

DJ-X10

Service Manual

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ALINCO, INC.

- In the NFM, AM, SSB and CW modes, the second IF signal goes through an IF filter (XF300 and XF301) and is input to pin No. 16 of an IF IC (IC304). A 455 kHz third IF signal converted by the IC's internal mixer is output from pin No. 3 and is filtered of adjacent signals by a ceramic filter (FL301). Thereafter, a switch (D306 and D309) selects the mode. In the NFM mode, the signal is input to pin No. 5, demodulated by IC's internal limiter amplifier and quadrature detection circuit, and output from pin No. 9 as an AF signal. In the AM mode, the signal is amplified by an AGC amplifier (Q313) and input to pin No. 7 of an IF IC (IC305). It is amplified inside the circuit, demodulated by the detection circuit and output from pin No. 8 as an AF signal. In the SSB mode, the signal goes through a ceramic filter (FL303) and is amplified by an AGC amplifier (Q313) and an IF amplifier (Q316). It is then mixed with a carrier signal, which is generated by the BFO circuit (X302 and Q318) and fed through a buffer (Q317), demodulated by a balanced modulation circuit consisting of diodes (Q315, D314 and D313), and output as an AF signal.
- The AF signal for each of the modes is selected with a switch (IC308) and amplified by an AF signal amplifier (IC309). It is controlled by an AF mute circuit (Q319) and adjusted for volume by an electronic volume (IC306). It is then amplified by an audio amplifier (IC307) and input to the speaker.

3) PLL Synthesizer Circuit

- The signal from a 12.8 MHz crystal (X100) oscillator circuit (Q100) is input to a PLL IC (IC101) to obtain a 10 MHz reference oscillation signal frequency. The comparison frequency is output from a VCO circuit (Q114, L108, D104, D105, D107 and D108), amplified by an amplifier (Q115, Q113 and Q116) and divided by a divider inside the PLL IC. It is then compared against the reference frequency to make the PLL synthesizer.
- The VCO output signal (675 ~ 1225 MHz) is amplified by a buffer amplifier (Q115, Q113 and Q120) and input into the first mixer as the first local oscillator signal.
- Frequencies of 9 kHz steps or less are varied by the VCXO circuit (X300, D304 and D305) of the D/A converter (IC303).

CIRCUIT DESCRIPTION

1) Frequency

- Signals in the 0.1 ~ 449.99 MHz and 1500 ~ 2000 MHz bands are converted into the 736.25 MHz first IF signal by the first local oscillator signal.
- Signals in the 450 ~ 1499.99 MHz band are converted into the 275.45 MHz first IF signal by this same first local oscillator signal.
- The first IF signal is converted into the 45.05 MHz second IF signal from the two second local oscillator signals (671.2 and 230.4 MHz) by the second mixer circuit.
- Depending on the mode, the second IF signal is input to one of the two IF amplifier ICs. In one mode, the second IF signal is mixed with a 34.35 MHz third local oscillator signal and converted into a third IF signal of 10.7 MHz, while in the other, it is mixed with a 44.595 MHz third local oscillator signal and converted into the third IF signal of 455 kHz.

2) Receiver Block

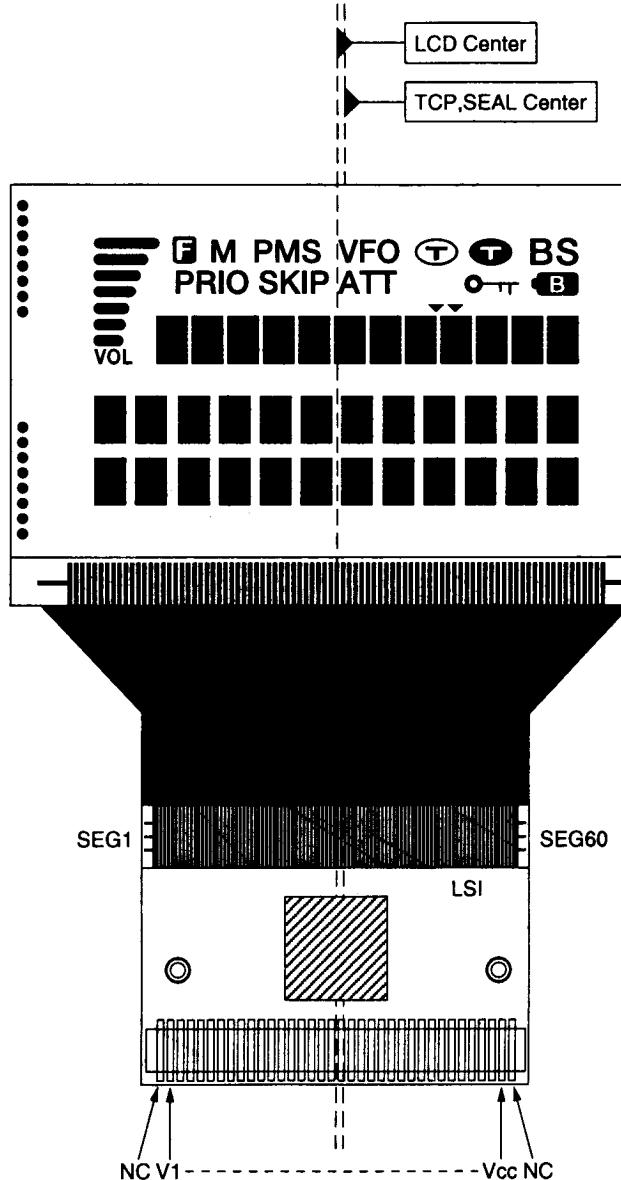
Front-End Circuit

- The received signal from the antenna goes through the antenna circuits (D128, D124 and D125) and is screened by seven band pass filters consisting of several antenna switches (D131, D111, D127, D112, D126, D114, D130, D115, D134, D119, D135, D121, D136, D122 and D133) to remove unwanted signals.
- The RF signal is amplified by each of the RF amplifiers Q123 (0.1 ~ 222 MHz), Q125 (222 ~ 797 MHz), Q126 (797 ~ 2000 MHz) and Q118. It is then converted into the first IF signal by the first mixer circuit (T101, T100, D109 and D116).
- The adjacent signals in first IF signal, the 275.45 MHz IF signal and the 736.25 MHz IF signal are filtered out respectively by the band switch (D110 and D102), the IF filter (L113, L110, L107 and L101) and the IF filter (FL102 and FL101). Then, the signals are input into the second mixer circuit (Q102).
- In the second mixer circuit, the 12.8 MHz reference signal is mixed with either a 230.4 MHz second local oscillator signal (amplified 18 times) or a 691.2 MHz second local oscillator signal (amplified 54 times) selected by a switch (D101), and is converted into a 45.05 MHz second IF signal.
- In the WFM mode, the second IF signal goes through an IF filter (L301) and is input into pin No. 16 of an IF IC (IC305). A 10.7 MHz third IF signal converted by the IC's internal mixer is output from pin No. 14, filtered of adjacent signals by a ceramic filter (FL302) and input into pin No. 12. Next, it is demodulated by IC's internal limiter amplifier and quadrature detection circuit, and output from pin No. 8 as an AF signal.

SPECIFICATIONS

Frequency range	0.1 ~ 1999.999950 MHz		
Radio systems received	WFM, NFM, AM, USB, LSB, CW		
Frequency steps	50 Hz, 100 Hz, 1 kHz, 2 kHz, 5 kHz, 6.25 kHz, 9 kHz, 10 kHz, 12.5 kHz, 15 kHz, 20 kHz, 25 kHz, 30 kHz, 50 kHz, 100 kHz, 125 kHz, 150 kHz, 200 kHz, 250 kHz, 500 kHz		
Sensitivity (Typ.)	AM	0.1~0.5 MHz 0.5~5 MHz 5~30 MHz 30 MHz ~ 1000 MHz (1 kHz 30 %mod 10 dB S/N)	10 µV(20 dBµ) 1.5 µV(3.5 dBµ) 1 µV(0 dBµ) 1 µV(0 dBµ)
	SSB	0.5~5 MHz 5~30 MHz 30 MHz ~ 1000 MHz (10 dB S/N)	0.5 µV(-6 dBµ) 0.25 µV(-12 dBµ) 0.5 µV(-6 dBµ)
	NFM	5~30 MHz 30~1000 MHz 1000~1300 MHz 1300~1999 MHz (1 kHz 3.5 kHz 12 dB SINAD)	0.35 µV(-9 dBµ) 0.25 µV(-12 dBµ) 1.5 µV(3.5 dBµ) 10 µV(20 dBµ)
	WFM	30~1000 MHz (12 dB SINAD)	1.5 µV(3.5 dBµ)
Memory channels	1200		
Search pass mode channels	1000		
Priority channel	1		
Memory banks	30		
Channels per bank	40		
Search bands	20		
Scan speed	Approx. 25 CH/sec		
Antenna connector	BNC, 50Ω		
Power supply	4.8V DC (Ni-Cd)/6V DC (AA dry cell)		
External power supply	8~15V DC		
Rated AF output	Min. 100 mW, 10% THD		
Power consumption	At rated output Squelched BS ON		
	Approx. 200 mA Approx. 140 mA Approx. 30 mA		
Weight	Approx. 320 g		
Dimensions	57 x 150 x 27.5 mm (without projections)		
Operating temperature range	-10 ~ +50°C		
Frequency stability	±10 ppm		

19) LCD Diagram

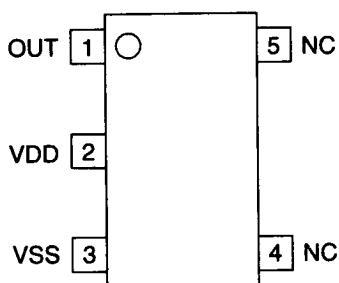


18) Transistor, Diode, and LED Outline Drawings

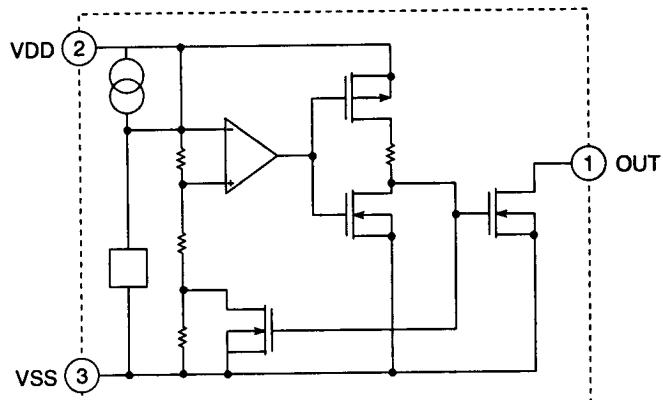
DA204U XD0130	DAN202U XD0230	MA742TX XD0250	MA741WK XD0252	1SS295 XD0306	1SS312 XD0307
1SV231 XD0260	1SS356 XD0272	MA111 XD0290	MA729 XD0291	U2FWJ44N XD0294	HVU350 XD0313
DTB123YK XU0155	XP1501TX XU0172	UN9112 XU0182	UN5212 XU0184	DTA143ZE XU0185	DTC143ZE XU0186
2SC4649 XT0108	2SC4181 XT0149	2SC4738 XT0150	2SC5006 XT0151	2SC5007 XT0152	2SC5008 XT0153
BRPG1201W XL0028	SML-310MT XL0036	PG1101F XL0045	2SK425 XE0033	UMC5N XU0152	
2SA1213-Y XT0088					

14) S-80725SN-2 (XA0528)

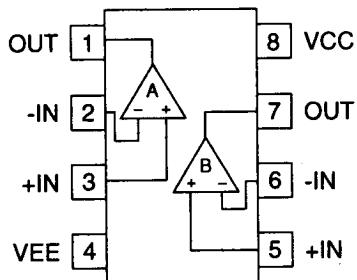
Pin Assignment



Block Diagram

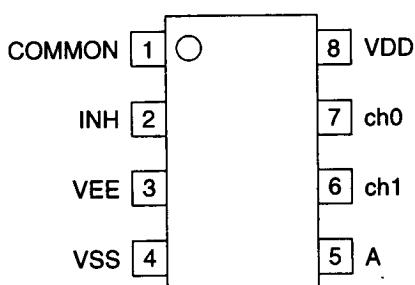


15) TA75W01FU-2 (XA0349)

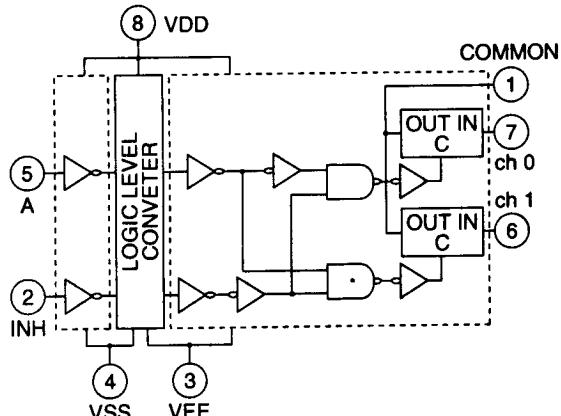


16) TC4W53FU (XA0348)

Pin Assignment

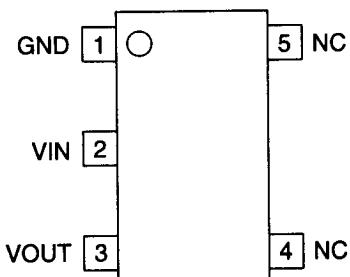


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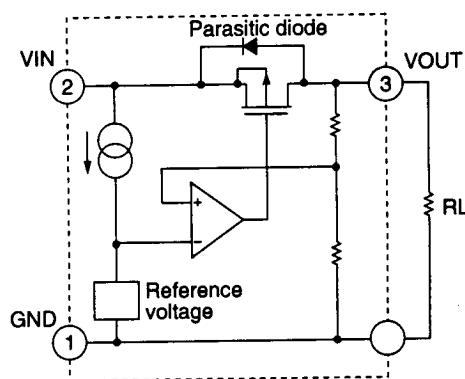


17) S-812XXSG (XA0358)

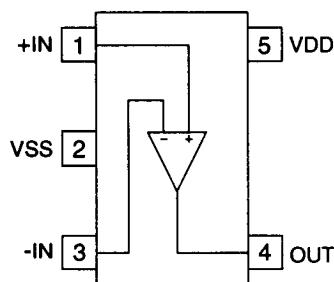
Pin Assignment



Block Diagram

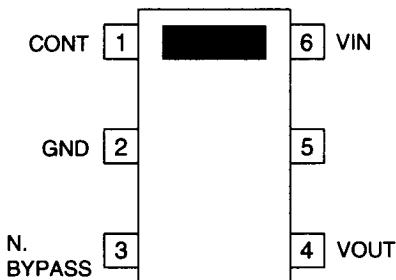


10) TC75S51F (XA0465)

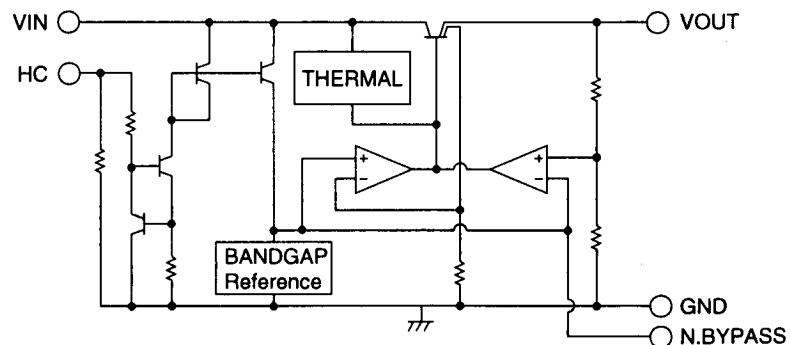


11) TK11235AM (XA0467)

Pin Assignment

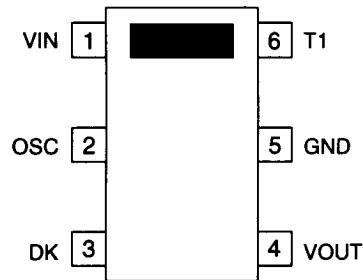


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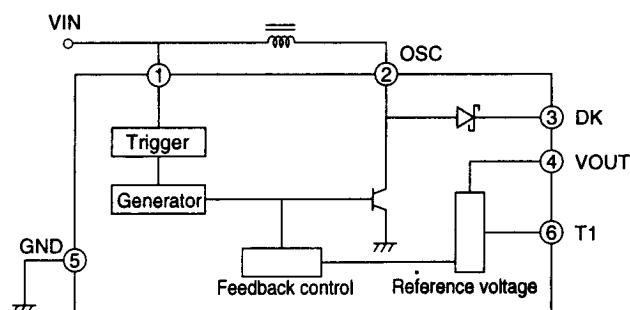


12) TK11819M (XA0468)

Pin Assignment

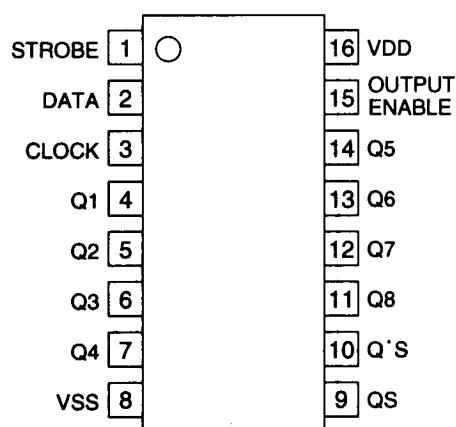


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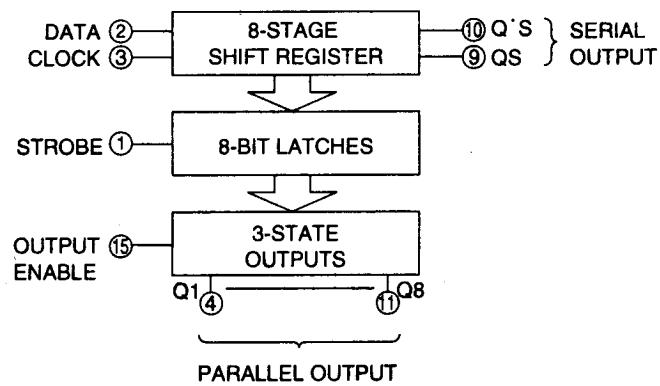


13) BU4094BCFV (XA0506)

Pin Assignment



Block Diagram

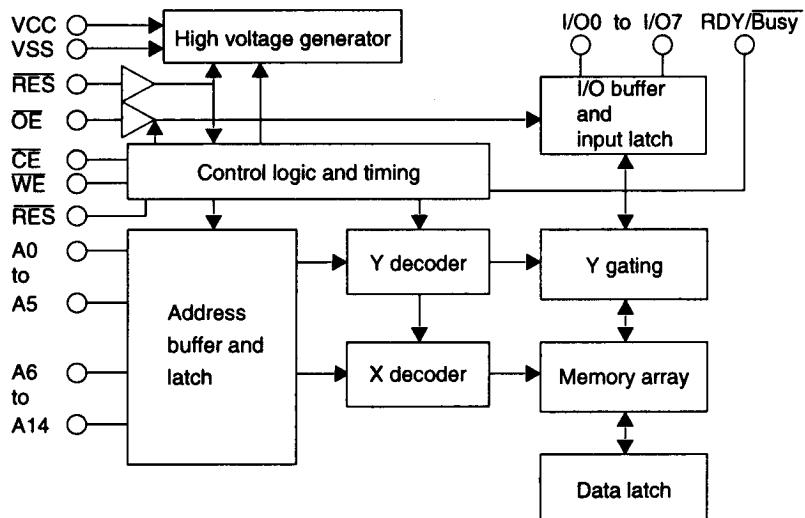


8) HN58V257A (XA0462)

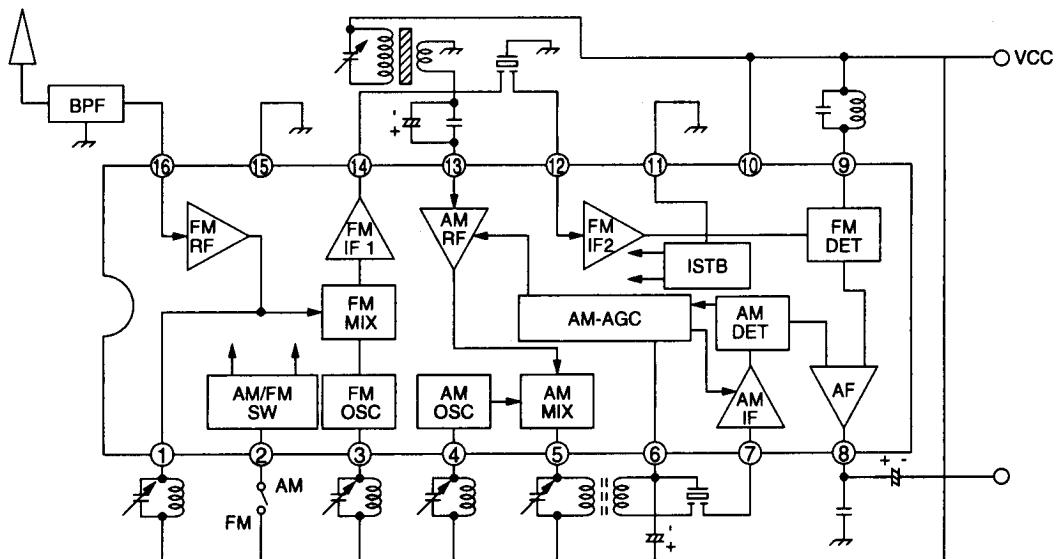
Pin Assignment

OE	1	32	A10
A11	2	31	CE
A9	3	30	NC
A8	4	29	I/O7
A13	5	28	I/O6
WE	6	27	I/O5
RES	7	26	I/O4
VCC	8	25	I/O3
RDY/Busy	9	24	VSS
A14	10	23	I/O2
A12	11	22	I/O1
A7	12	21	I/O0
A6	13	20	NC
A5	14	19	A0
A4	15	28	A1
A3	16	17	A2

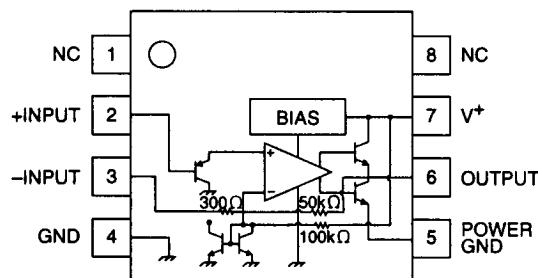
Block Diagram



9) TA7792F (XA0464)

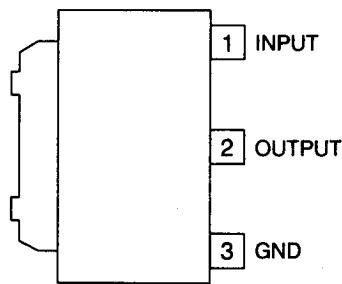


4) NJM2070MT (XA0210)

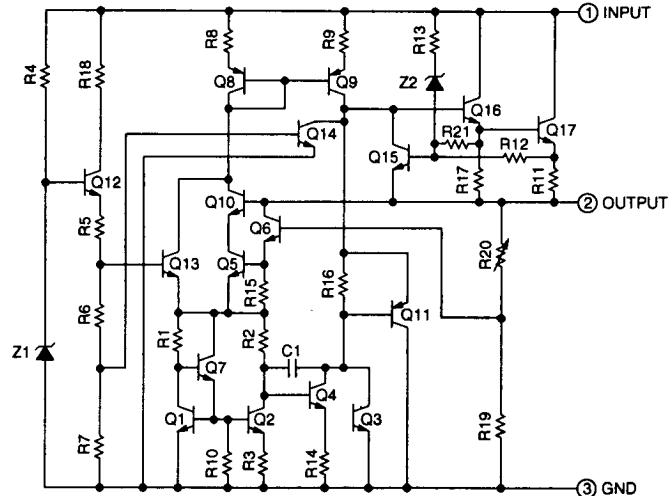


5) TA7806F (XA0267)

Pin Assignment

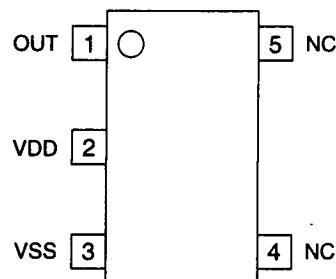


Block Diagram

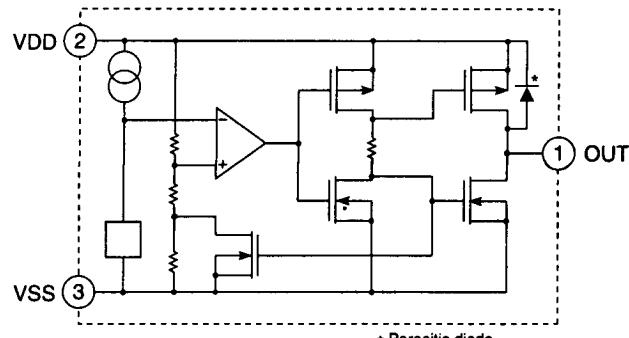


6) S-80733SLAXT2 (XA0357)

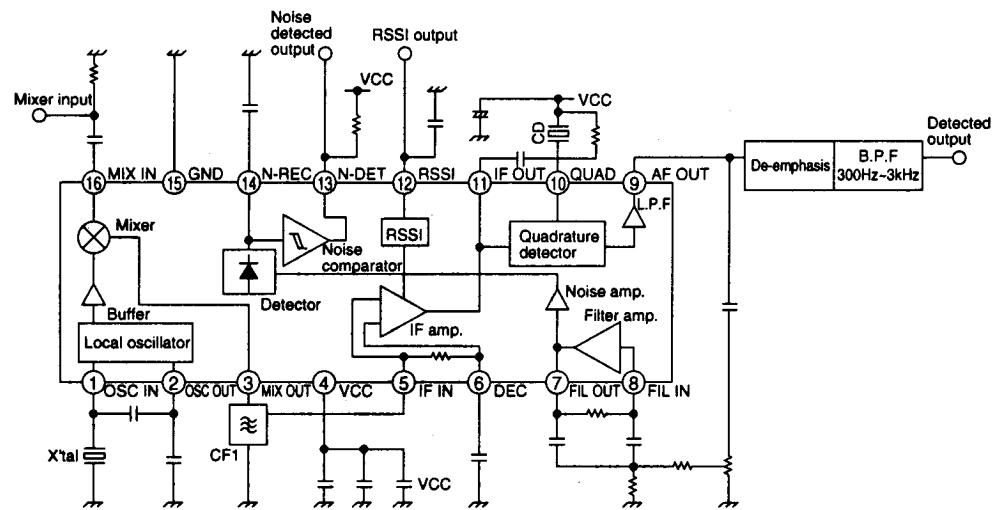
Pin Assignment



Block Diagram



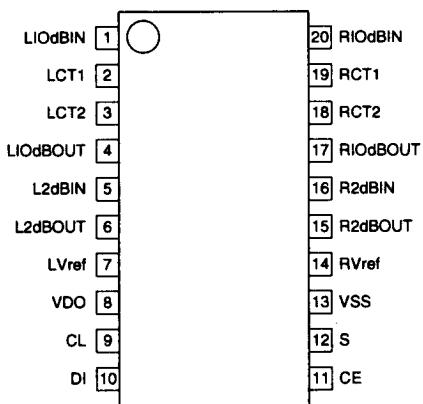
7) TA31136FN (XA0404)



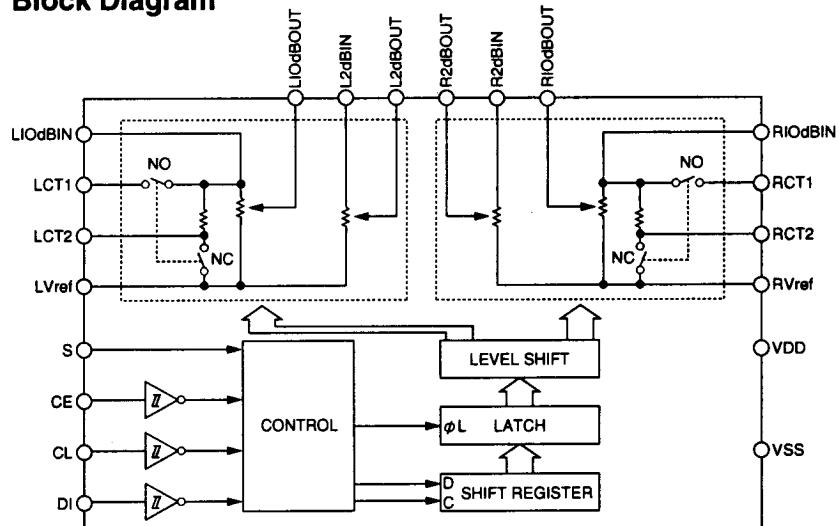
SEMICONDUCTOR DATA

1) LC75366M (XA0345)

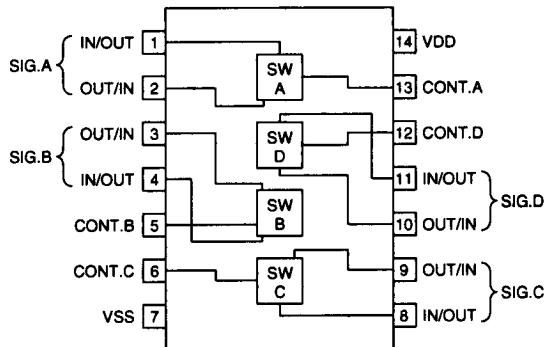
Pin Assignment



Block Diagram

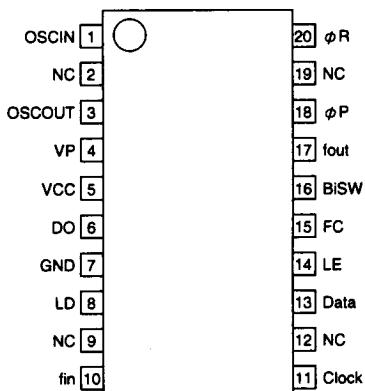


2) NJU4066BM (XA0095)

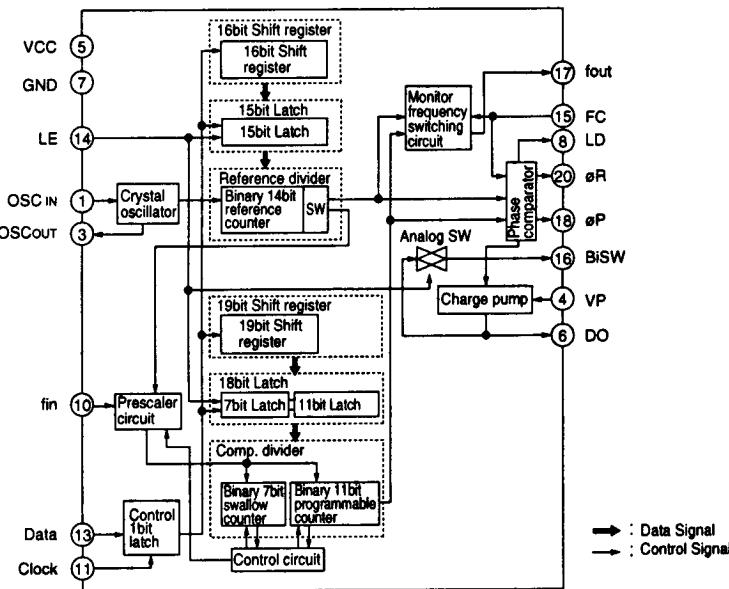


3) MB1511 (XA0173)

Pin Assignment

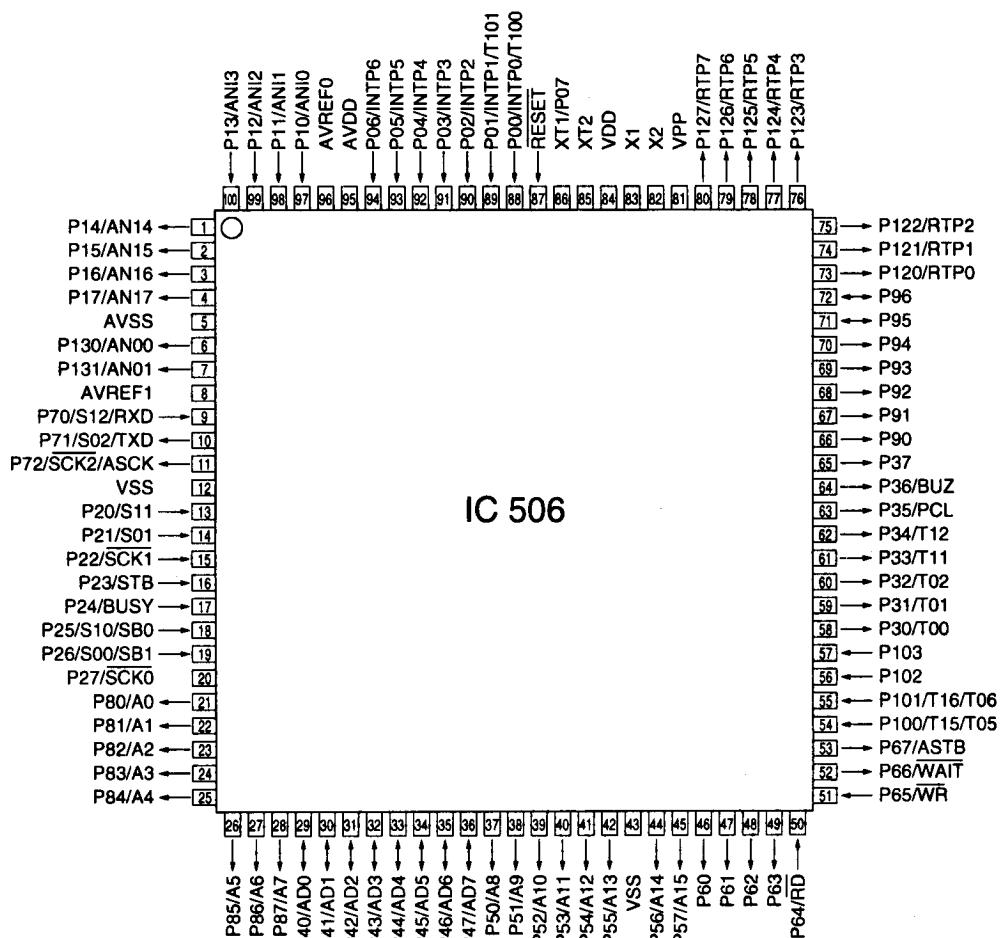


Block Diagram



No.	Name	Pin Name	I/O	Description	H	L	Hi Z	Pull UP
32	P43/AD3	DD3	I/O	EEPROM DATA				
33	P44/AD4	DD4	I/O	EEPROM DATA				
34	P45/AD5	DD5	I/O	EEPROM DATA				
35	P46/AD6	DD6	I/O	EEPROM DATA				
36	P47/AD7	DD7	I/O	EEPROM DATA				
37	P50/A8	A8	O	EEPROM ADRESS				
38	P51/A9	A9	O	EEPROM ADRESS				
39	P52/A10	A10	O	EEPROM ADRESS				
40	P53/A11	A11	O	EEPROM ADRESS				
41	P54/A12	A12	O	EEPROM ADRESS				
42	P55/A13	A13	O	EEPROM ADRESS				
43	VSS	GND		GND				
44	P56/A14	A14	O	EEPROM ADRESS				
45	P57/A15	/RES	O	EEPROM LCD RESET				
46	P60	STB4	O	STB FOR IC500				
47	P61	SHIFT	O	NOT USED				
48	P62	OECNT	O	OUT CONTROL IC500				
49	P63	/CE	O	CHIP ENABLE EEPROM				
50	P64//RD	RD	I	OUT ENABLE EEPROM				
51	P65//WR	/WE	I	WRITE ENABLE EEPROM				
52	P66/WAIT	OPTSTB	O	STB FOR OPTION				
53	P67/ASTB	OPTCT	O	CONTROL FOR OPTION	ON	OFF		
54	P100/T15/T05	RDY	I	EEPROM STATUS				
55	P101/T16/T06	OPTDET	I	OPTION DETECT	ON	OFF		
56	P102	WIDES	I	ENABLE BAND				
57	P103	LOCK	I	PLL LOCK		UNLOCK		
58	P30/T00	BEEP	O	BEEP				
59	P31/T01	AFS	O	AMP CONTROL	ON	OFF		
60	P32/T02	MUTE	O	MUTE	ON	OFF		
61	P33/T11	STB3	O	STB FOR IC300				
62	P34/T12	STB2	O	STB FOR IC306				
63	P35/PCL	STB1	O	STB FOR IC103				
64	P36/BUZ	LE	O	STB FOR IC101				
65	P37	BUSLS	O	BUSY LED CONTROL	ON	OFF		
66	P90	DB4	O	DATA LCD				
67	P91	DB5	O	DATA LCD				
68	P92	DB6	O	DATA LCD				
69	P93	DB7	O	DATA LCD				
70	P94	E/SCLK	O	E/SCLK LCD				
71	P95	RW/SID	I/O	RW/SID LCD				
72	P96	RS/CS	I/O	RS/CS LCD				
73	P120/RTP0	DATA	O	DATA FOR 4094				
74	P121/RTP1	CLK	O	CLK FOR 4094				
75	P122/RTP2	BATSV	O	BATT SAV CONTROL	ON	OFF		
76	P123/RTP3	RFL	O	FILTER CONTROL	OFF	ON		
77	P124/RTP4	RFM	O	FILTER CONTROL	OFF	ON		
78	P125/RTP5	RFH	O	FILTER CONTROL	OFF	ON		
79	P126/RTP6	BARS	O	NOT USED				
80	P127/RTP7	IFS	O	IF SWITCH	OFF	ON		
81	VPP	GND						
82	X2			XTAL MAIN				
83	X1			XTAL MAIN				
84	VDD	VDD						
85	XT2			XTAL SUB				
86	XT1/P07			XTAL SUB				
87	/RESET	/RST	I	RESET CPU				
88	P00/INTP0/T100	LAMPK	I	LAMP KEY	OFF	ON		0
89	P01/INTP1/T101	BRDET	I	BAT DETECT				0
90	P02/INTP2	POWK	I	POWER KEY	OFF	ON		0
91	P03/INTP3	MONK	I	MONITOR KEY	OFF	ON		0
92	P04/INTP4	FUNK	I	FUNCTION KEY	OFF	ON		0
93	P05/INTP5	A	I	ROTARY ENCODER				0
94	P06/INTP6	B	I	ROTARY ENCODER				0
95	AVDD	VDD		VDD				
96	AVREF0	VCC		VCC				
97	P10/ANI0	SQD	I	SQ				
98	P11/ANI1	SM	I	S-METER				
99	P12/ANI2	JRDET	I	NOT USED				
100	P13/ANI3	BATTDET	I	LOW BAT DETECT				

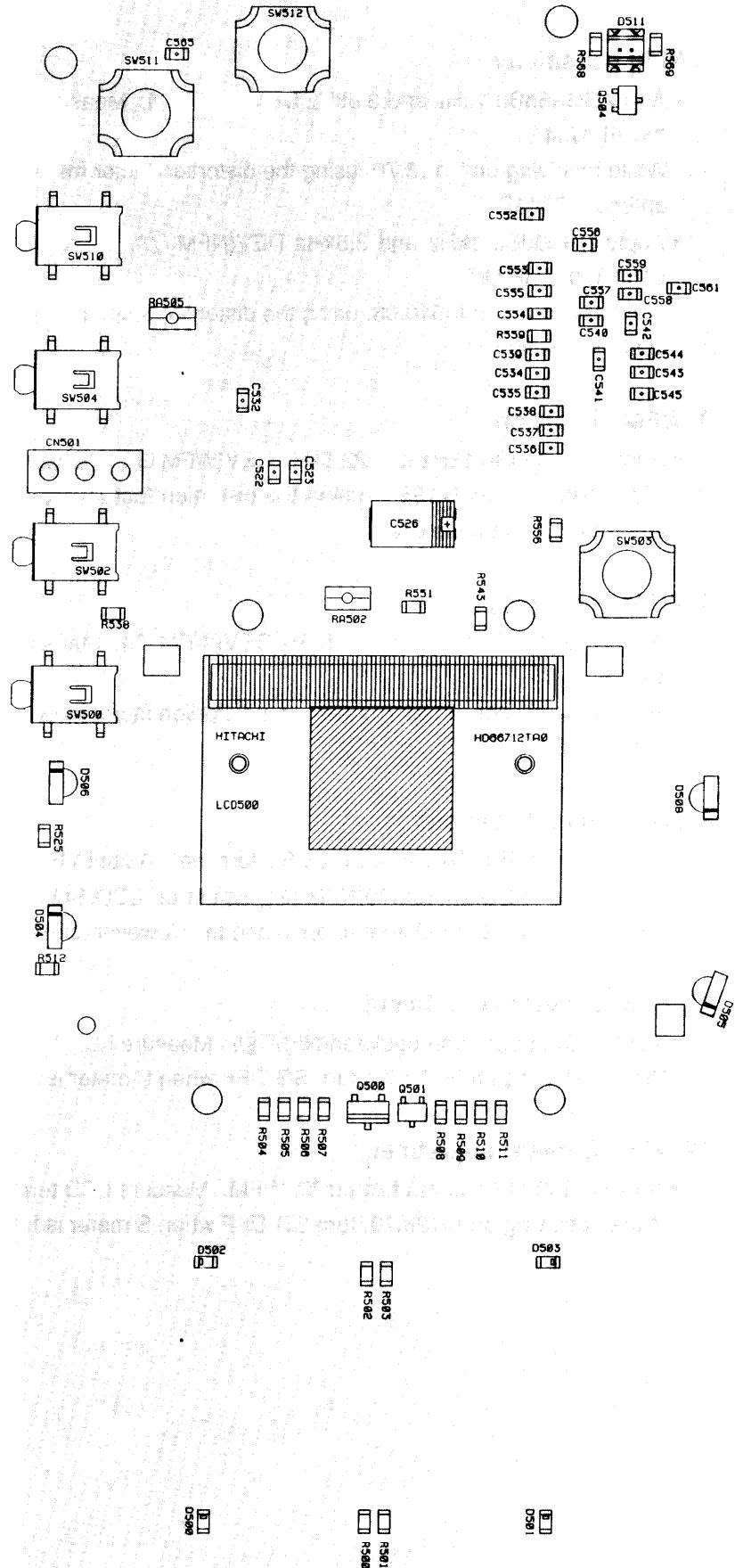
4) CPU Terminal Functions: μ PD78076 (E:XA0536) (T:XA0550)



No.	Name	Pin Name	I/O	Description	H	L	Hi Z	Pull UP
1	P14/AN14	C0	O	16KEY MATRIX				
2	P15/AN15	CB1	O	16KEY MATRIX				
3	P16/AN16	CB2	O	16KEY MATRIX				
4	P17/AN17	CB3	O	16KEY MATRIX				
5	AVSS	GND		GND				
6	P130/AN00	BARTU	O	NOT USED				
7	P131/AN01	VCXOIN	O	VCXO CONTROL				
8	AVREF1	VCC		VCC				
9	P70/S12/RXD	RXD	I	CLONE RX INPUT				
10	P71/S02/TXD	TXD	O	CLONE TX OUTPUT				
11	P72/SCK2/ASCK	PCNTS	O	DC DC POWER CONTROL	ON	OFF		
12	VSS	GND		GND				
13	P20/S11	RB0	I	16KEY MATRIX	OFF	ON		
14	P21/S01	RB1	I	16KEY MATRIX	OFF	ON		
15	P22//SCK1	RB2	I	16KEY MATRIX	OFF	ON		
16	P23/STB	RB3	I	16KEY MATRIX	OFF	ON		
17	P24/BUSY	RB4	I	16KEY MATRIX	OFF	ON		
18	P25/S10/SB0	RB5	I	16KEY MATRIX	OFF	ON		
19	P26/S00/SB1	SRCHK	I	SRCH KEY	OFF	ON		
20	P27//SCK0	NOVOEDET		NOT USED				
21	P80/A0	A0	O	EEPROM ADRESS				
22	P81/A1	A1	O	EEPROM ADRESS				
23	P82/A2	A2	O	EEPROM ADRESS				
24	P83/A3	A3	O	EEPROM ADRESS				
25	P84/A4	A4	O	EEPROM ADRESS				
26	P85/A5	A5	O	EEPROM ADRESS				
27	P86/A6	A6	O	EEPROM ADRESS				
28	P87/A7	A7	O	EEPROM ADRESS				
29	P40/AD0	DD0	I/O	EEPROM DATA				
30	P41/AD1	DD1	I/O	EEPROM DATA				
31	P42/AD2	DD2	I/O	EEPROM DATA				

PC BOARD VIEW

CPU Unit Side A



7. NFM sensitivity

- Apply SG=6dBu 1kHz and 3.5kHz DEV (NFM ⑥). Measure SP terminal. Adjust FI102, FL101, and L102 in the RF Unit.
While receiving on f=198.70, using the distortion factor meter oscilloscope, repeat adjustment until obtaining optimum SINAD.
- Apply SG=0dBu 1kHz and 3.5kHz DEV(NFM ⑦). Measure SP terminal. Adjust L113, L110, L107, and L101 in the RF Unit.
While receiving on f=510.03, using the distortion factor meter oscilloscope, repeat adjustment until obtaining optimum SINAD.

8. WFM distortion

- Apply SG=60dBu 1kHz and 22.5kHz DEV(WFM ⑧). Measure SP terminal. Adjust L305 in the IF Unit.
While receiving on f=198.7, using the distortion factor meter oscilloscope, set distortion factor to minimum and max. AF output to 6%.

9. WFM sensitivity

- Apply SG=10dBu 1kHz and 22.5kHz DEV(WFM ⑧). Measure SP terminal. Adjust L304 and L309 in the IF Unit.
While receiving on f=198.70, using the distortion factor meter oscilloscope, repeat adjustment until obtaining optimum SINAD.

10. SQ level adjustment

- Apply SG=-3dBu. Measure SP BUSY terminal. Adjust VR302 in the IF Unit.
While receiving on f=198.70(NFM ⑨), adjust on LCD SQ level 1, turn VR304 clockwise to close squelch. Then, turn counter-clockwise to open and fix. However, close with SQ.

11. NFM S meter adjustment

- Apply SG=25dBu, unmodulated(NFM ⑨). Measure LCD terminal. Adjust VR302 in the IF Unit.
While receiving on f=198.70, turn SG OFF when S meter is full scale. Check S meter does not light up.

12. WFM S meter adjustment

- Apply SG=32dBu, unmodulated ⑩, WFM. Measure LCD terminal. Adjust VR301 in the IF Unit.
While receiving on f=198.70, turn SG OFF when S meter is full scale. Check S meter does not light up.

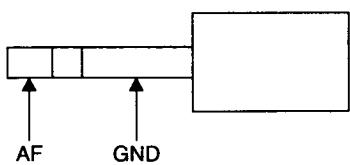
ADJUSTMENT

1) Required measuring instruments and tools

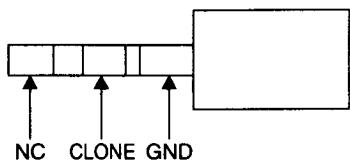
1. Digital voltmeter
2. Regulated power supply of 10 V, 1 A or more
3. Oscilloscope
4. Frequency counter
5. External speaker
6. 0.1 MHz ~ 2 GHz SG
7. Audio analyzer
Level meter, distortion factor meter, linear detector
8. Spectrum analyzer

1 m coaxial cable with BNC connector

Speaker cable with 3.5Ø plug



Cloning cable with 2.5Ø stereo plug on both ends



Power supply cable for external power supply terminal (For DJG5)

2) Adjustment

All SSG outputs are indicated in EMF.

The SP is 8 Ω. Output is 50 mW.

Level meter filter must be HPF (30 ~ 50 Hz) and LPF (10 ~ 15 kHz).

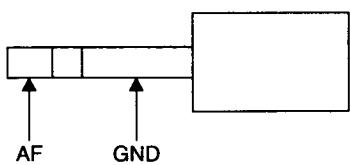
ADJUSTMENT

1) Required measuring instruments and tools

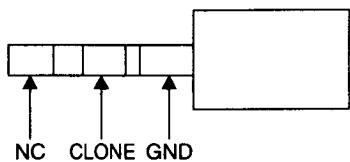
1. Digital voltmeter
2. Regulated power supply of 10 V, 1 A or more
3. Oscilloscope
4. Frequency counter
5. External speaker
6. 0.1 MHz ~ 2 GHz SG
7. Audio analyzer
Level meter, distortion factor meter, linear detector
8. Spectrum analyzer

1 m coaxial cable with BNC connector

Speaker cable with 3.5Ø plug



Cloning cable with 2.5Ø stereo plug on both ends



Power supply cable for external power supply terminal (For DJG5)

2) Adjustment

All SSG outputs are indicated in EMF.

The SP is 8Ω . Output is 50 mW.

Level meter filter must be HPF (30 ~ 50 Hz) and LPF (10 ~ 15 kHz).

Ref. No.	Parts No.	Parts Name	Ver.	Ref. No.	Parts No.	Parts Name	Ver.
L105	QH0003	KE-07723		Q128	XU0182	UN8112-(T)	
L106	QH0003	KE-07723		Q129	XU0182	UN8112-(T)	
L107	QH0003	KE-07723		Q130	XU0182	UN8112-(T)	
L108	QH0016	LL1608-F1NK		Q131	XU0182	UN8112-(T)	
L110	QH0033	KE-07723		Q132	XU0182	UN8112-(T)	
L111	QH0020	LL1608-F1NK		Q133	XU0182	UN8112-(T)	
L112	QH0020	LL1608-F1NK		Q134	XU0182	UMC5ANT	
L113	QH0013	KE-07723		Q135	XU0189	UN8117-(T)	
L114	QH0020	LL1608-F1NK		R100	RK3028	ER36SY151V	
L115	QH0020	LL1608-F1NK		R101	RK3028	ER36SY150V	
L116	QH0040	LL1608-F1NK		R102	RK3039	ER36SY156V	
L117	QH0038	LCN1A15W04		R104	RK3051	ER36SY168V	
L118	QH0042	LCN1A15W04		R105	RK3051	ER36SY171V	
L119	QH0012	LOH1NFS23K04		R106	RK3018	ER36SY1720V	
L120	QH0012	LOH1NFS23K04		R107	RK3039	ER36SY1721V	
L121	QH0046	LON1ABN04		R108	RK3039	ER36SY1722V	
L122	QH0046	LON1ABN04		R109	RK3039	ER36SY175V	
L123	QH0046	LON1ABN04		R110	RK3039	ER36SY183V	
L124	QH0046	LON1ABN04		R111	RK3039	ER36SY192V	
L125	QH0046	LON1ATEN04		R112	RK3051	ER36SY195V	
L126	QH0038	LON1ATEN04		R113	RK3051	ER36SY198V	
L127	QH0039	LK16081FRK-T		R114	RK3031	ER36SY199V	
L128	QH0039	LON2AR12K04		R115	RK3049	ER36SY199V	
L129	QH0057	LK16081FRK-T		R116	RK3028	ER36SY199V	
L130	QH0057	LK16081FRK-T		R117	RK3018	ER36SY199V	
L131	QH0041	LON1A27N04		R118	RK3050	ER36SY199V	
L132	QH0041	LON1A27N04		R119	RK3050	ER36SY199V	
L133	QH0037	MR1.5_1.5T 04		R120	RK3042	ER36SY199V	
L134	QH0037	MR1.5_1.5T 04		R121	RK3018	ER36SY199V	
L135	QH0034	MR1.5_1.5T 04		R122	RK3031	ER36SY199V	
L136	QH0036	MR1.5_1.5T 04		R123	RK3018	ER36SY199V	
L137	QH0036	MR1.5_1.5T 04		R124	RK3047	ER36SY199V	
L138	QH0036	MR1.5_1.5T 04		R125	RK3026	ER36SY199V	
L139	QH0036	MR1.5_1.5T 04		R126	RK3038	ER36SY199V	
L140	QH0035	MR1.5_1.5T 04		R127	RK3038	ER36SY199V	
L141	QH0035	MR1.5_1.5T 04		R128	RK3039	ER36SY199V	
L142	QH0035	MR1.5_1.5T 04		R129	RK3039	ER36SY199V	
L143	QH0051	LOP314M7/04		R130	RK3018	ER36SY199V	
L144	QH0059	LK16081FRK-T		R131	RK3018	ER36SY199V	
L145	QH0051	LCH1NPF2K-T		R132	RK3059	ER36SY199V	
L146	QH0040	LON1A23N04		R133	RK3059	ER36SY199V	
L147	QH0040	LON2AR12K04		R134	RK3038	ER36SY199V	
L148	QH0025	LON2AR20N04		R135	RK3026	ER36SY199V	
L149	QH0015	LON1A15W04		R136	RK3047	ER36SY199V	
L150	QH0059	LON1A27N04		R137	RK3026	ER36SY199V	
L151	QH0059	LON1A15W04		R138	RK3047	ER36SY199V	
L152	QH0059	LON1A15W04		R139	RK3047	ER36SY199V	
L153	QH0015	MR1.5_1.5T 04		R140	RK3054	ER36SY199V	
L154	QH0025	MR1.5_1.5T 04		R141	RK3047	ER36SY199V	
L155	QH0015	MR1.5_1.5T 04		R142	RK3026	ER36SY199V	
L156	QH0015	MR1.5_1.5T 04		R143	RK3047	ER36SY199V	
L157	QH0015	MR1.5_1.5T 04		R144	RK3047	ER36SY199V	
L158	QH0015	MR1.5_1.5T 04		R145	RK3028	ER36SY199V	
L159	QH0015	MR1.5_1.5T 04		R146	RK3054	ER36SY199V	
L160	QH0015	MR1.5_1.5T 04		R147	RK3054	ER36SY199V	
L161	QH0015	MR1.5_1.5T 04		R148	RK3043	ER36SY199V	
L162	QH0015	MR1.5_1.5T 04		R149	RK3070	ER36SY199V	
L163	QH0015	MR1.5_1.5T 04		R150	RK3038	ER36SY199V	
L164	QH0015	MR1.5_1.5T 04		R151	RK3051	ER36SY199V	
L165	QH0015	MR1.5_1.5T 04		R152	RK3051	ER36SY199V	
L166	QH0015	MR1.5_1.5T 04		R153	RK3051	ER36SY199V	
L167	QH0015	MR1.5_1.5T 04		R154	RK3051	ER36SY199V	
L168	QH0015	MR1.5_1.5T 04		R155	RK3051	ER36SY199V	
L169	QH0015	MR1.5_1.5T 04		R156	RK3051	ER36SY199V	
L170	QH0015	MR1.5_1.5T 04		R157	RK3051	ER36SY199V	
L171	QH0015	MR1.5_1.5T 04		R158	RK3051	ER36SY199V	
L172	QH0015	MR1.5_1.5T 04		R159	RK3051	ER36SY199V	
L173	QH0015	MR1.5_1.5T 04		R160	RK3051	ER36SY199V	
L174	QH0015	MR1.5_1.5T 04		R161	RK3051	ER36SY199V	
L175	QH0015	MR1.5_1.5T 04		R162	RK3051	ER36SY199V	
L176	QH0015	MR1.5_1.5T 04		R163	RK3051	ER36SY199V	
L177	QH0015	MR1.5_1.5T 04		R164	RK3051	ER36SY199V	
L178	QH0015	MR1.5_1.5T 04		R165	RK3072	ER36SY199V	
L179	QH0015	MR1.5_1.5T 04		R166	RK3082	ER36SY199V	
L180	QH0015	MR1.5_1.5T 04		R167	RK3049	ER36SY199V	
L181	QH0015	MR1.5_1.5T 04					
L182	QH0015	MR1.5_1.5T 04					
L183	QH0015	MR1.5_1.5T 04					
L184	QH0015	MR1.5_1.5T 04					
L185	QH0015	MR1.5_1.5T 04					
L186	QH0015	MR1.5_1.5T 04					
L187	QH0015	MR1.5_1.5T 04					
L188	QH0015	MR1.5_1.5T 04					
L189	QH0015	MR1.5_1.5T 04					
L190	QH0015	MR1.5_1.5T 04					
L191	QH0015	MR1.5_1.5T 04					
L192	QH0015	MR1.5_1.5T 04					
L193	QH0015	MR1.5_1.5T 04					
L194	QH0015	MR1.5_1.5T 04					
L195	QH0015	MR1.5_1.5T 04					
L196	QH0015	MR1.5_1.5T 04					
L197	QH0015	MR1.5_1.5T 04					
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L201	QH0015	MR1.5_1.5T 04					
L202	QH0015	MR1.5_1.5T 04					
L203	QH0015	MR1.5_1.5T 04					
L204	QH0015	MR1.5_1.5T 04					
L205	QH0015	MR1.5_1.5T 04					
L206	QH0015	MR1.5_1.5T 04					
L207	QH0015	MR1.5_1.5T 04					
L208	QH0015	MR1.5_1.5T 04					
L209	QH0015	MR1.5_1.5T 04					
L210	QH0015	MR1.5_1.5T 04					
L211	QH0015	MR1.5_1.5T 04					
L212	QH0015	MR1.5_1.5T 04					
L213	QH0015	MR1.5_1.5T 04					
L214	QH0015	MR1.5_1.5T 04					
L215	QH0015	MR1.5_1.5T 04					
L216	QH0015	MR1.5_1.5T 04					
L217	QH0015	MR1.5_1.5T 04					
L218	QH0015	MR1.5_1.5T 04					
L219	QH0015	MR1.5_1.5T 04					
L220	QH0015	MR1.5_1.5T 04					
L221	QH0015	MR1.5_1.5T 04					
L222	QH0015	MR1.5_1.5T 04					
L223	QH0015	MR1.5_1.5T 04					
L224	QH0015	MR1.5_1.5T 04					
L225	QH0015	MR1.5_1.5T 04					
L226	QH0015	MR1.5_1.5T 04					
L227	QH0015	MR1.5_1.5T 04					
L228	QH0015	MR1.5_1.5T 04					
L229	QH0015	MR1.5_1.5T 04					
L230	QH0015	MR1.5_1.5T 04					
L231	QH0015	MR1.5_1.5T 04					
L232	QH0015	MR1.5_1.5T 04					
L233	QH0015	MR1.5_1.5T 04					
L234	QH0015	MR1.5_1.5T 04					
L235	QH0015	MR1.5_1.5T 04					
L236	QH0015	MR1.5_1.5T 04					
L237	QH0015	MR1.5_1.5T 04					
L238	QH0015	MR1.5_1.5T 04					
L239	QH0015	MR1.5_1.5T 04					
L240	QH0015	MR1.5_1.5T 04					
L241	QH0015	MR1.5_1.5T 04					
L242	QH0015	MR1.5_1.5T 04					
L243	QH0015	MR1.5_1.5T 04					
L244	QH0015	MR1.5_1.5T 04					
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L253	QH0015	MR1.5_1.5T 04					
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L264	QH0015	MR1.5_1.5T 04					
L265	QH0015	MR1.5_1.5T 04					
L266	QH0015	MR1.5_1.5T 04					
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L268	QH0015	MR1.5_1.5T 04					
L269	QH0015	MR1.5_1.5T 04					
L270	QH0015	MR1.5_1.5T 04					
L271	QH0015	MR1.5_1.5T 04					
L272	QH0015	MR1.5_1.5T 04					
L273	QH0015	MR1.5_1.5T 04					
L274							

Ref. No.	Parts Name	Parts No.	Ref. No.	Parts Name	Parts No.	Ver.
C241	C1680C1H1021TA	C13024	C1680C1H100CTA	C1311	C1680B1H103KTA	C43
C167	C1680C1H100CTA	C13002	C1680B1H103KTA	C1321	C1680C1H103KTA	C43
C168	C1680C1H100CTA	C13047	C1680B1H103KTA	C1322	C1680C1H103KTA	C44
C169	C1680C1H100CTA	C13035	C1680B1H102KTA	C1323	C1680C1H103KTA	C45
C170	C1680C1H100CTA	C13035	C1680B1H102KTA	C1324	C1680C1H103KTA	C45
C171	C1680C1H103KTA	C13013	C1680B1H102KTA	C1325	C1680C1H103KTA	C46
C172	C1680C1H103KTA	C13035	C1680B1H102KTA	C1326	C1680C1H103KTA	C47
C173	C1680C1H102CTA	C13003	C1680B1H102CTA	C1327	C1680C1H103KTA	C48
C174	C1680B1H103KTA	C13247	C1680B1H103KTA	C1328	C1680C1H104M	C49
C175	C1680B1H103KTA	C13247	C1680B1H103KTA	C1329	C1680C1H104M	C50
C176	C1680B1H104M	C13235	C1680B1H102KTA	C1331	C1680B1H103KTA	C51
C177	C1680B1H103KTA	C13235	C1680B1H102KTA	C1331	C1680B1H103KTA	C51
C178	C1680B1H103KTA	C13247	C1680B1H102KTA	C1332	C1680B1H103KTA	C52
C179	C1680B1H102KTA	C13035	C1680B1H102KTA	C1332	C1680B1H103KTA	C53
C180	C1680B1H102KTA	C13235	C1680B1H102KTA	C1332	C1680B1H103KTA	C54
C181	C1680B1H102KTA	C13231	C1680B1H102KTA	C1332	C1680B1H103KTA	C54
C182	C1680B1H103KTA	C13231	C1680B1H102KTA	C1332	C1680B1H103KTA	C55
C183	C1680B1H103KTA	C13231	C1680B1H102KTA	C1332	C1680B1H103KTA	C55
C184	C1680B1H103KTA	C13232	C1680B1H101JTA	C1323	C1680B1H102KTA	C55
C185	C1680B1H1050CTA	C13035	C1680B1H102KTA	C1323	C1680B1H103KTA	C55
C186	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C55
C187	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C55
C188	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C189	C1680B1H103KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C190	C1680B1H103KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C191	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C192	C1680B1H104M	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C193	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C194	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C195	C1680B1H103KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C196	C1680B1H103KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C197	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C198	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C199	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C200	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C201	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C202	C1680B1H1050CTA	C13003	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C203	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C204	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C205	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C206	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C207	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
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C209	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C210	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C211	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C212	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C213	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C214	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C215	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C216	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C217	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C218	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C219	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C220	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C221	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C222	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C223	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C224	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C225	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C226	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C227	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C228	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C229	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C230	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C231	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C232	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C233	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C234	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C235	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C236	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C237	C1680B1H101JTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C238	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C239	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56
C240	C1680B1H102KTA	C13235	C1680B1H102KTA	C1323	C1680B1H103KTA	C56

Ref. No.	Parts No.	Description	Var.	Ref. No.	Parts No.	Parts Name	Ver.
AF0220	O2-3#ANT	BODY		SW506	U00018	SOP-112SST	
A0003	OPE+1#Fe&C3	BODY		SW507	U00018	SOP-112SST	
FG0178Y	Jack rubber	BODY		SW508	U00018	SOP-112SST	
FG0180Y	DC cap	BODY		SW509	U00018	SOP-112SST	
Dial cap	BODY	Battery case					
Jack cap	BODY	Battery case					
Jack metal fixture	BODY	VCO case		T5049	TS0146	Silicon dijnger	
OP+Fe&C3	BODY	VCO case		C13021	C13021	RF Unit	
LCD panel	BODY	VCO case		C13022	C13022	RF Unit	
Dial knob	BODY	VCO case		C13023	C13023	RF Unit	
Caution label	BODY	VCO case		C13024	C13024	RF Unit	
Battery spring A	Battery case	VCO case		C13025	C13025	RF Unit	
Battery spring B	Battery case	VCO case		C13026	C13026	RF Unit	
Battery spring C	Battery case	VCO case		C13027	C13027	RF Unit	
Battery spring D	Battery case	VCO case		C13028	C13028	RF Unit	
AV0021	O2-3#Fe&C1	Charge unit	TE	C13029	C13029	RF Unit	
EDG32	EDG32	Charge unit	TE	C13030	C13030	RF Unit	
EDG34	EDG34	Charge unit	TE	C13031	C13031	RF Unit	
EW0011	EW0011	Charge unit	TE	C13032	C13032	RF Unit	
EW0012	EW0012	Charge unit	TE	C13033	C13033	RF Unit	
EW0013	EW0013	Charge unit	TE	C13034	C13034	RF Unit	
EW0004	P24-5#Fe-C1	Front unit	K	C13035	C13035	Front unit	
EW0005	ES0011Z	Front unit	K	C13036	C13036	Front unit	
FG0176Y	VOL nobber	Front unit	K	C13037	C13037	Front unit	
VOL nobber	VOL nobber	Front unit	K	C13038	C13038	Front unit	
VIL key rubber	VIL key rubber	Front unit	K	C13039	C13039	Front unit	
Cushion	Cushion	Front unit	K	C13040	C13040	Front unit	
FG0218	Front case	Front unit	K	C13041	C13041	Front unit	
FG0235	Resistor	Front unit	K	C13042	C13042	Front unit	
FG0242	Power key rubber	Front unit	K	C13043	C13043	Front unit	
FG0243	16key rubber	Front unit	K	C13044	C13044	Front unit	
FM0088	Panel	Front unit	K	C13045	C13045	Front unit	
KZ0051	Front case	Front unit	K	C13046	C13046	Front unit	
KZ0080	#3#K02-00-02	Front unit	K	C13047	C13047	Front unit	
#3#N02-02-02	Front unit	Front unit	K	C13048	C13048	Front unit	
Metal fixture	Front unit	Front unit	K	C13049	C13049	Front unit	
CPU shield	Front unit	Front unit	K	C13050	C13050	Front unit	
Panel sheet	Front case	Front unit	K	C13051	C13051	Front unit	
Packing	Packing	Front unit	K	C13052	C13052	Front unit	
Packing	Packing	Front unit	K	C13053	C13053	Front unit	
Packing	Packing	Front unit	K	C13054	C13054	Front unit	
Packing	Packing	Front unit	K	C13055	C13055	Front unit	
Packing	Packing	Front unit	K	C13056	C13056	Front unit	
Packing	Packing	Front unit	K	C13057	C13057	Front unit	
Packing	Packing	Front unit	K	C13058	C13058	Front unit	
Packing	Packing	Front unit	K	C13059	C13059	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13060	C13060	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13061	C13061	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13062	C13062	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13063	C13063	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13064	C13064	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13065	C13065	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13066	C13066	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13067	C13067	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13068	C13068	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13069	C13069	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13070	C13070	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13071	C13071	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13072	C13072	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13073	C13073	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13074	C13074	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13075	C13075	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13076	C13076	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13077	C13077	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13078	C13078	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13079	C13079	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13080	C13080	Front unit	
Protector Ni-Cd	Carton 5 sets	Front unit	K	C13081	C13081	Front unit	
Protector Ni-Cd							

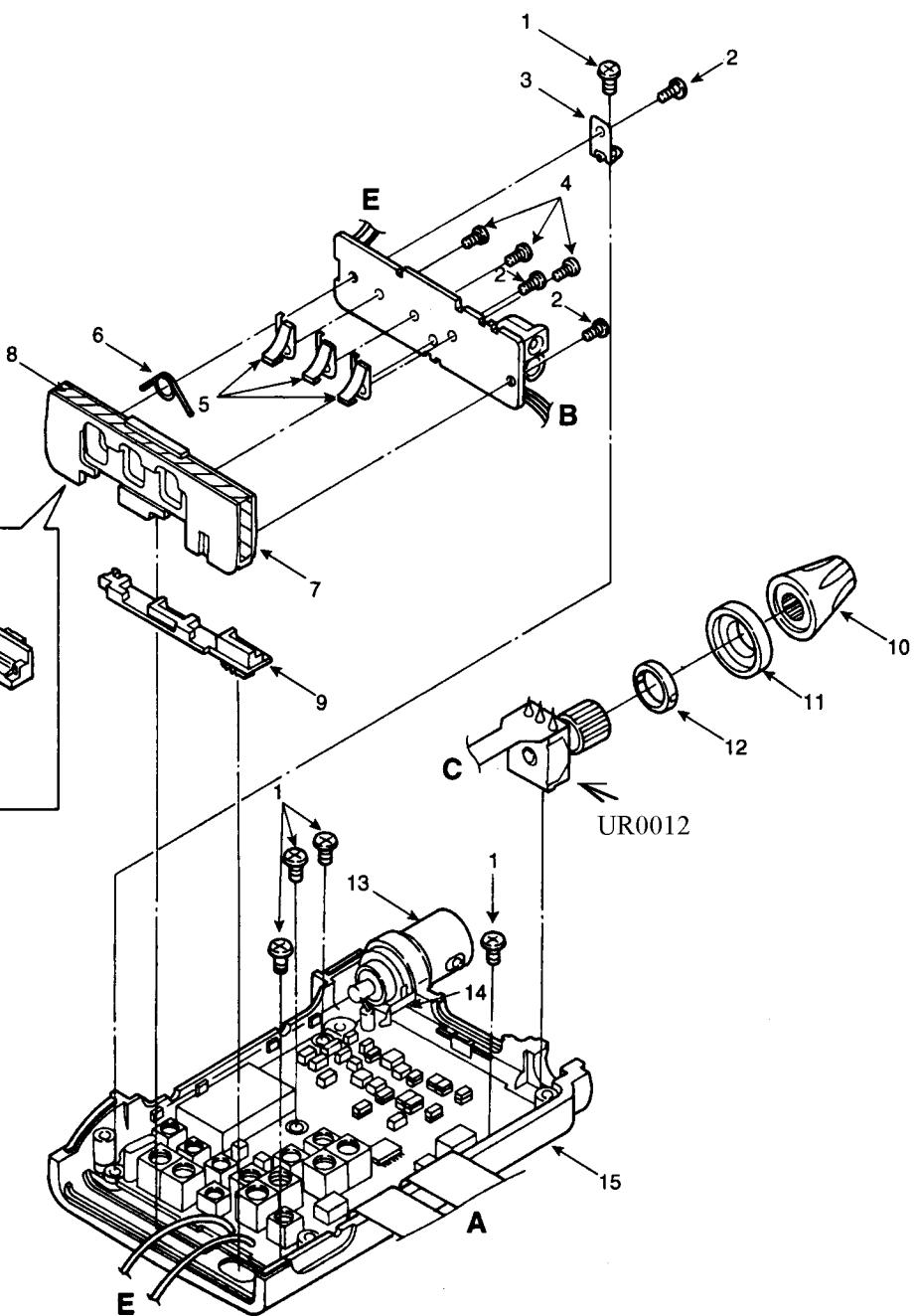
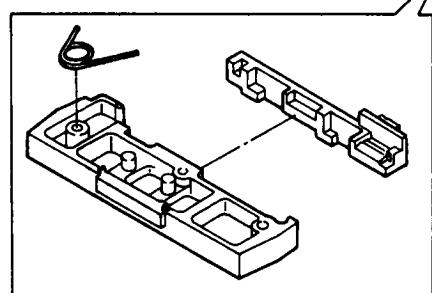
Ref. No.	Part No.	Part Name	IF Unit	Ver.	Ref. No.	Part No.	Part Name	Ver.
C38	C10706	C1608LF1E104ZTA			R367	RK3001	XP1501-TX	
C300	C3014	C1608LF1E104ZTA	X01072		R368	RK3022	DTCA1425ETL	
C301	C3013	TMCNA1A225MTR	X01086		R369	RK3034	25K425-1B X13 X14	
C302	C3013	TMCNA1A225MTR	X0033		R370	RK3026	DTIC1425ETL	
C303	C3047	C1608LF1E104ZTA	X01086		R371	RK3054	25C738TE85L	
C304	C3058	TMCSC1EAT75MTR	X01050		R372	RK3026	25A1213V	
C305	C3055	C1608LF1E104ZTA	X01050		R373	RK3026	DTIA1425ETL	
C306	C3023	C1608LF1E104ZTA	X01050		R374	RK3049	DTIA1425ETL	
C307	C3114	EMW107BL105MTR	X01057		R375	RK3064	DTIA1425ETL	
C308	C3047	C1608LF1E104ZTA	X0108		R376	RK3076	25C64-9-TLN	
C309	C3058	C1608LF1E104ZTA	X0108		R377	RK3038	25C64-9-TLN	
C310	C3104	C2012S1E104ZTA	X0108		R378	RK3062	25C64-9-TLN	
C311	C3069	C1608LF1E104ZTA	X0108		R379	RK3040	25C64-9-TLN	
C312	C3047	TMCNA1A225MTR	X0108		R380	RK3001	ER136GSY0R0V	
C313	C313	C1608LF1E104ZTA	X0113		R381	RK3022	ER136GSYJ040V	
C314	C30216	TMCNA1A225MTR	X0115		R382	RK3054	ER136GSYJ223V	
C315	C3047	C1608LF1E104ZTA	X0115		R383	RK3001	ER136GSY0R0V	
C316	C3047	C1608LF1E104ZTA	X0116		R384	RK3038	ER136GSYJ02AV	
C317	C3104	C2012S1E104ZTA	X0117		R385	RK3038	ER136GSYJ104V	
C318	C3069	C1608LF1E104ZTA	X0118		R386	RK3040	ER136GSYJ102V	
C319	C3104	C1608LF1E104ZTA	X0118		R387	RK3040	ER136GSYJ104V	
C320	C3047	C1608LF1E104ZTA	X0119		R388	RK3034	ER136GSYJ0R0V	
C321	C313	C1608LF1E104ZTA	X0119		R389	RK3026	ER136GSYJ101V	
C322	C30213	TMCNA1A225MTR	X0119		R390	RK3059	ER136GSYJ103V	
C325	C3115	C1608LF1E104ZTA	X0119		R391	RK3026	ER136GSYJ221V	
C326	C3047	C1608LF1E104ZTA	X0119		R392	RK3038	ER136GSYJ040V	
C327	C3047	C1608LF1E104ZTA	X0119		R393	RK3034	ER136GSYJ102V	
C328	C320	C1608LF1E104ZTA	X0119		R394	RK3026	ER136GSYJ103V	
C329	C3047	C1608LF1E104ZTA	X0120		R395	RK3059	ER136GSYJ105V	
C330	C3055	C1608LF1E104ZTA	X0120		R396	RK3026	ER136GSYJ223V	
C331	C30213	TMCNA1A225MTR	X0120		R397	RK3059	ER136GSYJ103V	
C332	C3047	C1608LF1E104ZTA	X0120		R398	RK3059	ER136GSYJ104V	
C335	C3115	C1608LF1E104ZTA	X0120		R399	RK3026	ER136GSYJ101V	
C336	C3115	C1608LF1E104ZTA	X0120		R400	RK3059	ER136GSYJ103V	
C337	C3047	C1608LF1E104ZTA	X0120		R401	RK3059	ER136GSYJ102V	
C338	C3047	C1608LF1E104ZTA	X0120		R402	RK3059	ER136GSYJ103V	
C339	C3069	C1608LF1E104ZTA	X0120		R403	RK3054	ER136GSYJ0R0V	
C340	C3016	C1608LF1E104ZTA	X0121		R404	RK3059	ER136GSYJ104V	
C341	C3047	C1608LF1E104ZTA	X0121		R405	RK3026	ER136GSYJ102V	
C342	C3143	C1608LF1E104ZTA	X0121		R406	RK3038	ER136GSYJ104V	
C343	C3136	C1608LF1E104ZTA	X0121		R407	RK3038	ER136GSYJ102V	
C344	C3136	C1608LF1E104ZTA	X0121		R408	RK3050	ER136GSYJ103V	
C345	C30213	C1608LF1E104ZTA	X0121		R409	RK3061	ER136GSYJ123V	
C346	C3047	C1608LF1E104ZTA	X0121		R410	RK3059	ER136GSYJ103V	
C347	C3047	C1608LF1E104ZTA	X0121		R411	RK3059	ER136GSYJ104V	
C348	C3047	C1608LF1E104ZTA	X0121		R412	RK3030	ER136GSYJ102V	
C349	C3104	C1608LF1E104ZTA	X0121		R413	RK3082	ER136GSYJ040V	
C350	C30213	C1608LF1E104ZTA	X0121		R414	RK3050	ER136GSYJ103V	
C351	C3047	C1608LF1E104ZTA	X0121		R415	RK3020	ER136GSYJ102V	
C352	C30213	C1608LF1E104ZTA	X0121		R416	RK3034	ER136GSYJ103V	
C353	C3047	C1608LF1E104ZTA	X0121		R417	RK3059	ER136GSYJ104V	
C354	C3047	C1608LF1E104ZTA	X0121		R418	RK3059	ER136GSYJ103V	
C355	C3047	C1608LF1E104ZTA	X0121		R419	RK3059	ER136GSYJ104V	
C356	C3115	C1608LF1E104ZTA	X0121		R420	RK3050	ER136GSYJ103V	
C357	C3047	C1608LF1E104ZTA	X0121		R421	RK3074	ER136GSYJ102V	
C358	C3047	C1608LF1E104ZTA	X0121		R422	RK3030	ER136GSYJ102V	
C359	C3047	C1608LF1E104ZTA	X0121		R423	RK3038	ER136GSYJ104V	
C360	C3047	C1608LF1E104ZTA	X0121		R424	RK3050	ER136GSYJ103V	
C361	C3047	C1608LF1E104ZTA	X0121		R425	RK3047	ER136GSYJ102V	
C362	C3047	C1608LF1E104ZTA	X0121		R426	RK3059	ER136GSYJ103V	
C363	C3047	C1608LF1E104ZTA	X0121		R427	RK3059	ER136GSYJ104V	
C364	C3047	C1608LF1E104ZTA	X0121		R428	RK3050	ER136GSYJ103V	
C365	C3047	C1608LF1E104ZTA	X0121		R429	RK3059	ER136GSYJ104V	
C366	C3047	C1608LF1E104ZTA	X0121		R430	RK3059	ER136GSYJ103V	
C367	C3047	C1608LF1E104ZTA	X0121		R431	RK3074	ER136GSYJ102V	
C368	C3047	C1608LF1E104ZTA	X0121		R432	RK3052	ER136GSYJ104V	
C369	C3047	C1608LF1E104ZTA	X0121		R433	RK3059	ER136GSYJ103V	
C370	C3047	C1608LF1E104ZTA	X0121		R434	RK3059	ER136GSYJ102V	
C371	C3047	C1608LF1E104ZTA	X0121		R435	RK3059	ER136GSYJ103V	
C372	C3047	C1608LF1E104ZTA	X0121		R436	RK3059	ER136GSYJ104V	
C373	C3047	C1608LF1E104ZTA	X0121		R437	RK3059	ER136GSYJ103V	
C374	C3047	C1608LF1E104ZTA	X0121		R438	RK3059	ER136GSYJ104V	
C375	C3047	C1608LF1E104ZTA	X0121		R439	RK3059	ER136GSYJ103V	
C376	C3047	C1608LF1E104ZTA	X0121		R440	RK3059	ER136GSYJ104V	
C377	C3047	C1608LF1E104ZTA	X0121		R441	RK3059	ER136GSYJ103V	
C378	C3047	C1608LF1E104ZTA	X0121		R442	RK3059	ER136GSYJ102V	
C379	C3047	C1608LF1E104ZTA	X0121		R443	RK3059	ER136GSYJ103V	
C380	C3047	C1608LF1E104ZTA	X0121		R444	RK3059	ER136GSYJ104V	
C381	C3047	C1608LF1E104ZTA	X0121		R445	RK3059	ER136GSYJ103V	
C382	C3047	C1608LF1E104ZTA	X0121		R446	RK3059	ER136GSYJ102V	
C383	C3047	C1608LF1E104ZTA	X0121		R447	RK3059	ER136GSYJ103V	
C384	C3047	C1608LF1E104ZTA	X0121		R448	RK3059	ER136GSYJ104V	
C385	C3047	C1608LF1E104ZTA	X0121		R449	RK3059	ER136GSYJ103V	
C386	C3047	C1608LF1E104ZTA	X0121		R450	RK3059	ER136GSYJ102V	
C387	C3047	C1608LF1E104ZTA	X0121		R451	RK3059	ER136GSYJ103V	
C388	C3047	C1608LF1E104ZTA	X0121		R452	RK3059	ER136GSYJ104V	
C389	C3047	C1608LF1E104ZTA	X0121		R453	RK3059	ER136GSYJ103V	
C390	C3047	C1608LF1E104ZTA	X0121		R454	RK3059	ER136GSYJ102V	
C391	C3047	C1608LF1E104ZTA	X0121		R455	RK3059	ER136GSYJ103V	
C392	C3047	C1608LF1E104ZTA	X0121		R456	RK3059	ER136GSYJ104V	
C393	C3047	C1608LF1E104ZTA	X0121		R457	RK3059	ER136GSYJ103V	
C394	C3047	C1608LF1E104ZTA	X0121		R458	RK3059	ER136GSYJ102V	
C395	C3047	C1608LF1E104ZTA	X0121		R459	RK3059	ER136GSYJ103V	
C396	C3047	C1608LF1E104ZTA	X0121		R460	RK3059	ER136GSYJ104V	
C397	C3047	C1608LF1E104ZTA	X0121		R461	RK3059	ER136GSYJ103V	
C398	C3047	C1608LF1E104ZTA	X0121		R462	RK3059	ER136GSYJ102V	
C399	C3047	C1608LF1E104ZTA	X0121		R463	RK3059	ER136GSYJ103V	
C400	C3047	C1608LF1E104ZTA	X0121		R464	RK3059	ER136GSYJ104V	
C401	C3047	C1608LF1E104ZTA	X0121		R465	RK3059	ER136GSYJ103V	
C402	C3047	C1608LF1E104ZTA	X0121		R466	RK3059	ER136GSYJ102V	
C403	C3047	C1608LF1E104ZTA	X0121		R467	RK3059	ER136GSYJ103V	
C404	C3047	C1608LF1E104ZTA	X0121		R468	RK3059	ER136GSYJ104V	
C405	C3047	C1608LF1E104ZTA	X0121		R469	RK3059	ER136GSYJ103V	
C406	C3047	C1608LF1E104ZTA	X0121		R470	RK3059	ER136GSYJ102V	
C407	C3047	C1608LF1E104ZTA	X0121		R471	RK3059	ER136GSYJ103V	
C408	C3047	C1608LF1E104ZTA	X0121		R472	RK3059	ER136GSYJ104V	
C409	C3047	C1608LF1E104ZTA	X0121		R473	RK3059	ER136GSYJ103V	
C410	C3047	C1608LF1E104ZTA	X0121		R474	RK3059	ER136GSYJ102V	
C411	C3047	C1608LF1E104ZTA	X0121		R475	RK3059	ER136GSYJ103V	
C412	C3047	C1608LF1E104ZTA	X0121		R476	RK3059	ER136GSYJ104V	
C413	C3047	C1608LF1E104ZTA	X0121		R477	RK3059	ER136GSYJ103V	
C414	C3047	C1608LF1E104ZTA	X0121		R478	RK3059	ER136GSYJ102V	
C415	C3047	C1608LF1E104ZTA	X0121		R479	RK3059	ER136GSYJ103V	
C416	C3047	C1608LF1E104ZTA	X0121		R480	RK3059	ER136GSYJ104V	
C417	C3047	C1608LF1E104ZTA	X0121		R481	RK3059	ER136GSYJ103V	
C418	C3047	C1608LF1E104ZTA	X0121		R482	RK3059	ER136GSYJ102V	
C419	C3047	C1608LF1E104ZTA	X0121		R483	RK3059	ER136GSYJ103V	
C420	C3047	C1608LF1E104ZTA	X0121		R484	RK3059	ER136GSYJ104V	
C421	C3047	C1608LF1E104ZTA	X0121		R485	RK3059	ER136GSYJ103V	
C422	C3047	C1608LF1E104ZTA	X0121		R486	RK3059	ER136GSYJ102V	
C423	C3047	C1608LF1E104ZTA	X0121		R487	RK3059	ER136GSYJ103V	
C424	C3047	C1608LF1E104ZTA	X0121		R488	RK3059	ER136GSYJ104V	
C425	C3047	C1608LF1E104ZTA	X0121		R489	RK3059	ER136GSYJ103V	
C426	C3047	C1608LF1E104ZTA	X0121		R490	RK3059	ER136GSYJ102V	
C427	C3047	C1608LF1E104ZTA	X0121		R491	RK3059	ER136GSYJ103V	
C428	C3047	C1608LF1E104ZTA	X0121		R492	RK3059	ER136GSYJ104V	
C429	C3047	C1608LF1E104ZTA	X0121		R493	RK3059	ER136GSYJ103V	
C430	C3047	C1608LF1E104ZTA	X0121		R494	RK3059	ER136GSYJ102V	
C431	C3047	C1608LF1E10						

PARTS LIST

Ref. No.	Parts Name	Var.	Ref. No.	Parts Name	Var.	Ref. No.	Parts Name	Var.	Ref. No.	Parts No.	Parts Name	Var.
C801	CHARGE Unit		C500	C18047		D501	XL0036		R544	RK3060	ERJ3GSY-J88V	
C802	C18031		C501	C50237	C1680C1H103KTA	D502	XL0036	SML-310MTT86	R546	RK3001	ERJ3GSY-080V	
C803	C5024		C502	C50237	TMCNAT1A75MTR	D503	XL0036	SML-310MTT86	R547	RK3038	ERJ3GSY-J102V	
C804	C50104		C503	CE0381	ECECOEL10AA	D504	XL0045	PS110IF-TA	R548	RK3026	ERJ3GSY-J101V	
C805	C5024		C504	CE0381	C1680C1H103KTA	D505	XL0045	PS110IF-TA	R549	RK3042	ERJ3GSY-J222V	
C806	C50055		C505	C5023	C1680C1H103KTA	D506	XL0045	PS110IF-TA	R550	RK3042	ERJ3GSY-J222V	
C807	C5023		C506	C5023	C1680C1H103KTA	D507	XL0045	PS10235L-AX-T2	R551	RK3054	ERJ3GSY-J102V	
C808	C5036		C507	C5023	C1680C1H103KTA	D508	XL0045	PS110IF-TA	R552	RK3058	ERJ3GSY-J102V	
C809	C5024		C508	C5023	TMCSC1E475MTR	D509	XL0045	MA729-TX	R553	RK3056	ERJ3GSY-J332V	
C810	U2PNU44NT(E12R)		C509	C5023	TMCND1V106MTR	D510	XL0050	TD47120W TR	R554	RK3056	ERJ3GSY-080V	
C811	NA111-TX		C510	C5023	TMCND1V107MTR	D511	XL0050	BU4094BCP-E2	R555	RK3050	ERJ3GSY-082V	
C812	U2PNU44NT(E12R)		C511	C5024	TMCNBI1A210AM	D512	XL0050	SA10235L-AX-T2	R556	RK3059	ERJ3GSY-085V	
C813	XD0130		C512	C5024	TMCNAD105MTR	D513	XL0050	TK11235MTR	R557	RK3038	ERJ3GSY-J101V	
C814	XD0294		C513	C5023	TMCND1V106MTR	D514	XL0047	TK11819MTR	R558	RK3026	ERJ3GSY-J271V	
C815	XD0294		C514	C5023	TMCNCA1A225MTR	D515	XL0046	TC75S151(TE85L)	R559	RK3031	ERJ3GSY-080V	
C816	XD0294		C515	C5023	TMCNCA1E475MTR	D516	XL0050	UP47120W TR	R560	RK3050	ERJ3GSY-J103V	
C817	XD0294		C516	C5023	TMCNBI1H103KTA	D517	XL0050	UD70876G	R561	RK3050	ERJ3GSY-J102V	
C818	XD0294		C517	C5023	TMCNBI1A225MTR	D518	XL0050	HNSV5V75TA-12	R562	RK3050	EXB1V102V	
C819	XD0294		C518	C5023	TMCNCD1V106MTR	D519	XL0050	SA00225SN2	R563	RK3009	EXB1V102V	
C820	XD0294		C519	C5023	TMCNCA1A225MTR	D520	XL0050	667MA-102N	R564	RK3008	EXB1V102V	
C821	XD0294		C520	C5023	TMCNCA1E475MTR	D521	XL0050	LCM-XH605	R565	RK3001	EXB1V102V	
C822	XD0294		C521	C5023	TMCNCA1A225MTR	D522	XL0050	DTB16076G	R566	RK3050	EXB1V102V	
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C824	XD0294		C523	C5021	C1680C1H1080UTA	D524	XL0050	TK13X14	R568	RK3050	EXB1V102V	
C825	XD0294		C524	C5021	C1680C1H1080UTA	D525	XL0052	UNMCNTA	R569	RK3050	EXB1V102V	
C826	XD0294		C525	C5021	C1680C1H1080UTA	D526	XL0052	UN5212-(X)	R570	RK3050	EXB1V102V	
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C830	XD0294		C530	C5021	C1680C1H1080UTA	D531	XL0050	UN0191	R574	RK3050	EXB1V102V	
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C832	XD0294		C532	C5023	C1680C1H1080UTA	D533	XL0050	UN0219	R576	RK3050	EXB1V102V	
C833	XD0294		C533	C5023	C1680C1H1080UTA	D534	XL0050	UN0219	R577	RK3050	EXB1V102V	
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C841	XD0294		C541	C5023	C1680C1H1080UTA	D542	XL0050	UN0219	R585	RK3050	EXB1V102V	
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C845	XD0294		C545	C5023	C1680C1H1080UTA	D546	XL0050	UN0219	R589	RK3050	EXB1V102V	
C846	XD0294		C546	C5023	C1680C1H1080UTA	D547	XL0050	UN0219	R590	RK3050	EXB1V102V	
C847	XD0294		C547	C5023	C1680C1H1080UTA	D548	XL0050	UN0219	R591	RK3050	EXB1V102V	
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C868	XD0294		C568	C5023	C1680C1H1080UTA	D569	XL0050	UN0219	R612	RK3050	EXB1V102V	
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C870	XD0294		C570	C5023	C1680C1H1080UTA	D571	XL0050	UN0219	R614	RK3050	EXB1V102V	
C871	XD0294		C571	C5023	C1680C1H1080UTA	D572	XL0050	UN0219	R615	RK3050	EXB1V102V	
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C873	XD0294		C573	C5023	C1680C1H1080UTA	D574	XL0050	UN0219	R617	RK3050	EXB1V102V	
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C877	XD0294		C577	C5023	C1680C1H1080UTA	D578	XL0050	UN0219	R621	RK3050	EXB1V102V	
C878	XD0294		C578	C5023	C1680C1H1080UTA	D579	XL0050	UN0219	R622	RK3050	EXB1V102V	
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C880	XD0294		C580	C5023	C1680C1H1080UTA	D581	XL0050	UN0219	R624	RK3050	EXB1V102V	
C881	XD0294		C581	C5023	C1680C1H1080UTA	D582	XL0050	UN0219	R625	RK3050	EXB1V102V	
C882	XD0294		C582	C5023	C1680C1H1080UTA	D583	XL0050	UN0219	R626	RK3050	EXB1V102V	
C883	XD0294		C583	C5023	C1680C1H1080UTA	D584	XL0050	UN0219	R627	RK3050	EXB1V102V	
C884	XD0294		C584	C5023	C1680C1H1080UTA	D585	XL0050	UN0219	R628	RK3050	EXB1V102V	
C885	XD0294		C585	C5023	C1680C1H1080UTA	D586	XL0050	UN0219	R629	RK3050	EXB1V102V	
C886	XD0294		C586	C5023	C1680C1H1080UTA	D587	XL0050	UN0219	R630	RK3050	EXB1V102V	
C887	XD0294		C587	C5023	C1680C1H1080UTA	D588	XL0050	UN0219	R631	RK3050	EXB1V102V	
C888	XD0294		C588	C5023	C1680C1H1080UTA	D589	XL0050	UN0219	R632	RK3050	EXB1V102V	
C889	XD0294		C589	C5023	C1680C1H1080UTA	D590	XL0050	UN0219	R633	RK3050	EXB1V102V	
C890	XD0294		C590	C5023	C1680C1H1080UTA	D591	XL0050	UN0219	R634	RK3050	EXB1V102V	
C891	XD0294		C591	C5023	C1680C1H1080UTA	D592	XL0050	UN0				

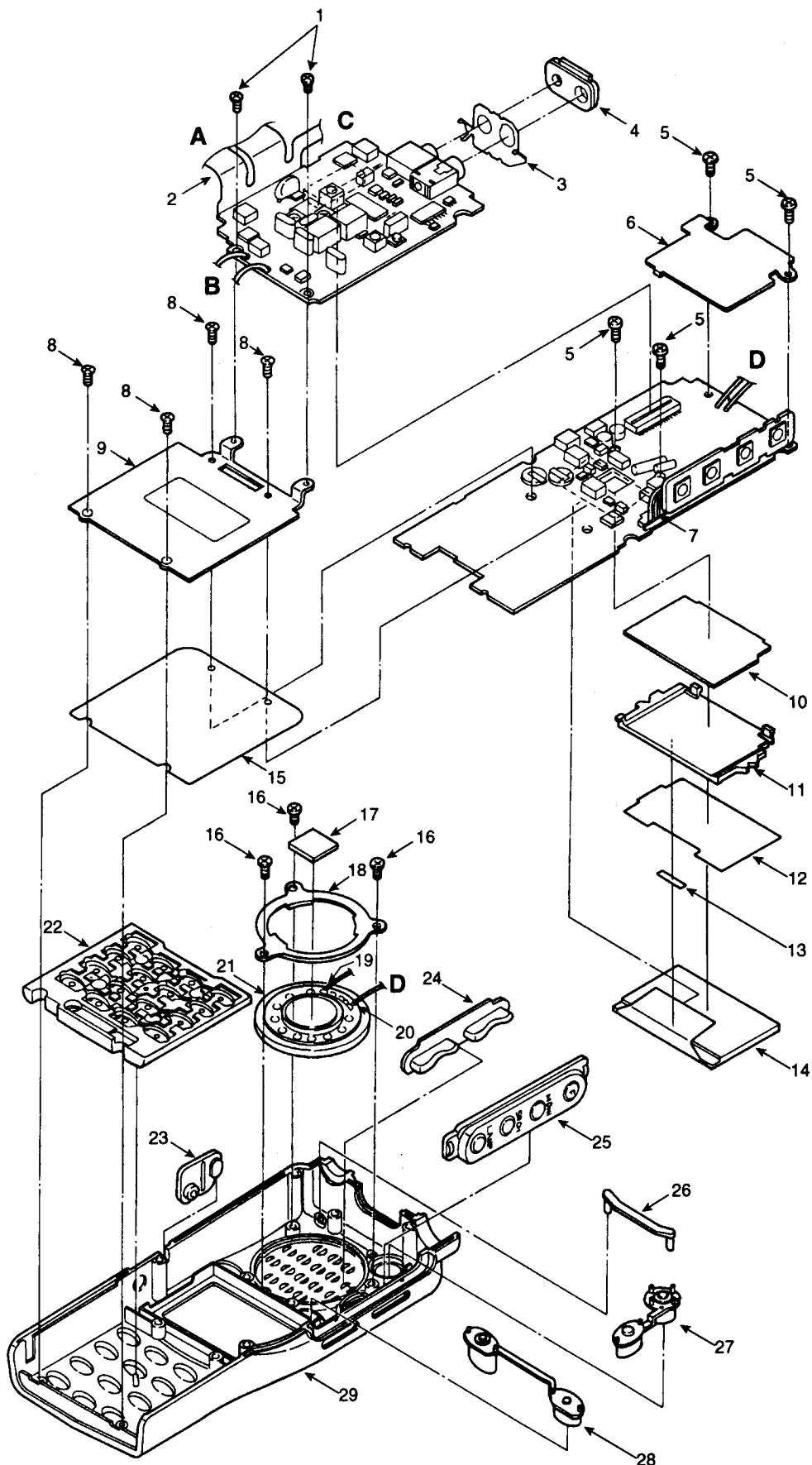
3) Charge/RF Unit

	Parts No.
1	AK0001
2	AX0001
3	TS0141
4	AF0020
5	SD0045
6	SC0008A
7	FP0093A
8	TS0110 (T/E version only)
9	FP0094
10	NK0042Y
11	FG0181Y
12	AN0012Y
13	UE0193AZ
14	FM0112
15	KB0064Y



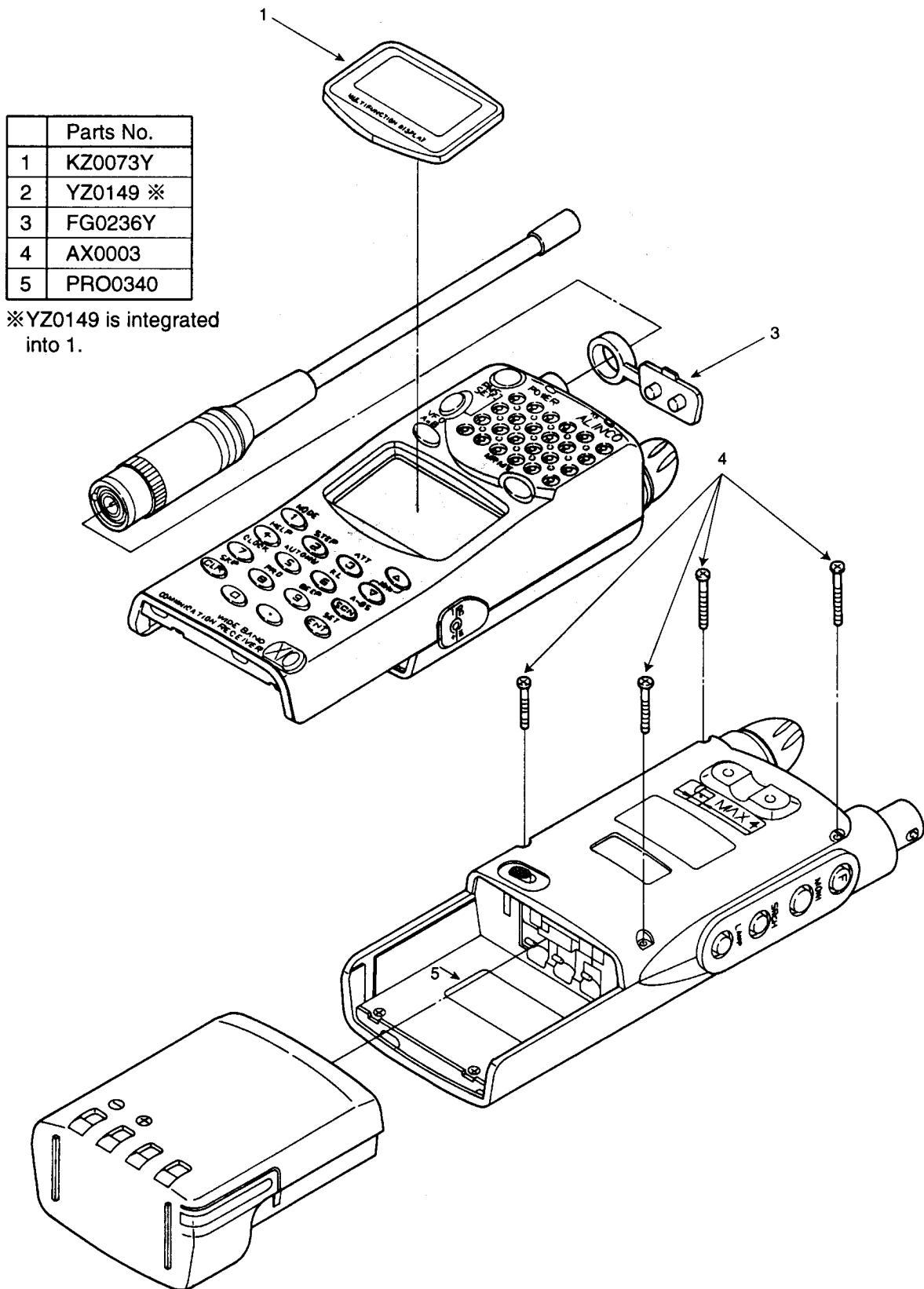
2) IF Unit/CPU Unit

	Parts No.
1	AF0020
2	uP0282
3	FM0100
4	FG0178Y
5	AP0004
6	TN006Z
7	uP0281
8	AX0002
9	FM0098
10	TL0017
11	DG0027
12	TL0020
13	TX0004
14	EL0037
15	TZ0064
16	AX0001
17	FG0218
18	ST0052
19	MKCL00AA
20	MNCLH2AA
21	ES0011
22	FG0255
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26	FG0242
27	FG0243Y
28	FG0177Y
29	KZ0051Y

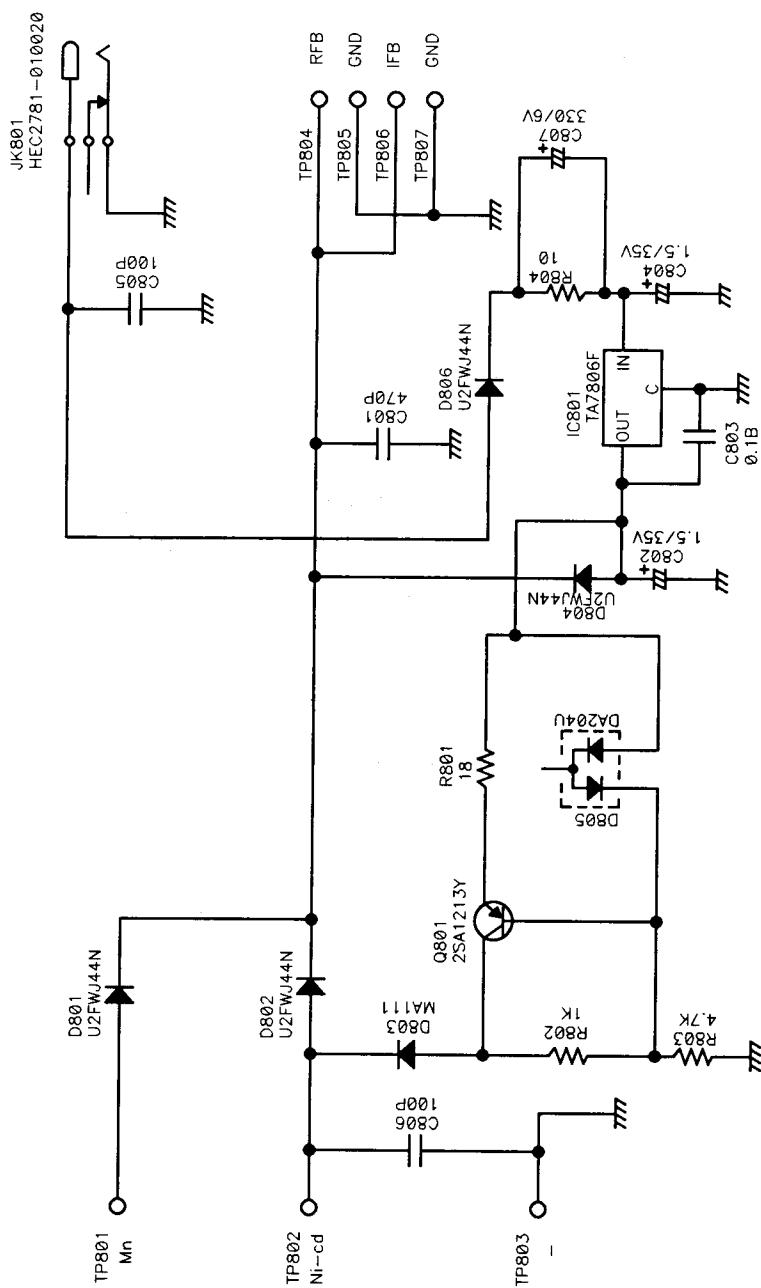


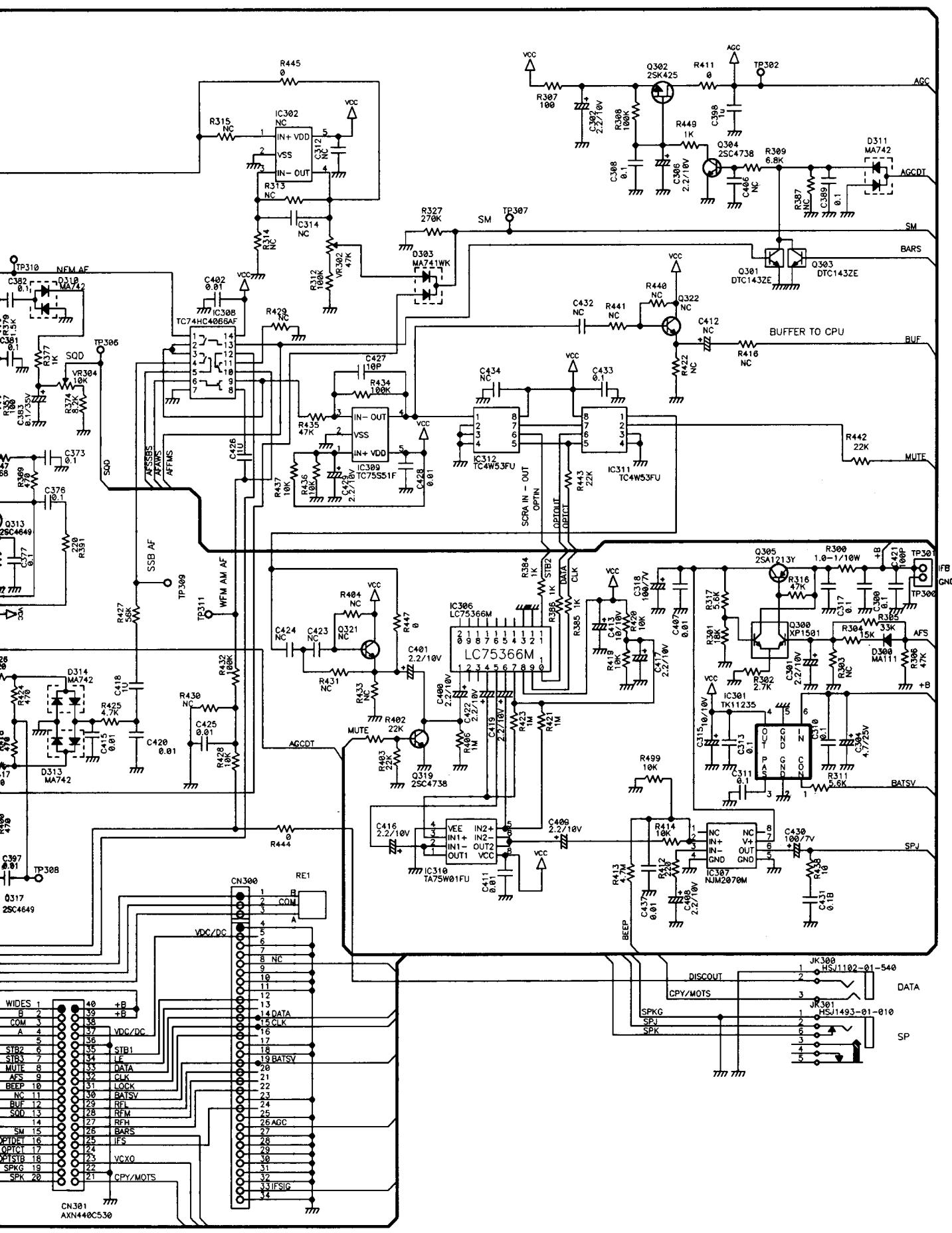
EXPLODED VIEW

1) Front/Rear View

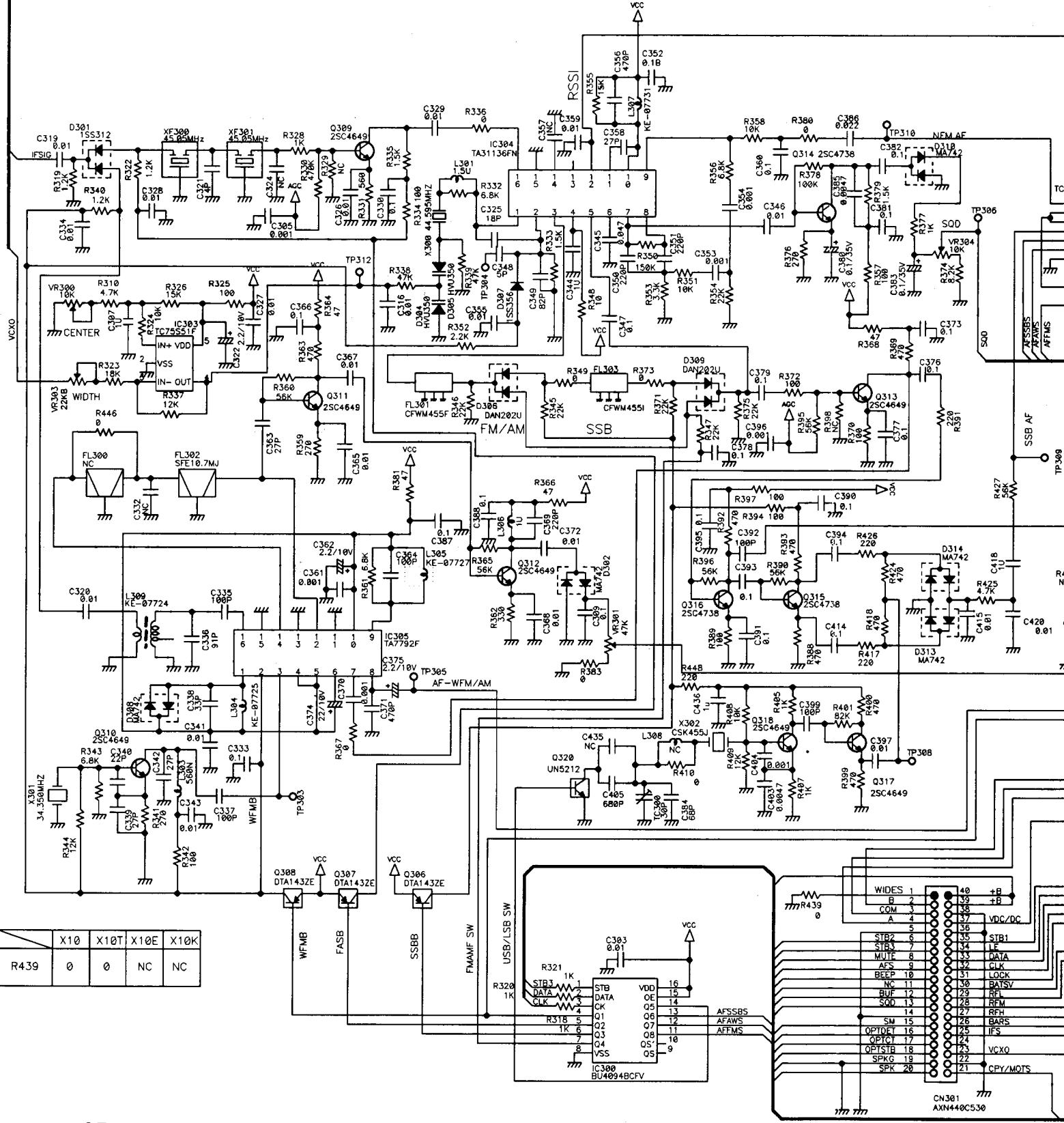


CHARGE Unit

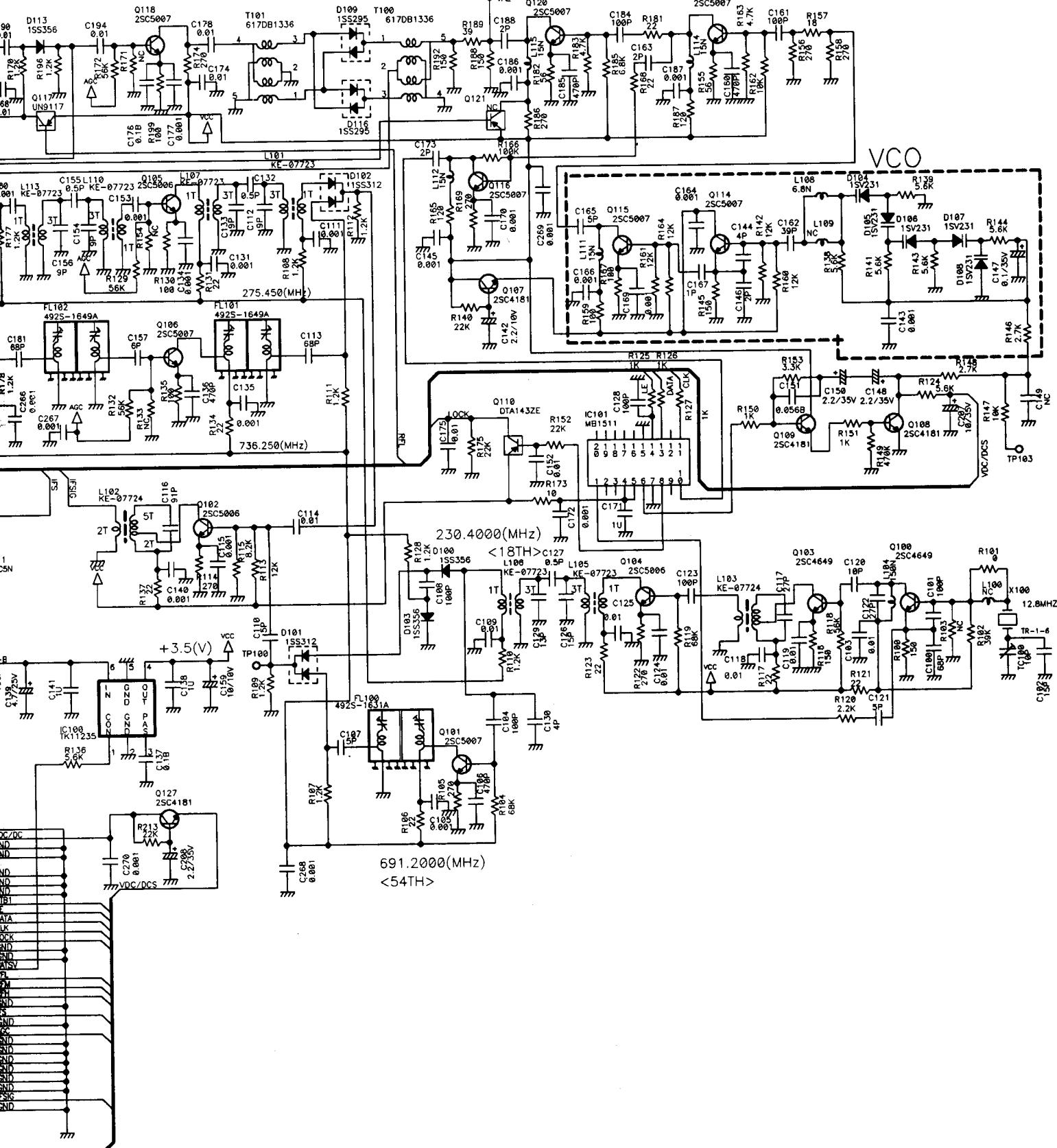




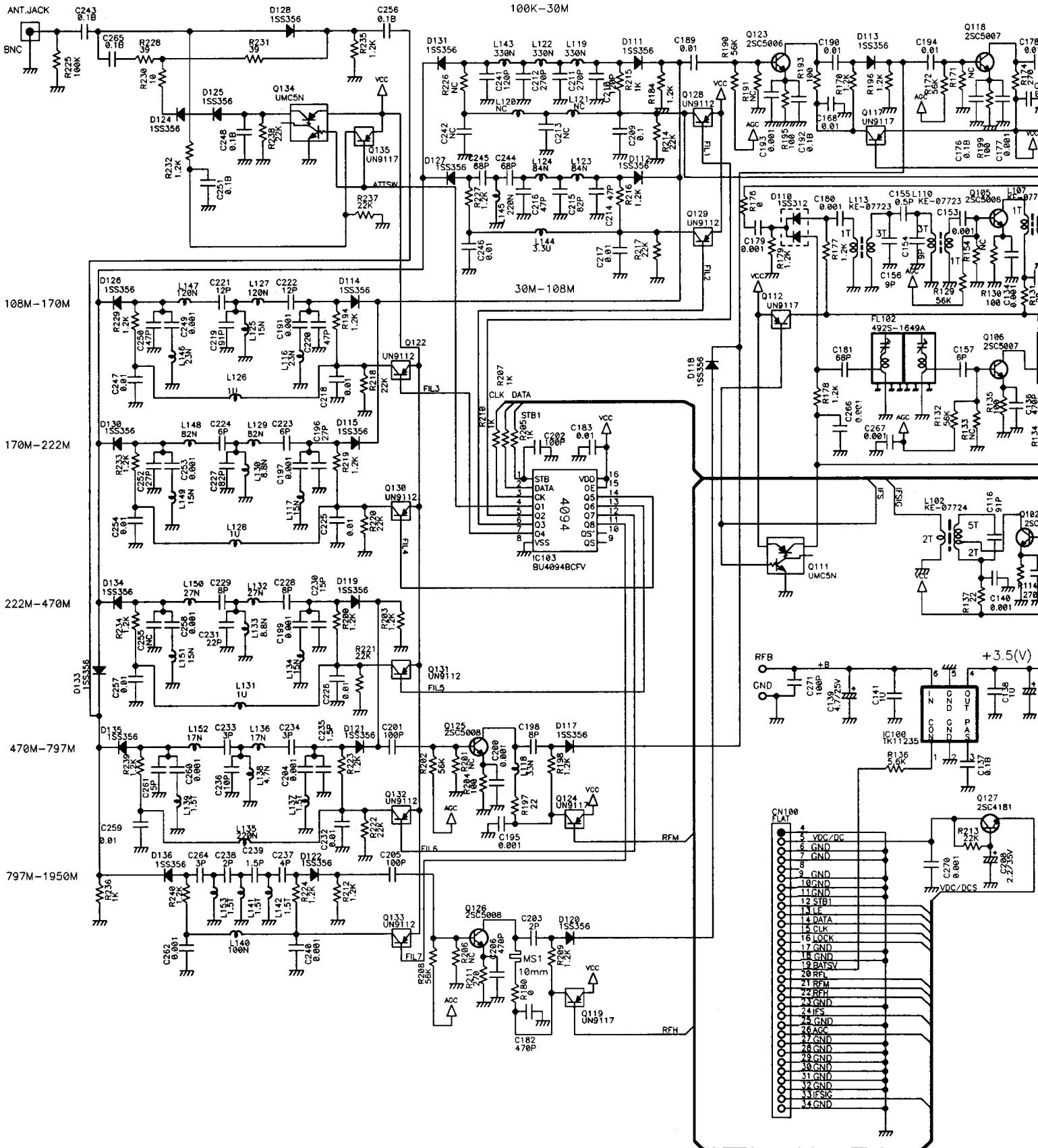
IF Unit

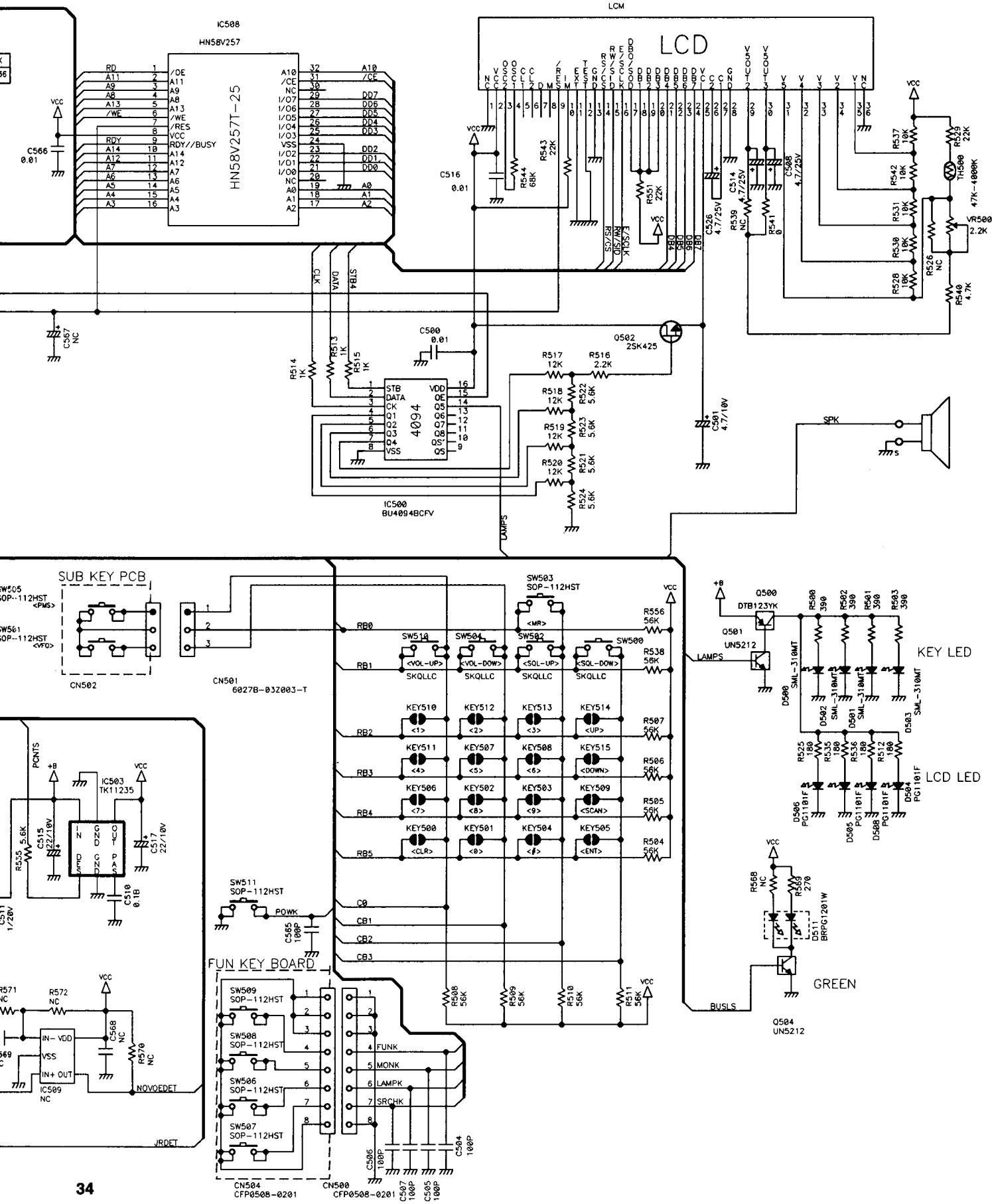


	X10	X10T	X10E	X10K
R439	0	0	NC	NC



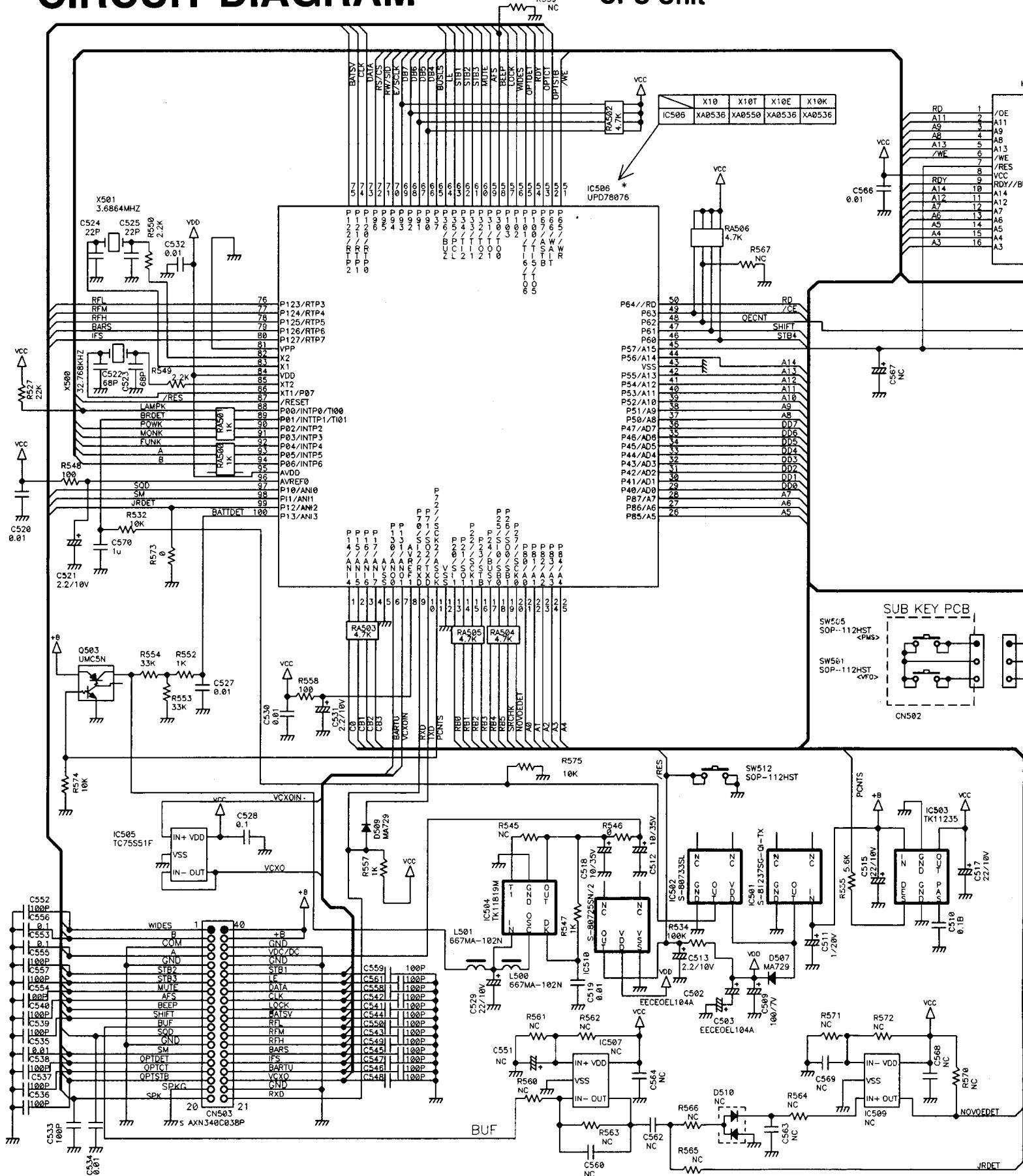
RF Unit



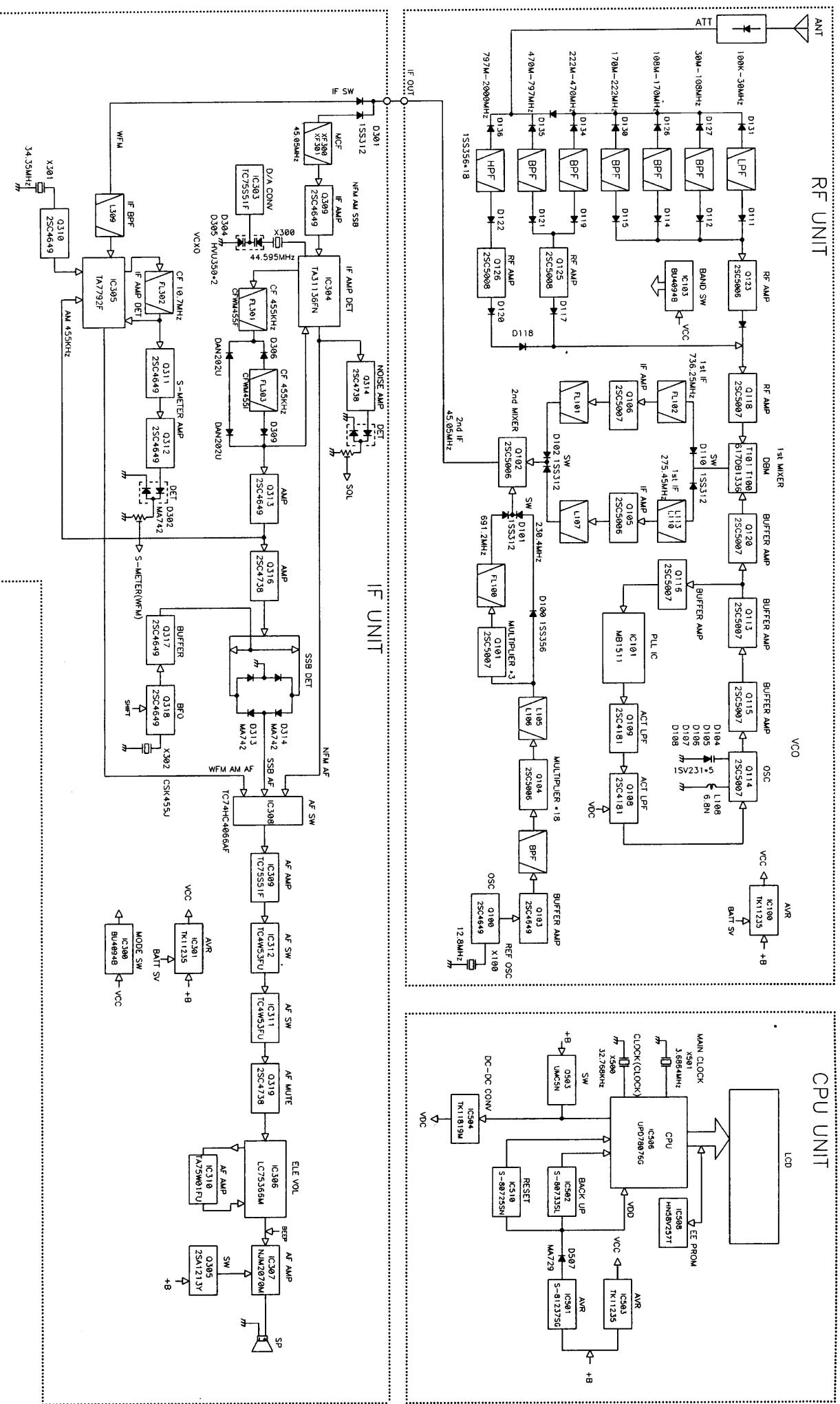


CIRCUIT DIAGRAM

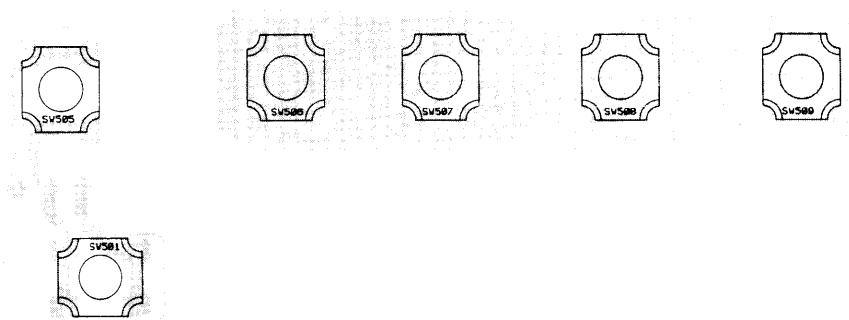
CPU Unit



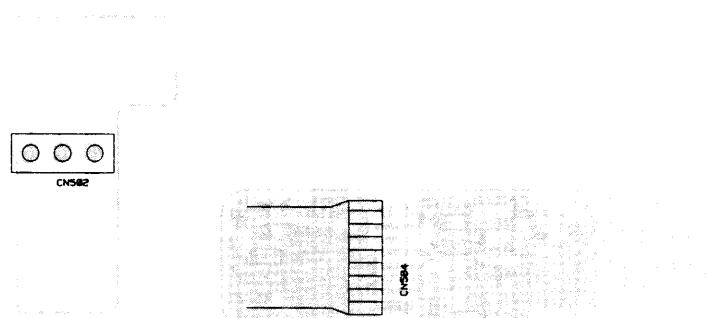
BLOCK DIAGRAM



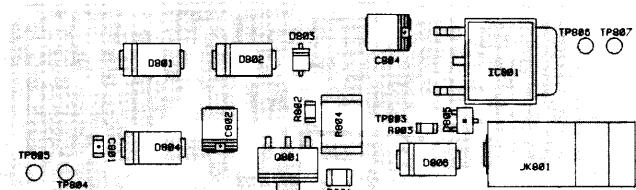
PTT SW Unit Side A



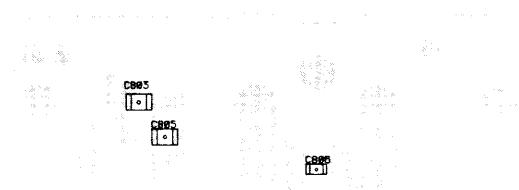
PTT SW Unit Side B



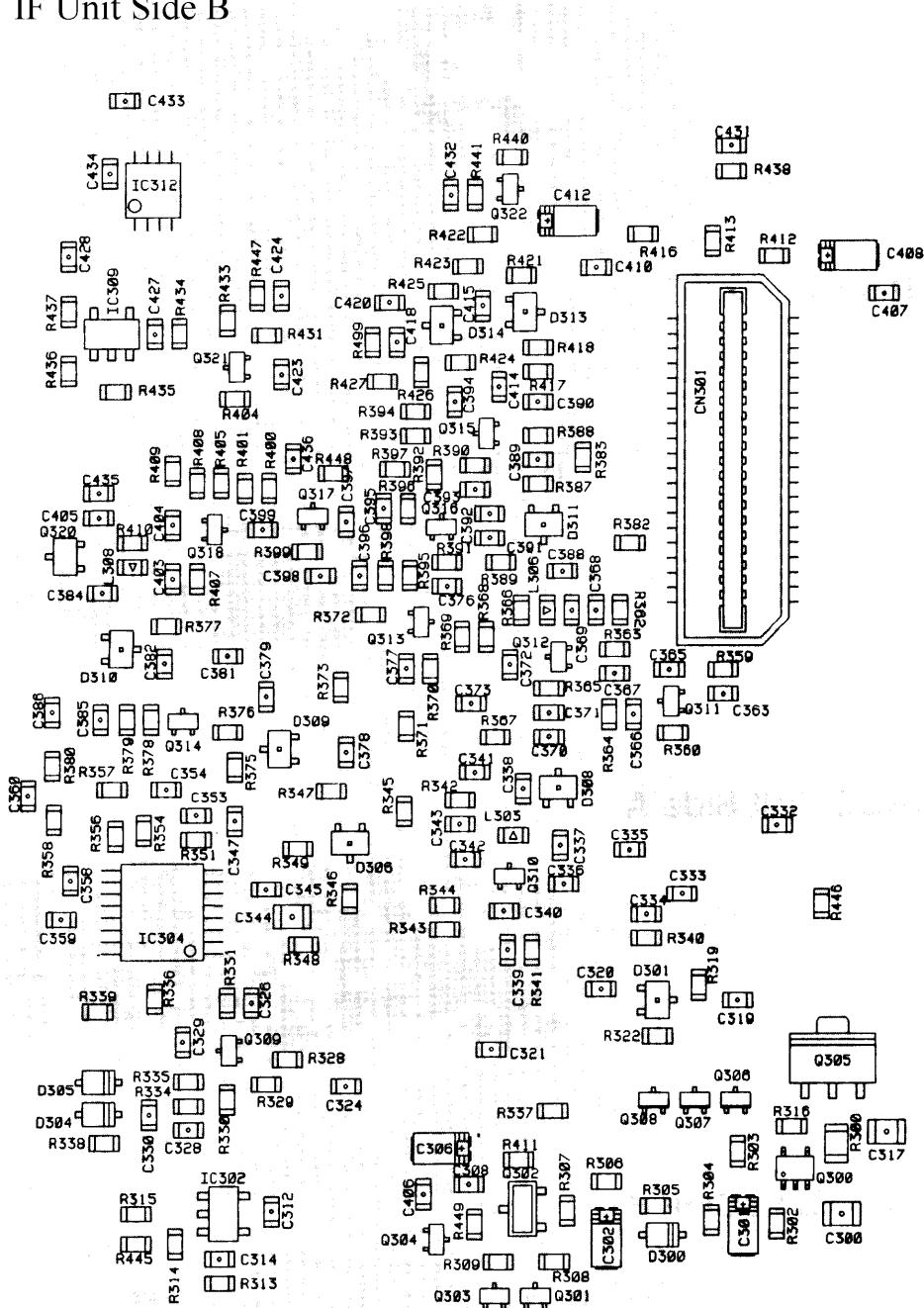
CHARGE Unit Side A



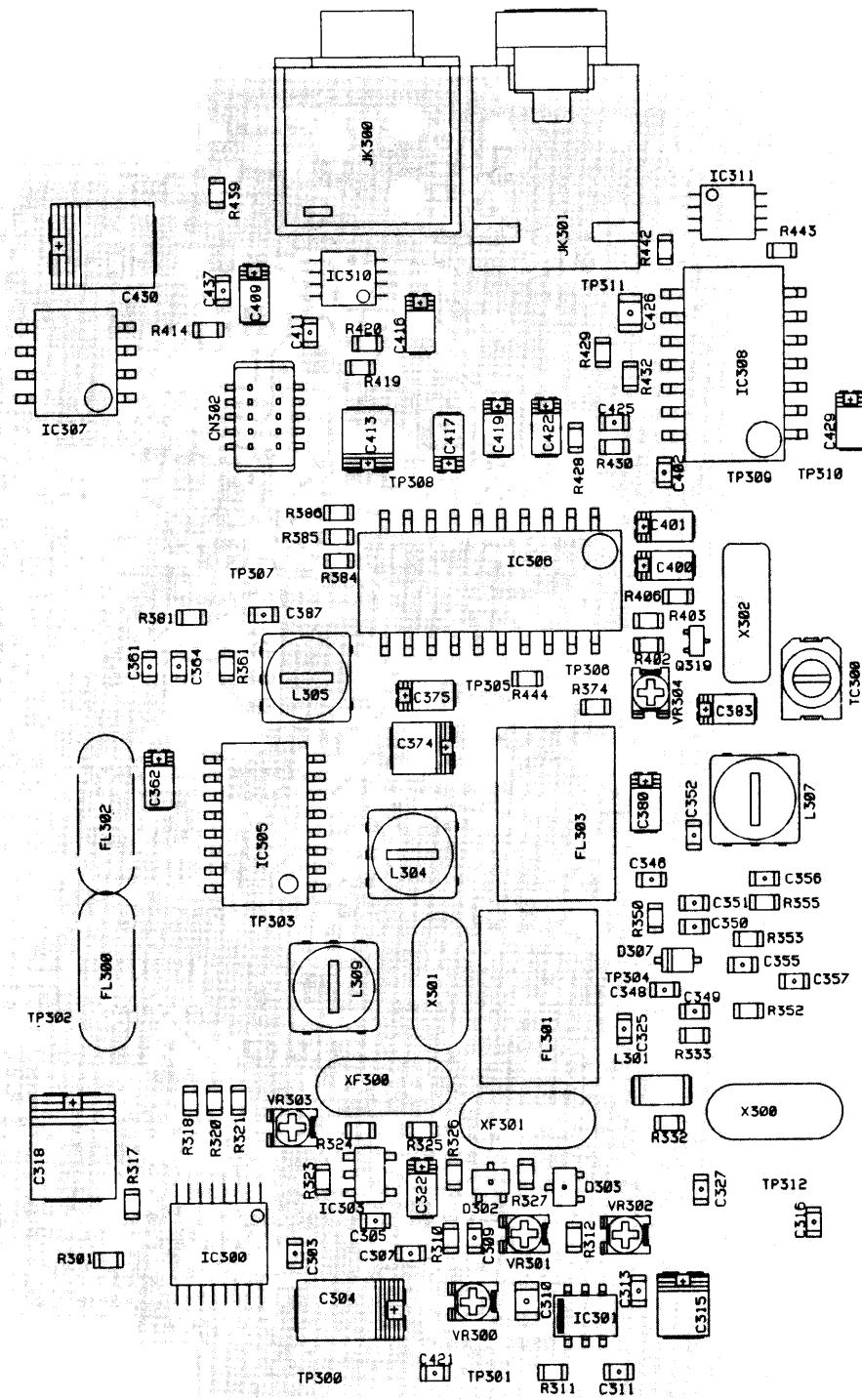
CHARGE Unit Side B



IF Unit Side B

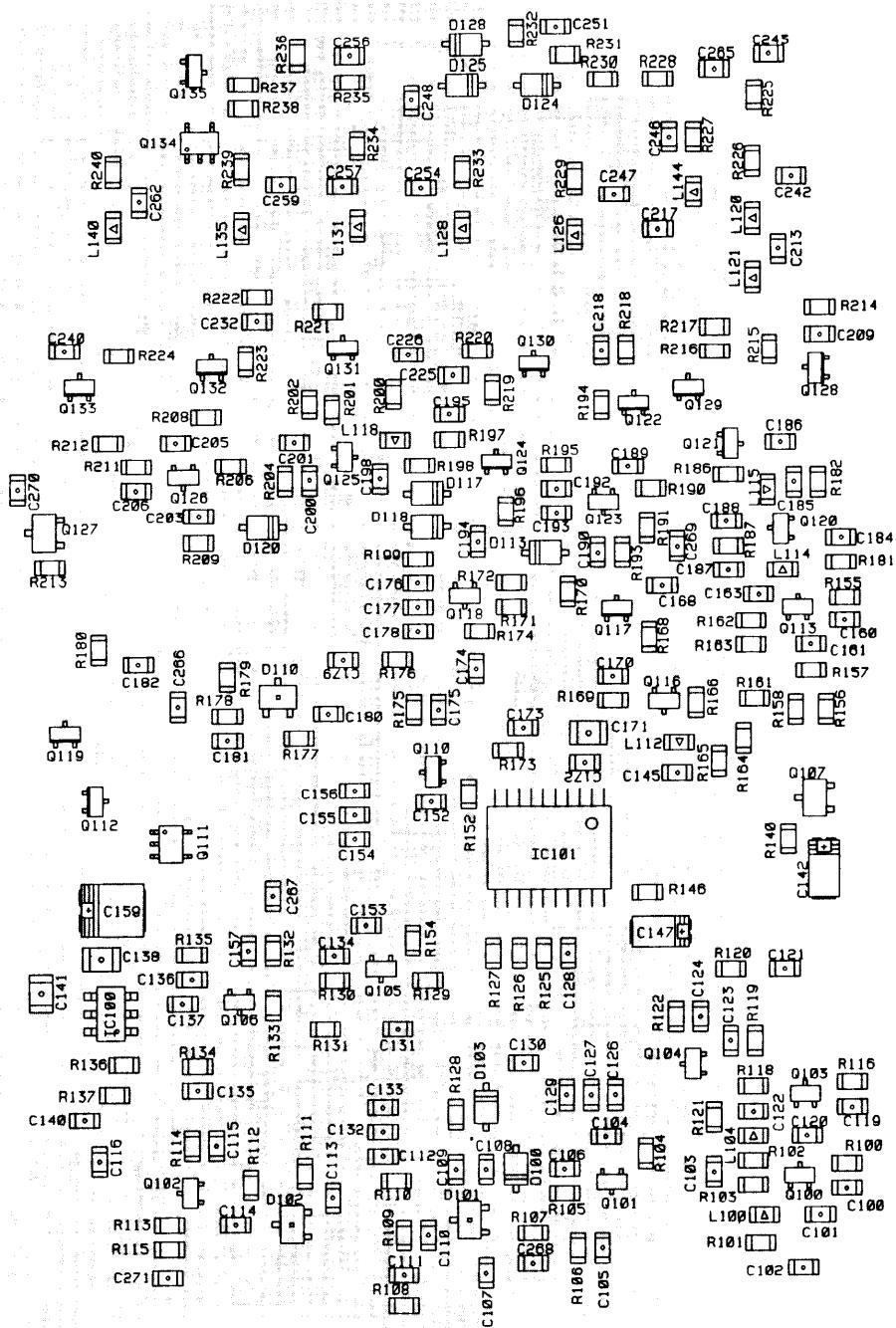


CN500

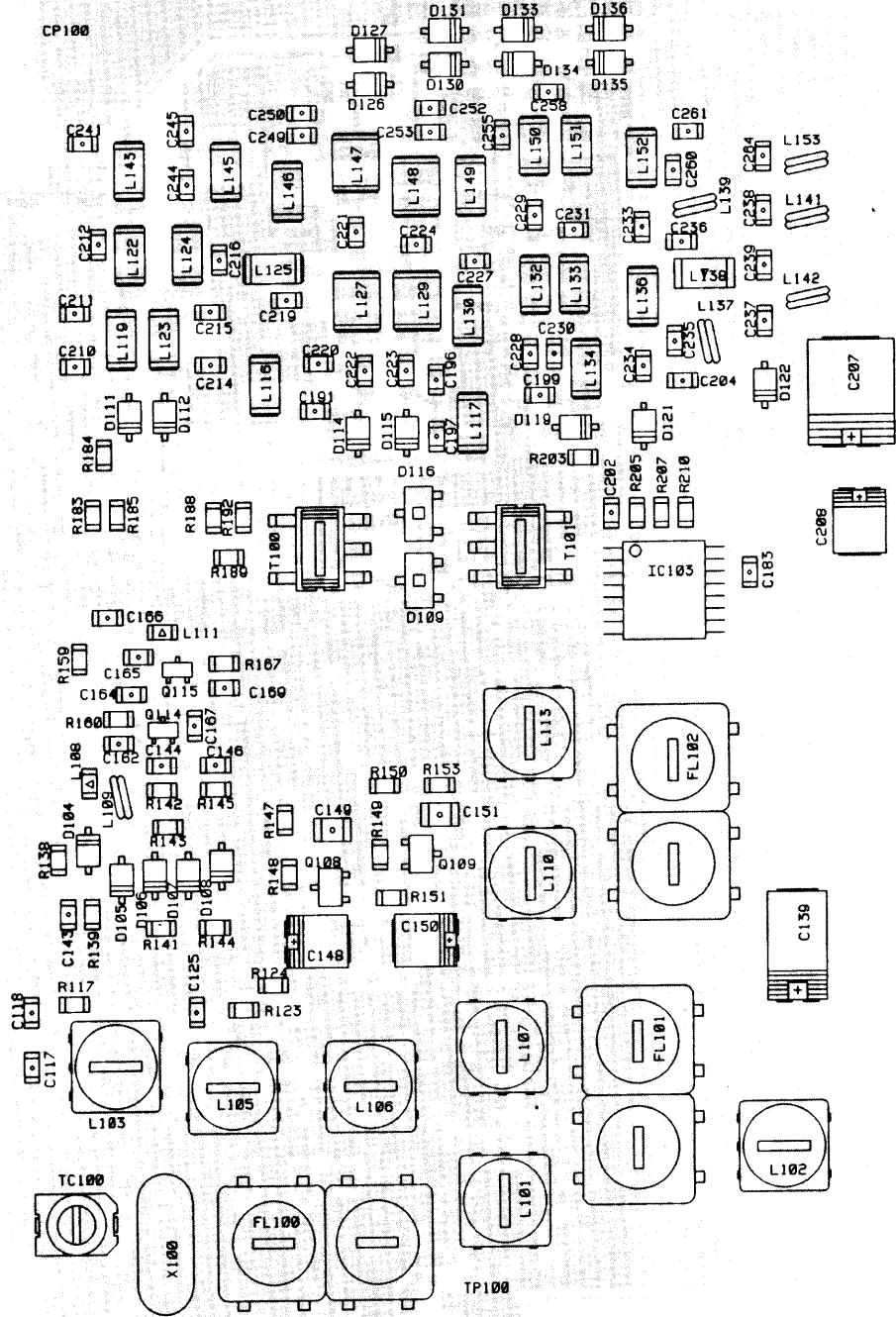


RF Unit Side B

CN100



RF Unit Side A



CPU Unit Side B

