

# 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

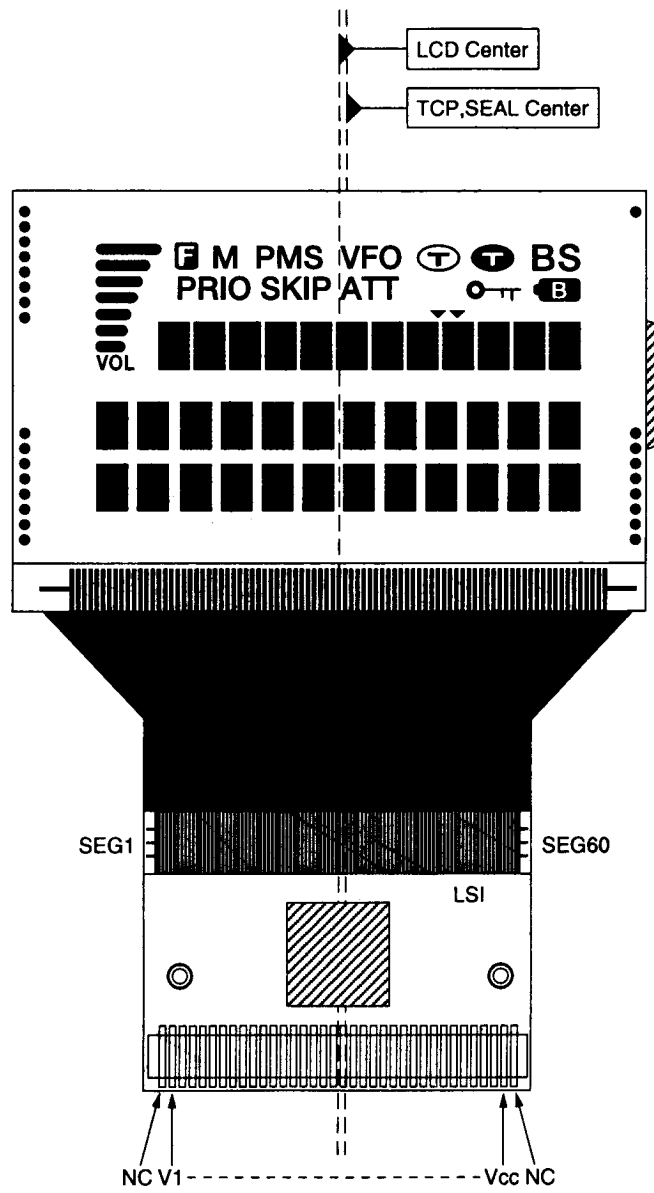
### Front-End Circuit

- 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

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

# 19) LCD Diagram

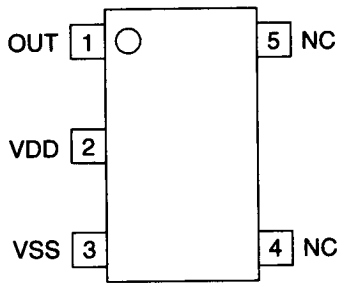


# 18) Transistor, Diode, and LED Outline Drawings

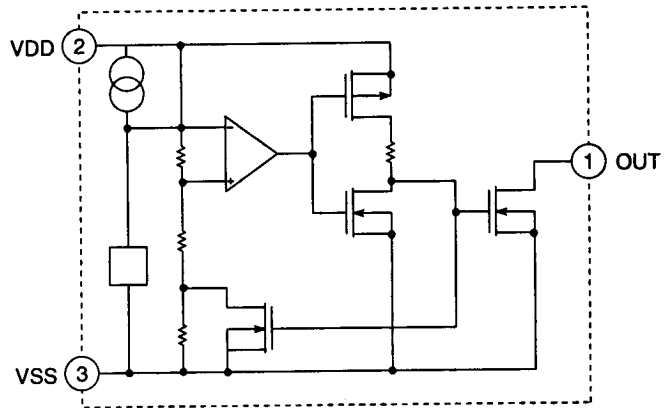
DA204U XD0130	DAN202U XD0230	MA742TX XD0250	MA741WK XD0252	1SS295 XD0306	1SS312 XD0307
1SV231 XD0260	1SS356 XD0272	MA111 XD0290	MA729 XD0291	U2FWJ44N XD0294	HVU350 XD0313
DTB123YK XU0155	XP1501TX XU0172	UN9112 XU0182	UN5212 XU0184	DTA143ZE XU0185	DTC143ZE XU0186
2SC4649 XT0108	2SC4181 XT0149	2SC4738 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)

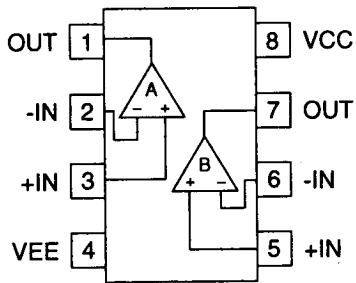
#### Pin Assignment



#### Block Diagram

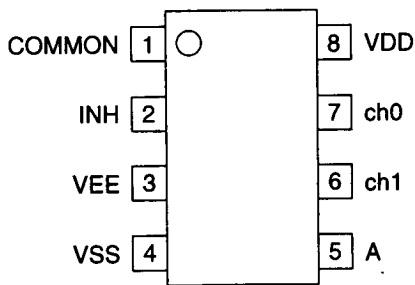


### 15) TA75W01FU-2 (XA0349)

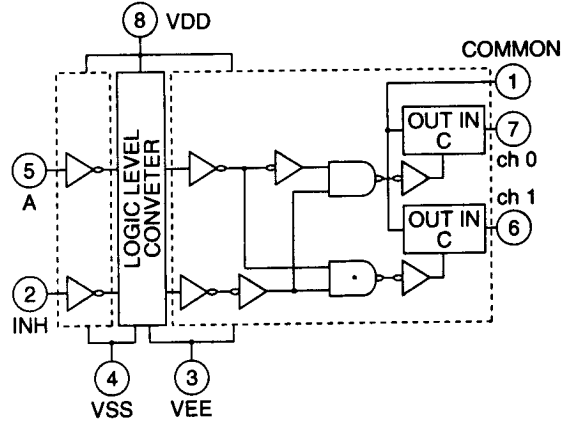


### 16) TC4W53FU (XA0348)

#### Pin Assignment

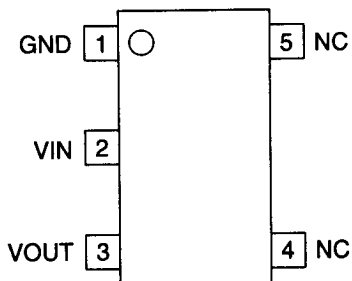


#### Block Diagram

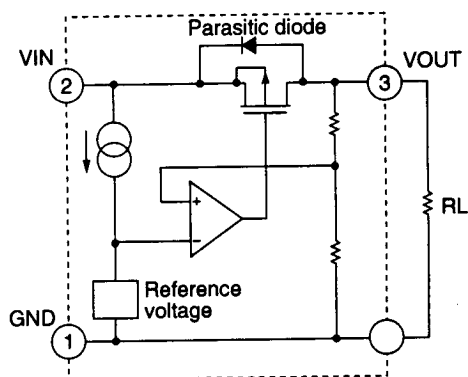


### 17) S-812XXSG (XA0358)

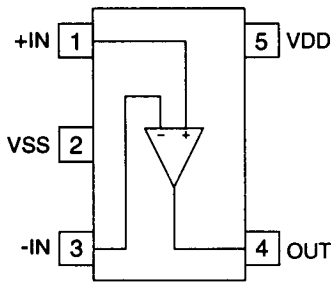
#### Pin Assignment



#### Block Diagram

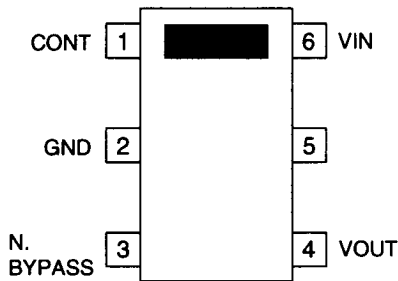


### 10) TC75S51F (XA0465)

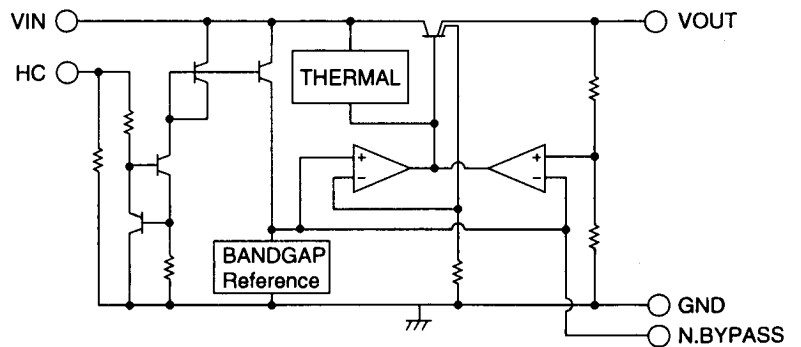


### 11) TK11235AM (XA0467)

#### Pin Assignment

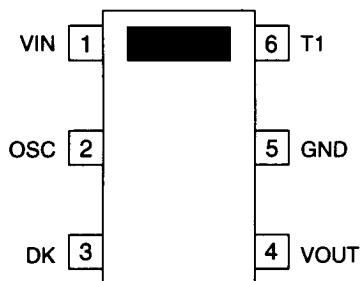


#### Block Diagram

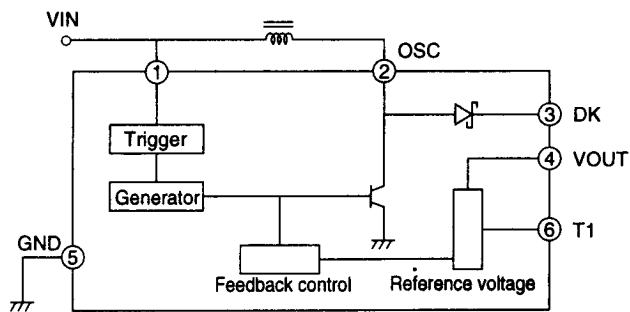


### 12) TK11819M (XA0468)

#### Pin Assignment

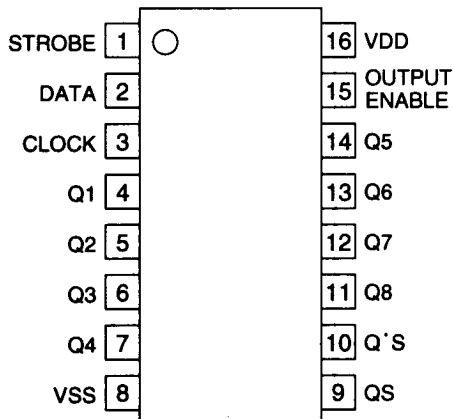


#### Block Diagram

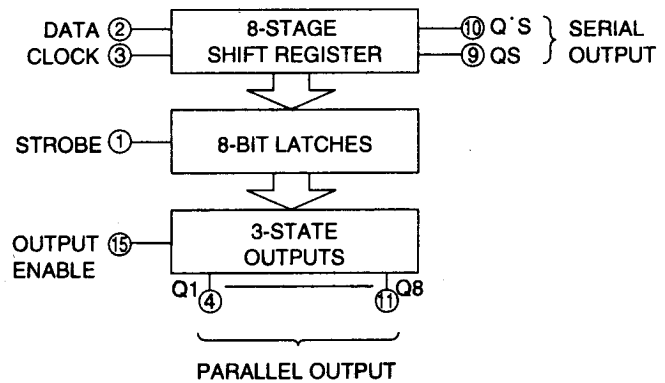


### 13) BU4094BCFV (XA0506)

#### Pin Assignment



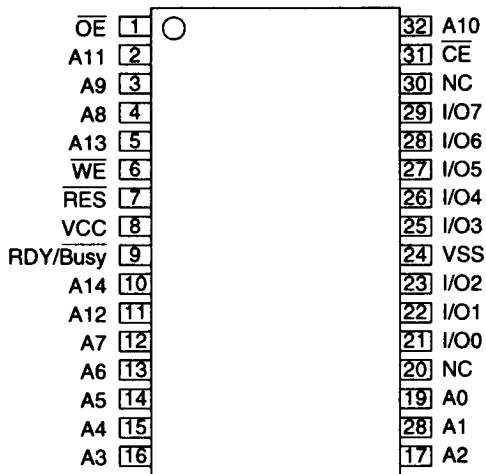
#### Block Diagram



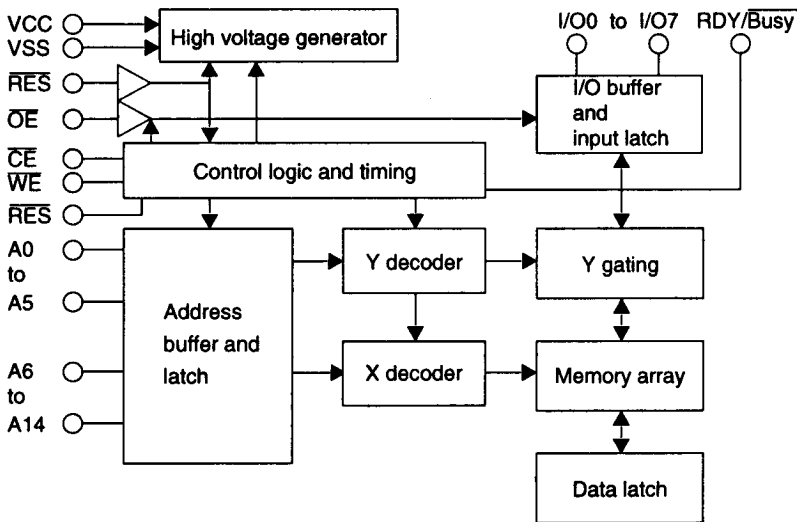


## 8) HN58V257A (XA0462)

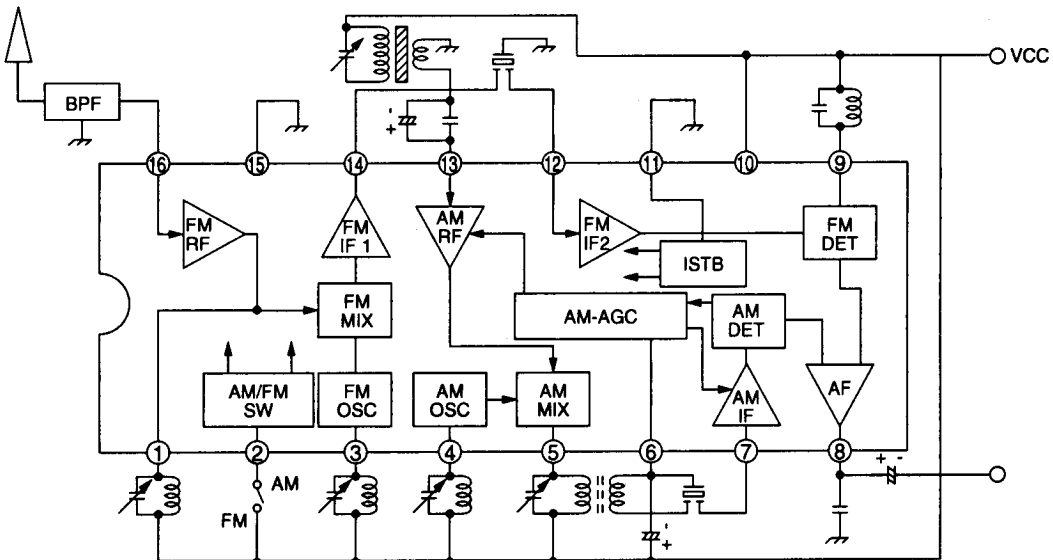
### Pin Assignment



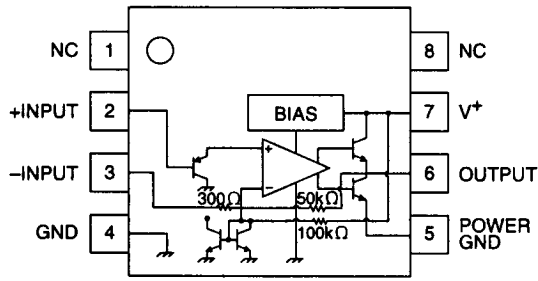
### Block Diagram



## 9) TA7792F (XA0464)

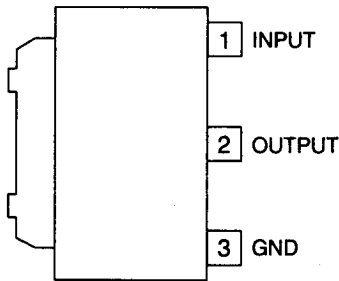


#### 4) NJM2070MT (XA0210)

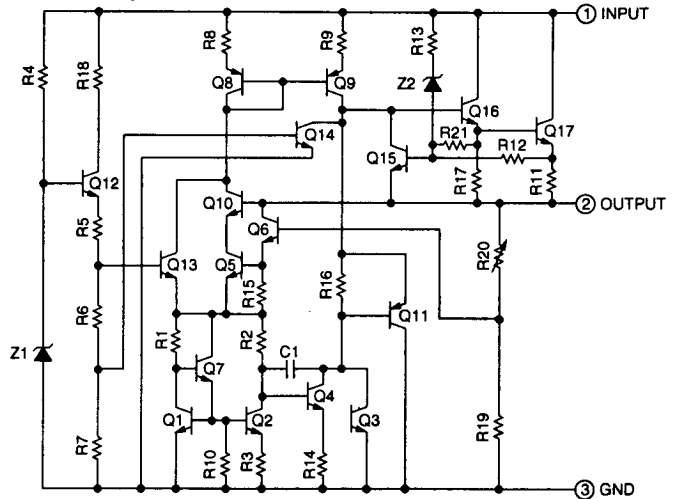


#### 5) TA7806F (XA0267)

Pin Assignment

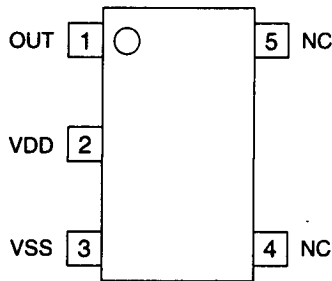


Block Diagram

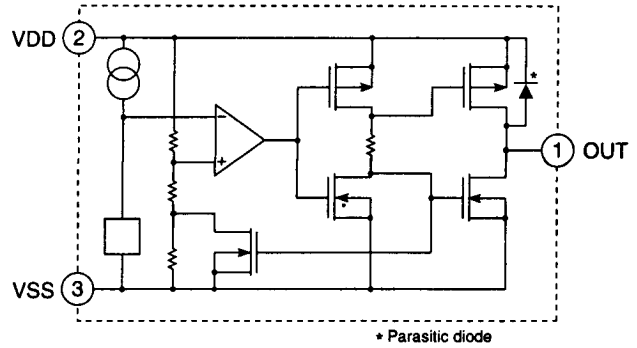


#### 6) S-80733SLAXT2 (XA0357)

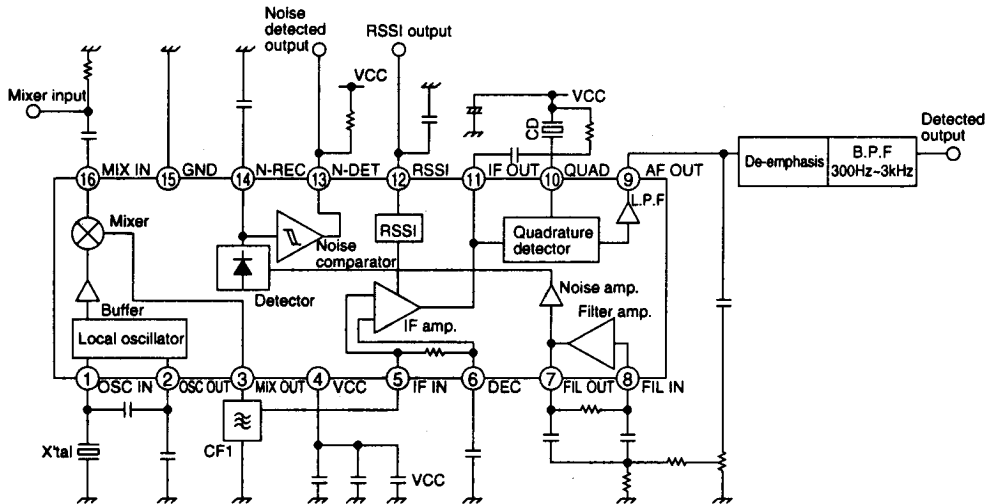
Pin Assignment



Block Diagram



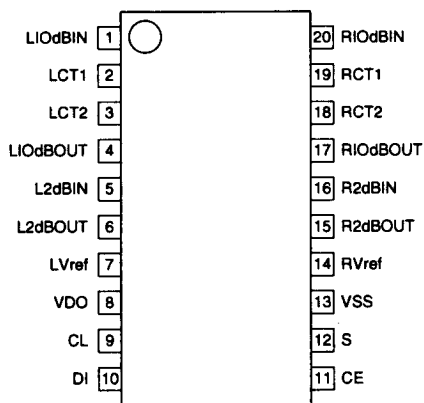
#### 7) TA31136FN (XA0404)



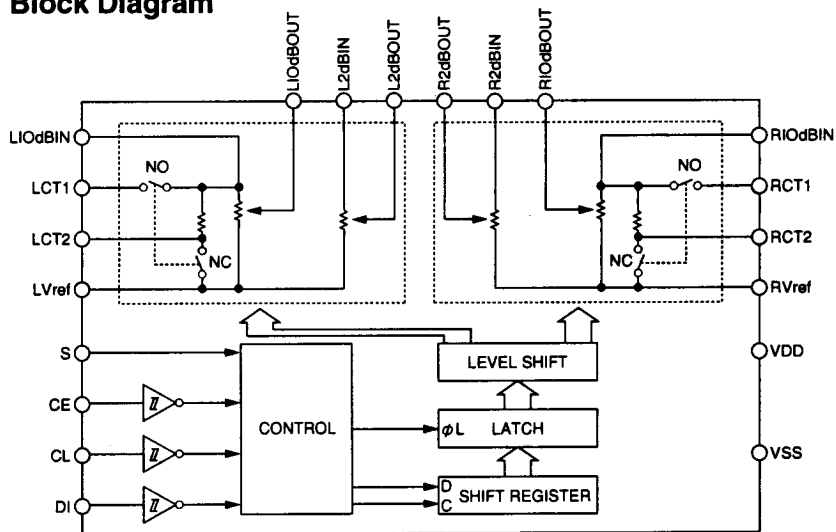
# SEMICONDUCTOR DATA

## 1) LC75366M (XA0345)

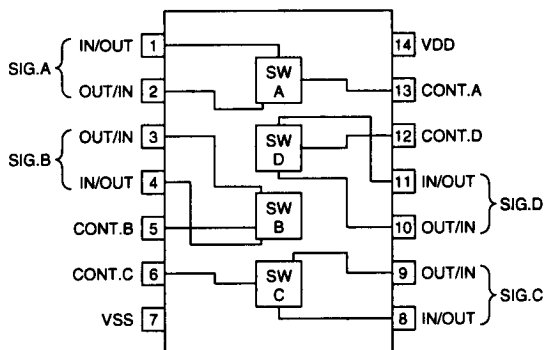
### Pin Assignment



### Block Diagram

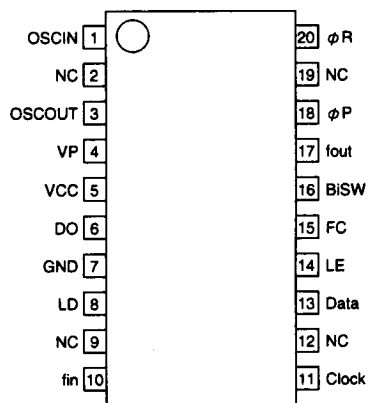


## 2) NJU4066BM (XA0095)

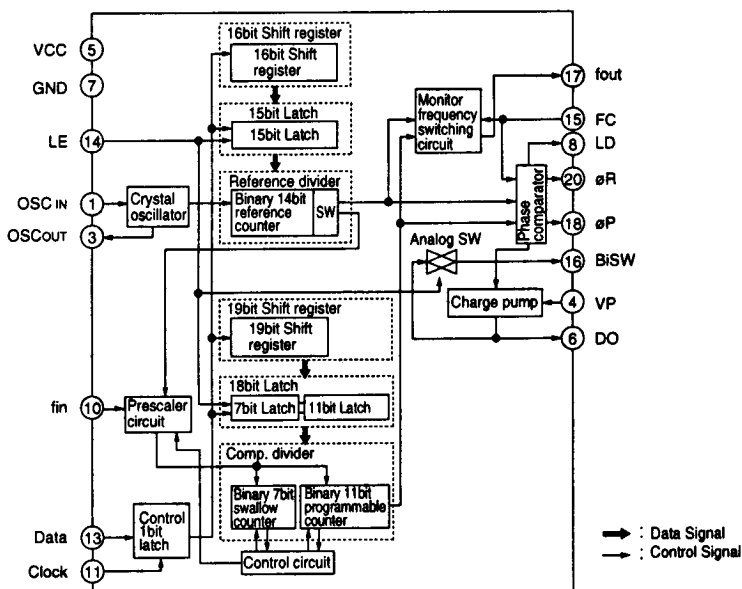


## 3) MB1511 (XA0173)

### Pin Assignment

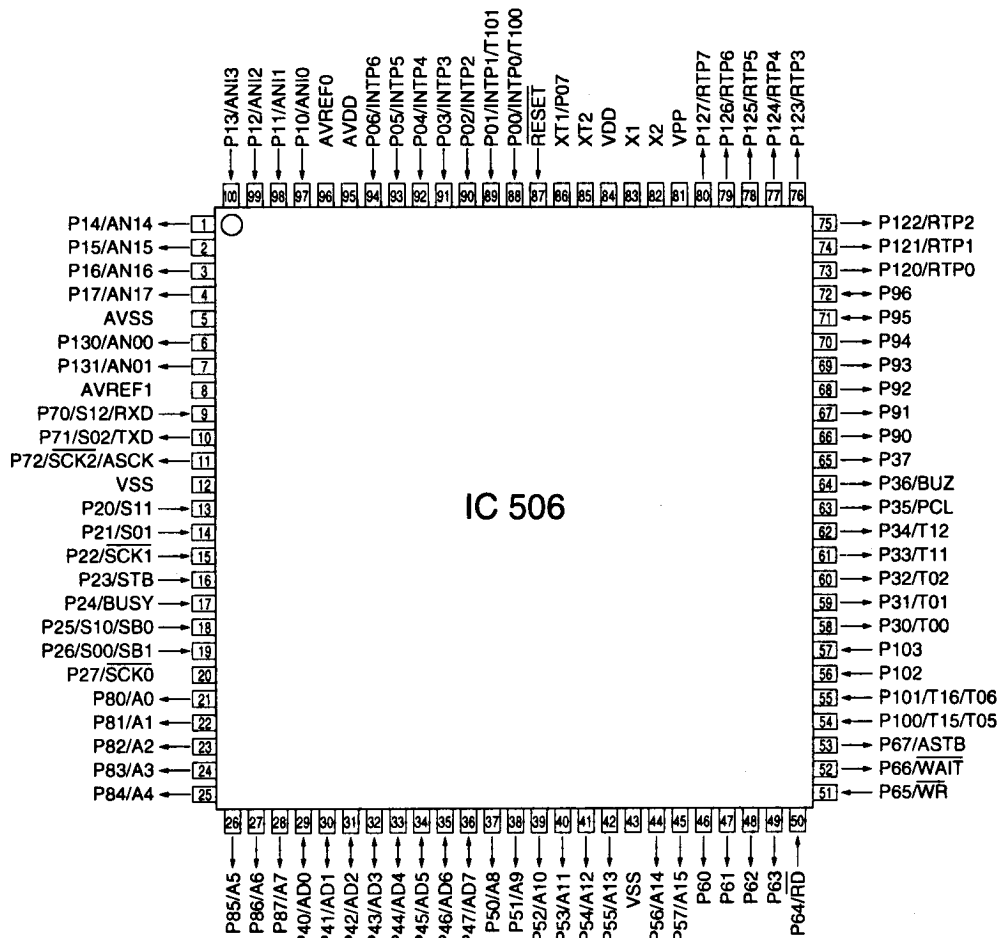


### Block Diagram



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 ADDRESS				
38	P51/A9	A9	O	EEPROM ADDRESS				
39	P52/A10	A10	O	EEPROM ADDRESS				
40	P53/A11	A11	O	EEPROM ADDRESS				
41	P54/A12	A12	O	EEPROM ADDRESS				
42	P55/A13	A13	O	EEPROM ADDRESS				
43	VSS	GND		GND				
44	P56/A14	A14	O	EEPROM ADDRESS				
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 ENCORDER				0
94	P06/INTP6	B	I	ROTARY ENCORDER				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				

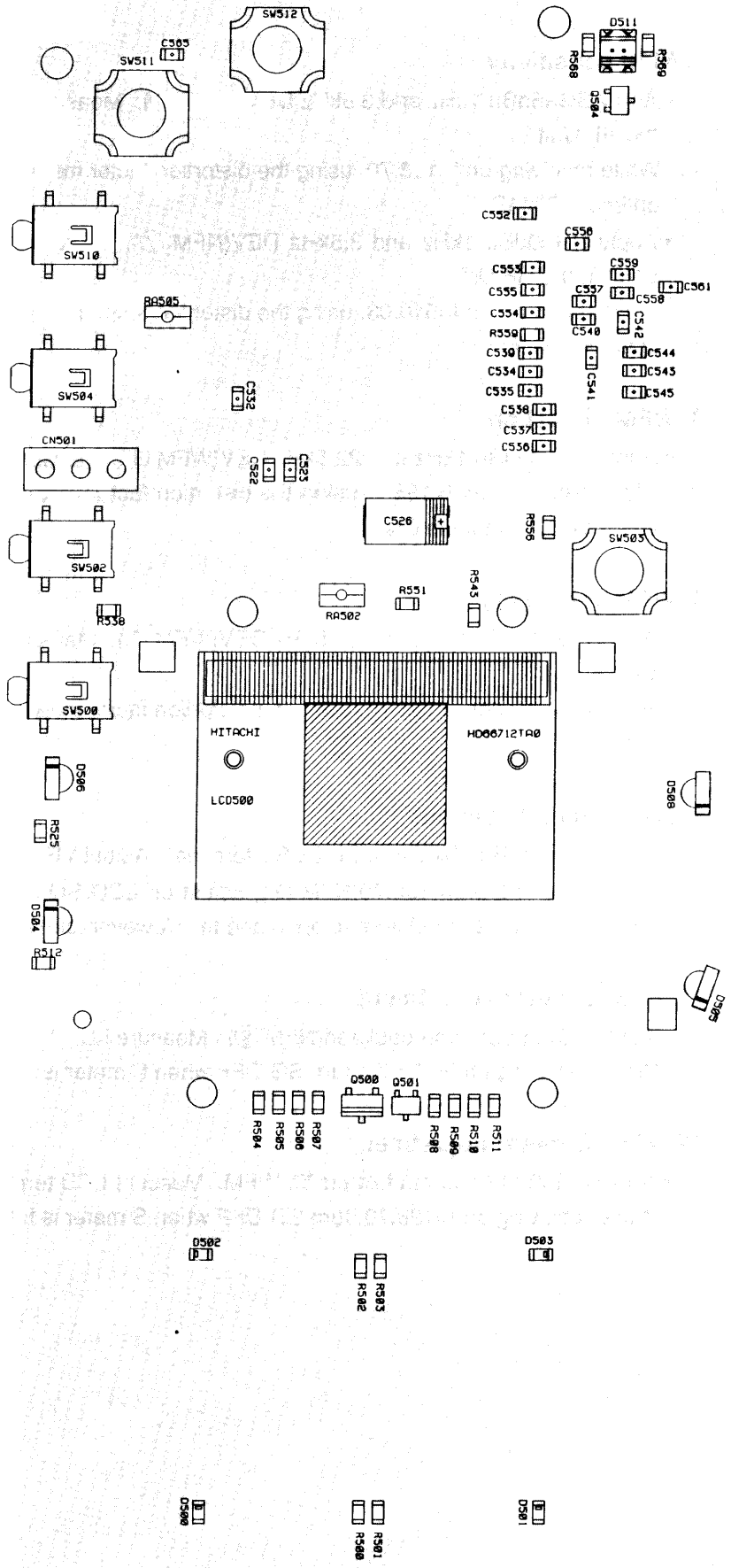
#### 4) CPU Terminal Functions: $\mu$ PD78076 (E:XA0536) (T:XA0550)



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 ADDRESS				
22	P81/A1	A1	O	EEPROM ADDRESS				
23	P82/A2	A2	O	EEPROM ADDRESS				
24	P83/A3	A3	O	EEPROM ADDRESS				
25	P84/A4	A4	O	EEPROM ADDRESS				
26	P85/A5	A5	O	EEPROM ADDRESS				
27	P86/A6	A6	O	EEPROM ADDRESS				
28	P87/A7	A7	O	EEPROM ADDRESS				
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 FL102, 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.

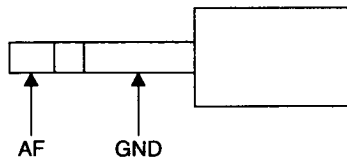
# ADJUSTMENT

## 1) Required measuring instruments and tools

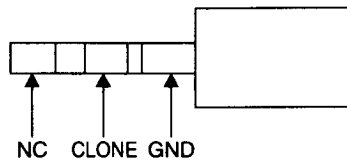
1. Digital voltmeter
2. Regulated power supply of 10 V, 1 A or more
3. Oscilloscope
4. Frequency counter
5. External speaker
6. 0.1 MHz ~ 2 GHz SG
7. Audio analyzer  
Level meter, distortion factor meter, linear detector
8. Spectrum analyzer

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  $\Omega$ . Output is 50 mW.

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



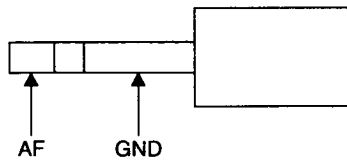
# ADJUSTMENT

## 1) Required measuring instruments and tools

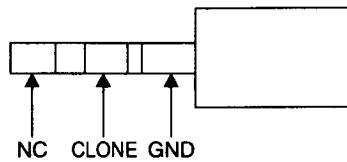
1. Digital voltmeter
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1 m coaxial cable with BNC connector

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  $\Omega$ . Output is 50 mW.

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



Ref. No.	Part's No.	Part's Name	Description	Ver.	Ref. No.	Part's No.	Part's Name	Ver.	Ref. No.	Part's No.	Part's Name	Ver.	Ref. No.	Part's No.	Part's Name	Ver.
AF020	U00018	U00018	SW556		C167	CU3027	C1608CH1010CTA		C241	CU3024	C1608CH1H10JTA		C243	CU3111	C1608CH1H10JTA	
AX003	U00018	U00018	SW507		C168	CU3047	C1608CH1H103KTA		C243	CU3111	C1608CH1H103KTA		C244	CU3021	C1608CH1H103KTA	
FG017BY	U00018	U00018	SW508		C169	CU3035	C1608JB1H102KTA		C244	CU3021	C1608CH1H80JTA		C245	CU3021	C1608CH1H80JTA	
FG018Y	U00018	U00018	SW559		C170	CU0103	C2012JF1C105ZT-N		C245	CU3047	C1608JB1H103KTA		C246	CU3047	C1608JB1H103KTA	
FG023BY	TS0049	TS0049			C172	CU3035	C1608CH1H20CTA		C247	CU3047	C1608JB1C104M		C247	CU3111	C1608JB1C104M	
FM0100	TS0146	TS0146			C174	CU3047	C1608CH1H20CTA		C248	CU3111	C1608JB1H103KTA		C248	CU3035	C1608CH1H20JTA	
KM0073Y	CU3021	CU3021			C175	CU3047	C1608CH1H103KTA		C249	CU3019	C1608CH1H70JTA		C249	CU3019	C1608CH1H70JTA	
NK0042Y	CU3023	CU3023			C176	CU3111	C1608JB1C104M		C251	CU3111	C1608CH1H20JTA		C251	CU3111	C1608CH1H20JTA	
PR0340	CU3047	CU3047			C177	CU3035	C1608JB1H102KTA		C252	CU3035	C1608JB1H102KTA		C252	CU3035	C1608JB1H102KTA	
FR0340	CU3023	CU3023			C178	CU3047	C1608JB1H03KTA		C253	CU3047	C1608JB1H103KTA		C253	CU3047	C1608JB1H103KTA	
KD0031	CU3035	CU3035			C180	CU3035	C1608JB1H102KTA		C254	CU3047	C1608JB1C104M		C254	CU3111	C1608JB1C104M	
KF0030	CU3031	CU3031			C181	CU3021	C1608CH1H80JTA		C255	CU3047	C1608JB1H103KTA		C255	CU3047	C1608JB1H103KTA	
PR0282	CU3006	CU3006			C182	CU3047	C1608CH1H650CTA		C256	CU3047	C1608CH1H20CTA		C256	CU3047	C1608CH1H20CTA	
SD0047	CU3047	CU3047			C184	CU3023	C1608CH1H10JTA		C257	CU3035	C1608CH1H03KTA		C257	CU3035	C1608CH1H03KTA	
SD0048	CU3006	CU3006			C185	CU3035	C1608JB1H103KTA		C258	CU3035	C1608CH1H650CTA		C258	CU3035	C1608CH1H650CTA	
SD0049	CU3035	CU3035			C186	CU3035	C1608JB1H102KTA		C259	CU3035	C1608CH1H20CTA		C259	CU3035	C1608CH1H20CTA	
AF0020	CU3010	CU3010			C187	CU3035	C1608CH1H950CTA		C260	CU3035	C1608JB1H102KTA		C260	CU3035	C1608JB1H102KTA	
OP2-4F8C1	CU3010	CU3010			C188	CU3035	C1608CH1H950CTA		C261	CU3035	C1608CH1H03KTA		C261	CU3035	C1608CH1H03KTA	
OP2-4F8C1	CU3021	CU3021			C189	CU3047	C1608CH1H650CTA		C262	CU3035	C1608CH1H650CTA		C262	CU3035	C1608CH1H650CTA	
FP0634Y	CU3023	CU3023			C190	CU3047	C1608CH1H103KTA		C263	CU3035	C1608CH1H03KTA		C263	CU3035	C1608CH1H03KTA	
SC0008	CU3035	CU3035			C191	CU3047	C1608JB1H102KTA		C264	CU3035	C1608CH1H20CTA		C264	CU3035	C1608CH1H20CTA	
SD0045	CU3016	CU3016			C192	CU3111	C1608JB1C104M		C265	CU3035	C1608CH1H650CTA		C265	CU3035	C1608CH1H650CTA	
TS0110	CU3047	CU3047			C193	CU3035	C1608JB1H102KTA		C266	CU3035	C1608CH1H20CTA		C266	CU3035	C1608CH1H20CTA	
EA0059Z	CU3006	CU3006			C194	CU3047	C1608JB1H103KTA		C267	CU3035	C1608CH1H03KTA		C267	CU3035	C1608CH1H03KTA	
EG0026	CU3016	CU3016			C195	CU3035	C1608CH1H20JTA		C268	CU3035	C1608JB1H102KTA		C268	CU3035	C1608JB1H102KTA	
EW0011	CU3023	CU3023			C196	CU3035	C1608CH1H20JTA		C269	CU3035	C1608JB1H102KTA		C269	CU3035	C1608JB1H102KTA	
EW0012	CU3047	CU3047			C197	CU3035	C1608CH1H03KTA		C270	CU3035	C1608CH1H10JTA		C270	CU3035	C1608CH1H10JTA	
EW0013	CU3035	CU3035			C198	CU3035	C1608CH1H03KTA		C271	CU3035	C1608CH1H10JTA		C271	CU3035	C1608CH1H10JTA	
AP0004	CU3005	CU3005			C199	CU3035	C1608CH1H20CTA		CP100	CU3035	C1608CH1H10JTA		CP100	CU3035	C1608CH1H10JTA	
AX0001	CU3035	CU3035			C200	CU3035	C1608CH1H20CTA		D100	CU3035	C1608CH1H10JTA		D100	CU3035	C1608CH1H10JTA	
ES0011Z	CU3035	CU3035			C201	CU3035	C1608CH1H03KTA		D101	CU3035	C1608CH1H20JTA		D101	CU3035	C1608CH1H20JTA	
FG0176Y	CU3035	CU3035			C202	CU3035	C1608CH1H03KTA		D102	CU3035	C1608CH1H03KTA		D102	CU3035	C1608CH1H03KTA	
FG0177Y	CU3035	CU3035			C203	CU3035	C1608CH1H03KTA		D103	CU3035	C1608CH1H03KTA		D103	CU3035	C1608CH1H03KTA	
FG0235	CU3035	CU3035			C204	CU3035	C1608CH1H03KTA		D104	CU3035	C1608CH1H03KTA		D104	CU3035	C1608CH1H03KTA	
FG0242	CU3035	CU3035			C205	CU3035	C1608CH1H03KTA		D105	CU3035	C1608CH1H03KTA		D105	CU3035	C1608CH1H03KTA	
FG0255	CU3035	CU3035			C206	CU3035	C1608CH1H03KTA		D106	CU3035	C1608CH1H03KTA		D106	CU3035	C1608CH1H03KTA	
FM0068	CU3035	CU3035			C207	CU3035	C1608CH1H03KTA		D107	CU3035	C1608CH1H03KTA		D107	CU3035	C1608CH1H03KTA	
KZ0051	CU3035	CU3035			C208	CU3035	C1608CH1H03KTA		D108	CU3035	C1608CH1H03KTA		D108	CU3035	C1608CH1H03KTA	
MKCL02AA	CU3035	CU3035			C209	CU3035	C1608CH1H03KTA		D109	CU3035	C1608CH1H03KTA		D109	CU3035	C1608CH1H03KTA	
MNCLH2AA	CU3035	CU3035			C210	CU3035	C1608CH1H03KTA		D110	CU3035	C1608CH1H03KTA		D110	CU3035	C1608CH1H03KTA	
TK0052	CU3035	CU3035			C211	CU3035	C1608CH1H03KTA		D111	CU3035	C1608CH1H03KTA		D111	CU3035	C1608CH1H03KTA	
TK0062Z	CU3035	CU3035			C212	CU3035	C1608CH1H03KTA		D112	CU3035	C1608CH1H03KTA		D112	CU3035	C1608CH1H03KTA	
TK0064	CU3035	CU3035			C213	CU3035	C1608CH1H03KTA		D113	CU3035	C1608CH1H03KTA		D113	CU3035	C1608CH1H03KTA	
PS0275	CU3035	CU3035			C214	CU3035	C1608CH1H03KTA		D114	CU3035	C1608CH1H03KTA		D114	CU3035	C1608CH1H03KTA	
AG0535	CU3035	CU3035			C215	CU3035	C1608CH1H03KTA		D115	CU3035	C1608CH1H03KTA		D115	CU3035	C1608CH1H03KTA	
HK0418	CU3035	CU3035			C216	CU3035	C1608CH1H03KTA		D116	CU3035	C1608CH1H03KTA		D116	CU3035	C1608CH1H03KTA	
HM0618	CU3035	CU3035			C217	CU3035	C1608CH1H03KTA		D117	CU3035	C1608CH1H03KTA		D117	CU3035	C1608CH1H03KTA	
HP0028	CU3035	CU3035			C218	CU3035	C1608CH1H03KTA		D118	CU3035	C1608CH1H03KTA		D118	CU3035	C1608CH1H03KTA	
HP0031	CU3035	CU3035			C219	CU3035	C1608CH1H03KTA		D119	CU3035	C1608CH1H03KTA		D119	CU3035	C1608CH1H03KTA	
HU0077	CU3035	CU3035			C220	CU3035	C1608CH1H03KTA		D120	CU3035	C1608CH1H03KTA		D120	CU3035	C1608CH1H03KTA	
HU0084	CU3035	CU3035			C221	CU3035	C1608CH1H03KTA		D121	CU3035	C1608CH1H03KTA		D121	CU3035	C1608CH1H03KTA	
HU0085	CU3035	CU3035			C222	CU3035	C1608CH1H03KTA		D122	CU3035	C1608CH1H03KTA		D122	CU3035	C1608CH1H03KTA	
PT0004A	CU3035	CU3035			C223	CU3035	C1608CH1H03KTA		D123	CU3035	C1608CH1H03KTA		D123	CU3035	C1608CH1H03KTA	
AK0001	CU3035	CU3035			C224	CU3035	C1608CH1H03KTA		D124	CU3035	C1608CH1H03KTA		D124	CU3035	C1608CH1H03KTA	
AN0012Y	CU3035	CU3035			C225	CU3035	C1608CH1H03KTA		D125	CU3035	C1608CH1H03KTA		D125	CU3035	C1608CH1H03KTA	
FM0612	CU3035	CU3035			C226	CU3035	C1608CH1H03KTA		D126	CU3035	C1608CH1H03KTA		D126	CU3035	C1608CH1H03KTA	
K90064Y	CU3035	CU3035			C227	CU3035	C1608CH1H03KTA		D127	CU3035	C1608CH1H03KTA		D127	CU3035	C1608CH1H03KTA	
UE0193AZ	CU3035	CU3035			C228	CU3035	C1608CH1H03KTA		D128	CU3035	C1608CH1H03KTA		D128	CU3035	C1608CH1H03KTA	
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					C232	CU3035	C1608CH1H03KTA		D132	CU3035	C1608CH1H03KTA		D132	CU3035	C1608CH1H03KTA	
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					C234	CU3035	C1608CH1H03KTA		D134	CU3035	C1608CH1H03KTA		D134	CU3035	C1608CH1H03KTA	
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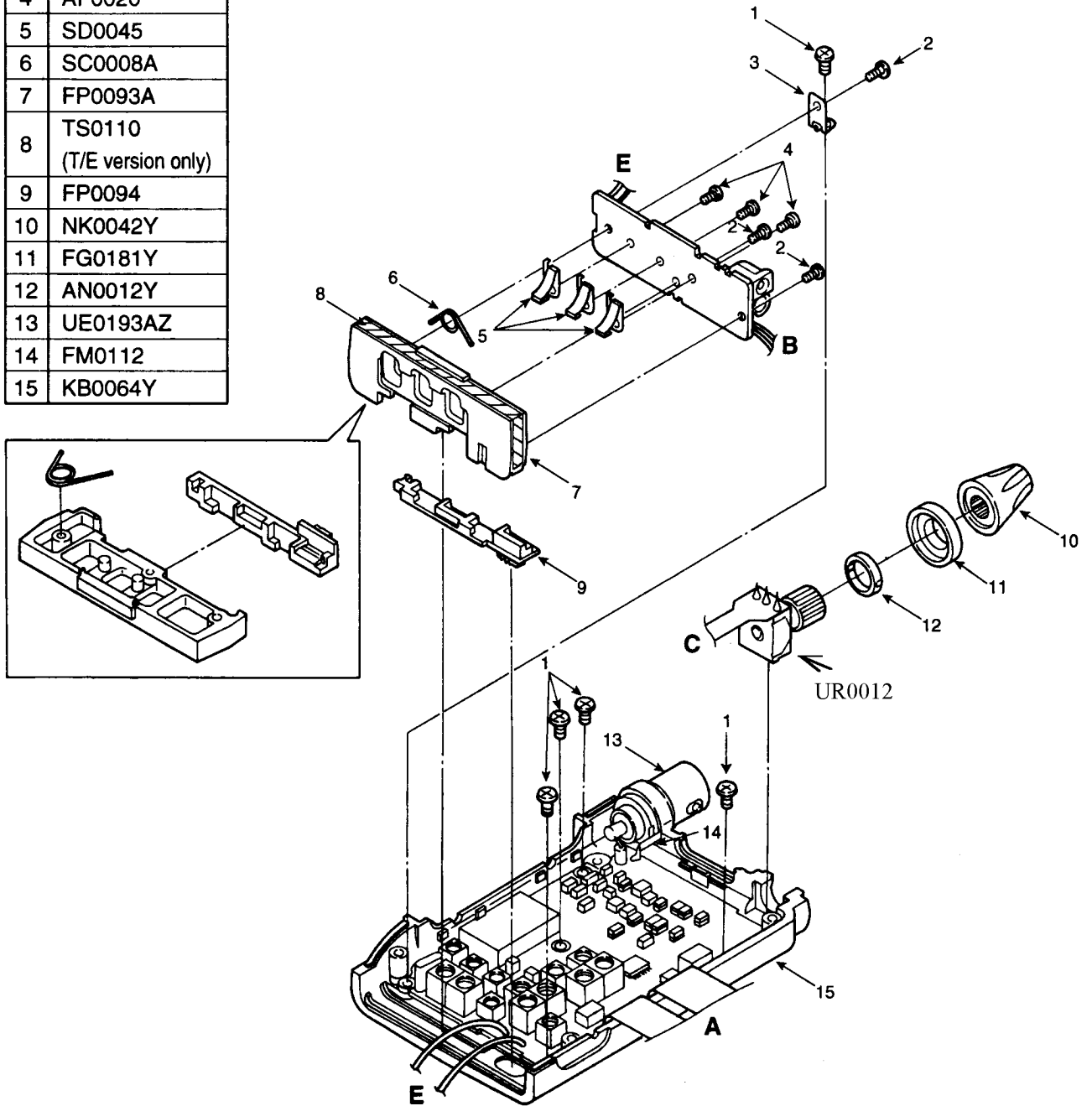
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2	C1608JFE10AZTA	Q301	DTC1432EA TL	R368	ERL365Y1470V	
3	C1608JFE10AZTA	Q302	25C465-T1B X13 X14	R369	ERL365Y1471V	
4	C1608JFE10AZTA	Q303	DTC1432EA TL	R370	ERL365Y101V	
5	C1608JH101TA	Q304	25C479(T8BL)	R371	ERL365Y1223V	
6	C1608JFE10AZTA	Q305	25A1213V TEL2R	R372	ERL365Y101V	
7	C1608JFE10AZTA	Q306	D1A1432EA TL	R373	ERL365Y0900V	
8	C1608JFE10AZTA	Q307	D1A1432EA TL	R374	ERL365Y1822V	
9	C1608JH102KTA	Q308	D1A1432EA TL	R375	ERL365Y1271V	
10	C1608JH102KTA	Q309	25C4649-TLN	R376	ERL365Y102V	
11	C1608JH102KTA	Q310	25C4649-TLN	R377	ERL365Y104V	
12	EMK107B105ZA-T	Q311	25C4649-TLN	R378	ERL365Y152V	
13	C1608JH101JTA	Q312	25C4649-TLN	R379	ERL365Y0900V	
14	TMCMA1A225MTR	Q313	25C4649-TLN	R380	ERL365Y1470V	
15	TMCMA1A225MTR	Q314	25C4649-TLN	R381	ERL365Y1223V	
16	C1608JH103KTA	Q315	25C479(T8BL)	R382	ERL365Y0900V	
17	C1608JH1472KTA	Q316	25C479(T8BL)	R383	ERL365Y0900V	
18	C1608JH102KTA	Q317	25C4649-TLN	R384	ERL365Y102V	
19	C1608JH103KTA	Q318	25C4649-TLN	R385	ERL365Y102V	
20	C1608JH103KTA	Q319	25C479(T8BL)	R386	ERL365Y1471V	
21	TMCMA1A225MTR	Q320	UN6212-TX	R388	ERL365Y1471V	
22	EMK107B105ZA-T	R300	ERL365Y110V	R389	ERL365Y101V	
23	TMCMA1A225MTR	R301	ERL365Y183V	R390	ERL365Y1563V	
24	TMCMA1A225MTR	R302	ERL365Y1272V	R391	ERL365Y1221V	
25	C1608JH103KTA	R303	ERL365Y153V	R392	ERL365Y1471V	
26	C1608JH103KTA	R304	ERL365Y133V	R393	ERL365Y1471V	
27	TMCMA1A225MTR	R305	ERL365Y1472V	R394	ERL365Y1471V	
28	TMCMA1A225MTR	R306	ERL365Y101V	R395	ERL365Y1563V	
29	EMK107B105ZA-T	R307	ERL365Y104V	R396	ERL365Y101V	
30	TMCMA1A225MTR	R308	ERL365Y1472V	R397	ERL365Y1471V	
31	TMCMA1A225MTR	R309	ERL365Y1472V	R399	ERL365Y1471V	
32	C1608JH103KTA	R310	ERL365Y1822V	R400	ERL365Y1471V	
33	C1608JH101TA	R311	ERL365Y1562V	R401	ERL365Y1822V	
34	C1608JH103KTA	R312	ERL365Y104V	R402	ERL365Y1223V	
35	C201JFC1062TA	R313	ERL365Y1472V	R403	ERL365Y102V	
36	C1608JH103KTA	R314	ERL365Y153V	R404	ERL365Y105V	
37	C1608JH103KTA	R315	ERL365Y122V	R405	ERL365Y105V	
38	C1608JH103KTA	R316	ERL365Y102V	R406	ERL365Y105V	
39	TMCMA1A225MTR	R317	ERL365Y102V	R407	ERL365Y123V	
40	TMCMA1A225MTR	R318	ERL365Y102V	R408	ERL365Y123V	
41	C1608JH103KTA	R319	ERL365Y1122V	R409	ERL365Y0900V	
42	TMCMA1A225MTR	R320	ERL365Y102V	R410	ERL365Y0900V	
43	C1608JH103KTA	R321	ERL365Y1122V	R411	ERL365Y1271V	
44	C1608JH104M	R322	ERL365Y183V	R412	ERL365Y1271V	
45	EMK107B105ZA-T	R323	ERL365Y103V	R413	ERL365Y103V	
46	C1608JH103KTA	R324	ERL365Y101V	R414	ERL365Y103V	
47	C1608JH103KTA	R325	ERL365Y153V	R415	ERL365Y103V	
48	AXN40C530P	R326	ERL365Y1274V	R416	ERL365Y103V	
49	IL-WX-105B-VF	R327	ERL365Y102V	R417	ERL365Y103V	
50	MA11-TX	R328	ERL365Y1474V	R418	ERL365Y103V	
51	ISS312(T8BL)	R329	ERL365Y1561V	R419	ERL365Y103V	
52	MA742 TX	R330	ERL365Y1474V	R420	ERL365Y103V	
53	MA741WK TX	R331	ERL365Y1474V	R421	ERL365Y103V	
54	HYU500TRF	R332	ERL365Y1474V	R422	ERL365Y103V	
55	HYU500TRF	R333	ERL365Y1474V	R423	ERL365Y103V	
56	DAN202U T106	R334	ERL365Y152V	R424	ERL365Y103V	
57	ISS356 TW11	R335	ERL365Y101V	R425	ERL365Y103V	
58	MA742 TX	R336	ERL365Y123V	R426	ERL365Y1271V	
59	DAN202U T106	R337	ERL365Y1473V	R427	ERL365Y1563V	
60	MA742 TX	R338	ERL365Y1473V	R428	ERL365Y103V	
61	MA742 TX	R339	ERL365Y1473V	R429	ERL365Y103V	
62	HYU500TRF	R340	ERL365Y1473V	R430	ERL365Y103V	
63	HYU500TRF	R341	ERL365Y1473V	R431	ERL365Y103V	
64	DAN202U T106	R342	ERL365Y152V	R432	ERL365Y103V	
65	ISS356 TW11	R343	ERL365Y101V	R433	ERL365Y103V	
66	MA742 TX	R344	ERL365Y152V	R434	ERL365Y103V	
67	CFWMA65F	R345	ERL365Y123V	R435	ERL365Y103V	
68	SFE10.7MA	R346	ERL365Y123V	R436	ERL365Y103V	
69	CFWMA65F	R347	ERL365Y123V	R437	ERL365Y103V	
70	BU4094BCFV-E2	R348	ERL365Y123V	R438	ERL365Y103V	
71	TK1123SAMTL	R349	ERL365Y123V	R439	ERL365Y103V	
72	TA31138F(NEL)	R350	ERL365Y100V	R440	ERL365Y103V	
73	TA77202F(P1)	R351	ERL365Y100V	R441	ERL365Y103V	
74	TA77202F(P1)	R352	ERL365Y154V	R442	ERL365Y103V	
75	LC75368A-TLM	R353	ERL365Y103V	R443	ERL365Y103V	
76	NUK020M T1	R354	ERL365Y103V	R444	ERL365Y103V	
77	NUK068M T1	R355	ERL365Y103V	R445	ERL365Y103V	
78	TG75551F(T8BL)	R356	ERL365Y103V	R446	ERL365Y103V	
79	TA31138F(NEL)	R357	ERL365Y103V	R447	ERL365Y103V	
80	TA31138F(NEL)	R358	ERL365Y103V	R448	ERL365Y103V	
81	TA31138F(NEL)	R359	ERL365Y103V	R449	ERL365Y103V	
82	HS1102-01-540	R360	ERL365Y103V	R450	ERL365Y103V	
83	LSH1493-01-010	R361	ERL365Y103V	R451	ERL365Y103V	
84	LH1493-01-010	R362	ERL365Y103V	R452	ERL365Y103V	
85	LK1608JH103KTA	R363	ERL365Y103V	R453	ERL365Y103V	
86	KE-07725	R364	ERL365Y103V	R454	ERL365Y103V	
87	KE-07725	R365	ERL365Y103V	R455	ERL365Y103V	
88	LK1608JH103KTA	R366	ERL365Y103V	R456	ERL365Y103V	
89	KE-07731	R367	ERL365Y103V	R457	ERL365Y103V	
90	KE-07731	R368	ERL365Y103V	R458	ERL365Y103V	
91	KE-07731	R369	ERL365Y103V	R459	ERL365Y103V	
92	KE-07731	R370	ERL365Y103V	R460	ERL365Y103V	
93	KE-07731	R371	ERL365Y103V	R461	ERL365Y103V	
94	KE-07731	R372	ERL365Y103V	R462	ERL365Y103V	
95	KE-07731	R373	ERL365Y103V	R463	ERL365Y103V	
96	KE-07731	R374	ERL365Y103V	R464	ERL365Y103V	
97	KE-07731	R375	ERL365Y103V	R465	ERL365Y103V	
98	KE-07731	R376	ERL365Y103V	R466	ERL365Y103V	
99	KE-07731	R377	ERL365Y103V	R467	ERL365Y103V	
100	KE-07731	R378	ERL365Y103V	R468	ERL365Y103V	
101	KE-07731	R379	ERL365Y103V	R469	ERL365Y103V	
102	KE-07731	R380	ERL365Y103V	R470	ERL365Y103V	
103	KE-07731	R381	ERL365Y103V	R471	ERL365Y103V	
104	KE-07731	R382	ERL365Y103V	R472	ERL365Y103V	
105	KE-07731	R383	ERL365Y103V	R473	ERL365Y103V	
106	KE-07731	R384	ERL365Y103V	R474	ERL365Y103V	
107	KE-07731	R385	ERL365Y103V	R475	ERL365Y103V	
108	KE-07731	R386	ERL365Y103V	R476	ERL365Y103V	
109	KE-07731	R387	ERL365Y103V	R477	ERL365Y103V	
110	KE-07731	R388	ERL365Y103V	R478	ERL365Y103V	
111	KE-07731	R389	ERL365Y103V	R479	ERL365Y103V	
112	KE-07731	R390	ERL365Y103V	R480	ERL365Y103V	
113	KE-07731	R391	ERL365Y103V	R481	ERL365Y103V	
114	KE-07731	R392	ERL365Y103V	R482	ERL365Y103V	
115	KE-07731	R393	ERL365Y103V	R483	ERL365Y103V	
116	KE-07731	R394	ERL365Y103V	R484	ERL365Y103V	
117	KE-07731	R395	ERL365Y103V	R485	ERL365Y103V	
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125	KE-07731	R403	ERL365Y103V	R493	ERL365Y103V	
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134	KE-07731	R412	ERL365Y103V	R502	ERL365Y103V	
135	KE-07731	R413	ERL365Y103V	R503	ERL365Y103V	
136	KE-07731	R414	ERL365Y103V	R504	ERL365Y103V	
137	KE-07731	R415	ERL365Y103V	R505	ERL365Y103V	
138	KE-07731	R416	ERL365Y103V	R506	ERL365Y103V	
139	KE-07731	R417	ERL365Y103V	R507	ERL365Y103V	
140	KE-07731	R418	ERL365Y103V	R508	ERL365Y103V	
141	KE-07731	R419	ERL365Y103V	R509	ERL365Y103V	
142	KE-07731	R420	ERL365Y103V	R510	ERL365Y103V	
143	KE-07731	R421	ERL365Y103V	R511	ERL365Y103V	
144	KE-07731	R422	ERL365Y103V	R512	ERL365Y103V	
145	KE-07731	R423	ERL365Y1			

# PARTS LIST

Ref. No.	Parts No.	Parts Name	Ver.	Ref. No.	Parts No.	Parts Name	Ver.	Ref. No.	Parts No.	Parts Name	Ver.	Ref. No.	Parts No.	Parts Name	Ver.		
C801	CJ0031	C1608JBIH47K1TA		D501	XL0036	SML-310M1T86		D501	XL0036	SML-310M1T86		D501	XL0036	SML-310M1T86			
C802	CS0234	TMCMB1V15SM1TR		D502	XL0036	SML-310M1T86		D502	XL0036	SML-310M1T86		D502	XL0036	SML-310M1T86			
C803	CJ0104	C2012JBE1E104M		D503	XL0036	SML-310M1T86		D503	XL0036	SML-310M1T86		D503	XL0036	SML-310M1T86			
C804	CS0234	TMCMB1V15SM1TR		D504	XL0045	PG1101F-TR		D504	XL0045	PG1101F-TR		D504	XL0045	PG1101F-TR			
C805	CJ0035	C2012CH1H101K		D505	XL0045	PG1101F-TR		D505	XL0045	PG1101F-TR		D505	XL0045	PG1101F-TR			
C806	CJ0023	C1608CH1H101JTA		D506	XL0045	PG1101F-TR		D506	XL0045	PG1101F-TR		D506	XL0045	PG1101F-TR			
C807	CE0336	6MW-33S5WB		D507	XL00291	MA729-TX		D507	XL00291	MA729-TX		D507	XL00291	MA729-TX			
C808	XD0294	UPFW44N1E12R		D508	XL0045	PG1101F-TR		D508	XL0045	PG1101F-TR		D508	XL0045	PG1101F-TR			
D802	XD0294	UPFW44N1E12R		D509	XL00281	MA729-TX		D509	XL00281	MA729-TX		D509	XL00281	MA729-TX			
D803	XD0290	MA11-TX		D510	XL0028	BRPG120W1TR		D510	XL0028	BRPG120W1TR		D510	XL0028	BRPG120W1TR			
D804	XD0294	UPFW44N1E12R		D511	XA0506	XA0506		D511	XA0506	XA0506		D511	XA0506	XA0506			
D805	XD0130	DA204U T106		D512	XA0398	XA0398		D512	XA0398	XA0398		D512	XA0398	XA0398			
D806	XD0294	UPFW44N1E12R		D513	XA0357	S-812375C-0E-12		D513	XA0357	S-812375C-0E-12		D513	XA0357	S-812375C-0E-12			
IC801	XA0267	TA7806FTE18L		D514	XA0467	S-807335L-AK-12		D514	XA0467	S-807335L-AK-12		D514	XA0467	S-807335L-AK-12			
IC801	LU0015	HEC2781 010020		D515	XA0468	TK11819M1TL		D515	XA0468	TK11819M1TL		D515	XA0468	TK11819M1TL			
C801	XT0088	2SA1213V TE12R		D516	XA0536	UPD78076G		D516	XA0536	UPD78076G		D516	XA0536	UPD78076G			
R801	RK0004	ERJ6GEV180V		D517	XA0550	UPD78076G		D517	XA0550	UPD78076G		D517	XA0550	UPD78076G			
R802	RK0038	ERJ3GSY102V		D518	XA0462	HM68V257A-12		D518	XA0462	HM68V257A-12		D518	XA0462	HM68V257A-12			
R803	RK0046	ERJ3GSY1472V		D519	XA0528	S-907255M2		D519	XA0528	S-907255M2		D519	XA0528	S-907255M2			
R804	RK4014	ERJ12V100H		D520	LC0502	967MA-102N		D520	LC0502	967MA-102N		D520	LC0502	967MA-102N			
				D521	L501	667MA-102N		D521	L501	667MA-102N		D521	L501	667MA-102N			
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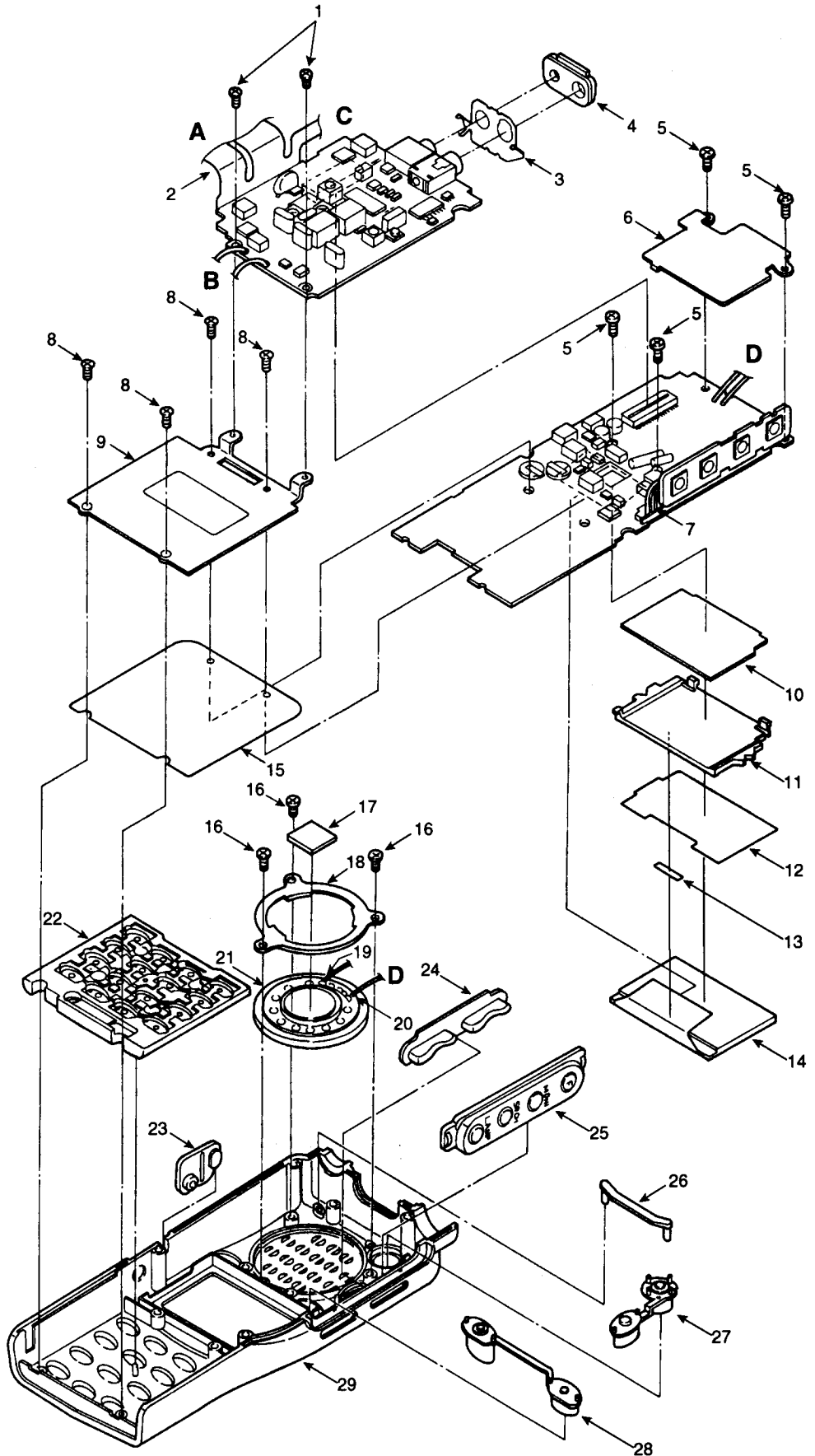
### 3) Charge/RF Unit

	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
23	FG0180Y
24	FG0176Y </td
25	FG0235
26	FG0242
27	FG0243Y
28	FG0177Y
29	KZ0051Y

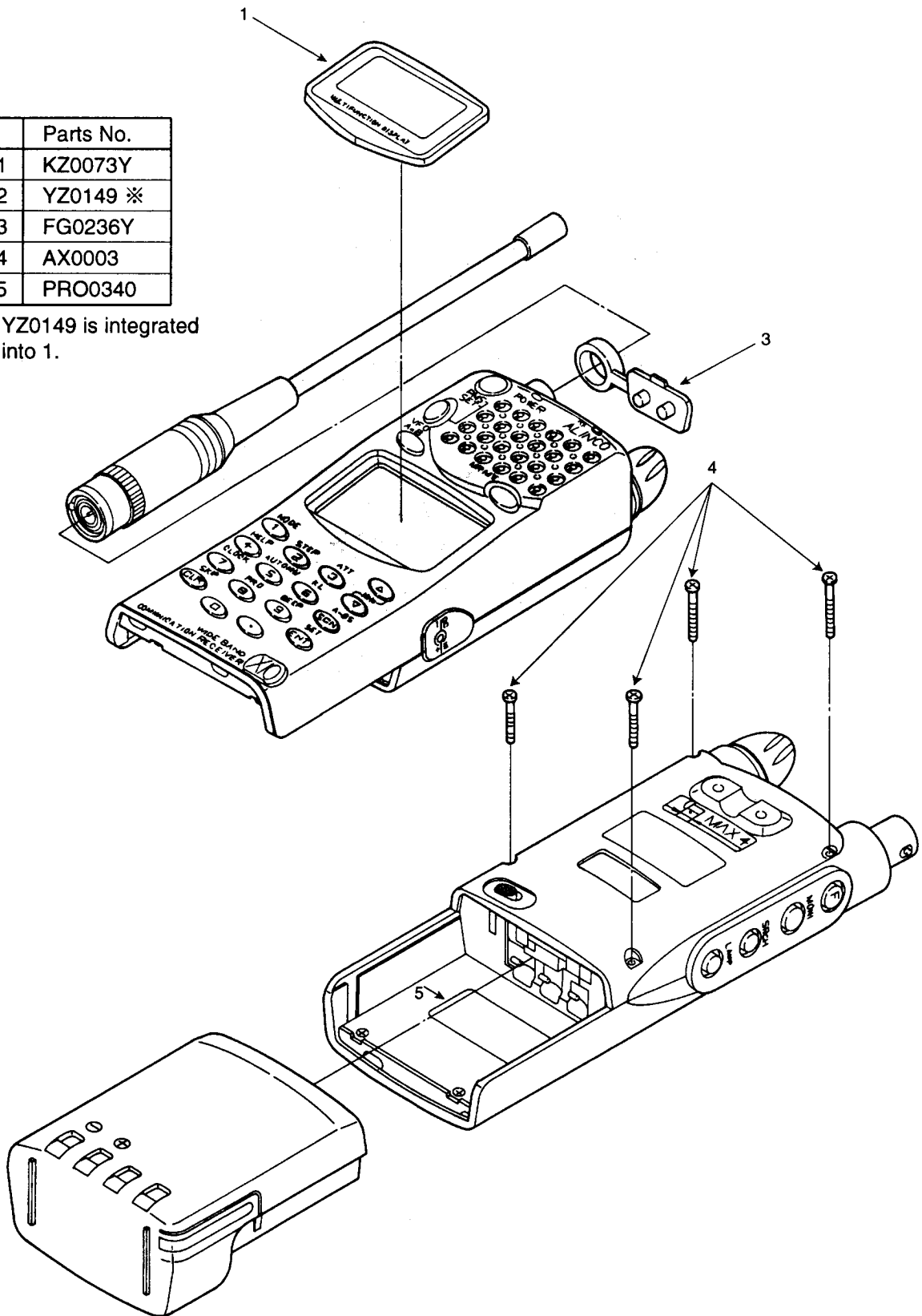


# EXPLODED VIEW

## 1) Front/Rear View

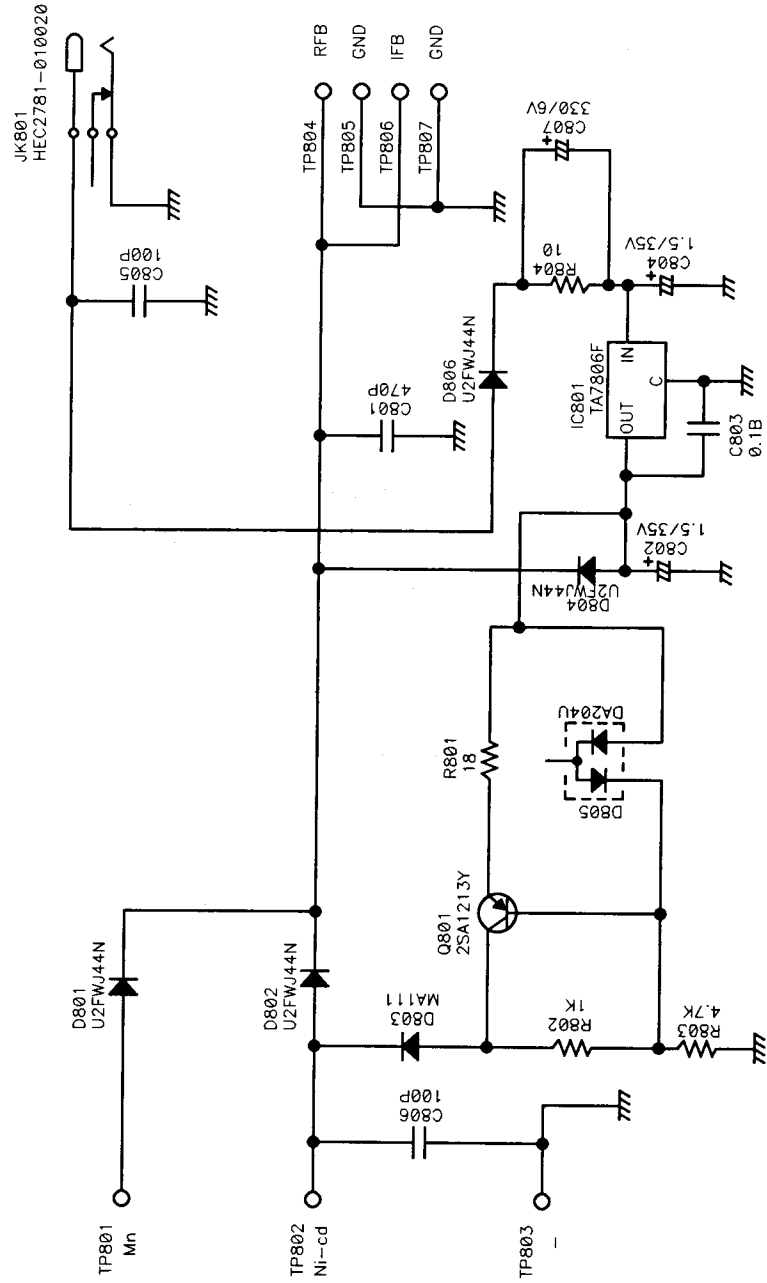
	Parts No.
1	KZ0073Y
2	YZ0149 ※
3	FG0236Y
4	AX0003
5	PRO0340

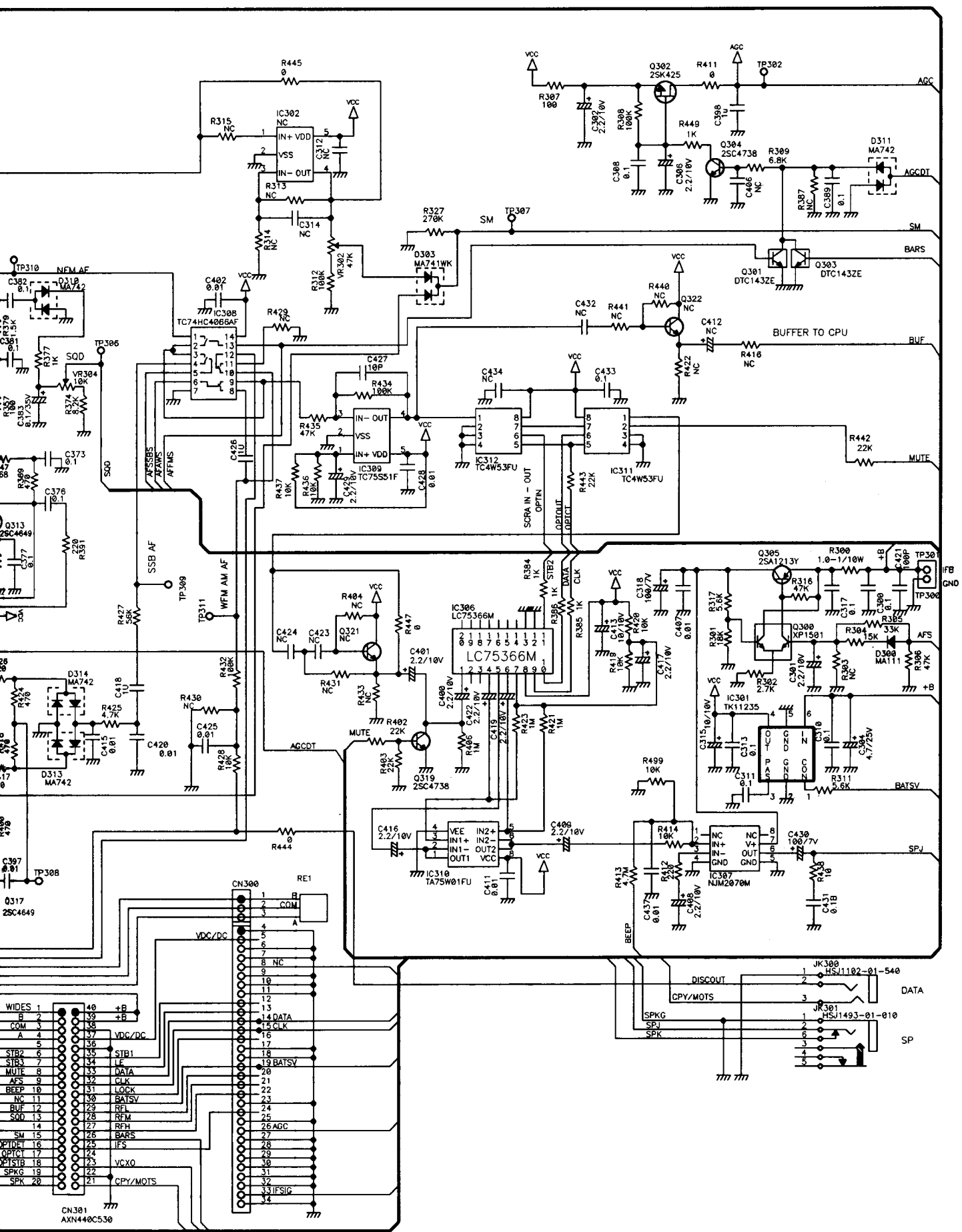
※YZ0149 is integrated into 1.





# CHARGE Unit





WIDES	1	40	+B
B	2	39	+B
COM	3	38	
A	4	37	VDC/DC
STB2	5	36	
STB1	6	35	STB1
MUTE	7	34	IF
AFS	8	33	DATA
BEFP	9	32	CLK
NC	10	31	LOCK
BUF	11	30	BATSV
SPKG	12	29	RFL
SPK	13	28	RFM
	14	27	RFH
	15	26	AGC
	16	25	BARS
	17	24	IFS
	18	23	VCX0
	19	22	CPY/MOTS
	20	21	

CN300	1	B
	2	COM
	3	A
	4	
	5	
	6	
	7	
	8	NC
	9	
	10	
	11	
	12	
	13	DATA
	14	CLK
	15	
	16	
	17	
	18	
	19	BATSV
	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	
	28	
	29	
	30	
	31	
	32	
	33	IFS
	34	

CN301	1	B
	2	COM
	3	A
	4	
	5	
	6	
	7	
	8	NC
	9	
	10	
	11	
	12	
	13	DATA
	14	CLK
	15	
	16	
	17	
	18	
	19	BATSV
	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	
	28	
	29	
	30	
	31	
	32	
	33	IFS
	34	

JK300	1	HS/1102-01-540
	2	
	3	
JK301	1	HS/11493-01-010
	2	
	3	
	4	
	5	

DISCOUT	1	
CPY/MOTS	2	
SPKG	3	
SPJ	4	
SPK	5	

DATA	1	
SP	2	

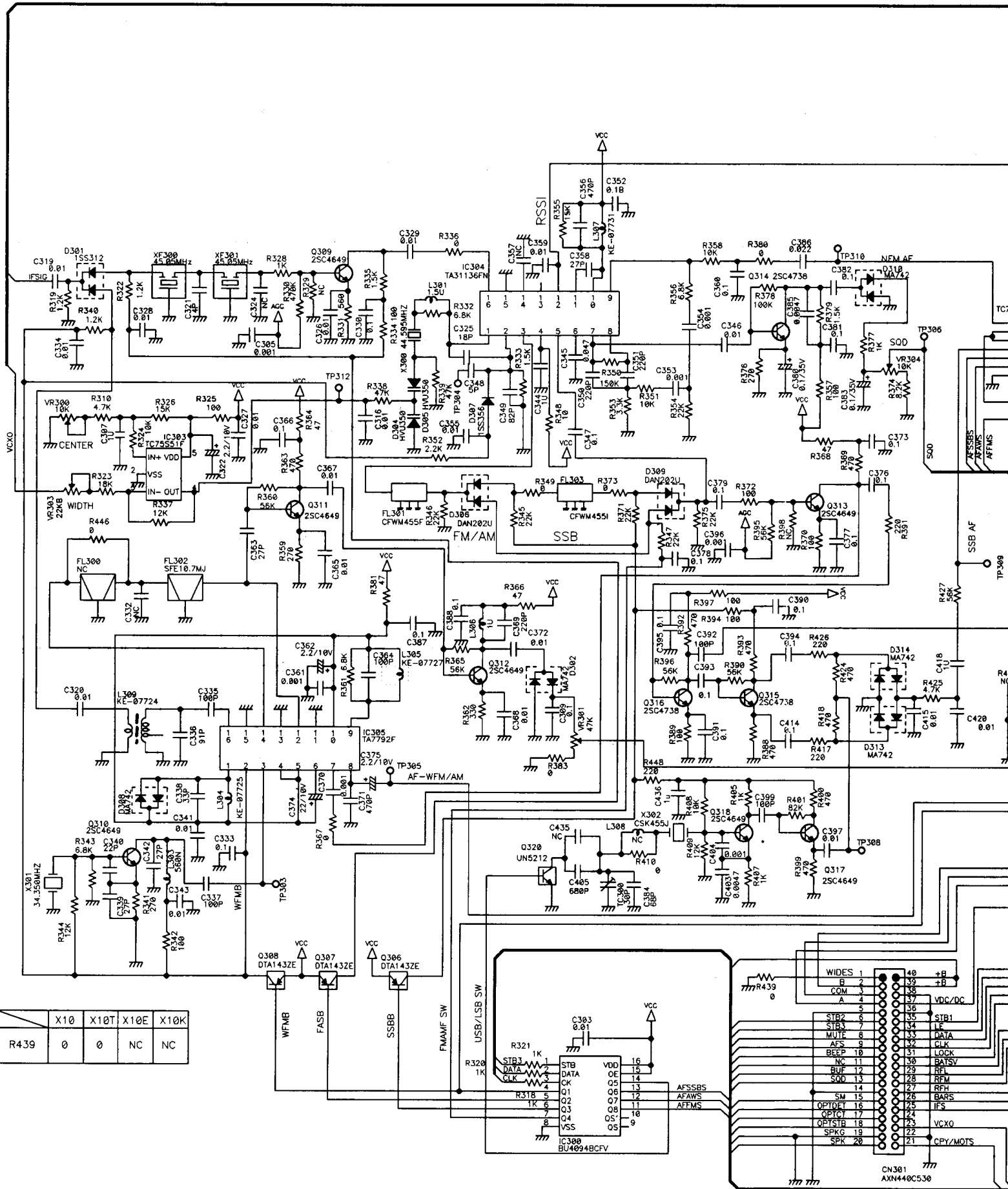
DISCOUT	1	
CPY/MOTS	2	
SPKG	3	
SPJ	4	
SPK	5	

DISCOUT	1	
CPY/MOTS	2	
SPKG	3	
SPJ	4	
SPK	5	

DISCOUT	1	
CPY/MOTS	2	
SPKG	3	
SPJ	4	
SPK	5	

DISCOUT	1	
CPY/MOTS	2	
SPKG	3	
SPJ	4	
SPK	5	

# IF Unit



	X10	X10T	X10E	X10K
R439	0	0	NC	NC

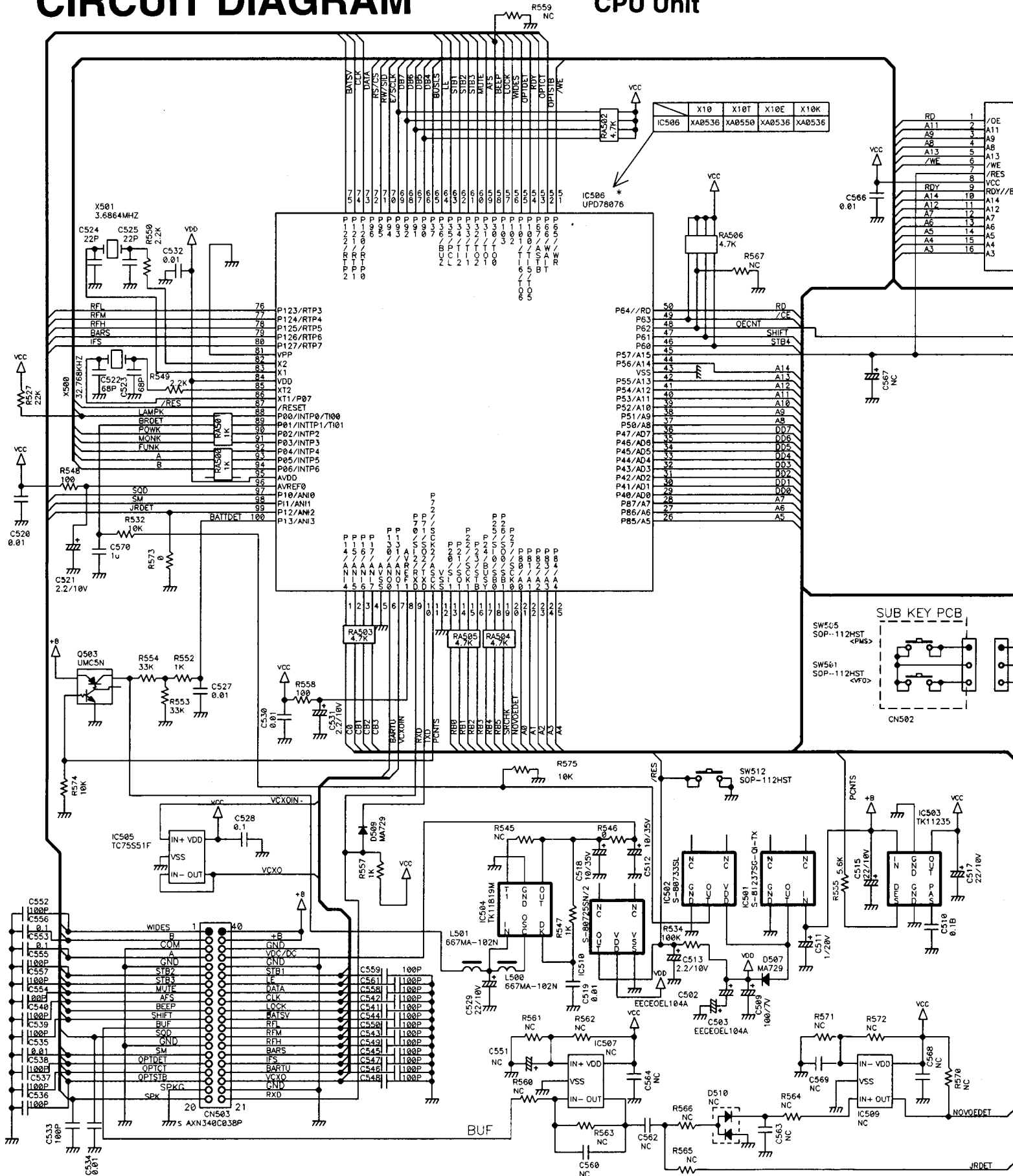




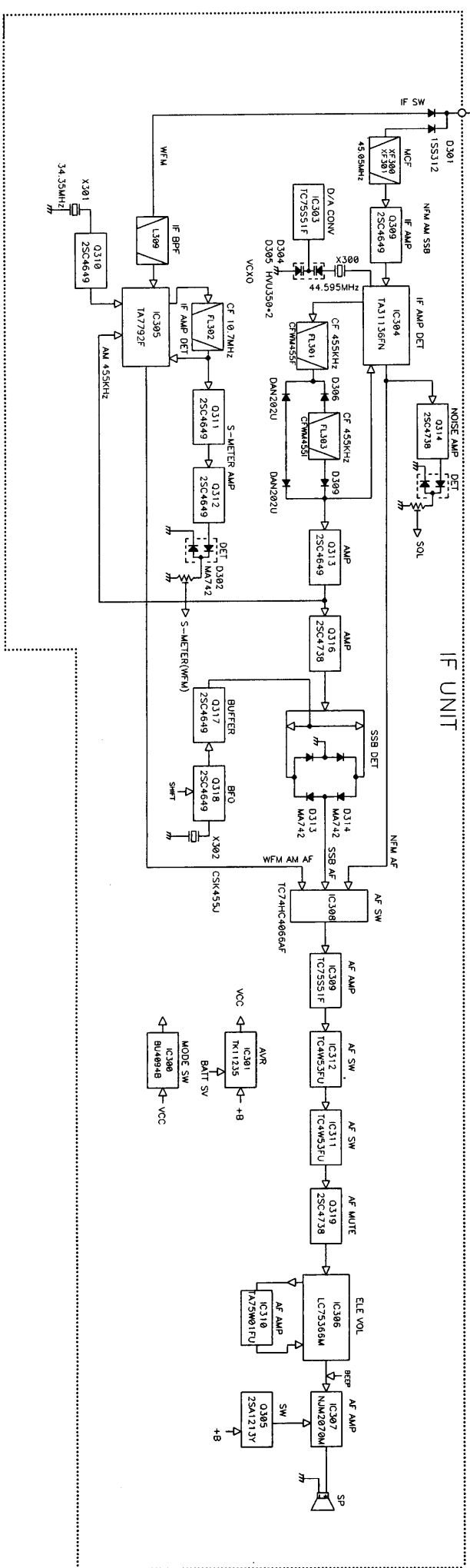
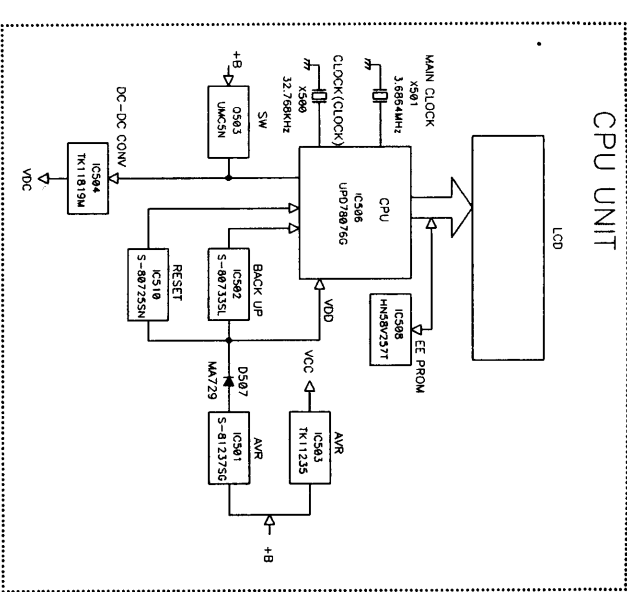
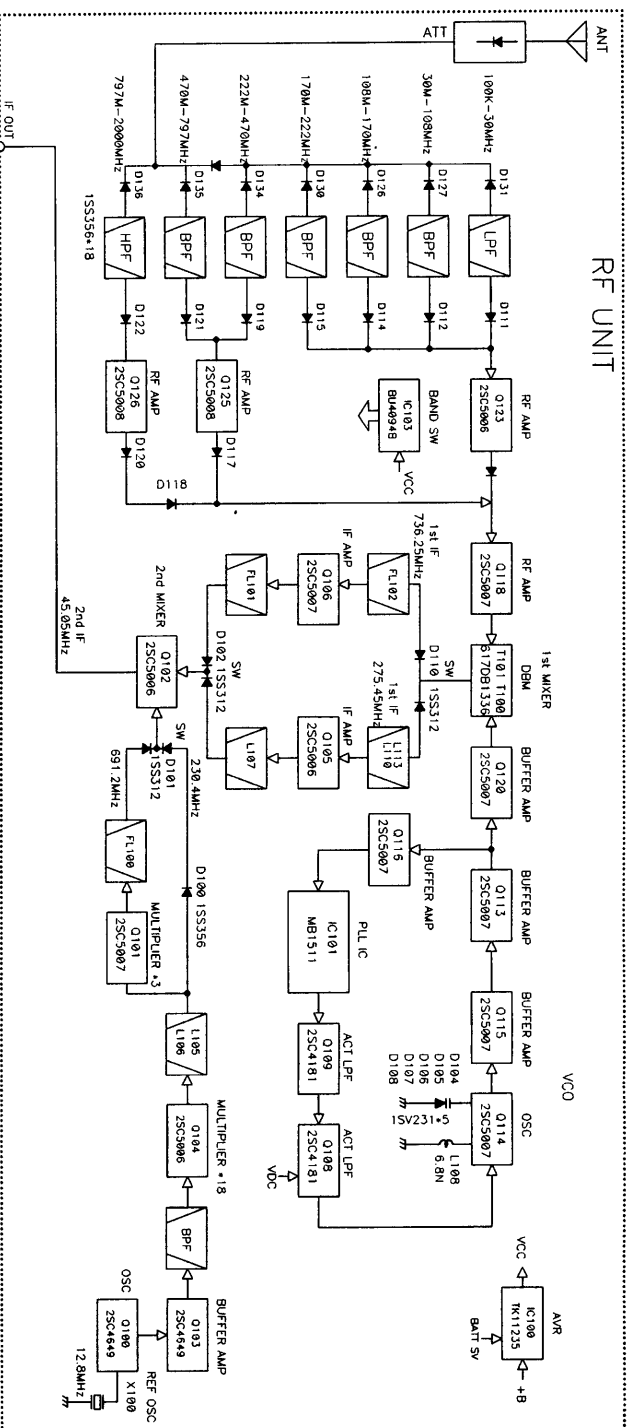


# CIRCUIT DIAGRAM

## CPU Unit

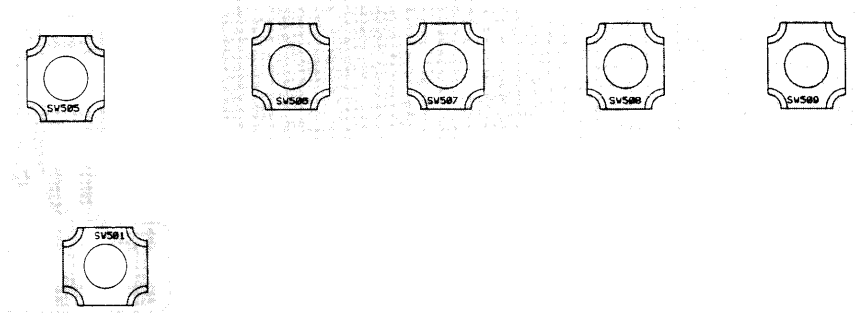


# BLOCK DIAGRAM

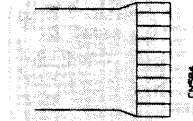
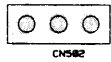




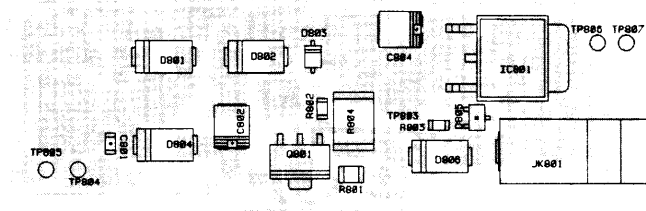
# PTT SW Unit Side A



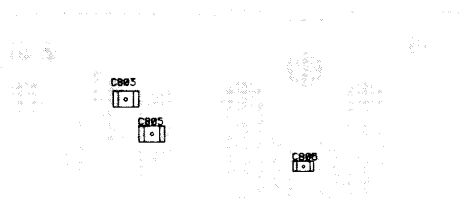
# PTT SW Unit Side B



# CHARGE Unit Side A



# CHARGE Unit Side B





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