(+) Tapping Screw (B.H) 3x6
41	714020	Bottom (Cover Splay)
42	901767	Felt Strip BLK 10x110x1T
43	901031	Felt Strip BLK 110x6x0.3T
44	713580	Cover Upper Silk
45	600015	Securing Screw ABS M6
46	721970	Bracket Set MTG
47	660138	Washer Rubber 7x1.5 BLK
48	664518	Washer (Lock "B" Type) M5
49	625007	(+) Tapping Screw (T.H) 5x12-1S
50	508440	Leather Case Ass'y
51	508320	Shoulder Strip Ass'y
52	4204019	Center Loaded Telescopic
53	722030	Bracket (Set)
54	900054	Insulation Plate (Cover)
55	891590	Rubber Sponge

# Block Diagram

