

SECTION 8. MAINTENANCE

8.1 DISASSEMBLY PROCEDURES

Perform only the steps necessary for service required.

8.1.1 KG106 TRANSCEIVER UNIT

(See Figure 8-1)

Table 8-1. KG106

UNIT	STEP	PROCEDURE
RX UNIT	1	Remove two cap bolts (28) and bolt spacers (39) from bottom cover (26).
	2	Remove two cap bolts (27) from bottom cover (26).
	3	Remove top and bottom covers (26) from chassis (25).
	4	Remove ten screws (32) from RX unit chassis (13).
	5	Remove RX unit cover (13) from RX unit chassis (12).
	6	Pry off RX VCO unit cover (41) from RX VCO PCB (20).
	7	Remove four studs (21) and one screw (22) from RX VCO PCB (20).
	8	Unplug RX VCO PCB (20) from RX main PCB (11).
	9	Remove six screws (33) from RX unit chassis (12).
	10	Remove RX unit chassis (12) from main chassis (25).
	11	Remove three screws (32) from RX unit chassis (12).
	12	Remove twelve screws (34) from RX main PCB (11).
	13	Remove RX main PCB (11) from RX unit chassis (12).
TX UNIT	1	Remove eight screws (32) from TX unit cover (17).
	2	Remove TX unit cover (17) from TX unit chassis (16).
	3	Remove four studs (21) from TX VCO PCB (23).
	4	Unplug TX VCO PCB (23) from TX main PCB (15).
	5	Remove eight screws (33) from TX unit chassis (16).
	6	Remove TX unit chassis (16) from main chassis (25).
	7	Remove three screws (32) from TX unit chassis (16).
	8	Remove eight screws (34) from TX main PCB (15).
	9	Remove TX main PCB (15) from TX unit chassis (16).

Table 8-1. Cont'd

UNIT	STEP	PROCEDURE
TERMINAL UNIT	1	Remove D-sub cover (47) from terminal PCB (24).
	2	Remove two D-sub studs (46) from terminal PCB (24).
	3	Remove two screws (30) and one screw (3) from terminal PCB (24).
	4	Remove terminal PCB (24) from main chassis (25).
PA UNIT	1	Remove four screws (31) from main chassis (25).
	2	Remove PA unit heat sink (10) from main chassis (25).
	3	Remove seven screws (9) from PA cover (4).
	4	Remove PA cover (4) from PA unit heat sink (10).
	5	Remove seven PA studs (1) from PA PCB (8).
	6	Remove four screws (2) and one screw (3) from PA PCB (8).
	7	Remove PA PCB (8) from PA unit heat sink (10).
DUPLEXER	1	Remove four screws (29) from duplexer.
	2	Remove duplexer from main chassis (25).
	3	To reassemble reverse the steps above.

8.1.2 KD-357M MICROPHONE

(See Figure 8-2)

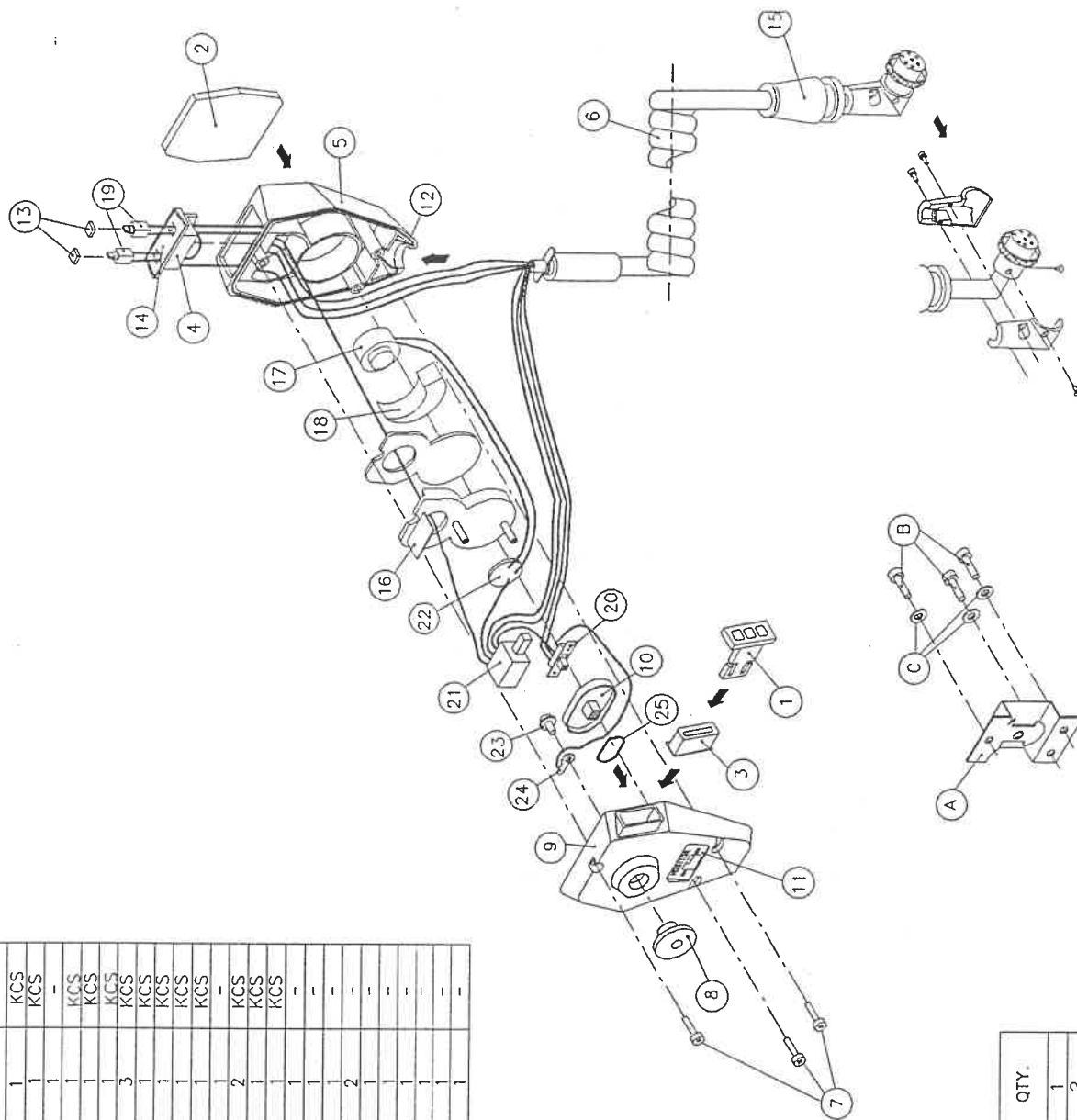
Table 8-2. KD-357M Microphone

UNIT	STEP	PROCEDURE
MICROPHONE	1	Remove three screws (7) from rear case (9).
	2	Remove one screw (24) from the inside of the rear case (9).
	3	Remove switch button (10) from rear case (9).
	4	Remove [PTT] button (1) and gasket (3) from rear case (9).
	5	Lift out monitor switch (21) and PTT switch (22) to remove from plastic housing (17).
	6	Lift out plastic housing (17) and mic. element (18) from front case (5).
	7	Remove foam pad (19) from front case (5).
	8	To reassemble reverse the steps above.

* REF. NO.	PART NAME	PART NO.	QTY.	VENDOR
1	P.T. BUTTON	14-11-365-08	1	KCS
2	GRILLE/MESH OR PLAS.	14-14-382-01	1	KCS
3	P.T. BUTTON GASKET	-	1	-
4	PUSHBUTTON HOUSING	14-11-442-00	1	KCS
5	FRONT CASE	14-60-512-04	1	KCS
6	COILED CABLE/BUSHING	14-43-366-03	1	KCS
7	SELF TAP SCREW 3x11	99-40-0203-1200	3	KCS
8	HANG-UP BUTTON	14-11-415-00	1	KCS
9	REAR CASE	14-60-513-04	1	KCS
10	MONITOR SWITCH BUTTON	14-11-366-00	1	KCS
11	MONITOR DECAL	14-15-242-02	1	-
12	HOUSING GASKET	-	1	-
13	CALL/RESET SWITCH BUTTONS	14-17-119-00	2	KCS
14	CALL/RESET DECAL	14-15-221-05	1	KCS
15	ANGLE CONN-(ASSY)	14-7PL	1	KCS
16	PLASTIC HOUSING	-	1	-
17	MIC. ELEMENT	-	1	-
18	FOAM PAD	-	1	-
19	CALL/RESET SWITCH	-	2	-
20	MONITOR SWITCH	-	1	-
21	P.T. SWITCH	-	1	-
22	CIRCUIT BOARD	-	1	-
23	PAN SCREW 3 x 5.5	-	1	-
24	SOLDER LUG	-	1	-
25	MONITOR SWITCH GASKET	-	1	-

NOTE:

- * ITEMS (#6) AND (#15) ARE SUPPLIED ASSEMBLED
- * KCS = KYODO CUSTOMER SERVICE



MIC. HANG-UP CLIP

REF. NO.	PART NAME	PART NO.	QTY.
A	HANGER	14-11-64-01	1
B	SCREW	99-40-0204-1214	3
C	WASHER	99-47-1104-23	3
D	VINYL BAG	14-56-10-00	1

Figure 8-2. Exploded View of KD-357M Microphone

8.1.3 CONTROL UNIT

(See Figure 8-3)

NOTE:

Use extreme caution in handling flexible circuits.

Table 8-3. Control Unit

UNIT	STEP	PROCEDURE
CONTROL UNIT	1	Remove two screws (8) to detach control unit (9) from control cable assembly.
	2	Remove volume and squelch knobs (7) using 1.27 mm Allen wrench.
	3	Remove channel knob (5) using 1.5 mm Allen wrench.
	4	Pry off power button (3) using thin screwdriver on bottom edge.
	5	Unscrew ring for microphone (1) and spring washer (2).
	6	Unplug 12-pin socket (25).
	7	Remove two screws (18) from control unit PCB "E" (16).
	8	Remove four screws (19) from control unit PCB "E" (16).
	9	Remove two screws (20) from power switch (21).
	10	Remove two studs (17) from control unit PCB "C" (29).
	11	Remove one screw (18) from control unit PCB "A" (13).
	12	Remove two studs (14) from speaker clamp "A" (13) and remove clamp.
	13	Remove two studs (14) from speaker clamps "B" (15) and remove clamps.
	14	Lift off spring for speaker (12) and remove PCBs from control panel (9).
	15	To reassemble, reverse the steps above.

REF. NO.	PART NAME	PART NO.	QTY.
1	MIC SPRING WASHER	OD-16-19	1
2	RING FOR MIC	714-SM	1
3	POWER BUTTON	3A11-0231	1
4	TOPE BUTTONS	4A11-1043	2
5	CHANNEL SELECTOR KNOB	4A11-1046	1
6	LED WINDOW	4A10-0975	1
7	VOL/SOL KNOB	4A11-1047	2
8	OV-4 x 5	OV-4 x 5	2
9	CONTROL PANEL	2A10-0080-11E	1
10	SPEAKER	KS-105	1
11	SPEAKER RUBBER	4A10-1116	1
12	SPRING FOR SPEAKER	4A10-1030	1
13	SP CLAMP "A"	4A10-1028	1
14	STUD FOR CONT L=11.2	4A10-1034-A	4
15	SP CLAMP "B"	4A10-1029	2
16	CONT UNIT PCB "E"	05CT187	1
17	STUD FOR CONT L=14.8	4A10-1034-B	2
18	SEMS SCREW L/W	SE-2.6 x6	3
19	SEMS SCREW L/W	SE-2.6 x10	4
20	BINDER SCREW	BD-2 x 5	2
21	POWER SWITCH	SUT11 018	1
22	MIC CONNECTOR	214-75M	1
23	NUT	NAT-2.6PAI	1
24	PAN SCREW	PN-2.6 x 8	1
25	12-PIN SOCKET	IL-S-12P-S2T2	1
26	SPRING WASHER	SW-2.6PAI	1
27	CONT UNIT PCB "D"	05CT188	1
28	NET FOR SPEAKER	4A11-1036	1
29	CONT UNIT PCB "C"	05CT188	1
30	CONT UNIT PCB "B"	05CT188	1
31	CONT UNIT PCB "A"	05CT188	1
32	SPACER FOR PCB	4A10-1040	4
33	INSULATOR FOR CONT	4A10-1086	1

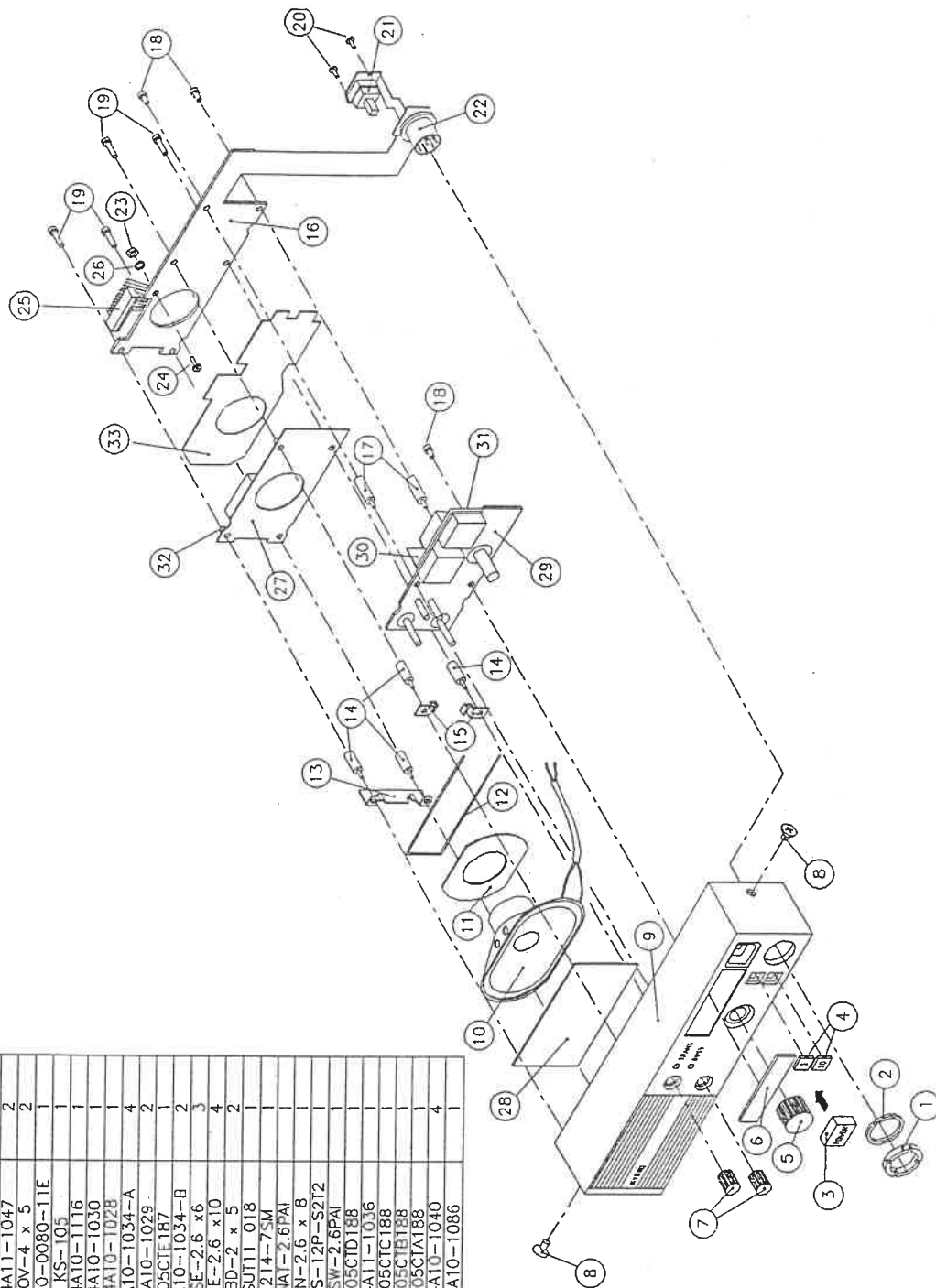


Figure 8-3. Exploded View of Control Unit

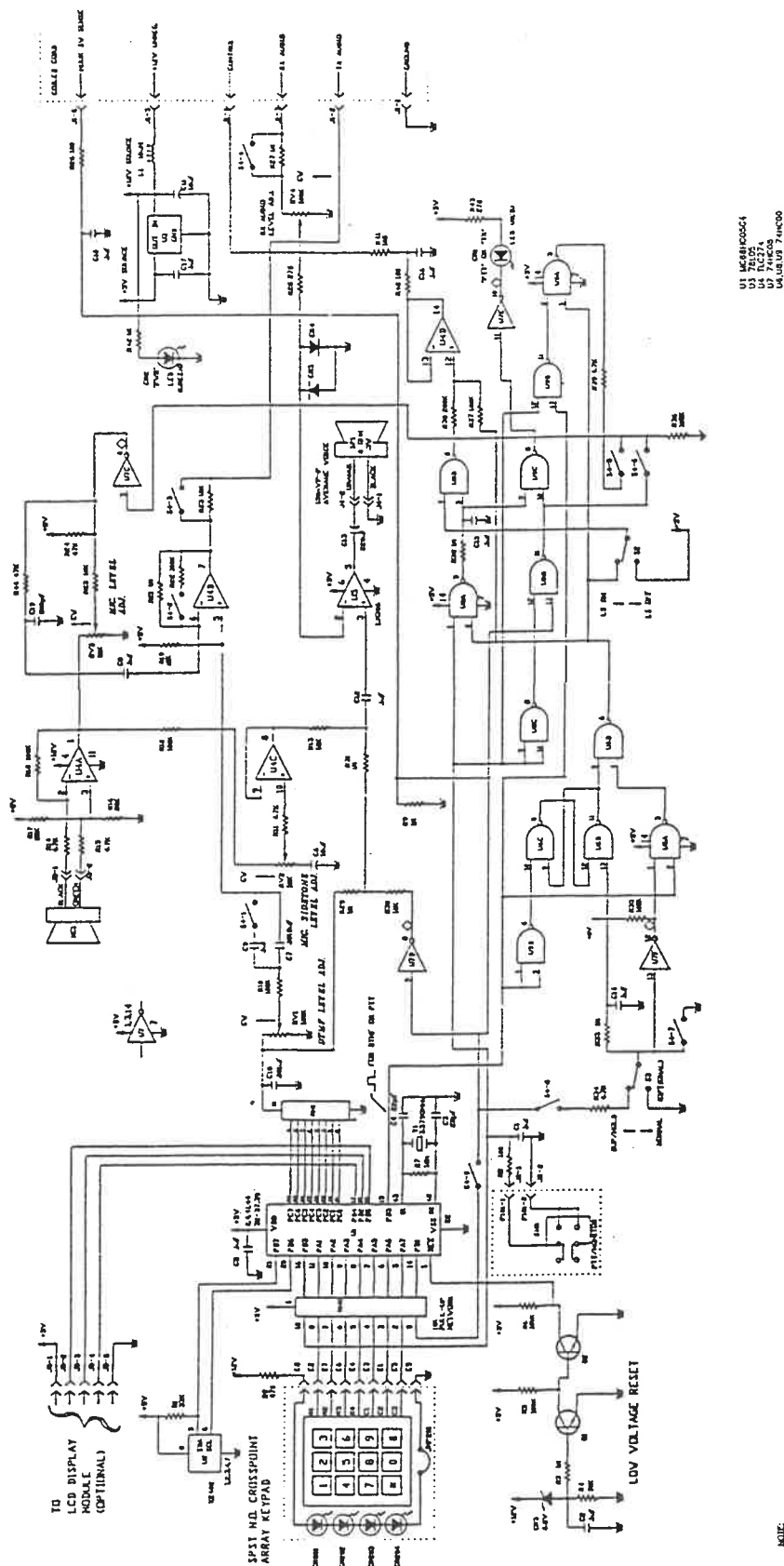


Figure 8-4. DTMF Handset Schematic

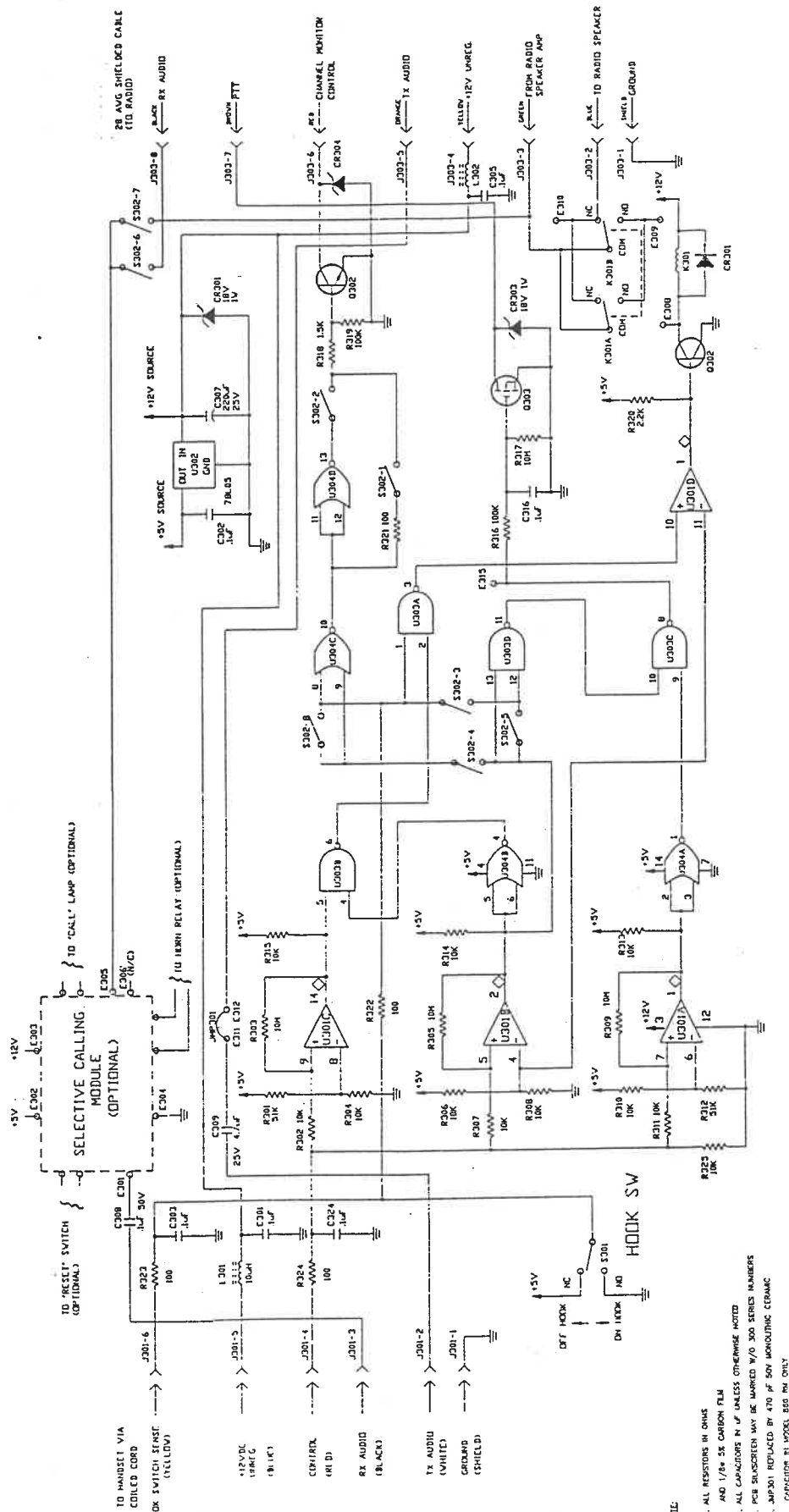


Figure 8-5. Handset Base Unit Schematic

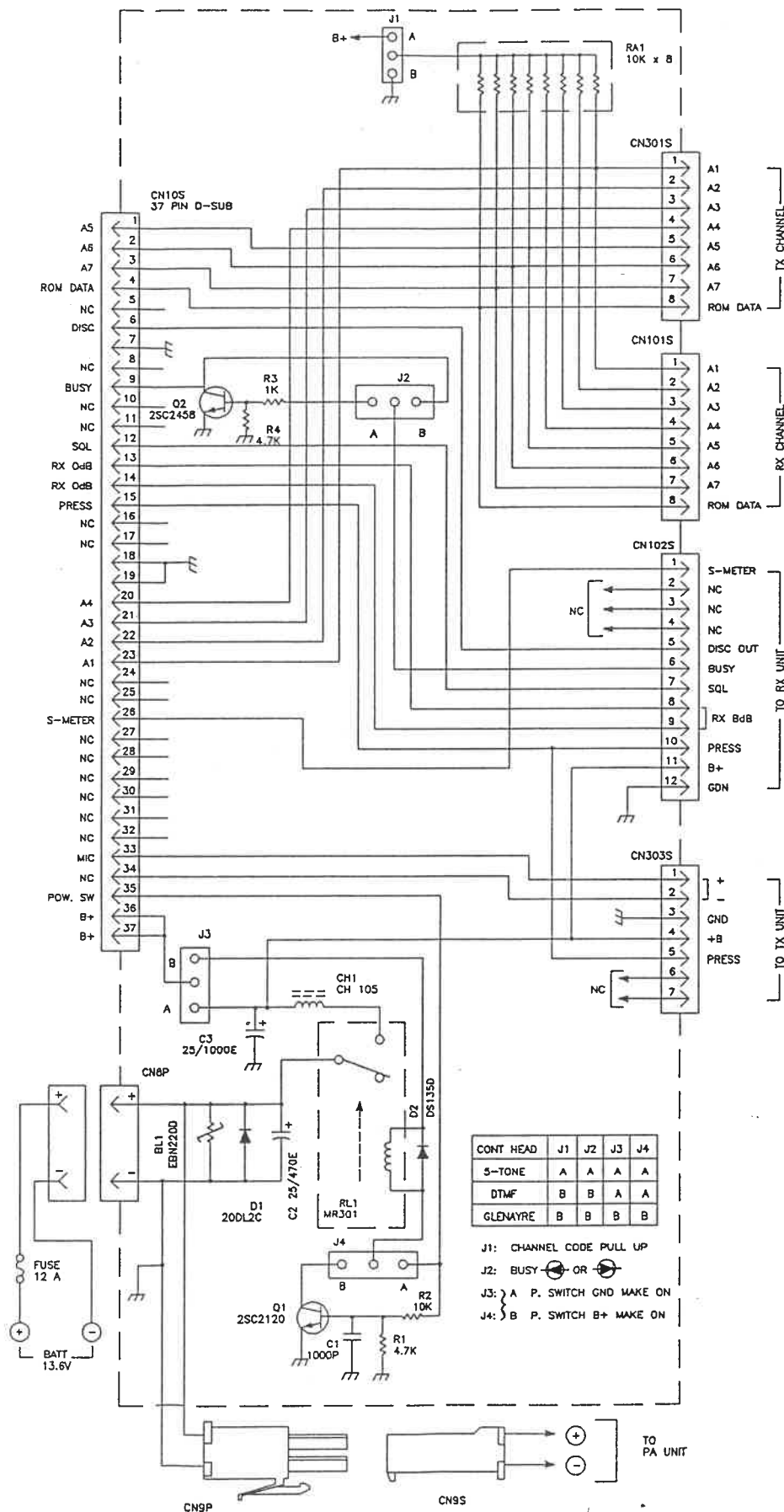


Figure 8-6. KG106 Terminal Unit Schematic

8.2 PARTS LIST

MODEL:KG106 UHF

UNIT:RECEIVER

REF.NO.	PART NAME	PART NO.	REF.NO.	PART NAME	PART NO.
BPF101,2	BPF-3	RFC450N-3,33	IC104	IC	UPB571C
C101,02A	ELECTROLYTIC CAP.	KMA 16V/47UF	IC105	IC	TC5027P
C102B-044	TANTALUM CAP.	DN 35V/1UF	IC106	IC	TC5036P
C105,16,55B	ELECTROLYTIC CAP.	KMA 16V/22UF	IC107	IC	TK10420
C106,07	CERAMIC CAP.	B 1000PF	IC108,10	IC	NJM4558D
C108,22,92A	CERAMIC CAP.	CH 3PF	IC109	IC	CX7932
C109,10	MONOLITHIC CERAMIC CAP.	RPE121C 1000PF	IC111	IC	NJM2073
C111,90	FILM CAP.	A7Z 0.022UF	IC112	IC	78M05
C112	TANTALUM CAP.	DN 10V/47UF	IC113	IC	AN78N08
C113A	TANTALUM CAP.	SST 35V/0.1UF	IC114	IC	7808
C113B	TANTALUM CAP.	DN 35V/0.1UF	IC115	IC	TA7303
C114,83,84	MONOLITHIC FILM CAP.	B32529-104K	JP101,R122A	CARBON RES.	1/6W(P) 0
C115,52,53	TANTALUM CAP.	DN 16V/2.2UF	JP102	JUMPER PLUG	DSP02-002-431G
C117-20	CERAMIC CAP.	B 470PF	JP102S	JUMPER SOCKET	DSP01-002-430G
C121,43	TANTALUM CAP.	DN 35V/1UF	L101,02	LEAD CHOKE	15M (LN-0009)
C123	CERAMIC CAP.	CH 7PF	L104	COIL	4A-S235
C124	CERAMIC CAP.	UJ 470PF	L105	COIL	#1054
C125,30	CERAMIC CAP.	RH 39PF	L106	MICRO INDUCTOR	LA03NA-10UH
C126,34	CERAMIC CAP.	RH 56PF	L107A	MICRO INDUCTOR	LA03NA-100UH
C127,32,35	CERAMIC CAP.	B 2200PF	L107B,09	COIL	M2 680UH
C128,29	CERAMIC CAP.	CH 6PF	L108	COIL	G02 10MH
C131,36,92B	CERAMIC CAP.	B 1000PF	Q101	TRANSISTOR	2SC3358
C133	CERAMIC CAP.	RH 5PF	Q102	FET	2SK152
C137	CERAMIC CAP.	CH 33PF	Q103	TRANSISTOR	2SC2669Y
C138	CERAMIC CAP.	CH 68PF	Q104,08	TRANSISTOR	2SC2458LY
C139-41	MONOLITHIC CERAMIC CAP.	RPE121C 0.1UF	Q105,10,12	TRANSISTOR	RN2202
C142	CERAMIC CAP.	CH 150PF	Q106,07	TRANSISTOR	2SA1048LY
C144	CERAMIC CAP.	SL 220PF	Q109	TRANSISTOR	2SA950Y
C145,46,48,49	POLYPROPYLENE CAP.	UPZ 470PF	Q111	FET	2SK184
C147	CERAMIC CAP.	CH 82PF	R101-07,08B	CARBON RES.	1/6W(F) 10K
C148,75	ELECTROLYTIC CAP.	KMA 50V/0.47UF	R108A,36,38A	CARBON RES.	1/6W(F) 47K
C150	CERAMIC CAP.	CH 10PF	R109,77	CARBON RES.	1/6W(F) 1K
C151,64,65,69	FILM CAP.	A7Z 4700PF	R110-12,18	CARBON RES.	1/6W(F) 10K
C154	ELECTROLYTIC CAP.	KMA 50V/1UF	R113,34	CARBON RES.	1/6W(F) 220
C155A	ELECTROLYTIC CAP.	BP 50V/0.47UF	R114,17,30	CARBON RES.	1/6W(F) 820
C156	FILM CAP.	A7Z 6800PF	R115,27	CARBON RES.	1/6W(F) 1.2K
C157	FILM CAP.	A7Z 1200PF	R116,57,60	CARBON RES.	1/6W(F) 3.3K
C159	ELECTROLYTIC CAP.	KMA 50V/0.1UF	R119,25	CARBON RES.	1/6W(F) 2.7K
C160	ELECTROLYTIC CAP.	KMA 25V/4.7UF	R120,40,49,54,63	CARBON RES.	1/6W(F) 15K
C161,89A	ELECTROLYTIC CAP.	KMA 50V/2.2UF	R121,26,51	CARBON RES.	1/6W(F) 100
C162,63	POLYPROPYLENE CAP.	UPZ 220PF	R123	CARBON RES.	1/6W(F) 56
C166,71-74	FILM CAP.	A7Z 1000PF	R124,28	CARBON RES.	1/6W(F) 150
C167,68	FILM CAP.	A7Z 0.015UF	R129,32,42	CARBON RES.	1/6W(F) 10K
C170	FILM CAP.	A7Z 8200PF	R131	CARBON RES.	1/6W(F) 470
C176	TANTALUM CAP.	DN 35V/0.47UF	R133,52,80,84	CARBON RES.	1/6W(F) 22K
C177,78,91	FILM CAP.	A7Z 0.01UF	R135,39,68,88	CARBON RES.	1/6W(F) 1.5K
C179	ELECTROLYTIC CAP.	BP 16V/10UF	R137,38B	CARBON RES.	1/6W(F) 2.2K
C180,81,82A	ELECTROLYTIC CAP.	KMA 16V/100UF	R141,55,56	CARBON RES.	1/6W(F) 47K
C185-87A	TANTALUM CAP.	DN 35V/1UF	R143,48,81,82	CARBON RES.	1/6W(F) 100K
C187B,89B	FILM CAP.	A7Z 1000PF	R144,46	CARBON RES.	1/6W(F) 33K
C188	ELECTROLYTIC CAP.	SR 25V/1000UF	R145	CARBON RES.	1/6W(F) 39K
CD101	DISCRIMINATOR	CDB455C7	R147,64,75	CARBON RES.	1/6W(F) 10K
CF101	CERAMIC FILTER	CFG455D	R150	CARBON RES.	1/6W(F) 1.8K
CN101P	8-PIN PLUG	8263-0812-000	R153,70	CARBON RES.	1/6W(F) 18K
CN102P	12-PIN PLUG	8263-1212-000	R158,59	CARBON RES.	1/6W(F) 240K
CN103S	7-PIN SOCKET	3024-07CH	R161,62	CARBON RES.	1/6W(F) 47K
CN104S	2-PIN SOCKET	3024-02CH	R165,66	CARBON RES.	1/6W(F) 12K
CN107S	10-PIN SOCKET	3024-10CH	R167	CARBON RES.	1/6W(F) 180K
CN108P	3-PIN PLUG	8263-0312-000	R169,87	CARBON RES.	1/6W(F) 4.7K
CN5S,6S	COAXIAL CONNECTOR	SM551	R171,172,79	CARBON RES.	1/6W(F) 220K
CN5P	COAXIAL CONNECTOR	106-RX-1.5D	R173	CARBON RES.	1/6W(F) 68K
D101-05,07	DIODE	1SS177	R174	CARBON RES.	1/6W(F) 620K
D106	LED	TLS164	R176,83,85	CARBON RES.	1/6W(F) 10K
D108,11	DIODE	1SS227	R178	CARBON RES.	1/6W(F) 30K
D109	DIODE	MI308	R186	CARBON RES.	1/6W(F) 8.2K
D110,12-15	DIODE	1SS177	RA101	RESISTOR ARRAY	RGLN8X-103K
D116,17	DIODE	1SS237	T101,03	COIL	#1053
DA101	DIODE ARRAY	NAL-8CS	T102	COIL	#1058
DBM101	BALANCED MIXER	M8	TCX01	TCXO	GFS-210W
FVR101-03	SEMI FIXED RES.	CT-6P 10K	TH101	THERMISTOR	360-D5
IC101	EPROM	MBM2764	X101	XTAL	21.145MHz
IC102	IC	MC14504BP	XF101	XTAL FILTER	21P20C
IC103	IC	MC145146P	XF102	XTAL FILTER	21P18A

REF.NO.	PART NAME	PART NO.	REF.NO.	PART NAME	PART NO.
	IC SOCKET	110-99-628	L304	LEAD CHOKE	10M(LN-0018)
	COAXIAL WIRE	06-0.8D	L305	COIL	4A-S165
	SHIELD WIRE	EMR-IS-MST 28cm	L306,07	COIL	4A-S160
	PCB	06MPR318	L310,11	VARIABLE COIL	12VXA 68MH
	RX UNIT CHASSIS	2A10-0105	Q301	TRANSISTOR	2SC2644
	RX UNIT COVER	3A10-0320	Q302	TRANSISTOR	2SC2131
	BIND SCREW	BD-2.6 x 5	Q303	TRANSISTOR	2SB1019Y
	OVAL SCREW	OV-2.6 x 8	Q304,05	TRANSISTOR	RN2202
	NUT	M2.6	Q306	TRANSISTOR	RN1202
	SPRING WASHER	M2.6	R301-7,9,11	CARBON RES.	1/6W(F) 10K

MODEL:KG106 UHF

UNIT:TX MAIN UNIT

REF.NO.	PART NAME	PART NO.
C310,40,43,44	TANTALUM CAP.	DN 35V/1UF
C311,61	TANTALUM CAP.	DN 10V/10UF
C312,18,38	ELECTROLYTIC CAP.	KMA 16V/47UF
C313,14,41	CERAMIC CAP.	B 1000PF
C315	CERAMIC CAP.	CH 2PF
C316,17	MONOLITHIC CERAMIC CAP.	RPE121C 1000PF
C319A	TANTALUM CAP.	DN 10V/47UF
C319B	FILM CAP.	A7Z 0.022UF
C320	TANTALUM CAP.	DN 35V/0.1UF
C321	TANTALUM CAP.	SST 35V/0.1UF
C322	MONOLITHIC FILM CAP.	B32529-104K
C323	TANTALUM CAP.	DN 16V/2.2UF
C324,35	CERAMIC CAP.	SL 33PF
C325,34,36	CERAMIC CAP.	CH 5PF
C326-29,32,33	CERAMIC CAP.	B 470P
C330	CERAMIC CAP.	SL 9PF
C331	CERAMIC CAP.	CH 9PF
C337,62	TANTALUM CAP.	DN 10V/4.7UF
C339	FILM CAP.	A7Z 0.01UF
C342	ELECTROLYTIC CAP.	KMA 16V/100UF
C345	ELECTROLYTIC CAP.	KMA 25V/100UF
C346-48	CERAMIC CAP.	B 1000PF
C349	FILM CAP.	A7Z 0.068UF
C350	FILM CAP.	A7Z 0.1UF
C351	FILM CAP.	A7Z 0.047UF
C352,55	TANTALUM CAP.	DN 35V/0.47UF
C353	CERAMIC CAP.	B 100PF
C354	ELECTROLYTIC CAP.	KMA 16V/10UF
C356	FILM CAP.	A7Z 0.015UF
C357	CERAMIC CAP.	SL 150PF
C358-60,63	TANTALUM CAP.	DN 35V/0.47UF
C364,66,68	CERAMIC CAP.	B 1000PF
C365	TANTALUM CAP.	DN 35V/0.22UF
C367	CERAMIC CAP.	CH 10PF
CN301P	8-PIN PLUG	8263-0812-000
CN303P	7-PIN PLUG	8263-0712-000
CN304P	3-PIN PLUG	8263-0312-000
CN304S	3-PIN ASSY	06-304S
CN305S	7-PIN SOCKET	3024-07CH
CN306S	2-PIN SOCKET	3024-02CH
CN6P	COAXIAL CONNECTOR	106-TCH-1.5D
CN7P	COAXIAL CONNECTOR	106-YNG-1.5D
D301-06	DIODE	1SS177
D307	DIODE	1SS227
D308-10	DIODE	1SS177
D311	LED	TLS164
D312,13	DIODE	1SS177
D314,15	DIODE	1SS237
DA301	DIODE ARRAY	NAL-8CS
FVR301	SEMI FIXED RES.	CT-6P 10K
FVR302	SEMI FIXED RES.	CT-6P 1K
FVR303	SEMI FIXED RES.	CT-6P 47K
FVR304	SEMI FIXED RES.	CT-6P 470
IC301	IC	UPD2764D
IC302	IC	MC14504BP
IC303	IC	MC145146P
IC304	IC	UPB571C
IC305	IC	TC5027BP
IC306	IC	78M05
IC307	IC	78M08
IC308	IC	M5236L
IC309	IC	NJM4556
IC310	IC	M51304L
L301-03,08,09	LEAD CHOKE	15M(LN-0009)

R308,42	CARBON RES.	1/6W(F) 47K
R310,33	CARBON RES.	1/6W(F) 15K
R312-14	CARBON RES.	1/6W(F) 10K
R315,20	CARBON RES.	1/6W(F) 3.3K
R316	CARBON RES.	1/6W(F) 220
R317,37	CARBON RES.	1/6W(F) 820
R318,49	CARBON RES.	1/6W(F) 1.2K
R319	CARBON RES.	1/6W(F) 430
R321	CARBON RES.	1/6W(F) 10
R322,40A,52	CARBON RES.	1/6W(F) 680
R323	CARBON RES.	1/6W(F) 15
R324,51	CARBON RES.	1/6W(F) 150
R325	CARBON RES.	1/6W(F) 47
R326	CARBON RES.	1/6W(F) 2.7K
R327	CARBON RES.	1/6W(F) 22
R328,45A	CARBON RES.	1/6W(F) 1K
R329A,30	CARBON RES.	1/6W(F) 3.3
R329B	CARBON RES.	1/6W(F) 390
R331	CARBON RES.	1/6W(F) 270
R332	CARBON RES.	1/6W(F) 470
R334	CARBON RES.	1/6W(F) 39K
R335	CARBON RES.	1/6W(F) 3.9K
R336,45B	CARBON RES.	1/6W(F) 10K
R338	CARBON RES.	1/6W(F) 2.2K
R339,46	CARBON RES.	1/6W(F) 1.5K
R340B	CARBON RES.	1/6W(F) 27K
R341	CARBON RES.	1/6W(F) 6.8K
R343	METAL RES.	RNK2E 33K
R344	METAL RES.	RNK2E 39K
R347	CARBON RES.	1/6W(F) 33K
R348	CARBON RES.	1/6W(F) 4.7K
R350	CARBON RES.	1/6W(F) 150K
RA301	DIODE ARRAY	RGLN8X-103K
TH301	THERMISTOR	50D-5
	PCB	06MPT21Z
	IC SOCKET	110-99-628
	TX UNIT CHASSIS	2A10-0104
	TX UNIT COVER	3A10-0321
	COAXIAL WIRE	EMR-15-MST 22cm
	BIND SCREW	BD-2.6 x 5
	OVAL SCREW	OV-2.6 x 8
	NUT	M2.6
	SPRING WASHER	M2.6

MODEL:KG106 UHF

UNIT:RX VCO

REF.NO.	PART NAME	PART NO.
C201	FILM CAP.	A7Z 0.015UF
C202,11,12	CERAMIC CAP.	B 470PF
C203	CERAMIC CAP.	B 220PF
C204	WEDGE CAP.	SUW35A 1000PF
C205A,08	CHIP CAP.	
C206	CHIP CAP.	GR40 RH 11PF
C207	CHIP CAP.	GR40 RH 4PF
C209	CHIP CAP.	GR40 RH 18PF
C210	CERAMIC CAP.	RH 3PF
C213A	CERAMIC CAP.	RH 15PF
C214-16,23,27	CERAMIC CAP.	B 470PF
C217,21,22	TANTALUM CAP.	DN 10V/4.7UF
C218	TANTALUM CAP.	DN 35V/1UF
C219,20	ELECTROLYTIC CAP.	KMA 16V/47UF
C224	CERAMIC CAP.	B 1000PF
C225	TANTALUM CAP.	DN 10V/47UF
C226	MONOLITHIC CERAMIC CAP.	PE121C 0.022UF
CN103P	7-PIN PLUG	SB-07P-HVQ-B
CN104P	2-PIN PLUG	SB-02P-HVQ-B
D201	VARICAP DIODE	IT-32

REF.NO.	PART NAME	PART NO.	REF.NO.	PART NAME	PART NO.
D202	DIODE	1SS27	Q404	TRANSISTOR	RN2202
D203-05,07	DIODE	1SS177	Q406	TRANSISTOR	2SC3623A
D206	ZENER DIODE	05Z5.6Y	Q407	TRANSISTOR	2SC2458LY
IC201	IC	UPC1651	R401	CARBON RES.	1/6W(F) 15K
L201	MICRO INDUCTOR	LA03NA 1UH	R402,09,16	CARBON RES.	1/6W(F) 1K
L202	CHOKE COIL	4A-S212	R403	CARBON RES.	1/6W(F) 5.6K
L203	MICRO INDUCTOR	LA03NA 0.47UH	R404	CARBON RES.	1/6W(F) 390
L204	COIL	4A-S341	R405,06,15	CARBON RES.	1/6W(F) 4.7K
L205	COIL	4A-S166	R407	CARBON RES.	1/6W(F) 330
L206	MICRO INDUCTOR	LA03NA 10UH	R408	CARBON RES.	1/6W(F) 2.7K
Q201	FET	SST310	R410	CARBON RES.	1/6W(F) 47
Q202	TRANSISTOR	2SC2753Y	R411,18	CARBON RES.	1/6W(F) 10
Q203,05	TRANSISTOR	2SA1048LY	R412-14	CARBON RES.	1/6W(F) 10K
Q204,06	TRANSISTOR	RN2202	R417	CARBON RES.	1/6W(F) 270
Q207	TRANSISTOR	2SC3623A	TH401	THERMISTOR	TD5-210DH
Q208	TRANSISTOR	2SC2458LY	VC401	TRIMMER	DTM 20PF
R201	CARBON RES.	1/6W(F) 330		VCO STUD	4A10-1267
R202	CARBON RES.	1/6W(F) 220		PCB MAT	4A10-1274
R203	CARBON RES.	1/6W(F) 2.7K		PCB	06VCUDT216
R204,10	CARBON RES.	1/6W(F) 1K		VCO UNIT CASE	4A10-1095
R205	CARBON RES.	1/6W(F) 68	MODEL:KG106 UHF UNIT:TX PA		
R206,13	CARBON RES.	1/6W(F) 10			
R207,08	CARBON RES.	1/6W(F) 10K	REF.NO.	PART NAME	PART NO.
R209	CARBON RES.	1/6W(F) 4.7K	C601,3,5	CERAMIC CAP.	B 470PF
R211	CARBON RES.	1/6W(F) 15K	C602,03,06	ELECTROLYTIC CAP.	KMA 25V/10UF
R212	CARBON RES.	1/6W(F) 270	C607	ELECTROLYTIC CAP.	KMA 25V/33UF
TH201	THERMISTOR	TD5-210DH	C609A	MICA CHIP CAP.	UC342H 220PF
VC201	TRIMMER	DTM 20PF	C610	MICA CHIP CAP.	UC232H 3PF
	VCO STUD	4A10-1267	C613,14	MICA CHIP CAP.	UC232H 33PF
	PCB	06VCUDR216	C615,16	MICA CHIP CAP.	UC342H 43PF
	PCB MAT	4A10-1273	C617-19	MICA CHIP CAP.	UC232H 18PF
	RUBBER MAT	4A10-1041	C621	FILM CAP.	A7Z 0.022UF
	VCO INTERIOR MAT	4A10-1123	C622,37,39	ELECTROLYTIC CAP.	KMA 25V/10UF
	VCO UNIT CASE	4A10-1095	C623	THROUGH CAP.	1HB34Y 1000PF
	VCO UNIT FRAME	4A10-1038	C626-29,38	CERAMIC CAP.	B 470PF
	VCO UNIT COVER	4A10-1193	C630,31,33,34	MICA CHIP CAP.	UC232H 10PF
	SEMS SCREW	SE-2.6 x 5	C632,35	MICA CHIP CAP.	UC232H 5PF
MODEL:KG106 UHF UNIT:TX VCO			C640,43,49-51	CERAMIC CAP.	B 1000PF
REF.NO.	PART NAME	PART NO.	C641	FILM CAP.	A7Z 0.01UF
C401	FILM CAP.	A7Z 0.015UF	C642	MONOLITHIC CERAMIC CAP.	RPE121C 0.01UF
C402,12,13,14A	CERAMIC CAP.	B 470PF	C644-46,48	CERAMIC CAP.	B 470PF
C403	CHIP CAP.	GR40 B 470PF	C647	MONOLITHIC CERAMIC CAP.	RPE121C 1000PF
C404	CERAMIC CAP.	B 220PF	CN302S	3-PIN ASSY	06-302S
C405A	CHIP CAP.	GR40 RH 2.5PF	CN3P	COAXIAL CABLE	106-TX-1.5D
C406	CHIP CAP.	GR40 RH 4PF	CN7P	COAXIAL PLUG	SEM-R-PC
C407	CHIP CAP.	GR40 RH 11PF	CN9S	D.C. WIRE	06-9S
C408	CHIP CAP.	GR40 RH 1.5PF	D601,04	DIODE	1SS177
C409	CHIP CAP.	GR40 RH 18PF	D602	DIODE	1SS237
C410	WEDGE CAP.	SUW35A 1000PF	D603	ZENER DIODE	05Z5.6Y
C411	CERAMIC CAP.	RH 2PF	EM601	NOISE ELIMINAT	BNP-002
C415-17,19,28	CERAMIC CAP.	B 470PF	FVR601	SEMI FIXED RES.	CT-6P 2K
C418,22,23	TANTALUM CAP.	DN 10V/4.7UF	IC601	POWER MODULE	M57704H
C420,21	ELECTROLIC CAP.	KMA 16V/47UF	IC602	IC	NJM4556D
C424	CERAMIC CAP.	B 1000PF	L601-3,10,14,15	LEAD CHOKE	10M(LN0019)
C425	TANTALUM CAP.	DN 10V/47UF	L604	COIL	4A-S164
C426	MONOLITHIC CERAMIC CAP.	PE121C 0.022UF	L605	COIL	4A-S163
C427	TANTALUM CAP.	DN 35V/1UF	L606,08	LEAD CHOKE	20M (LN0010)
C429	TANTALUM CAP.	DN 35V/0.47UF	L607	LEAD CHOKE	15M (LN0009)
C430	CERAMIC CAP.	CH 3PF	L610	COIL	4A-S342
CN305P	7-PIN PLUG	SB-07P-HVQ-B	L611,13	COIL	4A-S158
CN306P	2-PIN PLUG	SB-02P-HVQ-B	L612	COIL	4A-S159
D401	VARICAP DIODE	IT32	PS601	POSISTOR	PTH59ED471TS
D402	DIODE	1SS227	Q601	TRANSISTOR	2SC3102
D403,05	DIODE	1SS177	Q602	TRANSISTOR	2SB1019B
D404	ZENER DIODE	05Z5.6Y	Q603	TRANSISTOR	2SA950
IC401	IC	UPC1651	Q604	TRANSISTOR	2SC2120Y
LA01	MICRO INDUCTOR	LA03NA 1UH	Q605	TRANSISTOR	2SC2458LY
LA02	CHOKE COIL	4A-S212	R601	CARBON RES.	1/6W(F) 470
LA03	MICRO INDUCTOR	LA03NA 0.47UH	R602	CARBON RES.	1/4W(F) 150
LA04	COIL	4A-S210	R606	CARBON RES.	1/6W(F) 82
LA05	COIL	4A-S166	R607,08	CARBON RES.	1/6W(F) 4.7K
LA06	MICRO INDUCTOR	LA04NA 10UH	R609	CARBON RES.	1/4W(F) 47
Q401	FET	SST310	R610,13,18,19	CARBON RES.	1/6W(F) 1K
Q402	TRANSISTOR	2SC2753Y	R611,14	CARBON RES.	1/6W(F) 2.2K
Q403,05	TRANSISTOR	2SA1048LY	R612	CARBON RES.	1/6W(F) R100K
			R615,17	CARBON RES.	1/6W(F) 220

REF.NO.	PART NAME	PART NO.
R616	CARBON RES.	1/6W(F) 100
R620	CARBON RES.	1/6W(F) 47K
R621	CARBON RES.	1/6W(F) 10K
R622	CARBON RES.	1/6W(F) 820
VC601,04	TRIMMER	TTC7-10D 10PF
VC602,03	TRIMMER	TC809-2/18PF
	WIRE LEAD	0.2sq-135 RED
	LPF CASE	4A10-0994
	LPF COVER	4A10-0995
	PCB	06PAU321

MODEL:KG106 UHF

UNIT:TERMINAL UNIT

REF.NO.	PART NAME	PART NO.
BL1	BALISTER	ENB220
C1	CERAMIC CAP.	B 1000PF
C2	ELECTROLYTIC CAP.	SME 25V/470UF
C3	ELECTROLYTIC CAP.	SME 25V/1000UF
CH1	CHOKE TRANSISTOR	CH-105
CN101S	8-PIN ASSY	06-101S
CN102S	12-PIN ASSY	06-102S
CN301S	8-PIN ASSY	06-301S
CN303S	7-PIN ASSY	06-303S
CN8P	D.C. CONNECTOR	SRCN2A-13-3P
CN9P	2-PIN ASSY	06-9P
CN10S	37-PIN D-SUB(L)	XM2B-3731
D1	DIODE	20DL2C
D2	DIODE	DS135D
J1	JUMPER PLUG	DSP02-002-431G
J2-J4	JUMPER PLUG	DSP03-003-432G
Q1	TRANSISTOR	2SC120Y
Q2	TRANSISTOR	2SC2458LY
R1,R4	CARBON RES.	1/6W(F) 4.7K
R2	CARBON RES.	1/6W(F) 10K
R3	CARBON RES.	1/6W(F) 1K
RA1	RES. ARRAY	RGLN8X-103X
RJ1	RELAY	MR301-12S
	D-SUB STUD	XM2Z-0013
	D-SUB COVER	XM2T-3701
	JUMPER SOCKET	DSP01-002-430G
	PCB	06PST31Z
	PCB	06T-2

MODEL:KG106 UHF

UNIT:CHASSIS

REF.NO.	PART NAME	PART NO.
CN10P	D-SUB PLUG	F-37P-K117
CN1P	ANT. CONNECTOR	106-ANT-1.5D
CN5S	COAXIAL WIRE	106-RX-1.5D
CN8P	BATT. CONNECTOR	SRCN6A-13-3S
CN8S	D.C. POWER CORD	06-8S
	CHASSIS	1A11-0015
	PA UNIT HEAT SINK	2A10-0119
	TOP COVER	2A10-0120 (T)
	BOTTOM COVER	2A10-0120 (B)
	BRACKET LOCKER	4A10-1262
	KEY & LOCK	VMZ-C (SET)
	PA COVER	4A10-1280
	PA STUD	4A10-1281
	PA SPACER	4A10-1075
	D-SUB COVER	F-PHGR-4
	FUSE	FU-12.5A
	MOUNT BRACKET	3A10-0319
	BRACKET ANGLE	4A10-1264
	BOLT SPACER	4A10-1263
	BOTTOM COVER SEAL	4A10-1291
	RUBBER SEAT	4A10-1279
	RX UNIT SEAL	4A10-1295
	TX UNIT SEAL	4A10-1296
	CAP BOLT	CAP-4 x 6
	CAP BOLT	CAP-4 x 75
	CAP BOLT	CAP-4 x 85
PA	SEMS SCREW	SE-2.6 x 8
RX, TX, ANT, BATT, PA	SEMS SCREW	SE-3 x 8
TERM	SEMS SCREW	SE-3 x 12
PA COVER	OV-AL SCREW	OV-2.6 x 5
DUPLEXER	BIND SCREW	BD-3 x 6
CHA-PA	FLAT SCREW	FT-3 x 8
	WRENCH	4PA1

REF. NO.	PART NAME	PART NO.
	HEXAGONAL BOLT	5 x 16

MODEL:HANDSET

UNIT:MAIN

REF.NO.	PART NAME	PART NO.
C1,C2,C5,C8-C10	CAP., 0.1 UF 50V 10%	CM.1
C3,C4	CAP., 22 PF 50V 10%	CM220
C6,C11	CAP., 10 UF 25V 10% TANT.	CT106
C7	CAP., 1800 PF 50V 10%	CM182
C12,C14-C17	CAP., 0.1 UF 50V 10%	CM.1
C13	CAP., 220 UF 25V ELEC. AX.	CE221
C18	CAP., 0.001 UF 100V 10%	CM.001
C19	CAP., 220 PF 100V 5%	CM221
CR1	LED, RED	LED7
CR2	LED, GREEN	LED8
CR4,CR5	ZENER DIODE 6.2V 0.5W 5%	D5234B
J1	CONNECTOR, 6-PIN RJ-11C	CON52
J2-J4	BASE PIN ASSY., 2 COND.	CON53
L1	INDUCTOR, 10 UH 10%	CHOKE-2
MC1	MICROPHONE ELEMENT	MICEL
P101	SOCKET, 2 COND.	CON55
P3,P4	SOCKET, 2COND.	CON55
Q1,Q2	TRANSISTOR, NPN SILICON SWITCH.	Q2222
R1	RES., 33K OHM 1/8W 5%	RC233
R2,R26,R40,R41	RES., 100 OHM 1/8W 5%	RC101
R3,R9,R21,R27	RES., 1M OHM 1/8W 5%	RC1M
R4,R13,R19,R23,	RES., 10K OHM 1/8W 5%	RC10K
R5,R6,R10,R12	RES., 100K OHM 1/8W 5%	RC104
R7	RES., 10M OHM 1/8W 5%	RC10M
R8	RES., 470 OHM 1/8W 5%	RC471
R11,R14,R15	RES., 4.7K OHM 1/8W 5%	RC472
R16,R17	RES., 20K OHM 1/8W 5%	RC203
R18,R22,R35-R37	RES., 100K OHM 1/8W 5%	RC104
R24,R44	RES., 47K OHM 1/8W 5%	RC473
R25,R30	RES., 10K OHM 1/8W 5%	RC10K
R28,R43	RES., 270 OHM 1/8W 5%	RC271
R29,R31-R33	RES., 1M OHM 1/8W 5%	RC1M
R34,R39	RES., 4.7K OHM 1/8W 5%	RC472
R38	RES., 200K OHM 1/8W 5%	RC204
R42	RES., 1K OHM 1/8W 5%	RC1K
RN1	RES. NETWORK, 15K R-2R	RSIP1
RN2	RES. NETWORK, 10K BUSSED	RSP
RV1,RV4	VARIABLE RES. 100K CERMET SEALED	RV100K
RV2,RV3	VARIABLE RES. 10K CERMET SEALED	RV103
S101	PTT SWITCH	
S2	SWITCH, SLIDE DPDT	SW4SL
S4	SWITCH, 10 POS. SPST	SWD10
SP1	SPEAKER, 2" DYNAMIC 8OHM 0.5W	SPKR01
U1	MICROCOMP., HCMOS (MASK ROM)	SMU68HC05
U2	EPROM, SERIAL 256X8	U2402
U3	REGULATOR, 5V 100 MA	U78L05
U4	QUAD OP. AMP.	UC274
U5	AUDIO AMP, 0.5W DIP-8	U386
U6,U8,U9	QUAD NAND GATE, HS CMOS	U74HC00
U7	HEX INVERTER, OPEN DR. HS CMOS	U74HC05
Y1	CRYSTAL, 3.58 MHz HC-18/U	XTAL3
	PLASTIC CASE, HANDSET	HANDSET
	PTT BUTTON	
	KEYPAD ASSEMBLY W/RIBBON CAB.	
	LABEL-LED PANEL (CES)	LABEL055
	SCREW, PHIL. 2.6 x 8 mm	SCREW12
	SCREW, PHIL. 2.3 x 8 mm	SCREW11
	SCREW, PHIL. 2-56 x 1/4"	SCREW14
	OWNER'S MANUAL	01100711
	TEL. NO. LABEL	LABEL032
	FUSEHOLDER W/ 1 AMP FUSE	FHOLD2
	COILED CORD ASSY. W/6-PIN PLUGS	CRDHDST
	SERVICE SHOP PROG. INST.	04100711
	PTT PCB	710
	HANDSET (MAIN) PCB	711

MODEL:HANDSET

UNIT:BASE UNIT

REF.NO.	PART NAME	PART NO.
C301-C306,C308	CAP., 0.1 UF 50V 10%	CM.1
C307	CAP., 220 UF 25V ELEC.	CE221
C309	CAP., 4.7 UF 25V NP ELEC.	CE4.7NP
CR301,CR303	ZENER DIODE 18V 1W 5%	D4746
CR304	ZENER DIODE 18V 1W 5%	D4746

REF.NO.	PART NAME	PART NO.
CR302	DIODE SWITCHING	D914
J301	CONNECTOR, 6-PIN (MODULAR)	CON52
J303	BASE PIN ASSY, 8 COND.	CON72
K301	RELAY, DPDT 12V 2A SEALED	RELAY1
L301	INDUCTOR, 10 UH 10%	CHOKE-2
Q301,Q302	TRANS., NPN SILICON	Q2222
Q303	TRANS., MOSFET N-CHAN.	QVN10
R301,R312	RES., 51K OHM 1/8W 5% CF	RC513
R302,R304	RES., 10K OHM 1/8W 5%	RC10K
R303,R305,R309,R317	RES., 10M OHM 1/8W 5% CF	RC10M
R306-R308,R310	RES., 10K OHM 1/8W 5%	RC10K
R311,R313-R315,R325	RES., 10K OHM 1/8W 5%	RC10K
R316,R319	RES., 100K OHM 1/8W 5% CF RC104	
R318	RES., 1.5K OHM 1/8W 5% CF	RC152
R320	RES., 2.2K OHM 1/8W 5% CF	RC222
R321-R324	RES., 100 OHM 1/8W 5% CF	RC101
S301	HOOK SWITCH	
S302	SWITCH, SLIDE SPST 8 POS. DIP	SWD8
U301	QUAD COMPAR., BIPOLAR	U339
U302	REGULATOR, 5V 100 MA	U78L05
U303	QUAD 2-IMP. LS NAND	U74LS00
U304	QUAD 2-IMP. LS NOR	U74LS02
	SCREW, PHIL.	SCREW17
	SCREW, PHIL.	SCREW13
	PLASTIC CASE, BASE UNIT	
	HOOK SWITCH LEVER	
	RETAINER	
	BUTTON	
	SPRING	
	CABLE CLAMP	CABLECLAMP
	WASHER	WASHER04
	SCREW, PHIL. 2.5 x 8mm	SCREW11
	BASE UNIT PCB	707