



SERVICE MANUAL

CORDLESS TELEPHONE

SCT-3000

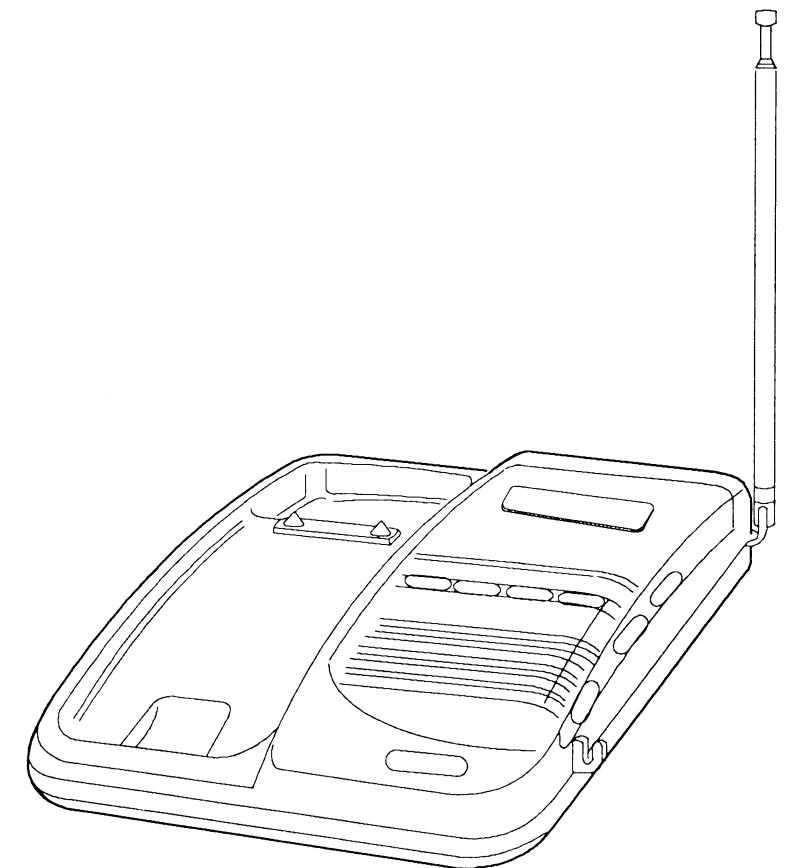
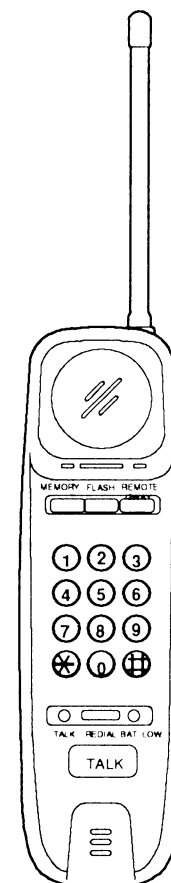


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CAUTION

Don't adjust under the environment of jamming radio wave.

Remove the helical antenna of Hand Set to adjust.

GENERAL SPECIFICATIONS

A. MEASUREMENT CONDITION

1. Standard Voltage		
Portable unit:	DC3.7V +/-0.1V	
Base unit:	DC12V +/-0.2V	
2. Temperature:	25°C +/-5°C	
3. Channel:	Portable (TX freq. MHz)	Base (TX freq. MHz)
1	49.670	46.610
2	49.845	46.630
3	49.860	46.670
* 4	49.770	46.710
5	49.875	46.730
* 6	49.830	46.770
7	49.890	46.830
* 8	49.930	46.870
9	49.990	46.930
* 10	49.970	46.970
4. Standard Modulation:	1KHz +/-2.5KHz Dev.	
5. Measurement Method:	According to EIA standard test procedure for Cordless Telephones	
6. Other Remarks:		

B. REMOTE UNIT

Receiver

	Unit	Nominal	Limit
1. Usable Sensitivity (12dB SINAD)	μV	0.5	0.8
2. Quieting Sensitivity (20dB)	μV	0.8	1.2
3. Usable 6dB Bandwidth	KHz	6.0	+/-3
4. Audio Output	mV	120	+/-30
5. Audio Distortion	%	2.0	4.0
6. Max S/N Ratio	dB	50	45
7. Freq. Response			
300Hz	dB	+2.0	-1.0~+5.0
3000Hz	dB	-6.0	-9.0~-3.0

Transmitter

	Unit	Nominal	Limit
1. RF Output	mVrms	400	350
2. Xmit Freq. Tolerance	+/-Hz	0	1000
3. Mod. Sens. for 2.5KHz Dev.	mV	15	+/-3
4. Xmit Audio Distortion	%	3.5	5.0
2.5KHz Dev.			
5. Xmit Audio S/N	dB	40	35
6. Audio Response			
300Hz	dB	-9.0	+/-3
3000Hz	dB	-2.0	+/-3

C. BASE UNIT

Receiver

	Unit	Nominal	Limit
1. Usable Sensitivity (12dB SINAD)	μV	1.0	1.4
2. Quieting Sensitivity (20dB)	μV	1.4	1.8
3. Usable 6dB bandwidth	KHz	7.0	5.0~9.0
4. Audio Output 600 ohm Tel.line Terminal	dBm	-8.0	-5.0~-11.0
5. Audio Distortion 600 ohm Tel.line Terminal	%	1.5	3.0
6. Max S/N Ratio	dB	48	45
7. Freq. Response			
300Hz	dB	-0.5	-3.5~+2.5
3000Hz	dB	-5.0	-8.0~-2.0

Transmitter

	Unit	Nominal	Limit
1. RF Output	mVrms	400	350
2. Xmit Freq. Tolerance	+/-Hz	0	1000
3. Mod. Sens. for 2.5KHz Dev.	dBm	-15	+/-3
4. Xmit Audio Distortion	%	3.5	5.0
2.5KHz Dev.			
5. Xmit Audio S/N	dB	35	30
6. Audio Response			
300Hz	dB	-7.0	+/-3
3000Hz	dB	+2.0	+/-3

D. SYSTEM

a. Tel Line Terminal

	Unit	Nominal	Limit
1. Off Hook Impedance (1KHz)	ohm	600	+/-100
2. Off Hook DC Resistance	ohm	180	+/-50
3. Ring Threshold	Vrms	32	15~45
4. Break Ratio (Pulse mode)	%	61	59~63
5. Pulse Dial Speed	PPS	10	+/-1
6. DTMF Tone Frequency (Low group)			
1. 697	%	0	+/-1.2
2. 770	%	0	+/-1.2
3. 852	%	0	+/-1.2
4. 941	%	0	+/-1.2
5. Low Group Level	dBm	-10	-12
7. DTMF Tone Frequency (High group)			
1. 1209	%	0	+/-1.2
2. 1336	%	0	+/-1.2
3. 1477	%	0	+/-1.2
4. High Group Level	dBm	-8	-10
8. DTMF Tone Level (Hi & Lo)			
1. Max Level per pair	dBm	-5	-2~-7
2. Max Level diff. between Hi & Lo (Twist)	dB	2	4

NOTE: High Group Level must equal or exceed Low Group Level

b. Power Drain

	Unit	Nominal	Limit
1. Base Unit (maximum)	mA	350	380
2. Portable Unit:			
Standby (Sleep)	mA	1.5	2.0
(Wake)	mA	12	15
In Use	mA	35	45
Off Mode	uA	60	400
3. Battery Low LED Turn On	Vdc	3.3	+/-0.2
4. Battery Charging Current	mA	35	+/-5

E. TAM

	Unit	Nominal	Limit
1. Speaker Output (vol: MAX, f=1KHz)	mW	300	200
2. Distortion R/P	%	5.0	12
3. S/N Ratio R/P	dB	35	30
4. Frequency Response			
315KHz	dB	-3.0	-10
3000Hz	dB	-5.0	-10
5. Erase Ratio	dB	45	39
6. R/P Sens.	dBm	5.0	3.0
7. Remocon Level	dBm	40	30

CORDLESS FREQUENCY LIST

REMOTE UNIT

CH	TX FREQUENCY	XTAL FREQUENCY	RX FREQUENCY	XTAL FREQUENCY
4	49.770 MHz	16.590000 MHz	46.710 MHz	11.56375 MHz
6	49.830 MHz	16.61000 MHz	46.770 MHz	11.57875 MHz
8	49.930 MHz	16.643333 MHz	46.870 MHz	11.60375 MHz
10	49.970 MHz	16.656667 MHz	46.970 MHz	11.62875 MHz

BASE UNIT

CH	TX FREQUENCY	XTAL FREQUENCY	RX FREQUENCY	XTAL FREQUENCY
4	46.710 MHz	15.570000 MHz	49.770 MHz	12.32875 MHz
6	46.770 MHz	15.590000 MHz	49.830 MHz	12.34375 MHz
8	46.870 MHz	15.623333 MHz	49.930 MHz	12.36875 MHz
10	46.970 MHz	15.656667 MHz	49.970 MHz	12.37875 MHz

THEORY OF OPERATION

REMOTE UNIT

RF circuit

< Receiver >

Signal that frequency range is 46.61 ~ 46.97MHz is received by Anttena and send to Q1 through T1, T2 and T4. Then the signal is amplified in Q1 and controlled by T5 and sent to Q2.

Local oscillator built in IC1 generates 11MHz and send it to Q3 and send to Q202 after tripled. This tripled signal is mixed with Receive signal and generates 1st IF 11MHz.

This IF is sent to Pin 16 of IC 1 and mixed with Local signal oscillated by X1. Then IC1 generates 455KHz and this IF signal through CF1 and demodulated Audio signal output Pin 9 of IC1.

< Transmitter >

RF Transmit signal is generated by X2, T11, Q5 and T10 and tripled by T10. This Transmit signal 49.67 ~ 49.97MHz is amplified by Q4, and controlled by T3 through T201, and radiated from antenna.

Audio signal from MIC is amplified by Q11 and Q12 and modulated by D3. Digital code from CPU IC2 is also.

CPU

< Push Key Controls >

Pin 1, 3, 42 and 44 is Row. Pin 2, 40, 41, 43 is COL. These 8 ports combinate MATRIX and have NEXT Function. DIAL Digit 1-0 * #, MEMORY, FLASH, MONITOR REDIAL, TALK

< LED Drive >

Pin 37	Low Batt	Lo ACT
Pin 4	TALK	Lo ACT

Audio AMP

Demodulated Audio signal is output from Pin 9 of IC1 and sent to Audio Amplifire, composed of Q7, Q8 and Q9 and output from speaker (=Telephone Receiver).

Transmit noise signal is received by MIC through Q10 and amplified by Q10, and Q11, Component block, Q227 and Q228 is ALC circuit.

Q6 and Q10 is Transistor for Audio mute.

< Detector >

Pin 33	Incoming Code from Base	
Pin 29	Reset	Lo = Reset
Pin 15	Charge	Lo = Charge
Pin 30	Hold	Lo = Hold
Pin 34	Dial mode	Lo = Pulse
Pin 31	Low Batt	Lo = Batt

< Other controls >

Pin 5	TX SW	Lo ACT
Pin 6	MIC SW (MIC Mute)	Hi Mute
Pin 12	Ring SW	Lo ACT
Pin 35	RX SW	Lo ACT
Pin 15	AMP SW	Lo ACT
Pin 21	DTMF	
Pin 8, 9	Outgoing Digital Code to Base	

Voltage Detector

< Reset >

IC5 is Voltage detector reset and Power on reset. When Battery voltage decrease and be 2.0V, output of IC5 turn to "Low" and CPU reset. After that, by charging Battery voltage increase and be 3.1V, output of IC5 turn to "High" and CPU is active.

< Hold >

IC4 is Voltage detector for Hold. When Battery voltage decrease and be 2.5V, output of IC4 turn to "Low" and CPU into Hold. After that, by charging Battery voltage increase and being 2.9V and output of IC5 turn to "High" and CPU is active.

< Low Battery >

IC3 is Voltage detector for Low battery when Battery voltage decrease and be 3.2V, output of IC3 turn to "Low" and CPU makes Lo Batt LED to blink.

< Transistor Switches >

Q14	TX power supply
Q20	RX power supply. This Tr. supply power source. to RX circuit by power save
Q15	Audio amp power supply
Q16, 17	Ringer Driver

BASE UNIT

RF Circuit

< Receiver >

Signal that frequency range is 49.670 ~ 49.970MHz is received by Anttena, and sent to Q201 through T201, T202 and T203. Then, the signal is amplified in Q201 and controlled by T204, and sent to Q202. Local oscillator built in IC201 generates 12MHz and send it to Q203 and send to Q202 after tripled. This tripled signal is mixed with Receive Signal, and generates 1st IF 12MHz. This IF is sent to Pin 16 of IC201 and mixed with Local signal oscillated by X201. Then IC201 generates 455KHz and this IF signal through CF201 and demodulated Audio signal, output from Pin 9 of IC201.

< Transmitter >

RF Transmit signal is generated by X202, T210, Q205 and T209 and tripled by T209. This Transmit signal 46.61 ~ 46.97MHz is amplified by Q204 and controlled by T202 through T201, and radiated from anttena. Audio signal from Telline is amplified by Q214 and Q226 through Analog switch, Pin 10 and Pin 11 of IC203, and modulated by D200. Digital Code from CPU IC212 is also.

Audio AMP

Demodulated Audio signal output from Pin 9 of IC201 through Analog switch, Pin 10 and Pin 11, and is sent to Audio Amplifire composed of Q209. Analog switch, Pin 10 and Pin 11 is closed by Pin 4 of IC201 being "Hi". This amplified Audio signal is amplified by Q210 again.

Telline

Audio signal from Q210 into T211. The load of Q210 is secondary coil of T211. Therefore, this signal is generated primary of T211. In Off hook mode, RL301 is close so that Audio signal output to telline through R353 and C266.

Second party's voice signal coming into telline is received by T211 and generated by T211. This signal is amplified in Q214. Q226, Component block, Q227 and Q228 is ALC circuit.

IC204 is Ring Detector. In On hook mode, SCT-3000 receiving Ring signal detected Ring signal output from IC204 and into Q231 Buffer Transistor, and is sent to Pin 9 of IC212 CPU.

IC205 is Branch phone detector. In Answer mode, Hooking branch phone output voltage of IC205 higher. This voltage change is sent to Buffer Transistor Q233 and sent to Voltage detector.

DETECTOR

< Block 1-2-3 : CODE DETECTOR >

Received code signal that output from Pin 9 of IC201 is shaped in this OP AMP. BLOCK1-2-3. Pin 3 has Time-Constant. But Pin 2 has none. So the voltage of Pin 3 doesn't move and Pin 2 respond to Code signal. Therefor, shaped Code signal appear at Pin 2. This Code signal is sent to Pin 49 of IC212 CPU.

< Block 8-9-10 : Voltage Detector for Branch phone detect >

By Hooking branch phone, the voltage of IC205 being high and Capacitor C316 start to charge, but It has several second still this Capacitor being full charge. This is Pin 9 as against Pin 9 and Pin 10 has quick rensponse to voltage charge. So after the branch hooking, Pin 9 keep low several sec. This "Low Signal" is sent to Pin 55 of IC212, and then go to on hook.

< Block 12-13-14 : Reel Counter >

By rounding the reel, Reel count signal is generated and sent from the tape deck. This signal is just like sin wave. This block shape the Reel signal and the signal is sent to Pin 50 of IC212 CPU. And Reel signal is sent to Pin 13. The voltage of Pin 12 is fixed about 1/2 Vcc by R292 and R293. Therefor it appear on the shaped Reel count signal at 14Pin .

Record & Playback Circuit

IC211 is "Record & Playback" IC and has ALC, PRE Amp, Vox, Equalizer Amp circuit, Amp circuit, ICM and MEMO signal is sent to Pin 16. It is amplified, output Pin 10, then Recording to tape by Head & Deck. Vox circuit these signals turnd to "Low" from Vcc level. Play back signal into Pin 9 output from Pin 7. Q208 is active by Pin 16 of IC212 CPU turning to "Low" when Erase mode.

IC Recording

MIC AMP is composed of Q213 and Q212. This amplified signal is amplified by Q215 again and input Pin 2 of IC208. IC208 is voice synthesized chip using 2pcs Dynamic RAM with 32K bps at SCT-3000.

< Recording >

When Pin 23 of IC212 CPU turn to "Low", begining IC Recording. Recording signal is A-D converted in this IC and output from Pin 16 with Digital signal. 2-DYnamic RAM memories receive this Digital signal and keep this by receiving Refresh signal generated from Pin 17 of IC208.

< Play back >

When Pin 21 of IC212 CPU turn to "Low", begining IC Play back. Digital signal of 2-DYnamic RAM is sent to Pin 16 of IC208. This signal is A-D converted in this IC, and output from Pin 3 with Analog audio signal ; OGM

SP.AMP

IC213 is Audio power amplifier for SP drive. This IC turn to active when be supplied with +8Vdc from Q222. This is controlled by Pin 45 of IC212 CPU. When this pin turn to "Low", the AMP turn to active.

CPU IC212

< Push Botlun Control >

Pin 35 and Pin 36 output SCAN signal, and Pin 37, 39, 40, 41 and 42 compose matrix. Pin 37 is Page SW.

< LEDs control >

Pin 28, 29, 30 and Pin 33 and 34 drive Indicator LEDs.

< Slide SW control >

Pin 19 and 20 output SCAN signal, and Pin 52 and Pin 54 detect this signal or OV Level.

< Record & Playback control >

Functions of these pin are as follows.

Pin 21	IC Play back	Lo ACT
Pin 24	IC P/R Stop	Lo ACT
Pin 23	IC Recording	Lo ACT
Pin 16	Tape Erase	Lo ACT
Pin 27	Tape Record & Play back	Hi REC Lo play

< Deck control >

Pin 11	Motor Control	Lo ACT
Pin 13	Solenoid Control	Hi ACT
Pin 14	Mode Detector	
Pin 15	Tape Detector	

< Analog SW control >

Pin 1	Line1 SW control	Hi ACT
Pin 2	Line out control	Hi ACT
Pin 3	MIC output control	Hi ACT
Pin 4	Receive out control	Hi ACT
Pin 5	Play back control	Hi ACT
Pin 6	Modulation out control	Hi ACT
Pin 7	Monitor out control	Hi ACT
Pin 8	OGM out control	Hi ACT

< Detector >

Pin 12	Charge	CHG=Hi
Pin 46	CPU Hold=Sleep mode	Lo=Hold
Pin 49	Incoming Digital Code from Remote	
Pin 52	VOX	
Pin 62	DTMF	
Pin 17	Carrier	Lo=Rec.Carrier

< Other controls >

Pin 10	Hook	Hi ACT
Pin 17	Out going code to Remote.	
Pin 57	TX	Lo = TX ON
Pin 31, 32	Beep	
Pin 48	Speaker	Lo = SP ON

ADJUSTMENT PROCEDURE

1. Standard Voltage

Remote Unit	DC 3.7 ±0.1V	
Base Unit	AC 1/0V (Using Adaptor)	For TAIWAN
	AC 220V (Using Adaptor)	For Singapore

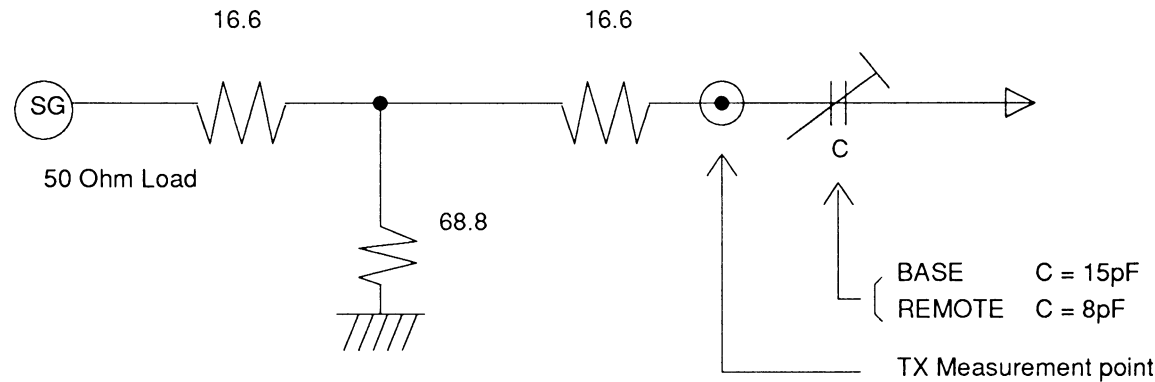
2. Standard RF Signal

1KHz, ±2.5KHz DEVIATION, 1mV

3. Telephone Line Impedance

600 Ohm

4. Antenna Dummy Load



REMOTE UNIT

Preparation

- 1 Add. 3.7Vdc to Battery connector
- 2 Keep pushing "TALK" button and turn on the Power Switch and Tone/Pulse.
- 3 Remote unit enter to TALK mode.

A. Receiver Sensitivity, Transmitter Power and Transmitter Frequency Adjustment

- A-1 Input Standard RF signal to Antenna terminal from SSG through Dummy Load.
- A-2 Connect 220 Ohm load to Speaker terminal.
- A-3 Connect SSVM, SINADER, Oscilloscope, Distortion meter.
- A-4 Adjust the Receive signal to max, and adjust Distortion min.
- A-5 Connect the RF voltmeter to TX measurement point.
- A-6 Adjust TX power max by T1, T3, T10.
- A-7 Connect the RF frequency counter to TX measurement point.
- A-8 Adjust TX frequency by T11.
- A-9 Do A-7 over again.
- A-10 Remove the RF meter and RF frequency counter.
- A-11 Adjust T2, T3, T4, T5, T6, T7 to max SINAD.
- A-12 Do A-11 over again.

B. Audio Output Adjustment

- B-1 Adjust Audio output to 110mv by VR1 (Normal Vol position)

C. Modulation Sensitivity Adjustment

- C-1 Connect the Linar Detector.
- C-2 Input Audio signal (1KHz, 15mV) to MIC terminal through 1.0uF Capacitor, and adjust the deviation to +/-2.5KHz by VR2.

BASE UNIT

Preparation

- 1 Add. 3.7Vdc to Battery connector
- 2 Keep pushing "TALK" button and turn on the Power Switch and Tone/Pulse.
- 3 Remote unit enter to TALK mode.

A. Receiver Sensitivity, Transmitter Power and Transmitter Frequency Adjustment

- A-1 Input Standard RF signal to Antenna terminal from SSG through Dummy Load.
- A-2 Connect 220 Ohm load to Speaker terminal.
- A-3 Connect SSVM, SINADER, Oscilloscope, Distortion meter.
- A-4 Adjust the Receive signal to max, and adjust Distortion min.
- A-5 Connect the RF voltmeter to TX measurement point.
- A-6 Adjust TX power max by T1, T3, T10.
- A-7 Connect the RF frequency counter to TX measurement point.
- A-8 Adjust TX frequency by T11.
- A-9 Do A-7 over again.
- A-10 Remove the RF meter and RF frequency counter.
- A-11 Adjust T2, T3, T4, T5, T6, T7 to max SINAD.
- A-12 Do A-11 over again.

B. Telephone Line Audio Out Adjustment

- B-1 Adjust Telephone line audio out.

C. Sidetone Adjustment

- C-1 Terminate the Telline by 900 Ohm. (Remove 600 Ohm)
- C-2 Connect Linar detector to measurement point of Dummy Load.
- C-3 Adjust min, deviation by VR202.

D. Modulation Sensitivity Adjustment

- D-1 Cut off the modulation of SSG.
- D-2 Input Audio signal to Telephone line, 1KHz -15dBm.
- D-3 Adjust deviation to +/-2.5KHz by VR205.

E. Carrier Detector Adjustment

- E-1 Remove the Linar detector.
- E-2 Connect oscilloscope to Pin 56 of IC212.
- E-3 Decrease RF signal of SSG and adjust to 6dB SINAD.
- E-4 Adjust the voltage of Pin 56 to Hi from Lo by VR201.

F. Ring Threshold Adjustment

- F-1 Remove the 600 Ohm from Telephone line.
- F-2 Connect the Ring signal generator to Telephone line.
- F-3 Adjust the Ring signal voltage to 35V.
- F-4 Adjust the point that the IN USE LED blink completely by VR204.

G. Test Mode

- G-1 Remove the AC Adaptor from Base Unit.
- G-2 Push "ANSWER" & "MEMO" key and keep and connect AC Adaptor.
- G-3 Confirm the all LED flashing.
- G-4 Press STOP key.
- G-5 STOP Flashing and only Power LED ON.
 - G-5-1 Press ANS key
 - ICM Record
 - In USE LED brinks when receive DTMF from Telephone line.
 - G-5-2 Press MEMO key
 - MEMO Record
 - G-5-3 Press MESSAGE key
 - PLAY back
 - G-5-4 Press REW key
 - REW
 - G-5-5 Press FF key
 - F.F.
 - G-5-6 Press STOP key
 - STOP the any Function in TEST mode.

H. Governor Adjustment

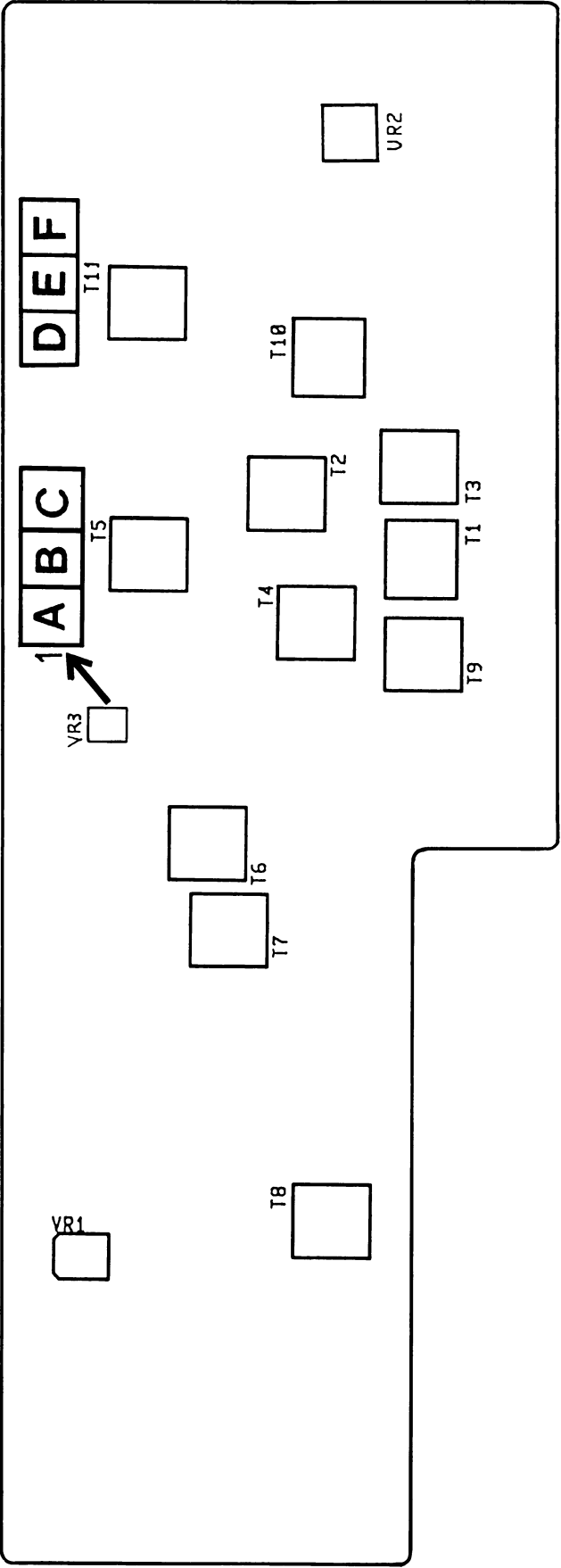
- H-1 Insert the Test Tape OA-W411 3KHz.
- H-2 Remove Speaker connector and connect 32 Ohm 1W Resistor and Wow Flatter meter.
- H-3 Press MESSAGE key.
- H-4 Adjust the output signal 3000+/-10Hz by VR203.

I. Azimuth Adjustment

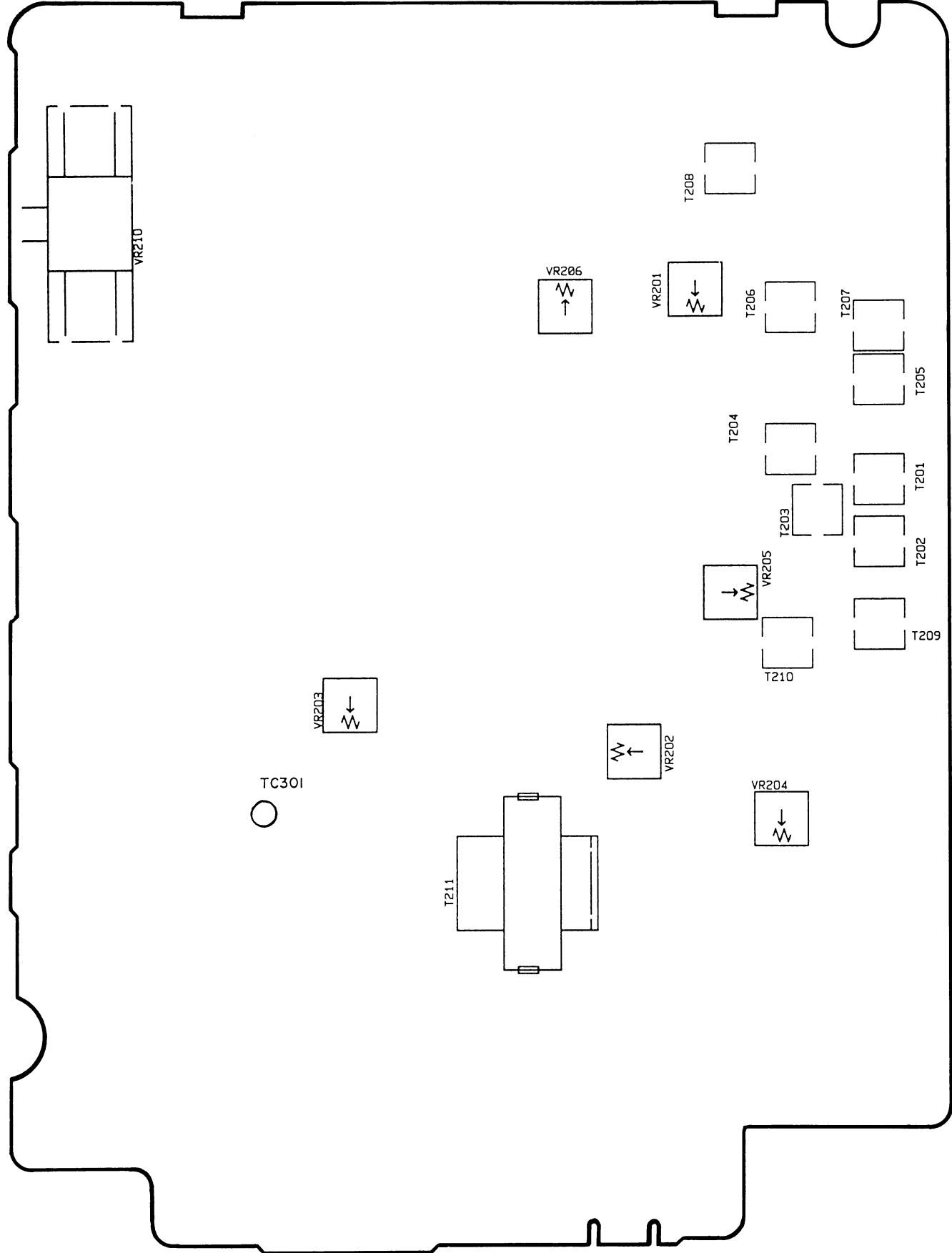
- I-1 After H-4, adjust the output signal max by Azimuth screw.

ALIGNMENT POINTS

REMOTE UNIT



BASE UNIT



TROUBLESHOOTING GUIDE

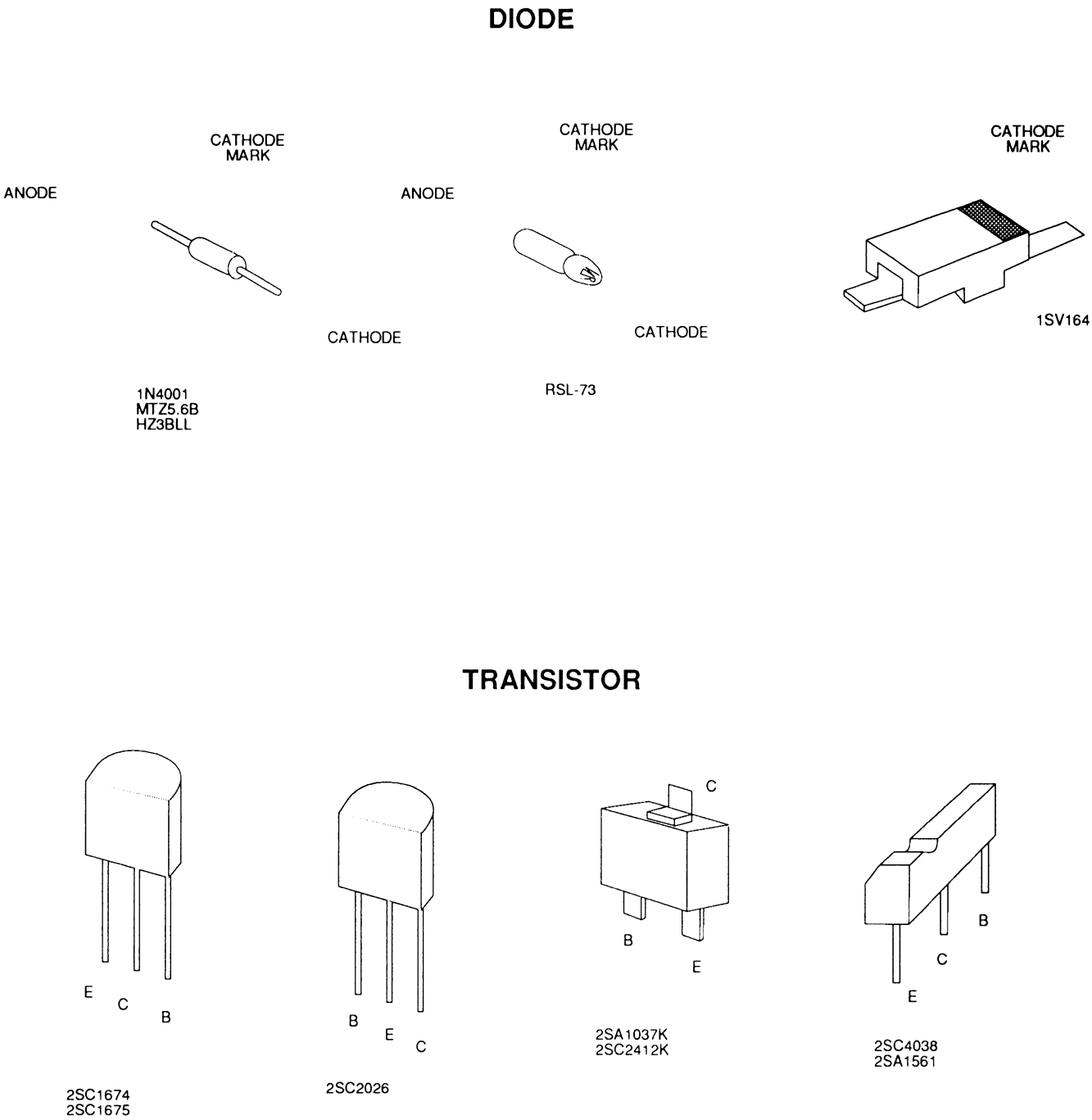
REMOTE UNIT
(The security code I.D must match that of the Base Unit)

Problem	Check If	Check point
No ring accepted	INSUE LED won't light	IC1, IC2, IC4, IC5, Q1, Q2, Q3, Q16, Q17, Q20
No sound heard	a) Only noise heard	IC1, Q1, Q2, Q3, Q20
	b) Even noise not heard	IC1, Q1, Q2, Q3, Q20, Q6, Q7, Q8, SP1 SP1 Wire is broken
No message Transmitted to the other party		E.C.MIC., Q10, Q11, Q12, Q14, Q4, Q5, D3
Dialing impossible	a) Tone dialing Only impossible	IC2, Q11, Q12, D3, Q4, Q5
	b) Pulse dialing Only impossible	IC2, D3, Q4, Q5
	c) No dialing impossible	IC2, D3, Q4, Q5, Q11, Q12
Key tone is not heard.	Dialing is possible	Q7, Q8, SP1
No ring sound	LED is flashing	IC2, Q16, Q17, SP2
No charging		D7, Battery
Auto Standby is impossible	ST-BY is possible	IC1, IC2 , Q1, Q2, Q3, Q20
Auto INUSE is impossible	INUSE is possible	IC2, Q14, Q4, Q5
No redial No memory No flash No remote		IC2
Battery Low LED won't light	Battery is full charge	IC2, IC3, LD2
INUSE LED won't light		IC1, IC2, LD1, Q1, Q2, Q3, Q20, Q14, Q4, Q5, IC4, IC5

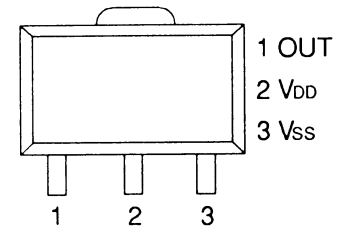
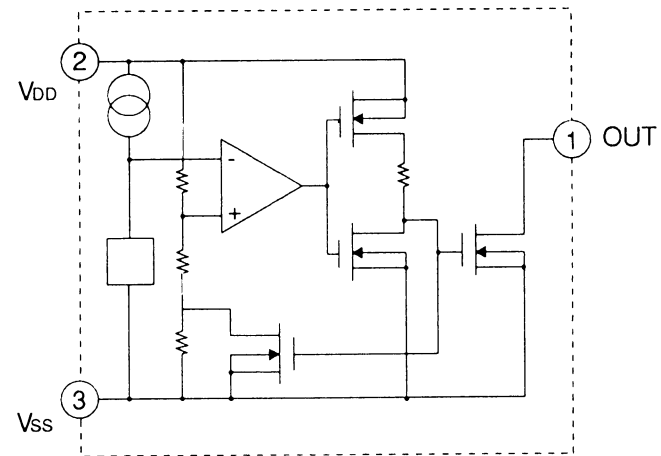
BASE UNIT
(The security code I.D must match that of the Remote Unit)

Problem	Check if	Check point
No initialize	No power from AC/DC Adaptor AC/DC Adaptor is good Only noise heard	AC/DC Adaptor IC214, IC215, IC212, IC207, Deck
No ring accepted	INUSE LED won't flash	IC212, IC204, IC206 SP1
No ring sound in remote	INUSE LED is flashing	IC212, Q206, Q204, Q205
INUSE won't work		IC212, IC201, Q201, Q202, Q203
No charging	INUSE LED won't light	Q218, LD402 Broken wire
Page won't sound	Neither does ring Ring sounds	IC212, IC213, Q222, Q225 Speaker or Broken wire IC212, Q225
Can't enter Standby mode		IC212, IC201, Q201, Q202, Q203
No branch detector		IC212, IC205, IC206
Auto Standby won't work	ST-BY is possible	IC212, Q218 Broken wire
High noise level		IC201, IC202, Q209, Q210
No party's voice		Q14, Q226, Q228, Q227, IC203, D220, IC212
No voice to the other party	Party's voice can be heard	IC212, IC202, Q201, Q202, Q203, Q209, Q210
Party's voice is distorted		Q14, Q226, Q228, Q227, IC203, D200
High side tone level		Q209, Q210, Q14, Q226, Q227, Q228
Line is kept accessed	INUSE LED lights	IC212, Q211, RL301
No dialing		IC212, Q211, RL301
Flash, redial and remote functions are disabled		IC212, IC201, IC206, Q201, Q202, Q203
Cassette Deck won't work	Cassette tape in the Deck	IC212, IC207 Deck PCB
Erase , FF, REW, REC, STOP, PLAY, MEMO and ANS won't work	LED is light	
No Record and No Memo		IC212, E.C.MIC, Q212, Q213, IC211, IC208, IC209, IC210
No sound heard to push the Play botton and ANS		IC212, IC208, IC209, IC210, IC211, IC213, Q222 Deck PCB

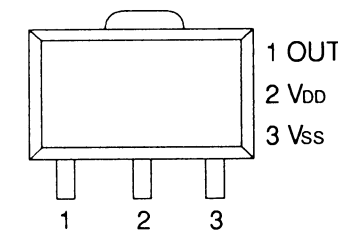
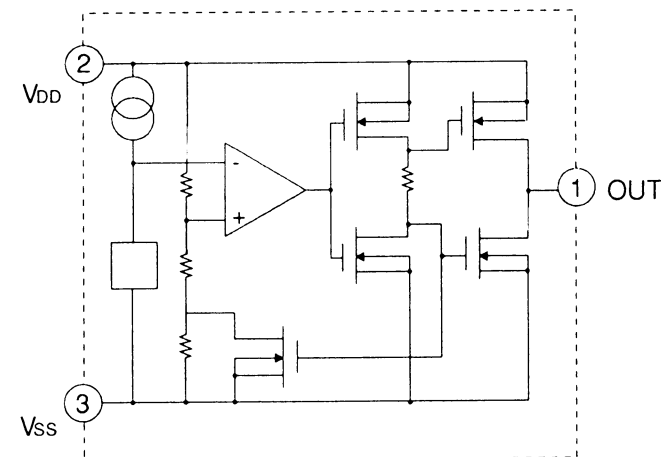
SEMICONDUCTOR LEAD IDENTIFICATIONS



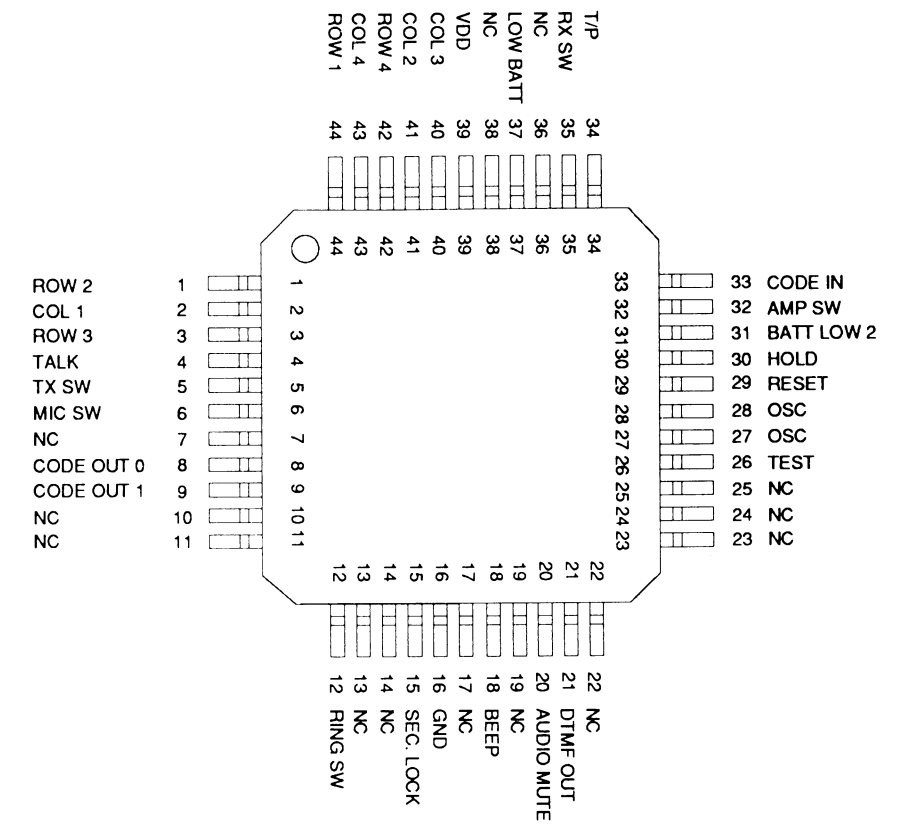
S-80720AN-DH-TI
S-80732AL-AW-TI



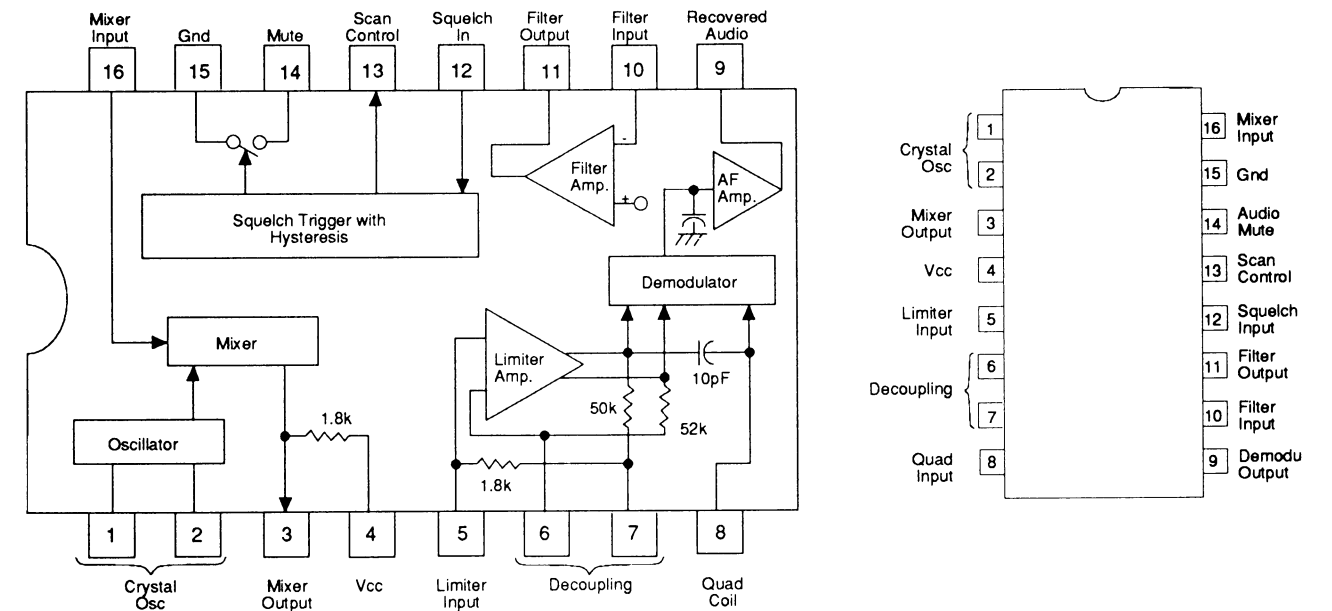
S-80725AN-DN-TI



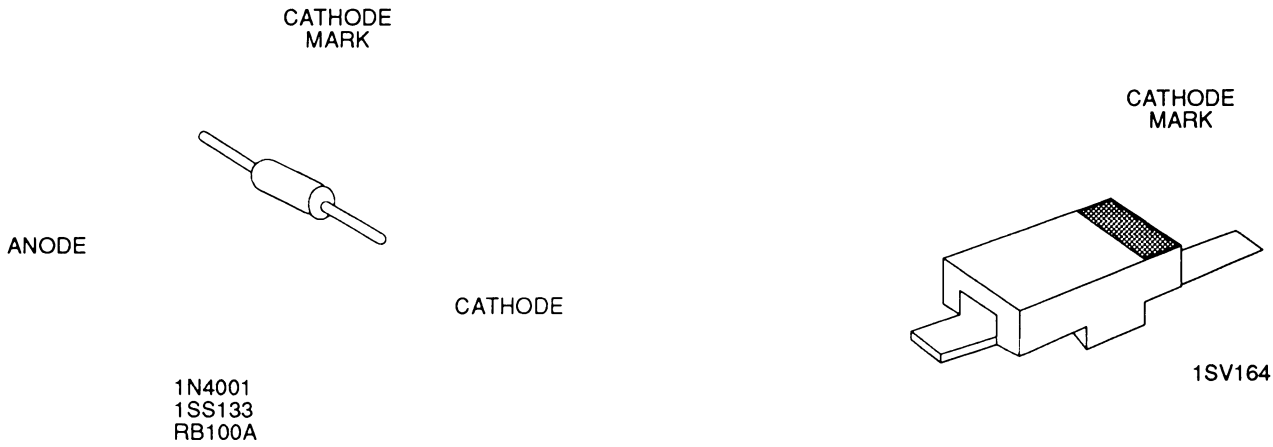
TMP47C407



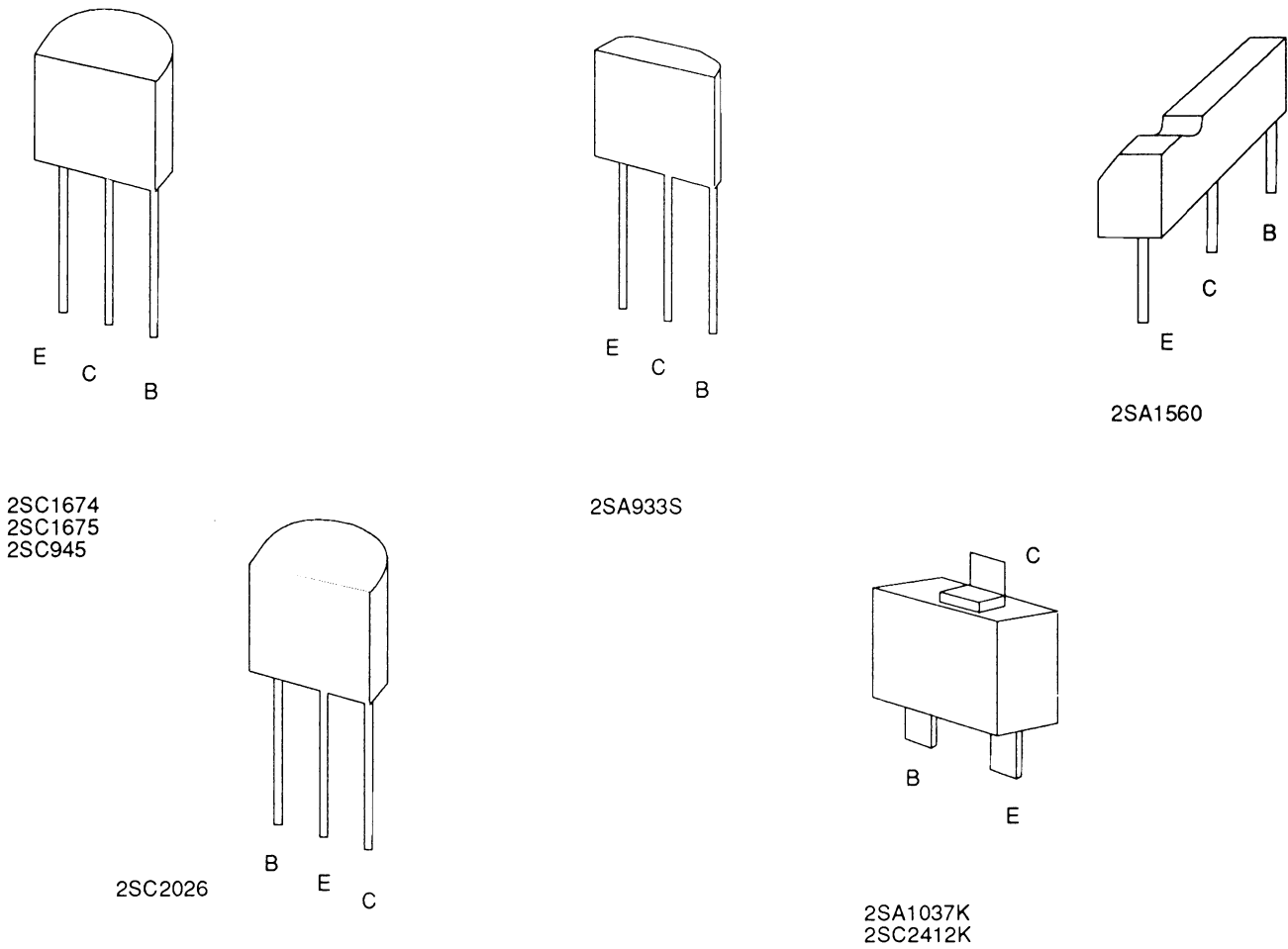
MC3361BD



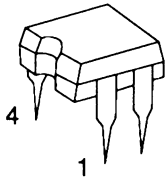
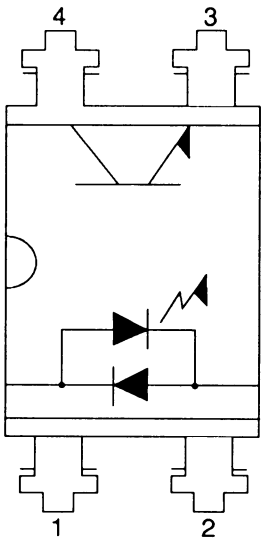
DIODE



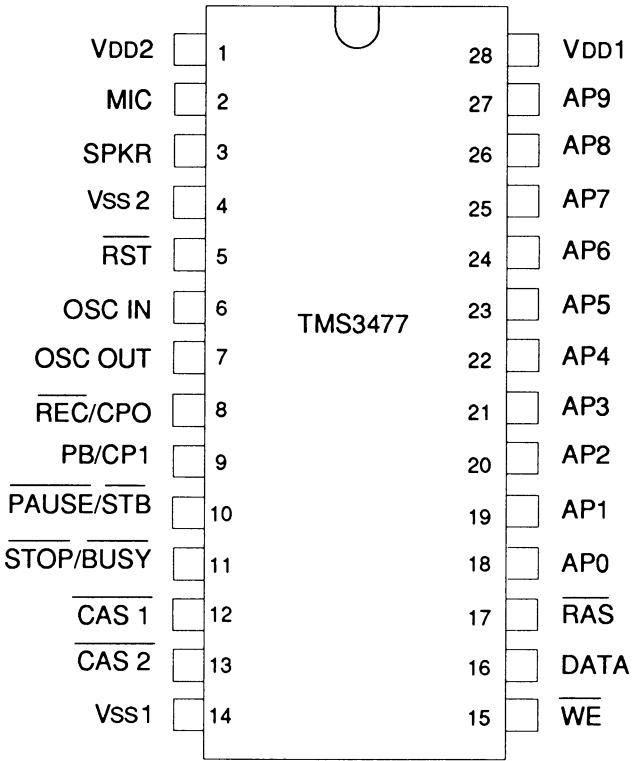
TRANSISTOR



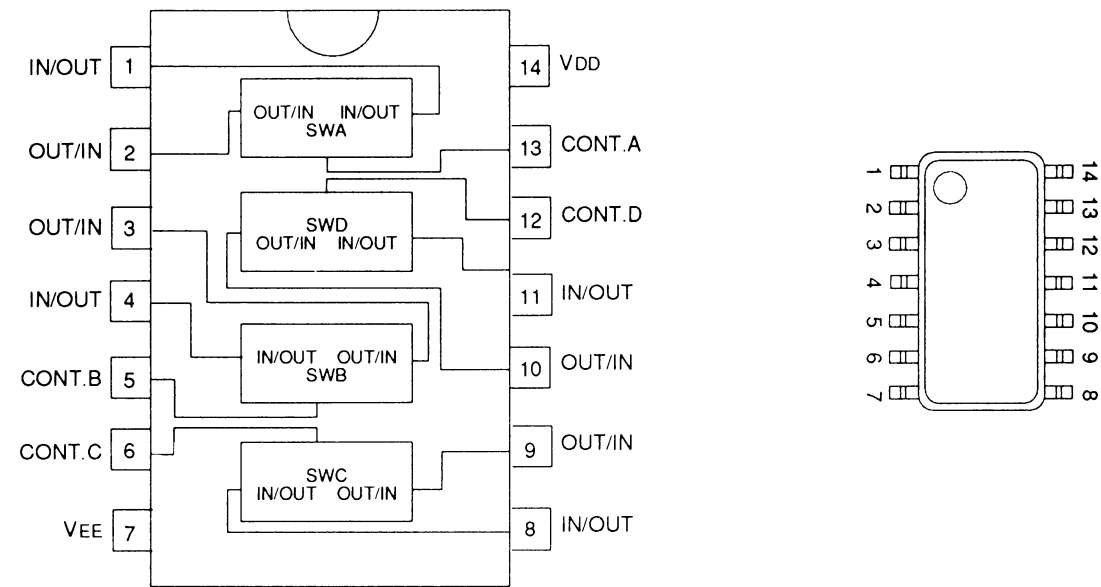
PS2505-1



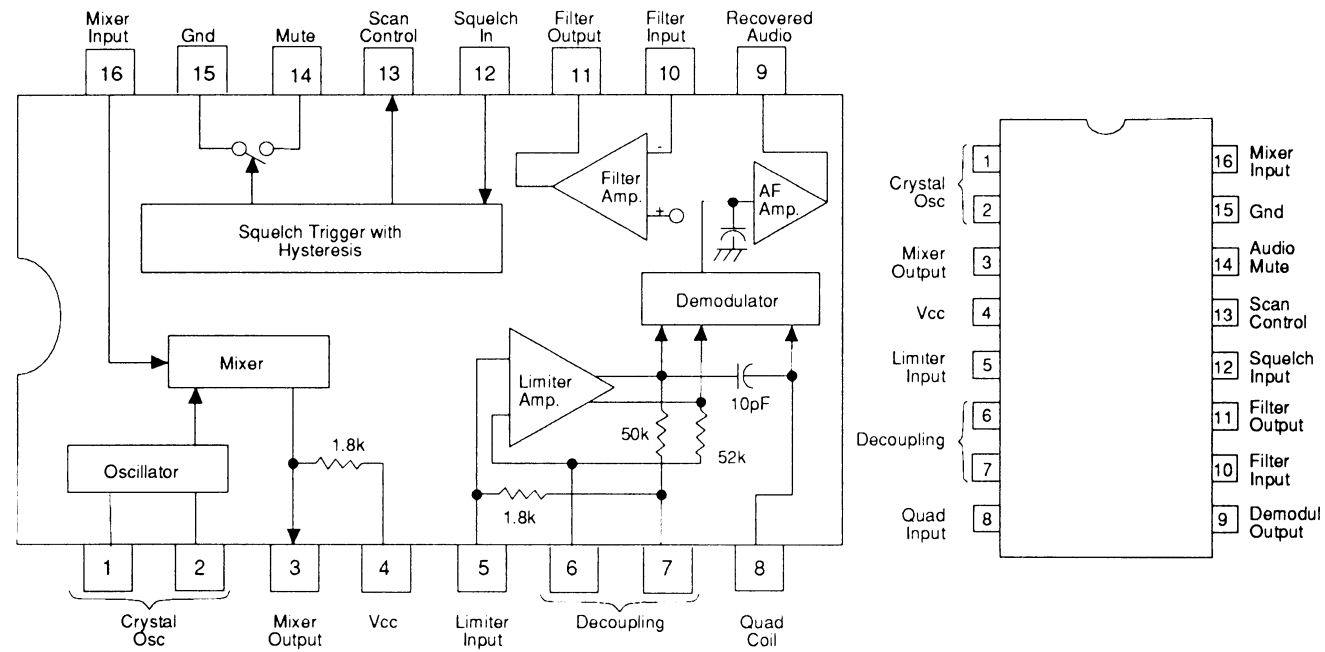
TMS3477



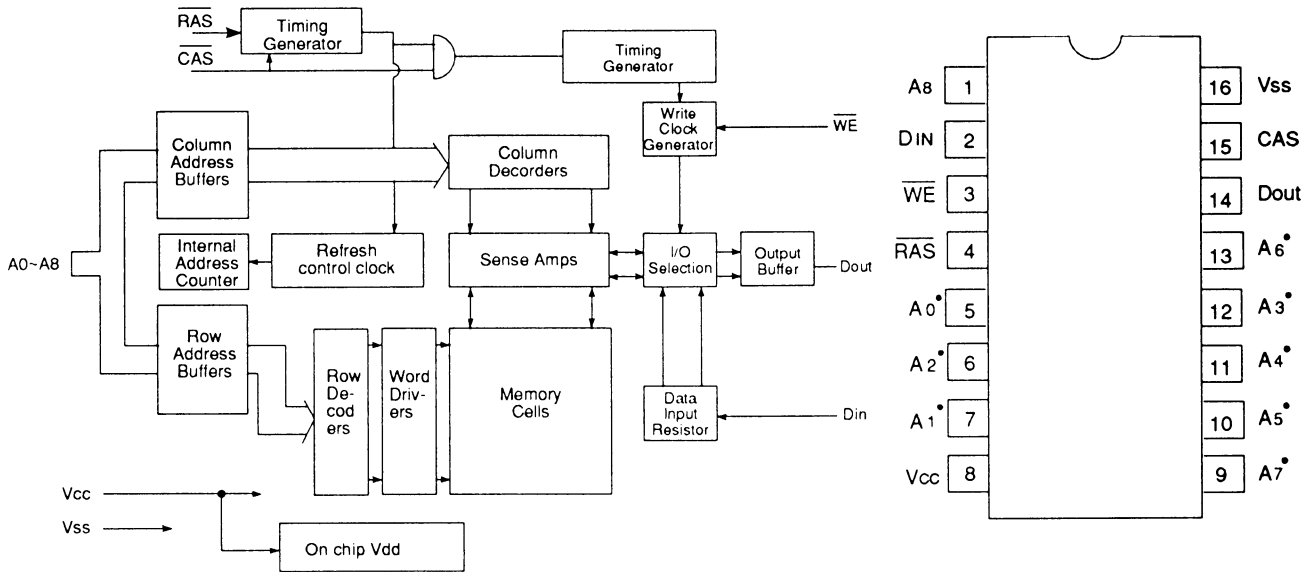
BU4066BF



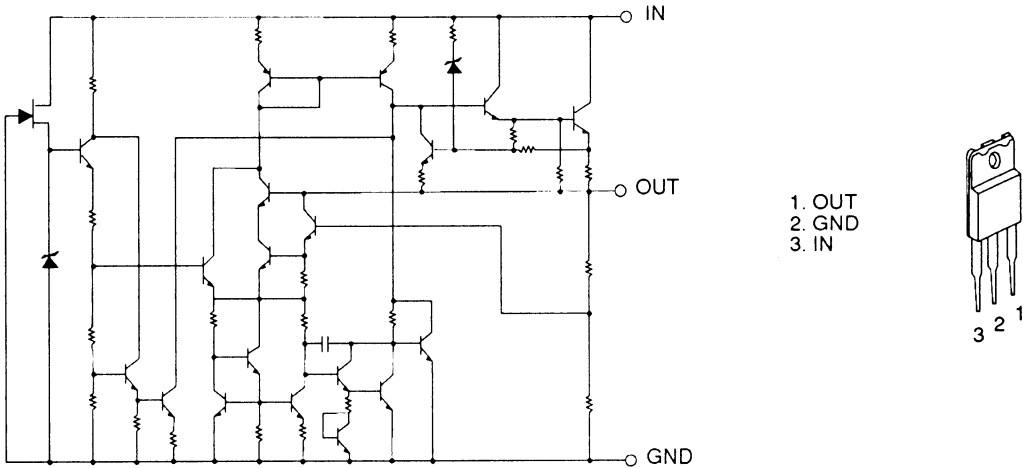
MC3361BP



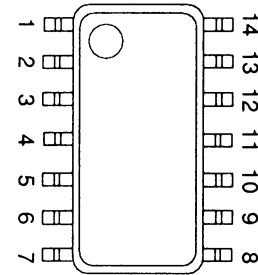
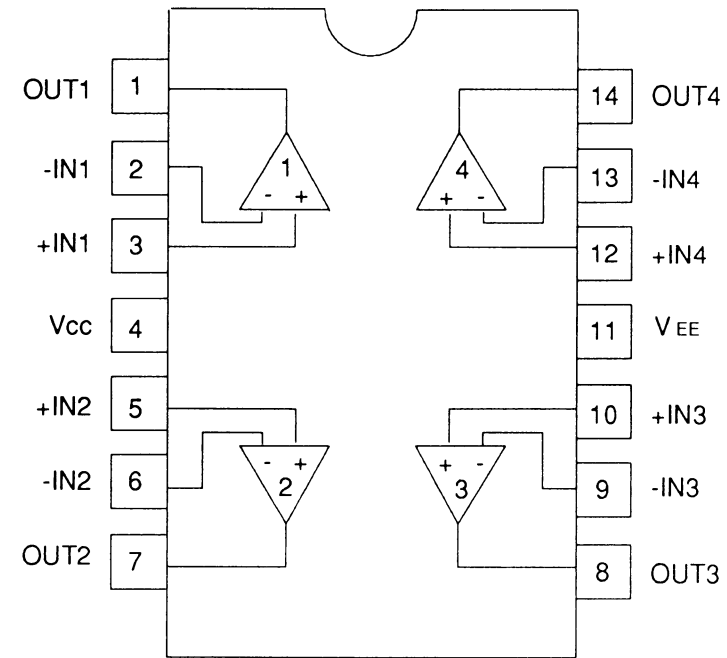
MSM41256A-10RS



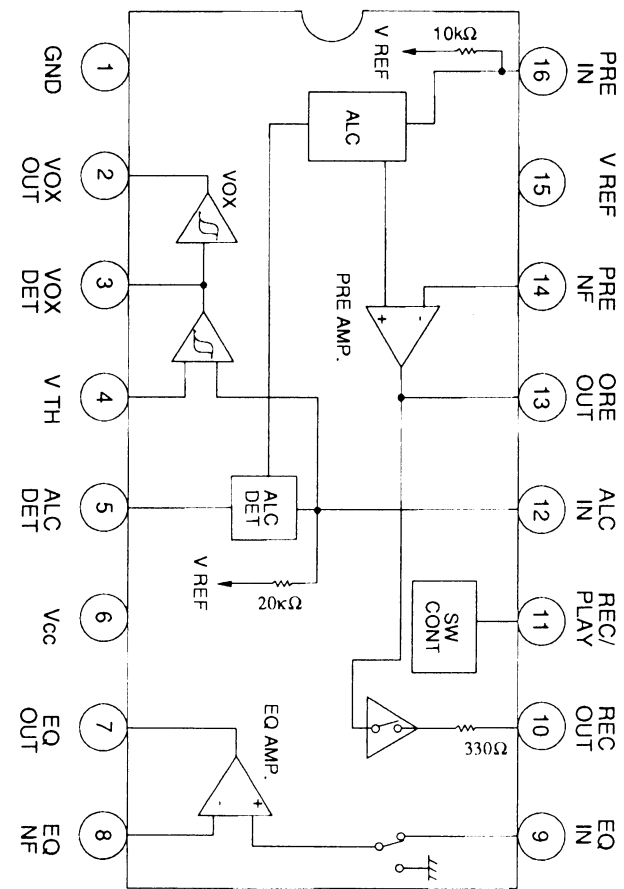
NJM7809



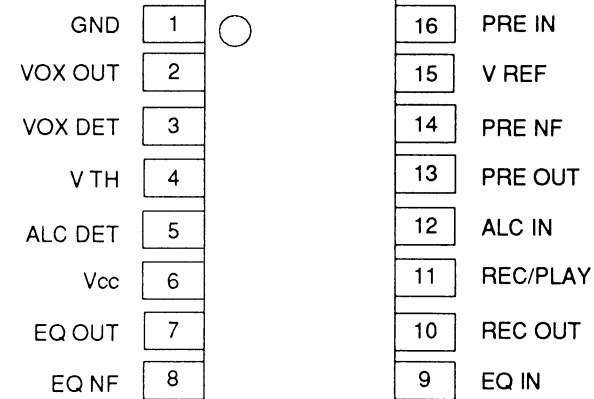
BA10324F



TA3108F

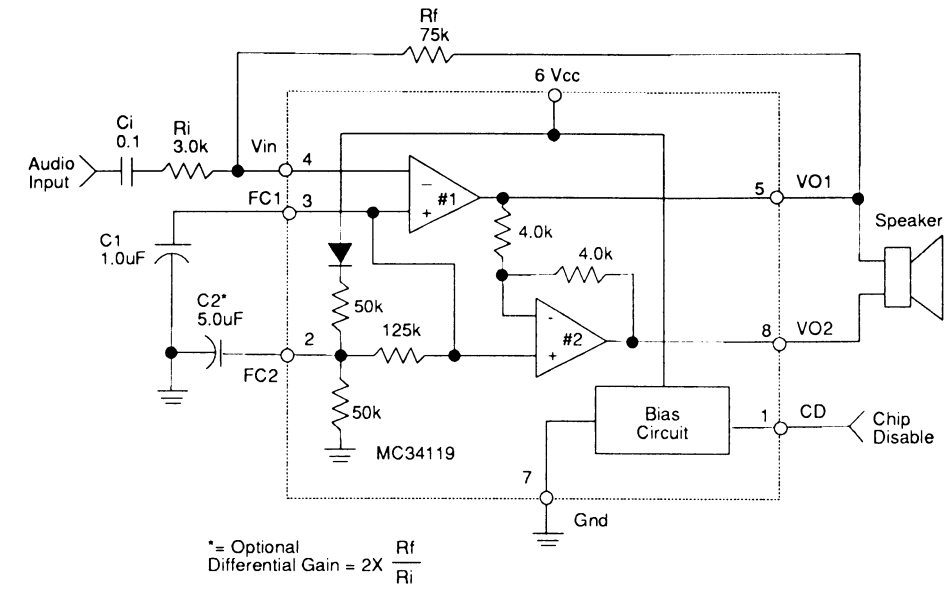


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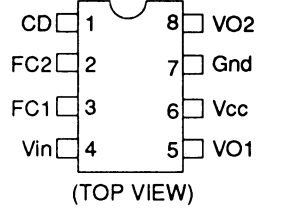


(TOP VIEW)

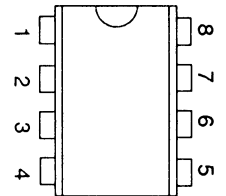
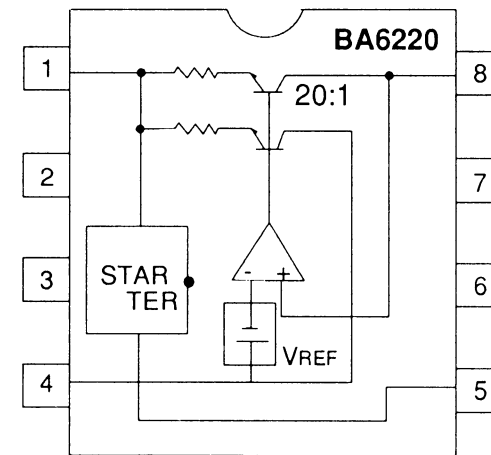
MC34119D

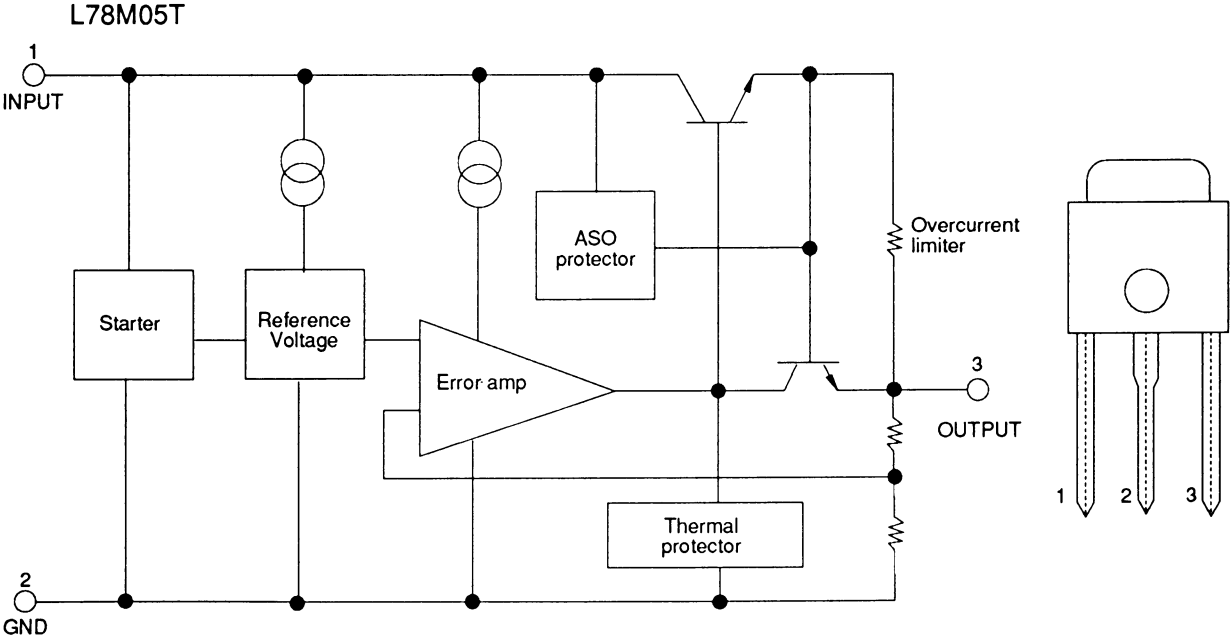
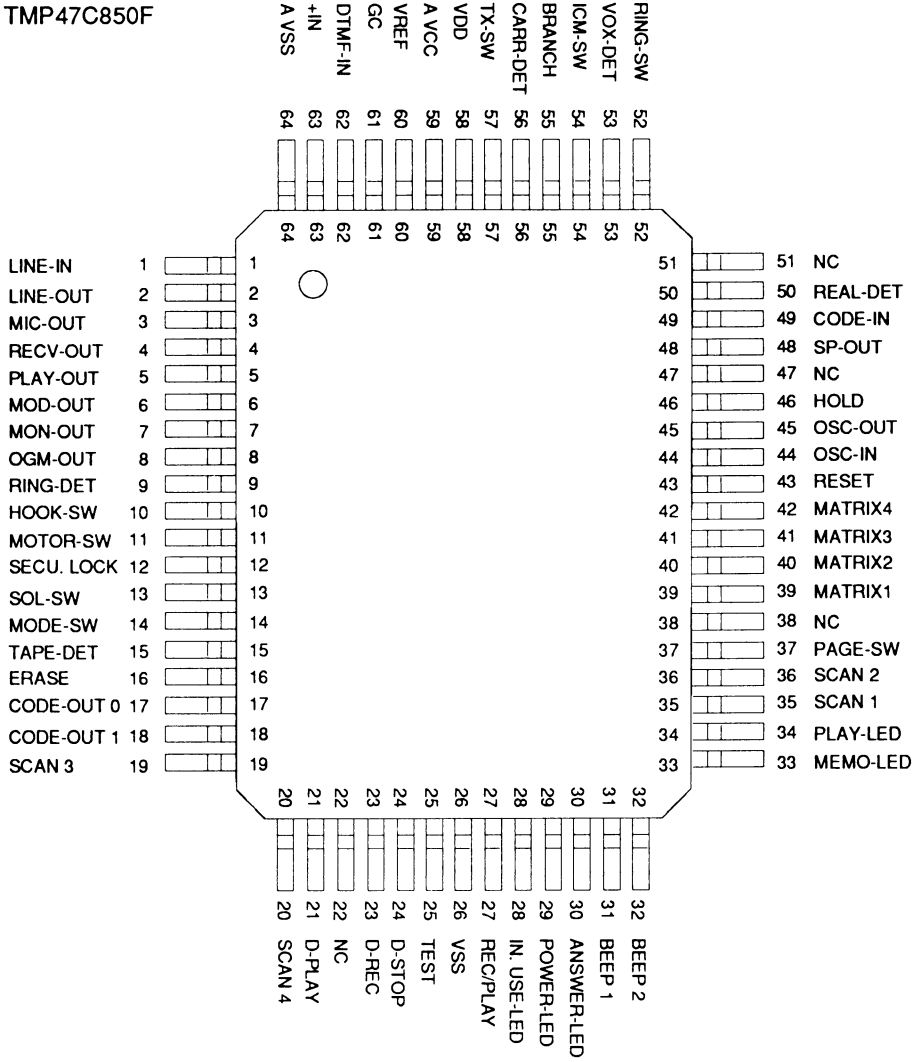


PIN CONNECTIONS



BA6220





SEMICONDUCTOR VOLTAGE CHART

REMOTE

Talk	SW	Talk (V)	Stand-by (V)	Remote (V)
Q1	E	0.17	0.01~0.08	0.17
	B	0.92	0.42~0.75	0.92
	C	2.49	0.42~1.50	2.49
Q2	E	0.77	0~0.35	0.76
	B	1.17	0.45~1.90	1.17
	C	3.31	0.14~0.65	3.30
Q3	E	0	0	0
	B	0.70	0.42~0.66	0.70
	C	2.55	0.41~1.54	2.55
Q4	E	0	0	0
	B	0.78	0.41~0.63	0.79
	C	3.58	0.04~0.06	3.58
Q5	E	0.60	0	0.60
	B	1.12	0.41~0.58	1.13
	C	3.23	0.04~0.06	3.23
Q6	E	0	0	0
	B	0.01	0.62	0.01
	C	0.19	0	0.15
Q7	E	1.66	0.52	1.66
	B	2.33	0.65	2.33
	C	3.46	0.69	3.47
Q8	E	1.66	0.53	1.66
	B	0.99	0.10	0.98
	C	0	0	0
Q9	E	0	0	0
	B	0.64	0.47	0.64
	C	0.98	0.09	0.98
Q10	E	3.40	0.06	3.68
	B	2.79	0.06	3.65
	C	3.39	-0.05	0
Q11	E	0	0	0
	B	0.50	0	0.50
	C	1.12	0.05	1.12
Q12	E	0.51	0	0.51
	B	1.12	0.06	1.12
	C	2.53	0.06	2.53
Q14	E	3.79	3.80	3.79
	B	3.07	3.77	3.07
	C	3.68	0.06	3.68
Q15	E	3.79	3.80	3.79
	B	3.10	3.78	3.10
	C	3.66	0.61	3.66
Q16	E	0.06	0.06	0.06
	B	0	0	0
	C	3.79	3.80	3.79

Talk	SW	Talk (V)	Stand-by (V)	Remote (V)
Q17	E	0	0	0
	B	0.06	0.06	0.06
	C	3.79	3.80	3.79
Q18	E	0	0	0
	B	0	0	0
	C	3.76	3.78	3.76
Q20	E	3.79	3.80	3.79
	B	3.09	3.49~3.77	3.09
	C	3.64	0.49~2.05	3.64
Q21	E	3.67	0.06	3.67
	B	3.63	0.06	3.63
	C	0	0	0
Q22	E	0	0	0
	B	0.10	0.10	0.10
	C	0	0	0

Talk	SW	Talk (V)	Stand-by (V)	Remote (V)
D1	A	0	0	0
	K	3.57	0.04~0.06	3.57
D2	A	0	0	0
	K	3.57	0.04~0.06	3.57
D3	A	0	0	0
	K	1.94	0.48~0.71	1.94
D4	A	0	0	0
	K	2.92	0.49~1.77	2.92
D5	A	2.23	0.78	2.22
	K	1.60	0.39	1.62
D6	A	1.60	0.47	1.61
	K	0.99	0.09	1.01
D7	A	0	0	0
	K	3.80	3.80	3.80
D8	A	0	0	0
	K	3.80	3.80	3.80
D9	A	0	0	0
	K	0	0	0
D10	A	0	0	0
	K	0	0	0
D11	A	0	0	0
	K	0.10	0.10	0.09
LD1	A	3.80	3.80	3.80
	K	1.88	2.36	1.88
LD2	A	3.80	3.80	3.80
	K	2.34	2.35	2.34
IC1	1	3.25	0.49~1.87	3.26
	2	2.78	0.05~1.40	2.78
	3	2.98	0.43~1.74	2.99
	4	3.30	0.52~1.87	3.30
	5	2.92	0.43~1.68	2.92
	6	2.92	0.46~1.73	2.93
	7	2.92	0.45~1.71	2.93
	8	3.29	0.45~1.89	3.30

Talk	SW	Talk (V)	Stand-by (V)	Remote (V)
	9	1.18	0.17~0.72	1.16
	10	0.66	-0.11~0.25	0.67
	11	1.84	-0.02~0.51	1.89
	12	0.49	0~0.13	0.49
	13	2.70	0~0.82	2.56
	14	0	0.93~2.03	0
	15	0	0	0
	16	1.76	0.16~0.92	1.76

Talk	SW	Talk (V)	Stand-by (V)	Remote (V)
IC2	1	3.72	3.72	3.72
	2	0	0	0
	3	3.72	3.72	3.72
	4	0.21	2.40	0.21~2.53
	5	0.02	3.77	0.02
	6	0.01	0.06	3.64
	7	-----	-----	-----
	8	1.80	1.79	1.80
	9	0	0	0
	10	-----	-----	-----
	11	-----	-----	-----
	12	0	0	0
	13	-----	-----	-----
	14	-----	-----	-----
	15	3.75	3.78	3.76
	16	0	0	0
	17	-----	-----	-----
	18	0	0	0
	19	-----	-----	-----
	20	0.01	0.62	0.01
	21	0	0	0
	22	-----	-----	-----
	23	-----	-----	-----
	24	-----	-----	-----
	25	-----	-----	-----
	26	0	0	0
	27	1.98	2.01	1.98
	28	2.14	2.15	2.14
	29	3.76	3.76	3.76
	30	3.80	3.80	3.80
	31	3.80	3.80	3.80
	32	0	3.76	0
	33	3.03	0	3.10
	34	0	3.78	3.76
	35	0	2.17~3.77	0
	36	-----	-----	-----
	37	2.35	2.37	2.34
	38	-----	-----	-----
	39	3.80	3.80	3.79
	40	0	0	0
	41	0	0	0

Talk	SW	Talk (V)	Stand-by (V)	Remote (V)
	42	3.72	3.73	3.72
	43	0	0	0
	44	3.72	3.73	3.72
IC3	1	3.78	3.80	3.78
	2	3.78	3.80	3.78
	3	0	0	0
IC4	1	3.77	3.80	3.77
	2	3.77	3.80	3.77
	3	0	0	0
IC5	1	3.73	3.74	3.73
	2	3.72	3.74	3.71
	3	0	0	0

BASE

		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
IC201	1	4.42	←	←	←	←	←	←	←	←	←	←	←
	2	3.86	←	←	←	←	←	←	←	←	←	←	←
	3	4.29	←	←	←	←	←	←	←	←	←	←	←
	4	4.50	←	←	←	←	←	←	←	←	←	←	←
	5	4.23	←	←	←	←	←	←	←	←	←	←	←
	6	4.12	←	←	←	←	←	←	←	←	←	←	←
	7	4.12	←	←	←	←	←	←	←	←	←	←	←
	8	4.61	←	←	←	←	←	←	←	←	←	←	←
	9	1.50	←	←	←	←	←	←	←	←	←	←	←
	10	0.75	←	←	←	←	←	←	←	←	←	←	←
	11	1.70	←	←	←	←	←	←	←	←	←	←	←
	12	0.41	←	←	←	←	←	←	←	←	←	←	←
	13	4.29	←	←	←	←	←	←	←	←	←	←	←
	14	0	←	←	←	←	←	←	←	←	←	←	←
	15	0	←	←	←	←	←	←	←	←	←	←	←
	16	1.77	←	←	←	←	←	←	←	←	←	←	←
IC202	1	0	←	←	←	←	←	←	←	←	←	←	←
	2	0	←	←	←	←	←	←	←	←	←	←	←
	3	1.70	←	←	←	←	←	←	←	←	←	←	←
	4	0	←	←	←	←	1.65	0	←	←	←	←	1.65
	5	0.02	←	←	←	←	4.28	0.02	←	←	←	←	4.28
	6	0	←	←	←	←	←	←	←	←	←	←	←
	7	0	←	←	←	←	←	←	←	←	←	←	←
	8	0	←	←	←	←	←	←	←	←	←	←	←
	9	0	←	←	←	←	←	←	←	←	←	←	←
	10	0	←	←	←	←	←	←	←	←	←	←	←
	11	0	←	←	←	←	←	←	←	←	←	←	←
	12	0	←	4.93	0	←	←	←	←	←	←	←	4.93
	13	0.03	←	←	4.97	0.03	←	←	←	←	←	←	←
	14	4.97	←	←	←	←	←	←	←	←	←	←	←
IC203	1	0	←	←	←	←	←	←	←	←	←	←	←
	2	0	←	←	←	←	←	←	←	←	←	←	←
	3	0	←	←	←	←	←	←	←	←	←	←	←
	4	0	←	←	←	←	←	←	←	←	←	←	←
	5	0	←	←	←	4.93	0	←	←	←	←	←	←
	6	0	←	←	←	←	←	←	←	←	←	←	←
	7	0	←	←	←	←	←	←	←	←	←	←	←
	8	0.35	←	←	←	←	←	←	←	←	←	←	←
	9	0	←	0.2	0	←	←	←	←	←	←	←	←
	10	1.66	←	←	←	←	←	←	←	←	←	←	←
	11	0	←	1.66	0	←	←	←	←	←	←	←	1.66
	12	0	←	4.93	0	←	←	←	←	←	←	←	4.93
	13	0	←	←	←	←	←	4.92	0	4.92	0/0	←	←
	14	4.97	←	←	←	←	←	←	←	←	←	←	←
IC204	1	AL 7.5	←	←	←	←	←	←	←	←	←	←	←
	2	AL 7.5	←	←	←	←	←	←	←	←	←	←	←
	3	0	←	←	←	←	←	←	←	←	←	←	←
	4	4.92	←	←	←	←	←	←	←	←	←	←	←

		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
IC205	1	AL 7.5	←	←	←	←	←	←	←	←	←	←	←
	2	AL 7.5	←	←	←	←	←	←	←	←	←	←	←
	3	0	←	←	←	←	←	←	←	←	←	←	←
	4	2.47	←	←	←	←	←	←	←	←	←	←	←
IC206	1	2.2	←	3.75	2.2	←	←	←	←	←	←	3.75	←
	2	1.3	←	1.86	1.3	←	←	←	←	←	←	1.86	←
	3	1.40	←	1.89	1.40	←	←	←	←	←	←	1.89	←
	4	0	←	←	←	←	←	←	←	←	←	←	←
	5	0	←	←	←	←	←	←	←	←	←	←	←
	6	0.18	←	0.20	0.18	←	←	←	←	←	←	←	←
	7	0	←	←	←	←	←	←	←	←	←	←	←
	8	3.74	←	←	←	←	←	←	←	←	←	←	←
	9	2.44	←	1.70	2.44	←	←	←	←	←	←	←	1.70
	10	2.45	←	1.71	2.45	←	←	←	←	←	←	←	1.71
	11	0	←	←	←	←	←	←	←	←	←	←	←
	12	2.48	←	←	←	←	←	←	←	←	←	←	←
	13	3.48	←	←	1.0~ 4.0	3.54	1.0~ 4.0	←	←	←	2.1~2.4/ 2.1~2.9	3.48	←
	14	0	←	←	0~ 3.74	0	0~ 3.74	←	←	←	1.9~2.1/ 1.8~2.2	0	←
IC207	1	0	←	←	←	←	←	←	←	←	←	←	←
	2	0	←	←	←	←	←	←	←	←	←	←	←
	3	0	←	←	←	←	←	←	←	←	←	←	←
	4	0.79	←	←	7.90	0.79	7.90	←	←	←	7.95/7.79	0.79	7.90
	5	0.79	←	←	←	←	←	←	←	←	9.02/9.00	0.79	9.01
	6	0	←	←	←	←	←	←	←	←	←	←	←
	7	0	←	←	←	←	←	←	←	←	←	←	←
	8	0.79	←	←	6.64	0.79	6.64	←	←	←	6.72/6.51	0.79	6.64
IC208	1	4.82	←	←	4.77	←	4.82	←	←	←	←	←	←
	2	2.39	←	←	2.38	←	2.39	←	←	←	←	←	←
	3	2.28	←	←	2.25	2.39	2.28	←	←	←	←	←	←
	4	0	←	←	←	←	←	←	←	←	←	←	←
	5	4.74	←	←	4.69	←	4.74	←	←	←	←	←	←
	6	2.24	←	←	2.22	←	2.24	←	←	←	←	←	←
	7	2.26	←	←	2.24	←	2.26	←	←	←	←	←	←
	8	4.69	←	←	0	4.64	4.69	←	←	←	←	←	←
	9	4.69	←	←	4.64	0	4.69	←	←	←	←	←	←
	10	4.69	←	←	4.64	4.64	4.69	←	←	←	←	←	←
	11	0	←	←	4.64	←	0	←	←	←	←	←	←
	12	4.82	←	←	4.05	←	4.82	←	←	←	←	←	←
	13	4.82	←	←	4.77	←	4.82	←	←	←	←	←	←
	14	0	←	←	←	←	0	←	←	←	←	←	←
	15	4.82	←	←	4.28	4.77	4.82	←	←	←	←	←	←
	16	4.68	←	←	2.40	2.56	4.68	←	←	←	←	←	←
	17	4.01	←	←	2.76	←	4.01	←	←	←	←	←	←
	18	2.81	←	←	2.80	2.76	2.81	←	←	←	←	←	←

		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
	19	2.83	←	←	2.7~2.9	←	2.83	←	←	←	←	←	←
	20	3.79	←	←	2.7~2.9	←	2.79	←	←	←	←	←	←
	21	3.76	←	←	2.3~3.3	←	3.76	←	←	←	←	←	←
	22	2.83	←	←	2.3~3.3	←	3.76	←	←	←	←	←	←
	23	3.83	←	←	2.3~3.3	←	3.83	←	←	←	←	←	←
	24	3.83	←	←	2.3~3.3	←	3.83	←	←	←	←	←	←
	25	3.83	←	←	2.3~3.3	←	3.83	←	←	←	←	←	←
	26	2.84	←	←	2.9~3.2	←	2.84	←	←	←	←	←	←
	27	2.7~ 2.9	←	←	←	←	←	←	←	←	←	←	←
	28	4.82	←	←	4.77	←	4.82	←	←	←	←	←	←
IC209	1	2.84	←	←	2.3~3.3	←	2.84	←	←	←	←	←	←
	2	4.68	←	←	2.39	2.56	4.68	←	←	←	←	←	←
	3	4.82	←	←	4.27	4.77	4.82	←	←	←	←	←	←
	4	4.00	←	←	2.76	←	4.00	←	←	←	←	←	←
	5	2.81	←	←	2.76~ 2.80	←	2.81	←	←	←	←	←	←
	6	3.79	←	←	2.6~2.9	←	2.79	←	←	←	←	←	←
	7	2.82	←	←	2.7~2.9	←	2.82	←	←	←	←	←	←
	8	4.82	←	←	4.77	←	4.82	←	←	←	←	←	←
	9	3.83	←	←	2.3~3.3	←	3.83	←	←	←	←	←	←
	10	3.83	←	←	2.3~3.3	←	3.83	←	←	←	←	←	←
	11	2.83	←	←	2.3~3.3	←	2.83	←	←	←	←	←	←
	12	3.76	←	←	2.3~3.3	←	3.76	←	←	←	←	←	←
	13	3.83	←	←	2.3~3.3	←	3.83	←	←	←	←	←	←
	14	4.68	←	←	2.39	2.56	4.68	←	←	←	←	←	←
	15	4.82	←	←	4.77	4.05	4.82	←	←	←	←	←	←
	16	0	←	←	0	←	←	←	←	←	←	←	←
IC210	1	2.84	←	←	2.3~3.3	←	2.84	←	←	←	←	←	←
	2	4.68	←	←	2.39	2.56	4.68	←	←	←	←	←	←
	3	4.82	←	←	4.27	4.77	4.82	←	←	←	←	←	←
	4	4.00	←	←	2.76	←	4.00	←	←	←	←	←	←
	5	2.81	←	←	2.6~2.9	←	2.81	←	←	←	←	←	←

		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
	6	3.79	←	←	2.6~2.9	←	2.79	←	←	←	←	←	←
	7	2.84	←	←	2.6~2.9	←	2.82	←	←	←	←	←	←
	8	2.82	←	←	4.77	←	4.82	←	←	←	←	←	←
	9	3.83	←	←	2.3~3.3	←	3.83	←	←	←	←	←	←
	10	3.83	←	←	2.3~3.3	←	3.83	←	←	←	←	←	←
	11	2.83	←	←	2.3~3.3	←	2.83	←	←	←	←	←	←
	12	3.76	←	←	2.3~3.3	←	3.76	←	←	←	←	←	←
	13	3.83	←	←	2.36~ 3.33	←	←	←	←	←	←	←	←
	14	4.68	←	←	2.40	4.69	←	←	←	←	←	←	←
	15	4.82	←	←	4.77	←	4.84	←	←	←	←	←	←
	16	0	←	←	0	←	←	←	←	←	←	←	←
IC211	1	0	←	←	←	←	←	←	←	←	←	←	←
	2	4.95	←	←	0~4.95	0	0~ 4.95	←	←	←	4.95/4.95	0~4.95	←
	3	0.96	←	←	1.00~ 2.00	2.0	1.00~ 2.00	←	←	←	0.96/0.96	1.00~ 2.00	←
	4	0.40	←	←	←	←	←	←	←	←	←	0.44	0.40
	5	0.92	←	←	1.00~ 1.50	←	←	←	←	←	0.92/0.92	1.10~ 1.20	1.0~ 1.5
	6	4.98	←	←	←	←	←	←	←	←	←	←	←
	7	1.20	←	←	←	←	←	←	←	←	←	←	←
	8	1.19	←	←	←	←	←	←	←	←	←	←	←
	9	0	←	←	←	←	4.81	0	4.81	0	←	←	4.81
	10	0	←	←	←	←	1.60	0	1.60	0	←	←	1.60
	11	0.65	←	←	2.20	0.65	2.20	0.65	2.20	0.65	←	←	2.20
	12	1.52	←	←	←	←	←	←	←	←	←	←	←
	13	1.66	←	←	←	←	←	←	←	←	←	←	←
	14	1.53	←	←	←	←	←	←	←	←	←	←	←
	15	1.52	←	←	←	←	←	←	←	←	←	←	←
	16	1.52	←	←	←	←	←	←	←	←	←	←	←
IC212	1	0.02	←	←	←	←	4.27	0.03	←	←	←	←	4.27
	2	0	←	←	←	←	←	←	←	←	←	←	←
	3	0.03	←	←	4.97	0.03	←	←	←	←	←	←	←
	4	0	←	4.93	0	←	←	←	←	←	←	←	4.93
	5	0	←	←	←	←	←	4.92	0	4.92	4.92/4.92	0	←
	6	0	←	←	←	←	←	←	←	←	←	←	←
	7	0	←	←	←	←	←	←	←	←	←	←	←
	8	0	←	←	←	←	←	←	←	←	←	←	←
	9	4.91	←	←	←	←	←	←	←	←	←	←	←
	10	0.02	←	←	←	←	←	2.84	0	←	←	←	←
	11	1.08	←	←	0	1.08	0	1.08	0	1.08	0/0	0	←
	12	0	4.48	0	←	←	←	←	←	←	←	←	←
	13	0	←	←	←	←	←	←	←	←	←	←	←

		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
	14	4.67	←	←	0	4.67	0	←	←	←	←	4.67	0
	15	0	←	←	←	←	←	←	←	←	←	←	←
	16	4.67	←	←	0	4.67	0	4.67	0	4.67	←	←	0
	17	4.46	←	←	←	←	←	←	←	←	←	←	←
	18	0	←	←	←	←	←	←	←	←	←	←	←
	19	4.65	←	←	←	←	←	←	←	←	←	←	←
	20	←	←	←	←	←	←	←	←	←	←	←	←
	21	4.69	←	←	←	0	4.69	←	←	←	←	←	←
	22	-----											
	23	←	←	0	4.69	←	←	←	←	←	←	←	←
	24	0	←	←	4.64		0	←	←	←	←	←	←
	25	0	←	←	←	←	←	←	←	←	←	←	←
	26	0	←	←	←	←	←	←	←	←	←	←	←
	27	0	←	←	2.20	0	2.20	0	2.20	0	←	←	2.20
	28	3.51	←	0.12	3.51	←	←	←	←	←	←	0.12~ 3.51	0.12
	29	0.12	←	←	←	←	←	←	←	←	←	←	←
	30	3.50	←	←	0.12~ 3.51	←	0.12	3.51	←	←	←	←	←
	31	4.60	←	4.88	4.60	←	←	←	←	←	←	2.6~ 4.9	4.88
	32	4.35	←	4.67	4.35	←	←	←	0.12	0.12~ 4.64	4.65/4.65	4.64	4.67
	33	4.65	←	4.74	←	←	←	←	0.12	0.12~ 4.64	4.65/4.65	4.74	0.12
	34	4.65	←	←	←	←	←	0.12	4.65	0.12	4.65	←	←
	35	0	←	←	←	←	←	←	←	←	←	←	←
	36	0	←	←	←	←	←	←	←	←	←	←	←
	37	4.65	←	4.85	4.65	←	←	←	←	←	←	←	4.65
	38	-----											
	39	4.62	←	4.83	4.65	←	←	←	←	←	←	←	←
	40	4.62	←	4.83	4.65	←	←	←	←	←	←	←	←
	41	4.62	←	4.83	4.65	←	←	←	←	←	←	←	←
	42	4.62	←	4.83	4.65	←	←	←	←	←	←	←	←
	43	4.87	←	5.06	4.87	←	←	←	←	←	←	←	←
	44	2.41	←	2.60	2.41	←	←	←	←	←	←	←	←
	45	2.53	←	2.60	2.41	←	←	←	←	←	←	←	←
	46	4.97	←	5.05	4.98	←	←	←	←	←	←	←	←
	47	-----											
	48	8.96	←	←	←	0.05	←	←	8.96	0.05	8.96	0.05	8.96
	49	2.5~ 3.0	←	3.74	←	←	2.5~ 3.6	←	←	←	←	3.74	3.74
	50	3.74	←	←	0~3.74	0~3.74	0~ 3.74	←	←	←	1.7~2.4/ 1.7~2.4	3.24	0~ 3.74
	51	-----											
	52	4.65	←	←	←	←	←	←	←	←	←	←	←

		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
	53	4.95	←	←	0~4.95	←	←	←	←	←	4.95/4.95	0~4.95	←
	54	4.65	←	←	←	←	←	←	←	←	←	←	←
	55	3.74	←	←	←	←	←	←	←	←	←	←	←
	56	4.30	←	1.34	1.34	←	←	4.30	←	←	←	1.34	←
	57	4.40	0.01	←	4.40	←	←	←	←	←	←	0.01	←
	58	4.65	←	←	←	←	←	←	←	←	←	←	←
	59	4.65	←	←	←	←	←	←	←	←	←	←	←
	60	2.37	←	←	←	←	←	←	←	←	←	←	←
	61	2.36	←	←	←	←	←	←	←	←	←	←	←
	62	2.36	←	←	←	←	←	←	←	←	←	←	←
	63	2.37	←	←	←	←	←	←	←	←	←	←	←
	64	0	←	←	←	←	←	←	←	←	←	←	←
	IC213 1	0	←	←	←	←	←	←	←	←	←	←	←
	2	0	←	←	←	4.12	0	4.12	0	4.12	4.12/4.12	←	0
	3	0	←	←	←	4.09	0	4.09	0	4.09	4.09/4.09	←	0
	4	0	←	←	←	4.16	0	4.16	0	4.16	4.16/4.16	←	0
	5	0	←	←	←	4.13	0	4.13	0	4.13	4.13/4.13	←	0
	6	0	←	←	←	9.03	0	9.03	0	9.03	9.03/9.03	←	0
	7	0	←	←	←	←	←	←	←	←	←	←	0
	8	0	←	←	←	4.18	0	4.18	0	4.18	4.18/4.18	0	0
IC214	1	9.05	←	←	←	←	←	←	←	←	←	←	←
	2	0	←	←	←	←	←	←	←	←	←	←	←
	3	14.07	←	←	←	←	←	←	←	←	←	←	←
IC215	1	9.05	←	←	←	←	←	←	←	←	←	←	←
	2	0	←	←	←	←	←	←	←	←	←	←	←
	3	4.98	←	←	←	←	←	←	←	←	←	←	←

		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
Q201	E	0	←	←	←	←	←	←	←	←	←	←	←
	C	2.92	←	←	←	←	←	←	←	←	←	←	←
	B	0.79	←	←	←	←	←	←	←	←	←	←	←
Q202	E	0.18	←	←	←	←	←	←	←	←	←	←	←
	C	4.98	←	←	←	←	←	←	←	←	←	←	←
	B	0.84	←	←	←	←	←	←	←	←	←	←	←
Q203	E	0	←	←	←	←	←	←	←	←	←	←	←
	C	3.85	←	←	←	←	←	←	←	←	←	←	←
	B	0.73	←	←	←	←	←	←	←	←	←	←	←
Q204	E	0	←	←	←	←	←	←	←	←	←	←	←
	C	0.01	←	4.75	0.01	←	←	←	←	←	←	4.75	←
	B	0.67	←	0.73	0.67	←	←	←	←	←	←	0.73	←

		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
Q205	E	0.005	←	0.63	0.005	←	←	←	←	←	←	←	0.63
	C	0.017	←	4.10	0.017	←	←	←	←	←	←	4.10	←
	B	0.64	←	0.46	0.64	←	←	←	←	←	←	0.57	0.46
Q206	E	4.98	←	←	←	←	←	←	←	←	←	←	←
	C	0.01	←	4.85	0.01	←	←	←	←	←	←	4.85	←
	B	4.42	←	4.27	4.42	←	←	←	←	←	←	4.27	←
Q208	E	4.98	←	←	←	←	←	←	←	←	←	←	←
	C	0	←	←	4.78	0	4.78	0	4.78	0	←	←	4.78
	B	4.83	←	←	4.27	4.83	4.27	4.83	4.27	4.83	←	←	4.27
Q209	E	0.23	←	←	←	←	←	←	←	←	←	←	←
	C	1.44	←	←	←	←	←	←	←	←	←	←	←
	B	0.85	←	←	←	←	←	←	←	←	←	←	←
Q210	E	0.63	←	←	←	←	←	←	←	←	←	←	←
	C	7.20	←	←	←	←	←	←	←	←	←	←	←
	B	1.29	←	←	←	←	←	←	←	←	←	←	←
Q211	E	0	←	←	←	←	←	←	←	←	←	←	←
	C	9.06	←	0.10	9.06	←	0.10	9.06	←	←	←	←	0.10
	B	0.02	←	0.70	0.02	←	0.70	0.02	←	←	←	←	0.70
Q213	E	0.99	←	←	←	←	←	←	←	←	←	←	←
	C	2.13	←	←	←	←	←	←	←	←	←	←	←
	B	1.58	←	←	←	←	←	←	←	←	←	←	←
Q214	E	0.06	←	←	←	←	←	←	←	←	←	←	←
	C	2.48	←	←	←	←	←	←	←	←	←	←	←
	B	0.67	←	←	←	←	←	←	←	←	←	←	←
Q215	E	0.25	←	←	←	←	←	←	←	←	←	←	←
	C	2.32	←	←	←	←	←	←	←	←	←	←	←
	B	0.84	←	←	←	←	←	←	←	←	←	←	←
Q216	E	9.06	←	←	←	←	←	←	←	←	←	←	←
	C	0.81	←	←	9.03	0.81	9.03	0.81	9.03	0.81	9.03/ 9.00	0.83	9.03
	B	8.97	←	←	8.32	8.97	8.32	8.97	8.32	8.97	8.32/ 8.30	8.97	8.32
Q217	E	0	←	←	←	←	←	←	←	←	←	←	←
	C	0.81	←	←	9.02	0.81	9.02	0.81	9.02	0.81	9.02/ 9.00	0.81	9.02
	B	0.01	←	←	←	←	←	←	←	←	←	←	←
Q218	E	9.06	←	←	←	←	←	←	←	←	←	←	←
	C	0	9.05	0	←	←	←	←	←	←	←	←	←
	B	9.04	8.45	9.04	←	←	←	←	←	←	←	←	←
Q219	E	0	←	0	←	←	←	←	←	←	←	←	←
	C	4.88	←	←	0	←	←	←	←	←	←	←	←
	B	0	←	0	←	←	←	←	←	←	←	←	←
Q222	E	9.06	←	←	←	←	←	←	←	←	←	←	←
	C	0	←	←	←	9.03	←	←	0	9.03	0	9.03	0
	B	8.98	←	←	←	8.35	←	←	8.98	8.35	8.98	8.35	8.98
Q223	E	0	←	←	←	←	←	←	←	←	←	←	←
	C	8.97	←	←	0.05	8.97	0.05	←	←	←	←	8.97	0.05
	B	0.04	←	←	0.70	0.04	0.70	←	←	←	←	0.04	0.70

		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
Q224	E	0	←	←	←	←	←	←	←	←	←	←	←
	C	0.04	←	←	0.70	0.04	0.70	←	←	←	←	0.05	0.70
	B	0.61	←	←	0	0.61	0	←	←	←	←	0.61	0
Q225	E	4.98	←	←	←	←	←	←	←	←	←	←	←
	C	0	←	←	←	←	←	←	←	←	←	←	←
	B	4.60	←	←	←	←	←	←	←	←	←	←	←
Q226	E	0.19	←	←	←	←	←	←	←	←	←	←	←
	C	2.54	←	←	←	←	←	←	←	←	←	←	←
	B	0.25	←	←	←	←	←	←	←	←	←	←	←
Q227	E	2.75	←	←	←	←	←	←	←	←	←	←	←
	C	0	←	←	←	←	←	←	←	←	←	←	←
	B	1.01	←	←	←	←	←	←	←	←	←	←	←
Q228	E	0	←	←	←	←	←	←	←	←	←	←	←
	C	0	←	←	←	←	←	←	←	←	←	←	←
	B	0.02	←	←	←	←	←	←	←	←	←	←	←
Q229	E	0.79	←	←	←	←	←	←	←	←	←	←	←
	C	2.60	←	←	←	←	←	←	←	←	←	←	←
	B	0.15	←	←	←	←	←	←	←	←	←	←	←
Q230	E	0	←	←	←	←	←	←	←	←	←	←	←
	C	0	←	←	←	←	←	←	←	←	←	←	←
	B	0.03	←	←	←	←	←	←	←	←	←	0.03~ 1.78	0.03
Q231	E	0	←	←	←	←	←	←	←	←	←	←	←
	C	0	←	←	←	←	←	←	←	←	←	←	←
	B	3.52	←	←	←	←	←	←	←	←	←	←	←
Q232	E	4.98	←	←	←	←	←	←	←	←	←	←	←
	C	4.52	←	←	←	←	←	←	←	←	←	←	←
	B	3.52	←	←	←	←	←	←	←	←	←	←	←
Q233	E	3.19	←	←	←	←	←	←	←	←	←	←	←
	C	4.98	←	←	←	←	←	←	←	←	←	←	←
	B	0.20	←	←	←	←	←	←	←	←	←	←	←

		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
D200	A	0	←	←	←	←	←	←	←	←	←	←	←
	K	3.20	←	←	←	←	←	←	←	←	←	3.12~ 3.25	3.20
D201	A	0.53	←	0.88	0.83	←	0.53	←	←	←	←	←	0.88
	K	0.96	←	0.91	0.92	←	0.96	←	←	←	←	0.91	←
D202	A	9.06	←	0.10	9.06	←	0.10	9.06	←	←	←	←	←
	K	9.06	←	←	←	←	←	←	←	←	←	←	9.06
D203	A	4.91	←	←	←	←	←	←	←	←	←	←	←
	K	4.66	←	←	←	←	←	←	←	←	←	←	←
D204	A	15.4	←	←	←	←	←	←	←	←	←	←	←
	K	14.6	←	←	←	←	←	←	←	←	←	←	←
D205	A	0	←	←	←	←	←	←	←	←	←	←	←
	K	9.05	4.80	9.05	←	←	←	←	←	←	←	←	←
D206	A	0	←	←	←	←	←	←	←	←	←	←	←
	K	0	←	←	←	←	←	←	←	←	←	←	←

Ref. No.	Description	Part No.
T10	Casing Coil	LFA07V*SF008
T11	Casing Coil	LFA07V*SF012
Semiconductors		
D1	Diode	RLS-73
D2	Diode	RLS-73
D3	Diode	1SV164
D4	Diode	HZ3BLL
D5	Diode	RLS-73
D6	Diode	RLS-73
D10	Diode	RLS-73
D11	Diode	RLS-73
D12	Diode	RLS-73
IC1	IC	MC3361BD
Q1	Transistor	2SC1674L
Q2	Transistor	2SC1675L
Q3	Transistor	2SC1674L
Q4	Transistor	2SC2026P or 2SC2026L
Q5	Transistor	2SC1675L
Q6	Transistor	2SC4038R
Q7	Transistor	2SC4038R
Q8	Transistor	2SA1561R
Q9	Transistor	2SC4038R
Q10	Transistor	2SA1037KR
Q11	Transistor	2SC2412KR
Q12	Transistor	2SC2412KR
Q21	Transistor	2SA1037KR
Q22	Transistor	2SC2412KR
Resistors		
R1	Chip Fixed RES. 1/10W J 68K ohm	134F683
R2	Chip Fixed RES. 1/10W J 470 ohm	134F471
R3	Carbon RES. 1/6W J 10K ohm	132A103
R4	Chip Fixed RES. 1/10W J 5.6K ohm	134F562
R5	Chip Fixed RES. 1/10W J 1K ohm	134F102
R6	Carbon RES. 1/6W J 470 ohm	132A471
R7	Chip Fixed RES. 1/10W J 100K ohm	134F104
R8	Chip Fixed RES. 1/10W J 33K ohm	134F333
R9	Chip Fixed RES. 1/10W J 33K ohm	134F333
R10	Chip Fixed RES. 1/10W J 270K ohm	134F274
R11	Chip Fixed RES. 1/10W J 220K ohm	134F224
R12	Chip Fixed RES. 1/10W J 18K ohm	134F183
R13	Carbon RES. 1/6W J 47K ohm	132A473
R14	Carbon RES. 1/6W J 33 ohm	132A330
R15	Chip Fixed RES. 1/10W J 330 ohm	134F331
R16	Chip Fixed RES. 1/10W J 10 ohm	134F100
R17	Chip Fixed RES. 1/10W J 15K ohm	134F153
R18	Chip Fixed RES. 1/10W J 330 ohm	134F331
R19	Chip Fixed RES. 1/10W J 470 ohm	134F471
R20	Chip Fixed RES. 1/10W J 120K ohm	134F124
R21	Chip Fixed RES. 1/10W J 10K ohm	134F103
R22	Chip Fixed RES. 1/10W J 680K ohm	134F684
R23	Chip Fixed RES. 1/10W J 4.7K ohm	134F472
R24	Chip Fixed RES. 1/10W J 100K ohm	134F104
R25	Chip Fixed RES. 1/10W J 270K ohm	134F274
R26	Chip Fixed RES. 1/10W J 10K ohm	134F103
R27	Chip Fixed RES. 1/10W J 100K ohm	134F104
R28	Chip Fixed RES. 1/10W J 33K ohm	134F333
R29	Chip Fixed RES. 1/10W J 120K ohm	134F124
R30	Chip Fixed RES. 1/10W J 470 ohm	134F471
R31	Chip Fixed RES. 1/10W J 47 ohm	134F470

Ref. No.	Description	Part No.
R32	Chip Fixed RES. 1/10W J 100 ohm	134F101
R33	Chip Fixed RES. 1/10W J 22 ohm	134F220
R35	Chip Fixed RES. 1/10W J 47K ohm	134F473
R36	Chip Fixed RES. 1/10W J 2.2K ohm	134F222
R37	Chip Fixed RES. 1/10W J 39K ohm	134F393
R38	Chip Fixed RES. 1/10W J 330K ohm	134F334
R39	Chip Fixed RES. 1/10W J 100K ohm	134F104
R40	Chip Fixed RES. 1/10W J 1K ohm	134F102
R41	Chip Fixed RES. 1/10W J 1.2K ohm	134F122
R42	Chip Fixed RES. 1/10W J 220K ohm	134F224
R43	Chip Fixed RES. 1/10W J 2.7K ohm	134F272
R48	Chip Fixed RES. 1/10W J 22K ohm	134F223
R60	Chip Fixed RES. 1/10W J 3.3 ohm	134F339
R62	Chip Fixed RES. 1/10W J 100K ohm	134F104
R68	Chip Fixed RES. 1/10W J 18K ohm	134F183
R71	Chip Fixed RES. 1/10W J 100K ohm	134F104
R72	Chip Fixed RES. 1/10W J 560K ohm	134F564
R73	Chip Fixed RES. 1/10W J 68K ohm	134F683
R89	Chip Fixed RES. 1/10W J 120K ohm	134F124
R90	Chip Fixed RES. 1/10W J 22K ohm	134F223
R92	Chip Fixed RES. 1/10W J 2.2K ohm	134F222
R93	Chip Fixed RES. 1/10W J 100 ohm	134F101
R98	Chip Fixed RES. 1/10W J 100K ohm	134F104
R99	Chip Fixed RES. 1/10W J 2.7K ohm	134F272
Volumes		
VR1	Semifixed RES. 200K ohm	138J941
VR2	Semifixed RES. 5K ohm	138J935
VR3	Semifixed RES. 200K ohm	138J941
Switches		
SW1	Slide SW	1621745
SW2	Slide SW	1621745
Miscellaneous		
CF1	Ceramic Filter 455KHz	1810480
CN2	Base Post	1740764
L2	Axial Inductor 0.33uH	216533A
L3	Axial Inductor 4.7uH	2165479
L4	Axial Inductor 560uH	2157561
SP1	Speaker DR-924	1520624
SP2	Speaker CB-12AP	DBD*****CZ002
X1	X'tal RX 4ch 11.56375MHz	FXE116LDS002 or
	X'tal RX 8ch 11.60375MHz	FXE116LDS003 or
	X'tal RX 6ch 11.57875MHz	FXE116LDS006 or
	X'tal RX 10ch 11.62875MHz	FXE116LDS005
	X'tal TX 4ch 16.59MHz	FXD166LDS002 or
	X'tal TX 8ch 16.6433MHz	FXD166LDS003 or
	X'tal TX 6ch 16.61MHz	FXD166LDS006 or
	X'tal TX 10ch 16.6566MHz	FXD166LDS005
	Ribbon Wire 2Pin	WX3Z02K63305
	Ribbon Wire 2Pin	WX3Z02K63309
	Ribbon Wire 13Pin	WX3Z13J63405
	Wire Ass'y 1Pin ANT	WXIG5550-006
X2	Lead Wire 1Pin	WX3801A62211
	1.3 Ø Pin	1720688

Ref. No.	Description	Part No.
	REMOTE KEY PCB	-----
Capacitors		
C64	Chip CAP. B-(K) 0.01uF	12B2103
C65	Chip CAP. B-(K) 0.01uF	72B2103
C67	Chip CAP. F-(Z) 1uF	CA1C010TU003
C68	Chip CAP. F-(Z) 0.1uF	12F2104
C69	Chip CAP. SL-(J) 22PF	1270220
C70	Chip CAP. SL-(J) 22PF	1270220
C73	Chip CAP. B-(K) 0.022uF	12B2223
C74	Chip CAP. B-(K) 0.022uF	12B2223
C81	Ceramic CAP. CH (J) 4PF	12CH409S
C82	Chip CAP. F-(Z) 1uF	CA1C010TU003
C92	Axial CAP. Y-(M) 0.01uF	3Y46103
Semiconductors		
D7	Diode	1N4001
D8	Diode	MTZ5.6B
D9	Diode	RLS-73
IC2	IC	QSMQA0RTS002
IC3	IC	S-80732AL-AW
IC4	IC	S-80725AN-DN
IC5	IC	S-80720AN-DH
Q14	Transistor	2SA1037KR
Q15	Transistor	2SA1037KR
Q16	Transistor	2SC2412KR
Q17	Transistor	2SC2412KR
Q18	Transistor	2SC2412KR
Q20	Transistor	2SA1037KR
Resistors		
R34	Chip Fixed RES. 1/10W J 22K ohm	134F273
R44	Chip Fixed RES. 1/10W J 56K ohm	134F563
R45	Chip Fixed RES. 1/10W J 15K ohm	134F153
R47	Chip Fixed RES. 1/10W J 39K ohm	134F393
R49	Chip Fixed RES. 1/10W J 68K ohm	134F683
R50	Chip Fixed RES. 1/8W J 27K ohm	134H273
R51	Chip Fixed RES. 1/8W J 27K ohm	134H273
R52	Chip Fixed RES. 1/10W J 47K ohm	134F473
R53	Chip Fixed RES. 1/10W J 27K ohm	134F273
R54	Chip Fixed RES. 1/10W J 1K ohm	134F103
R56	Chip Fixed RES. 1/10W J 560 ohm	134F561
R57	Chip Fixed RES. 1/10W J 560 ohm	134F561
R58	Chip Fixed RES. 1/10W J 10K ohm	134F103
R59	Chip Fixed RES. 1/10W J 47K ohm	134F473
R61	Chip Fixed RES. 1/10W J 100K ohm	134F104
R69	Chip Fixed RES. 1/8W J 100K ohm	134H473
R70	Chip Fixed RES. 1/10W J 100K ohm	134F104
R74	Chip Fixed RES. 1/8W J 100K ohm	134H104
R75	Chip Fixed RES. 1/8W J 100K ohm	134H104
R76	Chip Fixed RES. 1/10W J 100K ohm	134F104
R77	Chip Fixed RES. 1/8W J 33K ohm	134H333
R78	Chip Fixed RES. 1/10W J 100K ohm	134F104
R79	Chip Fixed RES. 1/8W J 100K ohm	134H104
R80	Chip Fixed RES. 1/10W J 10K ohm	134F103
R81	Chip Fixed RES. 1/10W J 220K ohm	134F224
R82	Chip Fixed RES. 1/10W J 220K ohm	134F224
R83	Chip Fixed RES. 1/10W J 220K ohm	134F224
R84	Chip Fixed RES. 1/10W J 220K ohm	134F224
R85	Chip Fixed RES. 1/10W J 220K ohm	134F224
R86	Chip Fixed RES. 1/10W J 220K ohm	134F224

Ref. No.	Description	Part No.
R87	Chip Fixed RES. 1/10W J 220K ohm	134F224
R88	Chip Fixed RES. 1/10W J 220K ohm	134F224
R91	Chip Fixed RES. 1/10W J 33K ohm	134F333
R95	Chip Fixed RES. 1/10W J 100K ohm	134F104
R96	Chip Fixed RES. 1/8W J 10 ohm	134H100
R97	Chip Fixed RES. 1/10W J 56K ohm	134F563
Switches		
SW3	Slide SW	1621745
SW4	Push SW	5622157
Miscellaneous		
BT101	NI-CD Battery 3N-270AAC	XB0N271SY001
CN1	Base Post	5700586
LD1	LED	SLR-34-MG
LD2	LED	SLR-34-MG
MC101	ECM	DMEEX** HD001
X3	X'tal 3.84MHz	FXD385LCT001

BASE UNIT

Ref. No.	Description	Part No.
	BASE UNIT	BG5560F01A50
	Consists of the following :	
	BASE MAIN PCB	-----
	BASE CONTROL PCB	-----

Ref. No.	Description	Part No.
	BASE MAIN PCB	-----
Capacitors		
C200	Chip CAP. B-(K) 0.01uF	12B2103
C201	Chip CAP. SL-(J) 100PF	1270101
C202	Chip CAP. SL-(J) 100PF	1270101
C203	Chip CAP. B-(K) 1000PF	12B2102
C204	Chip CAP. B-(K) 0.01uF	12B2103
C205	Chip CAP. SL-(J) 10PF	7270100
C206	Chip CAP. B-(K) 1000PF	12B2102
C207	Chip CAP. B-(K) 0.01uF	12B2103
C208	Chip CAP. SL-(J) 10PF	1270100
C209	Chip CAP. SL-(J) 5.6PF	1270569
C210	Chip CAP. SL-(J) 18PF	1270180
C211	Chip CAP. SL-(J) 68PF	1270680
C212	Chip CAP. B-(K) 220PF	12B3221
C213	Chip CAP. B-(K) 0.01uF	12B2103
C214	Chip CAP. SL-(J) 27PF	1270270
C215	Chip CAP. SL-(J) 10PF	1270100
C216	Chip CAP. SL-(J) 39PF	7270390
C217	Chip CAP. B-(K) 0.01uF	12B2103
C218	Chip CAP. SL-(J) 68PF	1270680
C219	Chip CAP. SL-(J) 56PF	1270560
C220	Chip CAP. SL-(J) 68PF	1270680
C221	Chip CAP. F-(Z) 0.1uF	12F2104
C222	Chip CAP. F-(Z) 0.1uF	12F2104
C223	ELE. CAP 10uF/6.3V	526R106
C224	Chip CAP. B-(K) 0.01uF	12B2103
C225	Chip CAP. B-(K) 0.01uF	12B2103
C226	Axial CAP. B-(K) 100PF	3B43101
C227	Axial CAP. X-(M) 2200PF	3X46222
C229	Axial CAP. F-(Z) 0.1uF	3F43104
C230	ELE. CAP. 2.2uF/50V	126F225
C231	Chip CAP. SL-(J) 39PF	1270390
C232	Chip CAP. B-(K) 1000PF	12B2102

Ref. No.	Description	Part No.
C234	Chip CAP. B-(K) 0.01uF	12B2103
C235	Chip CAP. UJ 120PF	12UJ121C
C236	Chip CAP. UJ 56PF	12UJ560C
C237	Chip CAP. B-(K) 470PF	12B3471
C238	ELE. CAP. 1uF/50V	126F105
C240	Axial CAP. F-(Z) 0.022uF	3F42223
C243	Chip CAP. F-(Z) 0.1uF	12F2104
C244	Chip CAP. F-(Z) 0.1uF	12F2104
C246	Chip CAP. F-(Z) 0.1uF	12F2104
C247	Chip CAP. F-(Z) 0.1uF	12F2104
C248	Chip CAP. F-(Z) 0.1uF	12F2104
C249	Chip CAP. F-(Z) 0.1uF	12F2104
C250	Chip CAP. F-(Z) 0.1uF	12F2104
C251	Chip CAP. B-(K) 0.01uF	72B2103
C253	Chip CAP. F-(Z) 0.22uF	12F2224
C254	Chip CAP. B-(K) 0.022uF	12B2223
C256	Chip CAP. B-(K) 1000PF	12B2102
C257	Chip CAP. B-(K) 0.0012uF	12B2122
C258	ELE. CAP. 1uF/50V	526W105
C259	Chip CAP. B-(K) 0.0056uF	12B3562
C260	Axial CAP. F-(Z) 0.022uF	3F42223
C261	Chip CAP. B-(K) 0.01uF	12B2103
C262	Chip CAP. B-(K) 0.01uF	12B2103
C263	ELE. CAP. 10uF/6.3V	526R106
C264	ELE. CAP. 10uF/16V	526T106
C265	ELE. CAP. 22uF/6.3V	526R226
C266	ELE. CAP. (B.P) 10uF/16V	126U106
C267	Metalized Film CAP. 0.22uF/250V	122Z419
C268	ELE. CAP. 1uF/50V	526W105
C269	ELE. CAP. 1uF/50V	526W105
C270	ELE. CAP. 10uF/10V	126B106
C271	Chip CAP. B-(K) 0.022uF	12B2223
C272	Chip CAP. B-(K) 0.01uF	12B2103
C273	Chip CAP. B-(K) 0.022uF	12B2223
C274	Chip CAP. B-(K) 560PF	12B3561
C276	ELE. CAP. 1uF/50V	126F105
C277	ELE. CAP. 10uF/16V	126C106
C278	ELE. CAP. 100uF/10V	126B107
C279	Chip CAP. B-(K) 1000PF	12B2102
C280	Chip CAP. F-(Z) 0.1uF	12F2104
C283	Chip CAP. B-(K) 0.01uF	12B2103
C284	Chip CAP. B-(K) 1800PF	12B2182
C285	ELE. CAP. 0.1uF/50V	526W104
C286	ELE. CAP. 22uF/6.3V	126A226
C287	Chip CAP. B-(K) 2700PF	12B2272
C289	ELE. CAP. 100uF/10V	126B107
C290	Chip CAP. B-(K) 1000PF	12B2102
C291	Chip CAP. F-(Z) 0.1uF	12F2104
C292	Semiconductor CAP. 0.039uF	12Y2393
C293	Chip CAP. B-(K) 1000PF	12B2102
C294	Chip CAP. F-(Z) 0.1uF	12F2104
C295	Chip CAP. B-(K) 470PF	12B3471
C296	ELE. CAP. 1uF/50V	526W105
C297	Chip CAP. SL-(J) 150PF	1270151
C298	ELE. CAP. 47uF/10V	526S476
C300	Chip CAP. B-(K) 0.0047uF	12B3472
C302	Chip CAP. B-(K) 0.022uF	12B2223
C303	Chip CAP. B-(K) 0.022uF	12B2223
C304	Chip CAP. B-(K) 0.0027uF	12B2272
C305	Chip CAP. B-(K) 0.01uF	12B2103

Ref. No.	Description	Part No.
C306	Chip CAP. B-(K) 0.022uF	12B2223
C307	Chip CAP. F-(Z) 0.1uF	12F2104
C310	Chip CAP. B-(K) 470PF	12B3471
C311	Chip CAP. B-(K) 470PF	12B3471
C312	Chip CAP. B-(K) 470PF	12B3471
C313	Chip CAP. B-(K) 470PF	12B3471
C314	Chip CAP. B-(K) 0.001uF	12B2102
C316	ELE. CAP. 47uF/10V (L.L.)	124E476
C317	Chip CAP. B-(K) 0.01uF	12B2103
C318	Chip CAP. SL-(J) 100PF	1270101
C319	Chip CAP. B-(K) 0.022uF	12B2223
C320	Chip CAP. B-(K) 0.022uF	12B2223
C321	ELE. CAP. 220uF/10V	126B227
C322	Chip CAP. B-(K) 0.022uF	12B2223
C323	ELE. CAP. 220uF/6.3V	126A227
C324	Chip CAP. B-(K) 0.022uF	12B2223
C325	Chip CAP. B-(K) 0.022uF	12B2223
C326	ELE. CAP. 2.2uF/50V	126F225
C329	Chip CAP. B-(K) 0.022uF	12B2223
C330	ELE. CAP. 2200PF/5.5V	126B228
C331	Chip CAP. SL-(J) 5PF	1270509
C332	Chip CAP. SL-(J) 5PF	1270509
C333	ELE. CAP. 10uF/10V	526S106
C334	Chip CAP. B-(K) 1000PF	12B2102
C335	ELE. CAP. 100uF/10V	526S107
C336	ELE. CAP. 22uF/6.3V	126A226
C337	ELE. CAP. 1000uF/10V	CEIAMZUAA102
C338	Chip CAP. B-(K) 0.047uF	12B2473
C339	Chip CAP. F-(Z) 0.1uF	12F2104
C340	Chip CAP. B-(K) 0.0027uF	12B2272
C341	Chip CAP. F-(Z) 0.1uF	12F2104
C342	Chip CAP. B-(K) 0.0047uF	12B3472
C343	ELE. CAP. 100PF/10V	526S107
C344	Chip CAP. B-(K) 0.01uF	72B2103
C345	Chip CAP. B-(K) 0.01uF	12B2103
C347	Chip CAP. B-(K) 0.022uF	12B2223
C348	Chip CAP. F-(Z) 0.1uF	12F2104
C356	Chip CAP. B-(K) 0.1uF	12F2104
C357	ELE. CAP. 100uF/10V	126B107
C359	ELE. CAP. 1uF/50V	126F105
C360	ELE. CAP. 4.7uF/25V	126D475
C361	ELE. CAP. 1uF/50V	126F105
C362	Axial CAP. F-(Z) 0.1uF	3F43104
C363	ELE. CAP. 3.3uF/25V	126D335
C364	Chip CAP. SL-(J) 5PF	1270509
C365	Chip CAP. B-(K) 0.01uF	12B2103
C366	ELE. CAP. 1uF/50V	526W105
C367	ELE. CAP. 100uF/10V	526S107
C368	ELE. CAP. 1uF/50V	526W105
C369	Chip CAP. B-(K) 0.022uF	12B2223
C372	Chip CAP. B-(K) 1000PF	72B2102
C373	Chip CAP. B-(K) 220PF	12B3221
C375	ELE. CAP. 10uF/6.3V	126A106
C376	Semiconduc CAP. 0.047uF (K)	12Y2473
C377	Chip CAP. B-(K) 0.001uF	12B2102
C378	Chip CAP. B-(K) 0.001uF	12B2102
C379	Chip CAP. B-(K) 0.001uF	12B2102
C380	Chip CAP. B-(K) 0.001uF	12B2102
C381	Chip CAP. B-(K) 220PF	12B3221
C382	Chip CAP. B-(K) 220PF	12B3221

Ref. No.	Description	Part No.
C383	Chip CAP. B-(K) 220PF	12B3221
C384	Chip CAP. B-(K) 220PF	12B3221
C386	Chip CAP. B-(K) 220PF	12B3221
C387	Chip CAP. B-(K) 220PF	12B3221
C388	Chip CAP. B-(K) 220PF	12B3221
C390	Chip CAP. B-(K) 220PF	72B3221
C391	Chip CAP. B-(K) 220PF	12B3221
C392	Chip CAP. B-(K) 220PF	12B3221
C393	Chip CAP. B-(K) 0.01uF	12B2103
C394	Chip CAP. B-(K) 0.01uF	12B2103
C395	Chip CAP. B-(K) 0.01uF	12B2103
C396	Chip CAP. B-(K) 0.01uF	12B2103
C397	Chip CAP. F-(Z) 0.1uF	12F2104
C398	Chip CAP. F-(Z) 0.1uF	12F2104
Coils		
L201	Axial Inductor 0.22uH	215822A
L202	Axial Inductor 0.33uH	215833A
L204	Inductor 22uH	117D417
L205	Inductor 22uH	117D417
L206	Axial Inductor 0.22uH	216522A
L207	Axial Inductor 15uH	2157150
L208	Axial Inductor 220uH	2165221
L209	Axial Inductor 270uH	2157271
L210	Axial Inductor 1uH	2165109
L211	Axial Inductor 1uH	2165109
L216	Axial Inductor 1uH	2165109
L217	Axial Inductor 220uH	2165221
T201	Casing Coil	LFA07V0SF024
T202	Casing Coil	113D760
T203	Casing Coil	LFA07V0SF019
T204	Casing Coil	LFA07V0SF020
T205	Casing Coil	LFA07V0SF021
T206	Casing Coil	LFA07V*SF013
T207	Casing Coil	LFA07V0SF022
T208	Casing Coil	LFA07V*SF014
T209	Casing Coil	113D553
T210	Casing Coil	113D707
T211	Audio Trans	LTA24CPMM001
Semiconductors		
D200	Diode	1SV164
D201	Diode	RLS-73
D202	Diode	1N4001
D203	Diode	RB441Q
D204	Diode	1N4001
D205	Diode	1SS133
D206	Diode	RLS-73
D207	Diode	RLS-73
D210	Diode	RLS-73
D211	Diode	RLS-73
D212	Diode	RLS-73
D213	Diode	RLS-73
D214	Diode	MTZ5.6B
D215	Diode	RB441Q
D216	Diode	RLS-73
D217	Diode	RLS-73
IC201	IC	MC3361BP
IC202	IC	BU4066BF
IC203	IC	BU4066BF
IC204	IC	PS2505-01-L or ON3181

Ref. No.	Description	Part No.
IC205	IC	PS2505-01-L or ON3181
IC206	IC	BA10324AF
IC207	IC	BA6220
IC208	IC	TMS3477
IC209	IC	AAA2801P-06
IC210	IC	AAA2801P-06
IC211	IC	TA31081F
IC212	IC	QSMQA0RTS001
IC213	IC	MC34119D
IC214	IC	NJM7809
IC215	IC	L78M05T-FA
Q201	Transistor	2SC1674L
Q202	Transistor	2SC1675L
Q203	Transistor	2SC1675L
Q204	Transistor	2SC2026P or 2SC2026L
Q205	Transistor	2SC1675L
Q206	Transistor	2SA933R
Q208	Transistor	2SA1037KR
Q209	Transistor	2SC945Q
Q210	Transistor	2SC945Q
Q211	Transistor	2SC945Q
Q212	Transistor	2SC945Q
Q213	Transistor	2SC945Q
Q214	Transistor	2SC2412KR
Q215	Transistor	2SC2412KR
Q216	Transistor	2SA1560Q
Q217	Transistor	2SC945Q
Q218	Transistor	2SA933R
Q219	Transistor	2SC2412KR
Q222	Transistor	2SA933R
Q223	Transistor	2SC4038Q
Q224	Transistor	2SC945Q
Q225	Transistor	2SA733P
Q226	Transistor	2SC945Q
Q227	Transistor	2SA1037KR
Q228	Transistor	2SC2412KR
Q229	Transistor	2SC945Q
Q230	Transistor	DTC144TL
Q231	Transistor	DTC144TL
Q232	Transistor	2SA1037KR
Q233	Transistor	2SC2412KR
Resistors		
R200	Chip Fixed RES. 1/10W J 100K ohm	134F104
R201	Chip Fixed RES. 1/10W J 27K ohm	134F273
R202	Chip Fixed RES. 1/10W J 330 ohm	134F331
R203	Chip Fixed RES. 1/10W J 27K ohm	134F273
R204	Chip Fixed RES. 1/10W J 5.6K ohm	134F562
R205	Chip Fixed RES. 1/10W J 1K ohm	134F102
R206	Chip Fixed RES. 1/10W J 470 ohm	134F471
R207	Chip Fixed RES. 1/10W J 82 ohm	134F820
R208	Chip Fixed RES. 1/10W J 27K ohm	134F273
R209	Chip Fixed RES. 1/10W J 390K ohm	134F394
R210	Chip Fixed RES. 1/10W J 10K ohm	134F103
R211	Chip Fixed RES. 1/10W J 1K ohm	134F102
R212	Chip Fixed RES. 1/10W J 2.2K ohm	134F222
R213	Chip Fixed RES. 1/10W J 22K ohm	134F223
R214	Chip Fixed RES. 1/10W J 470K ohm	134F474
R215	Chip Fixed RES. 1/10W J 1K ohm	134F102

Ref. No.	Description	Part No.
R216	Chip Fixed RES. 1/10W J 100K ohm	134F104
R217	Chip Fixed RES. 1/10W J 10 ohm	134F100
R218	Chip Fixed RES. 1/10W J 18K ohm	134F183
R219	Chip Fixed RES. 1/10W J 330 ohm	134F331
R220	Chip Fixed RES. 1/10W J 120K ohm	134F124
R221	Chip Fixed RES. 1/10W J 10K ohm	134F103
R222	Chip Fixed RES. 1/10W J 100K ohm	134F104
R223	Chip Fixed RES. 1/10W J 470K ohm	134F474
R224	Chip Fixed RES. 1/10W J 22K ohm	134F223
R225	Chip Fixed RES. 1/10W J 270 ohm	134F271
R227	Chip Fixed RES. 1/10W J 2.2K ohm	134F222
R228	Chip Fixed RES. 1/10W J 3.3K ohm	134F332
R229	Chip Fixed RES. 1/10W J 5.6K ohm	134F562
R230	Chip Fixed RES. 1/10W J 120K ohm	134F124
R231	Chip Fixed RES. 1/10W J 22K ohm	134F223
R232	Chip Fixed RES. 1/10W J 10K ohm	134F103
R233	Chip Fixed RES. 1/10W J 33K ohm	134F333
R234	Chip Fixed RES. 1/10W J 33K ohm	134F333
R235	Chip Fixed RES. 1/10W J 2.2M ohm	134F225
R236	Carbon RES. 1/4W J 220 ohm	1346221
R237	Chip Fixed RES. 1/10W J 22K ohm	134F223
R238	Chip Fixed RES. 1/10W J 180 ohm	134F181
R239	Chip Fixed RES. 1/10W J 68 ohm	134F680
R240	Carbon RES. 1/4W J 47 ohm	1346470
R241	Chip Fixed RES. 1/10W J 6.8K ohm	134F682
R242	Chip Fixed RES. 1/10W J 100K ohm	134F104
R243	Chip Fixed RES. 1/8W J 470 ohm	134H471
R244	Chip Fixed RES. 1/10W J 1K ohm	134F102
R245	Chip Fixed RES. 1/10W J 100K ohm	134F104
R246	Chip Fixed RES. 1/10W J 270K ohm	134F274
R247	Chip Fixed RES. 1/10W J 4.7K ohm	134F472
R248	Chip Fixed RES. 1/10W J 1M ohm	134F105
R249	Chip Fixed RES. 1/10W J 100 ohm	134F101
R250	Chip Fixed RES. 1/10W J 8.2K ohm	134F822
R251	Chip Fixed RES. 1/10W J 1K ohm	134F102
R252	Chip Fixed RES. 1/10W J 2.2K ohm	134F222
R253	Chip Fixed RES. 1/10W J 4.7K ohm	134F472
R254	Chip Fixed RES. 1/10W J 470 ohm	134F471
R255	Chip Fixed RES. 1/10W J 33K ohm	134F333
R256	Chip Fixed RES. 1/10W J 33 ohm	134F330
R262	Chip Fixed RES. 1/10W J 6.8K ohm	134F682
R263	Chip Fixed RES. 1/10W J 1K ohm	134F102
R264	Chip Fixed RES. 1/10W J 22K ohm	134F223
R265	Chip Fixed RES. 1/10W J 120K ohm	134F124
R267	Chip Fixed RES. 1/10W J 330 ohm	134F331
R268	Chip Fixed RES. 1/10W J 22K ohm	134F223
R269	Chip Fixed RES. 1/10W J 10K ohm	134F103
R270	Chip Fixed RES. 1/10W J 4.7K ohm	134F472
R271	Chip Fixed RES. 1/10W J 6.8K ohm	134F682
R272	Chip Fixed RES. 1/10W J 100K ohm	134F104
R273	Chip Fixed RES. 1/10W J 22K ohm	134F223
R274	Carbon RES. 1/6W J 560 ohm	132A561
R275	Chip Fixed RES. 1/10W J 100 ohm	134F101
R276	Chip Fixed RES. 1/10W J 270K ohm	134F274
R277	Chip Fixed RES. 1/10W J 22K ohm	134F223
R278	Chip Fixed RES. 1/10W J 27K ohm	134F273
R279	Chip Fixed RES. 1/10W J 100K ohm	134F104
R280	Chip Fixed RES. 1/10W J 1M ohm	134F105
R281	Chip Fixed RES. 1/10W J 47K ohm	134F473
R283	Chip Fixed RES. 1/10W J 180K ohm	134F184

Ref. No.	Description	Part No.
R284	Chip Fixed RES. 1/10W J 3.9K ohm	134F392
R285	Chip Fixed RES. 1/10W J 1.2K ohm	134F122
R286	Chip Fixed RES. 1/10W J 100 ohm	134F101
R287	Chip Fixed RES. 1/10W J 240K ohm	134F244
R289	Chip Fixed RES. 1/10W J 150K ohm	134F154
R290	Chip Fixed RES. 1/10W J 6.8K ohm	134F682
R291	Chip Fixed RES. 1/10W J 22K ohm	134F223
R292	Chip Fixed RES. 1/10W J 22K ohm	134F223
R293	Chip Fixed RES. 1/10W J 22K ohm	134F223
R294	Carbon RES. 1/4W J 360 ohm	1346361
R295	Carbon RES. 1/4W J 360 ohm	1346361
R296	Carbon RES. 1/4W J 360 ohm	1346361
R297	Chip Fixed RES. 1/10W J 22K ohm	134F223
R298	Carbon RES. 1/6W J 200 ohm	132A201
R299	Carbon RES. 1/6W J 150 ohm	132A151
R300	Carbon RES. 1/4W J 360 ohm	1346361
R301	Carbon RES. 1/6W J 5.6K ohm	134F562
R302	Chip Fixed RES. 1/10W J 10K ohm	134F103
R303	Chip Fixed RES. 1/10W J 220K ohm	134F224
R304	Chip Fixed RES. 1/10W J 1K ohm (IC204, IC205: PS2505-01-L) Chip Fixed RES. 1/10W J 1.5K ohm (IC204, IC205: ON3181)	134F102 134F152
R305	Chip Fixed RES. 1/10W J 100K ohm	134F104
R307	Chip Fixed RES. 1/10W J 22K ohm	134F223
R309	Chip Fixed RES. 1/10W J 22K ohm	134F223
R310	Chip Fixed RES. 1/10W J 22K ohm	134F223
R312	Chip Fixed RES. 1/10W J 330K ohm	134F334
R314	Chip Fixed RES. 1/10W J 100 ohm	134F101
R315	Chip Fixed RES. 1/10W J 3.3K ohm	134F332
R316	Chip Fixed RES. 1/10W J 3.3K ohm	134F332
R317	Chip Fixed RES. 1/10W J 6.8K ohm	134F682
R318	Chip Fixed RES. 1/10W J 100K ohm	134F104
R319	Chip Fixed RES. 1/8W J 10K ohm	134H103
R320	Chip Fixed RES. 1/10W J 100K ohm	134F104
R321	Chip Fixed RES. 1/10W J 100K ohm	134F104
R322	Chip Fixed RES. 1/10W J 100K ohm	134F104
R323	Chip Fixed RES. 1/10W J 100K ohm	134F104
R324	Chip Fixed RES. 1/10W J 100K ohm	134F104
R325	Chip Fixed RES. 1/10W J 470K ohm	134F474
R326	Chip Fixed RES. 1/10W J 100K ohm	134F104
R327	Chip Fixed RES. 1/10W J 10K ohm	134F103
R328	Chip Fixed RES. 1/10W J 47K ohm	134F473
R329	Chip Fixed RES. 1/10W J 47K ohm	134F473
R330	Chip Fixed RES. 1/10W J 47K ohm	134F473
R332	Chip Fixed RES. 1/10W J 390K ohm	134F394
R333	Chip Fixed RES. 1/10W J 22K ohm	134F223
R334	Chip Fixed RES. 1/10W J 15K ohm	134F153
R335	Chip Fixed RES. 1/10W J 22K ohm	134F223
R336	Chip Fixed RES. 1/10W J 270K ohm	134F274
R337	Chip Fixed RES. 1/10W J 6.8K ohm	134F682
R338	Chip Fixed RES. 1/10W J 4.7K ohm	134F472
R339	Carbon RES. 1/6W J 470K ohm	132A474
R340	Chip Fixed RES. 1/10W J 4.7K ohm	134F472
R341	Chip Fixed RES. 1/10W J 820K ohm	134F824
R343	Chip Fixed RES. 1/10W J 470 ohm	134F471
R348	Chip Fixed RES. 1/10W J 10K ohm	134F103
R349	Chip Fixed RES. 1/10W J 10K ohm	134F103
R351	Carbon RES. 1/6W J 15K ohm	132A153
R352	Carbon RES. 1/6W J 39K ohm	132A393

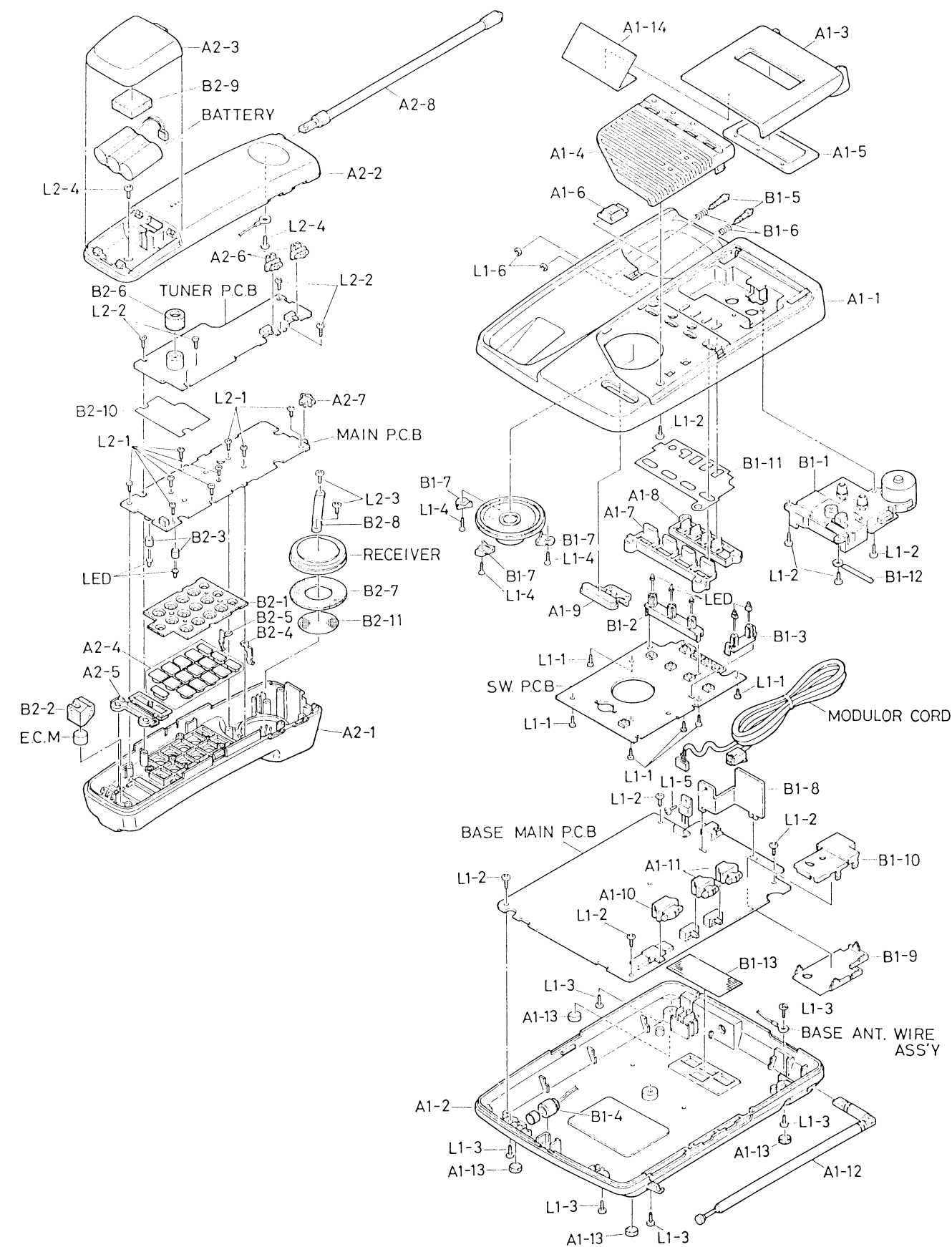
Ref. No.	Description	Part No.
R353	Metal Oxid RES. 1W 82 ohm	134A820
R355	Chip Fixed RES. 1/10W J 10K ohm	134F103
R356	Chip Fixed RES. 1/10W J 10K ohm	134F103
R358	Chip Fixed RES. 1/10W J 39K ohm	134F393
R359	Chip Fixed RES. 1/10W J 390K ohm	134F394
R360	Chip Fixed RES. 1/10W J 100K ohm	134F104
R361	Chip Fixed RES. 1/10W J 1K ohm (IC204, IC205: PS2505-01-L)	134F102
	Chip Fixed RES. 1/10W J 2.2K ohm (IC204, IC205: ON3181)	134F222
R362	Carbon RES. 1/6W J 47K ohm	132A473
R363	Chip Fixed RES. 1/8W J 1.5K ohm	134H152
R364	Chip Fixed RES. 1/10W J 220K ohm	134F224
R365	Chip Fixed RES. 1/10W J 100 ohm	134F101
R366	Chip Fixed RES. 1/10W J 10K ohm	134F103
R367	Chip Fixed RES. 1/10W J 15K ohm	134F153
R369	Chip Fixed RES. 1/10W J 1.2K ohm	134F122
R370	Chip Fixed RES. 1/10W J 8.2K ohm	134F822
R371	Chip Fixed RES. 1/10W J 39K ohm	134F393
R372	Chip Fixed RES. 1/10W J 39K ohm	134F393
R373	Chip Fixed RES. 1/10W J 56K ohm	134F563
R374	Chip Fixed RES. 1/10W J 1.2K ohm	134F122
R375	Chip Fixed RES. 1/10W J 10K ohm	134F103
R376	Carbon RES. 1/6W J 100 ohm	132A101
R377	Chip Fixed RES. 1/8W J 3.3K ohm	134H332
R378	Chip Fixed RES. 1/10W J 2.2K ohm	134F222
R379	Chip Fixed RES. 1/10W J 100K ohm	134F104
R380	Chip Fixed RES. 1/10W J 100K ohm	134F104
R381	Chip Fixed RES. 1/10W J 10K ohm	134F103
R382	Chip Fixed RES. 1/10W J 100K ohm	134F104
R383	Chip Fixed RES. 1/10W J 330K ohm	134F334
R384	Chip Fixed RES. 1/10W J 39 ohm	134F390
R385	Chip Fixed RES. 1/10W J 4.7K ohm	134F472
R386	Chip Fixed RES. 1/10W J 330K ohm	134F334
R387	Chip Fixed RES. 1/10W J 10K ohm	134F103
R388	Chip Fixed RES. 1/10W J 10K ohm	134F103
R389	Chip Fixed RES. 1/10W J 15K ohm	134F153
R390	Chip Fixed RES. 1/10W J 1K ohm	134F102
R391	Chip Fixed RES. 1/10W J 12K ohm	134F123
R394	Chip Fixed RES. 1/10W J 1.5K ohm	134F152
R395	Chip Fixed RES. 1/10W J 330K ohm	134F334
R396	Chip Fixed RES. 1/10W J 3.3K ohm	134F332
R397	Chip Fixed RES. 1/10W J 100 ohm	134F101
R398	Chip Fixed RES. 1/10W J 1K ohm	134F102
R399	Chip Fixed RES. 1/10W J 8.2K ohm	134F822
R410	Carbon RES. 1/6W J 22K ohm	132A223
Volumes		
VR201	Semifixed RES. 5K ohm	138J935
VR202	Semifixed RES. 200K ohm	138J941
VR203	Semifixed RES. 1K ohm	138J932
VR204	Semifixed RES. 5K ohm	138J935
VR205	Semifixed RES. 50K ohm	138J939
VR206	Semifixed RES. 10K ohm	138J936
VR210	Slide VR. 20K ohm	539A865
Switches		
SW301	Slide SW	SSS0103KB003
SW302	Slide SW	SSS1013KB003
Miscellaneous		
ADP201	AC/DC Adaptor For Singapore	UADPDCAFM019
	AC/DC Adaptor For Taiwan	UADPDCAFM020

Ref. No.	Description	Part No.
CN301	Connector IL-G Base Post 2P	1740454
CN302	Connector IL-S Base Post 2P	1740764
CN303	Connector IL-S Base Post 14P	1730618
CN304	Connector IL-S Base Post 2P	1740764
CN305	Connector IL-S Base Post 4P	1740766
CN306	Connector IL-S Base Post 2P	1740764
CN307	Connector IL-S Base Post 8P	1740770
CF201	Ceramic Filter 455KHz	1810480
F201	Fuse 250mA/250V	5790068
J301	DC Jack	1710086
MK201	ECM	DMEEX**HD001
RL301	Lead Relay OMR-109H	1680061
SP201	Speaker	1520603
TAPE201	Tape MC-30	KMN030MQL004
TIE201	Cable Tie	1790256
X201	X'tal RX 4ch 12.32875MHz	FXE126LDS002
X201	X'tal RX 6ch 12.34375MHz	FXE126LDS006
X201	X'tal RX 8ch 12.36875MHz	FXE126LDS003
X201	X'tal RX 10ch 12.37875MHz	FXE126LDS005
X202	X'tal TX 4ch 15.57MHz	1811066
X202	X'tal TX 6ch 15.59MHz	1811068
X202	X'tal TX 8ch 15.623MHz	1811070
X202	X'tal TX 10ch 15.656MHz	1811072
X203	X'tal TX 4ch 319.990KHz	UQSC314DS001
X203	X'tal TX 6ch 320.372KHz	UQSC324DS001
X203	X'tal TX 8ch 320.190KHz	UQSC324DS002
X203	X'tal TX 10ch 320.038KHz	UQSC324DS003
X204	X'tal 3.58MHz	FXD355LCT003
ZNR201	Surge Absorber	ERZ-C10DK361U
	1.3 ØPin	1720688
	Modular Code	WTZ0202HM002
	Lead Wire E-E	WX3001A6FF21
	Lead Wire D-D	WX3001A6FF21
	Lead Wire A-A	WX3001A6FF21
	Lead Wire IC208 4Pin-14Pin	WX3001A6FF21
	Lead Wire IC208 14Pin-IC21 2 25Pin	WX3001A6FF21
	Lead Wire Main PCB-Cont.PCB	WX3001A6FF21
	Wire Ass'y 1Pin	WX1G5550-007
	Wire Ass'y 2Pin	WX1G5550-001
	Wire Ass'y 2Pin	WX1G5550-002
	Wire Ass'y 2Pin	WX1G5550-008
	Wire Ass'y 4Pin	WX1G5550-004
	Wire Ass'y 8Pin	WX1G5550-003
	Wire Ass'y 14Pin	WX1G5550-011
	UL Tube Ø2.0 L=35m/m	

Ref. No.	Description	Part No.
BASE CONTROL PCB		-----
Capacitors		
C351	Chip CAP. B-(K) 0.01uF	72B2103
C352	Chip CAP. B-(K) 0.01uF	72B2103
C353	Chip CAP. B-(K) 0.01uF	72B2103
C354	Chip CAP. B-(K) 0.01uF	72B2103
C355	Chip CAP. B-(K) 0.01uF	72B2103
Resistors		
R401	Chip Fixed RES. 1/8W J 220 ohm	134H221
R402	Chip Fixed RES. 1/8W J 220 ohm	134H221
R403	Chip Fixed RES. 1/8W J 560 ohm	134H561
R404	Chip Fixed RES. 1/8W J 560 ohm	134H561

Ref. No.	Description	Part No.
R405	Chip Fixed RES. 1/8W J 560 ohm	134H561
Switches		
SW401	Push SW (Ans)	5622157
SW402	Push SW (Memo)	5622157
SW403	Push SW (Message)	5622157
SW404	Push SW (Stop)	5622157
SW405	Push SW (Rec)	5622157
SW406	Push SW (Rew)	5622157
SW407	Push SW (F-F)	5622157
SW408	Push SW (Erase)	5622157
SW409	Push SW (Page)	5622157
Miscellaneous		
LD401	LED (Power)	SLB-22-MG
LD402	LED (In-use/CHG)	SLB-22-MG
LD403	LED (Ans)	SLR-34-MG
LD404	LED (Memo)	SLR-34-MG
LD405	LED (Message)	SLR-34-MG

EXPLODED VIEWS AND PARTS LIST



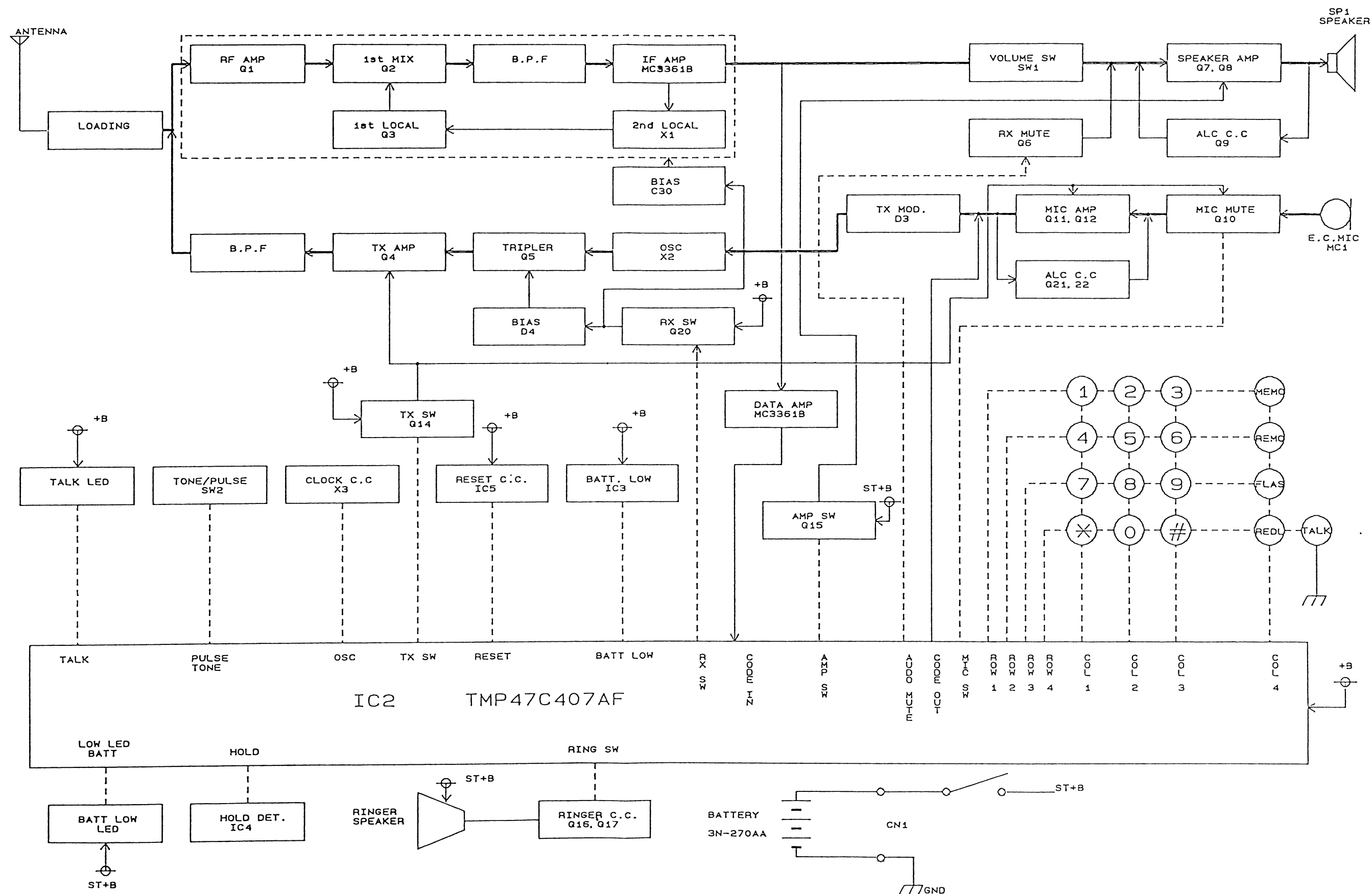
Ref. No.	Description	Part No.
A1-1	Base Top Case	0GM100044
A1-2	Base Bottom Case	0GM100045
A1-3	Cassette Door	0GM200030
A1-4	Pannel	0GM200031
A1-5	Cassete Window	0GM400284
A1-6	Handset Hook	0GM400286
A1-7	Function Button	0GM300070
A1-8	Cassette Button	0GM300071
A1-9	Page Button	0GM300069
A1-10	(B) Volume Knob	0GM400287
A1-11	Slide Knob	0GM400288
A1-12	(B) Rod ANT.	0GM400295
A1-13	Foot Rubber	24WT105
A1-14	Pop Label	0GM400301
A2-1	Hand Front Case	0GM100046
A2-2	Hand Rear Case	0GM100047
A2-3	Battery Lid	0GM300066
A2-4	Dial Button	0GM200032
A2-5	Talk Button	0GM400285
A2-6	Hand Volume Knob	0GM400289
A2-7	Power Knob	0GM400290
A2-8	(H) Antenna	27AT029
B1-1	Micro Cassette Deck	MA3-12
B1-2	LED Holder (A)	0GM400296
B1-3	LED Holder (B)	0GM400297
B1-4	MIC. Holder	21WT033
B1-5	Charge Contact Pin	0GM400183
B1-6	Charge Terminal Spring	26W0322
B1-7	Speaker Setting Piece	23WT149
B1-8	Heat Sink	0GM400272
B1-9	Shield Plate (B)	0GM300063
B1-10	Shield Plate (C)	0GM300064
B1-11	Shield Sheet	0GM400302
B1-12	Wire Clamp	23W3321
B1-13	Dust Guard Net	0GM400307

Ref. No.	Description	Part No.
B2-1	Key Rubber	0GM300068
B2-2	Hand MIC. Holder	0GM400293
B2-3	LED Spacer	0GM400294
B2-4	Hand CHG Terminal (L)	0GM400291
B2-5	Hand CHG Terminal (R)	0GM400292
B2-6	Ringer Cushion	21WT253
B2-7	Speaker Cushion	21WT254
B2-8	Speaker Holder	23WT197
B2-9	Battery Cushion	0GM400193
B2-10	Shield Plate Ass'y	27W3025
B2-11	Hand Speaker Net	0GM400308
L1-1	P.Tite Screw M2.6 X 8	GBMP9080
L1-2	P.Tite Screw M3 X 8	GBMP3080
L1-3	P.Tite Screw M3 X 12	GBMP3120
L1-4	P.Tite Screw M3 X 8	GDMP3080
L1-5	B.Tite Screw M3 X 8	GBMB3080
L1-6	E-Ring Ø 2	EEU0020
L2-1	P.Tite Screw M2 X 6	GBMP2060
L2-2	P.Tite Screw M2.6 X 8	GBMP9080
L2-3	P.Tite Screw M3 X 8	GBMP3080
L2-4	P.Tite Screw M3 X 10	GBMP3100

Ref.
S-1
S-2
S-3
S-4
S-5
S-6
S-7
S-8
S-9
S-10
S-11
S-12
S-13

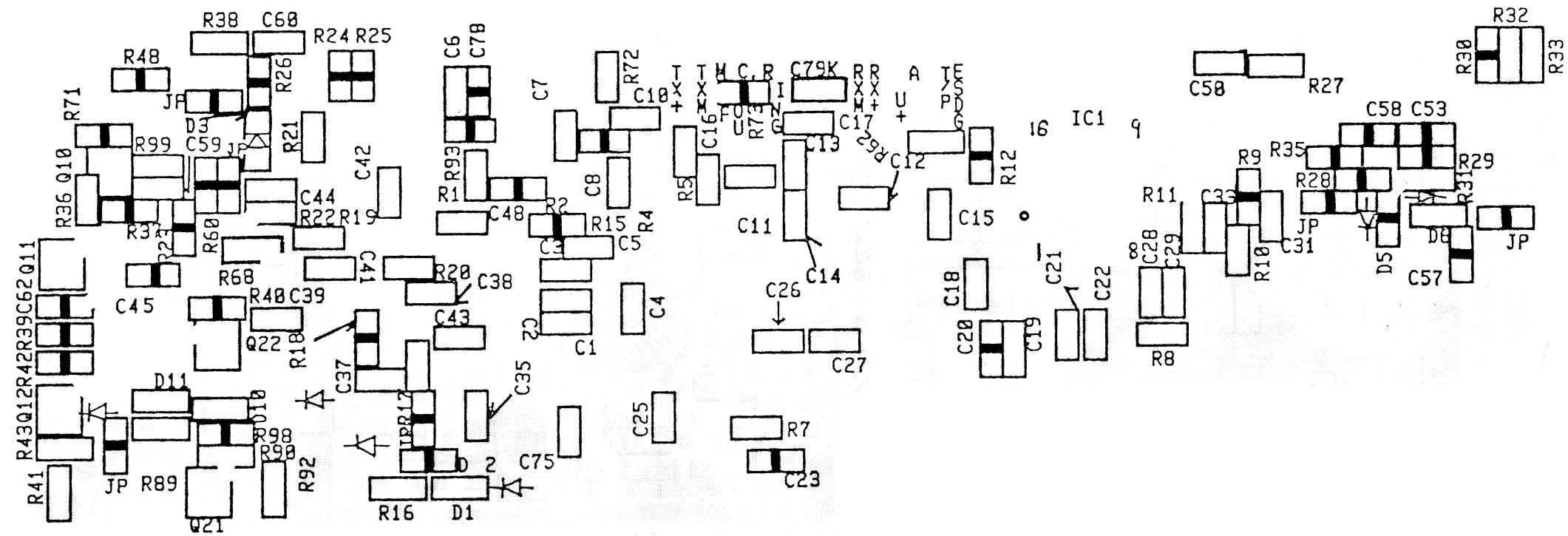
BLOCK DIAGRAMS

REMOTE UNIT

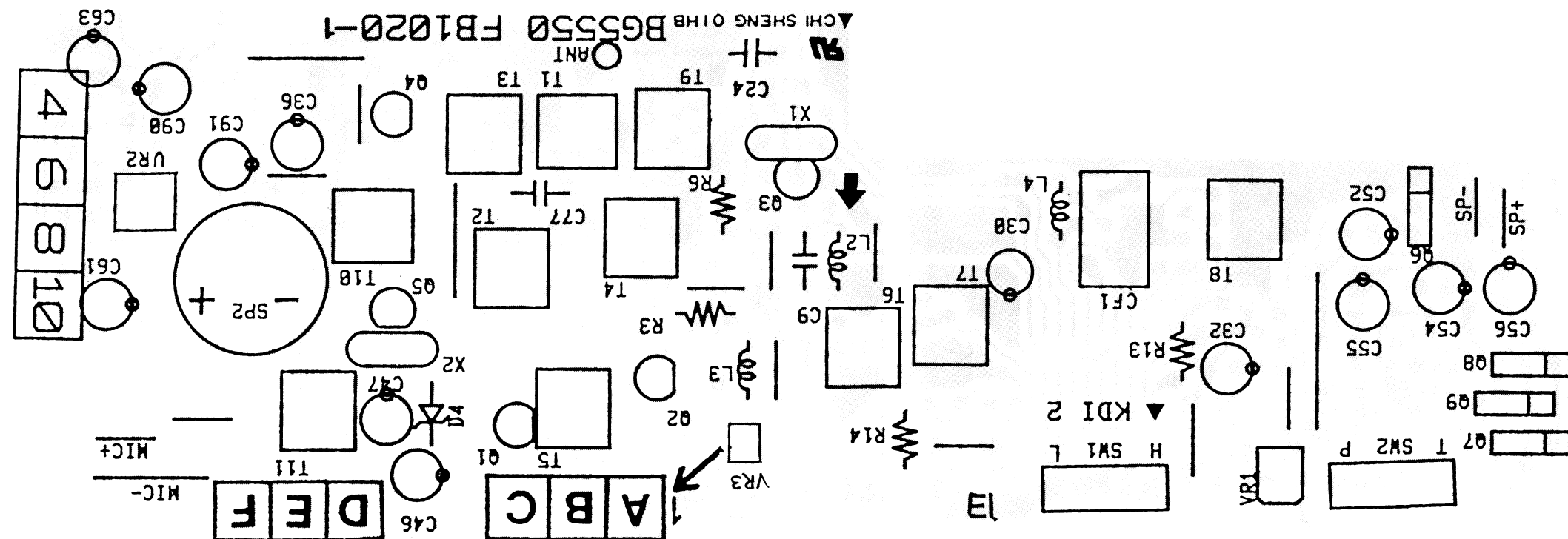


REMOTE TUNER

Top View

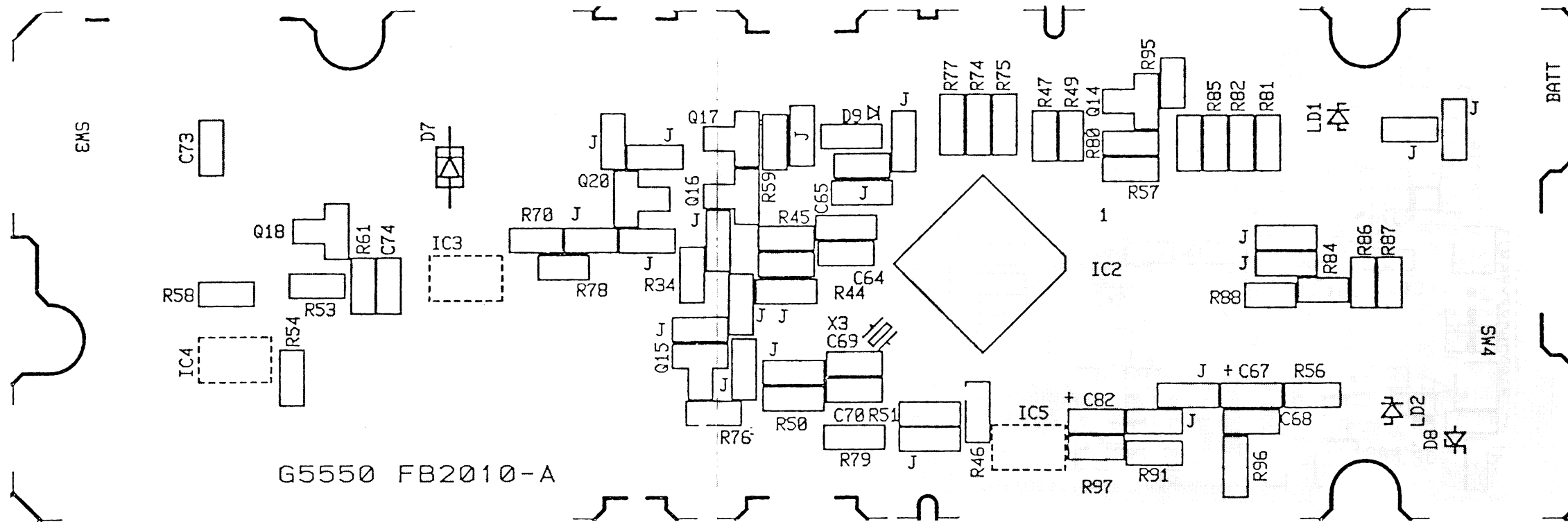


Bottom View

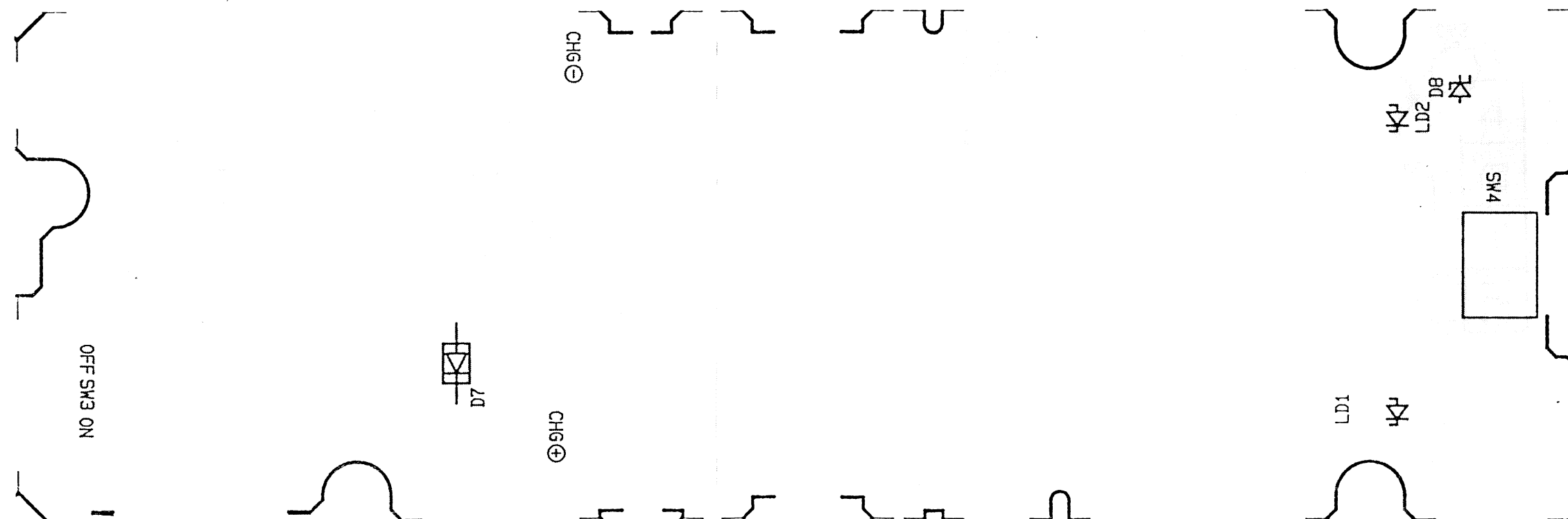


REMOTE KEY

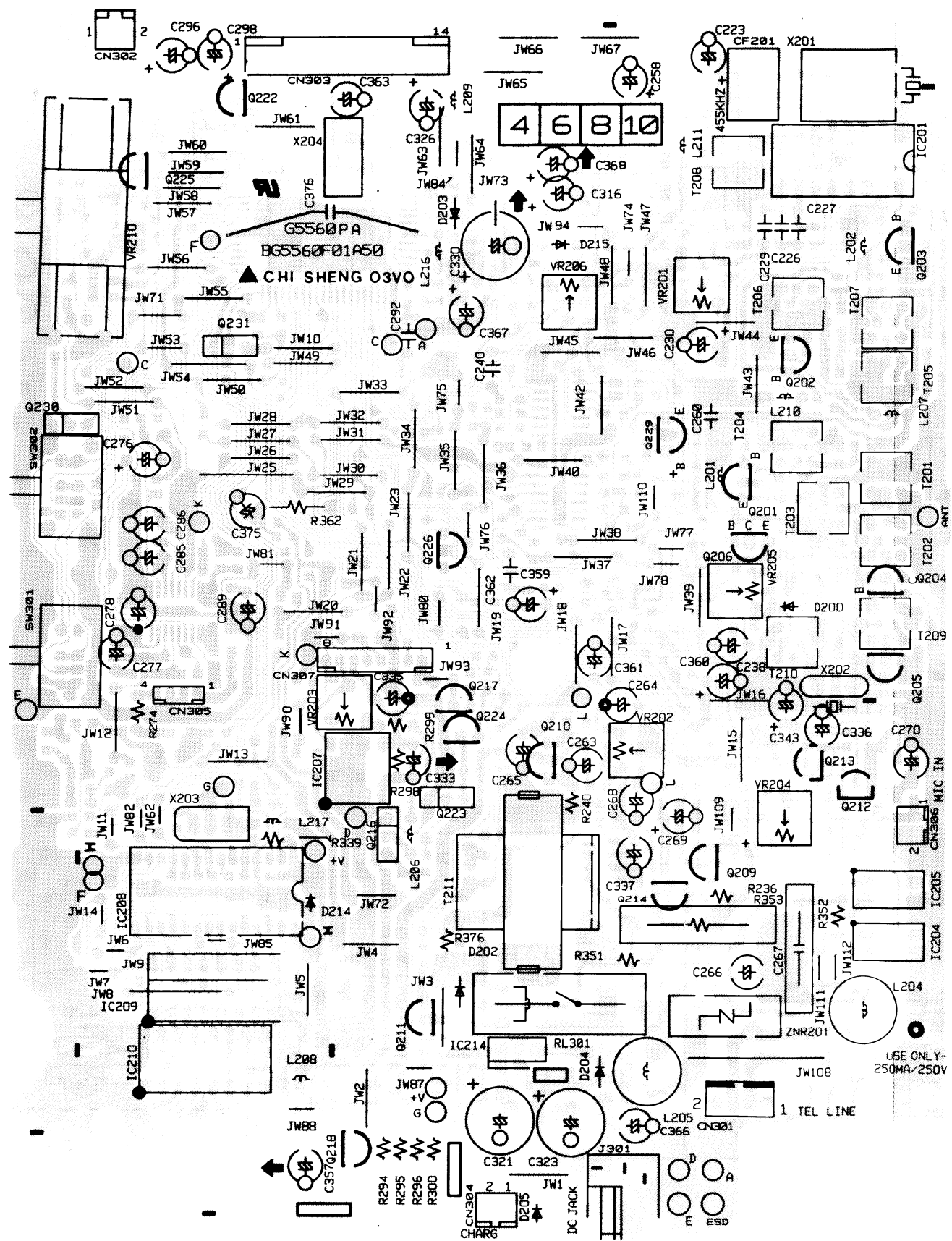
Top View



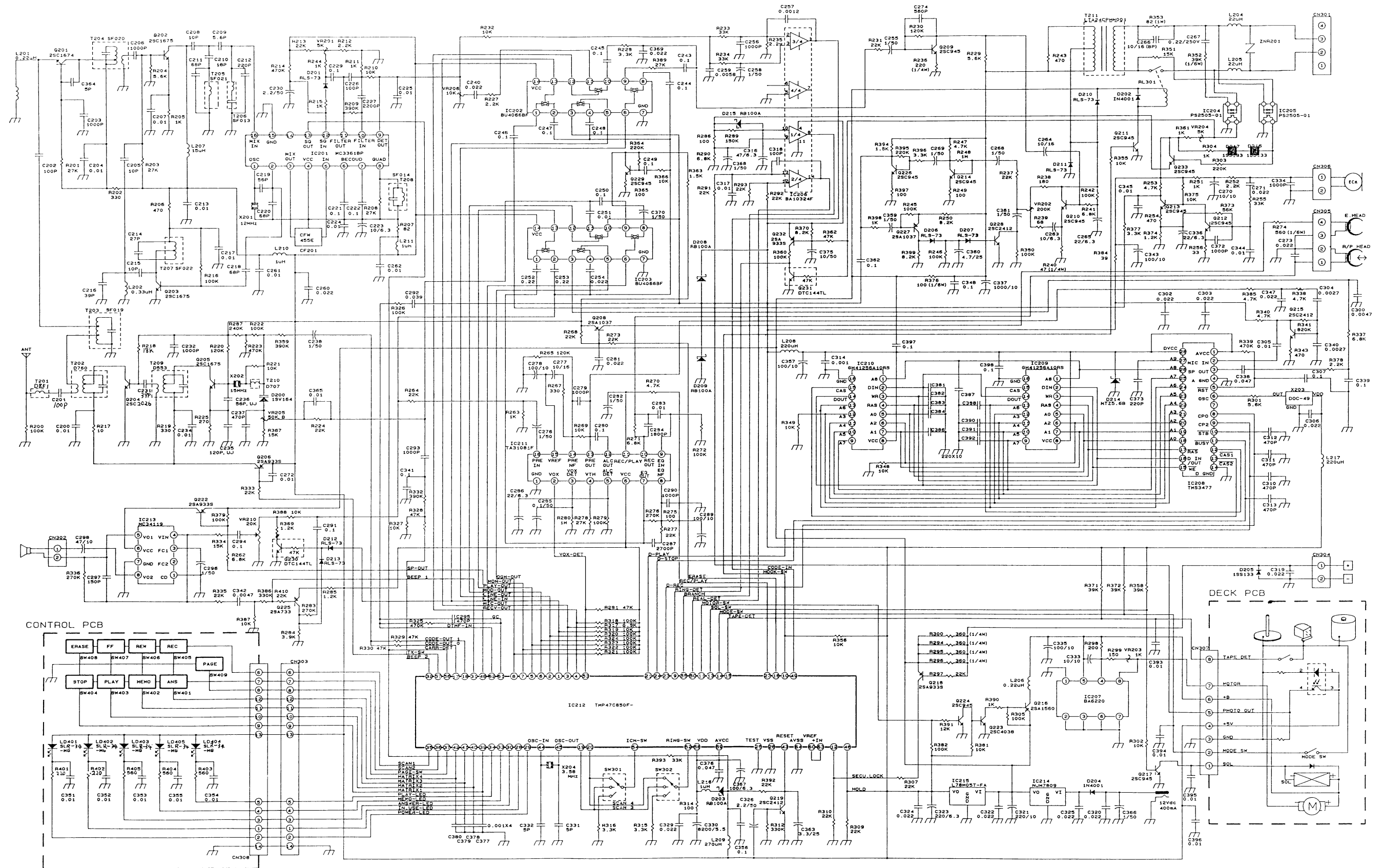
Bottom View



Top View

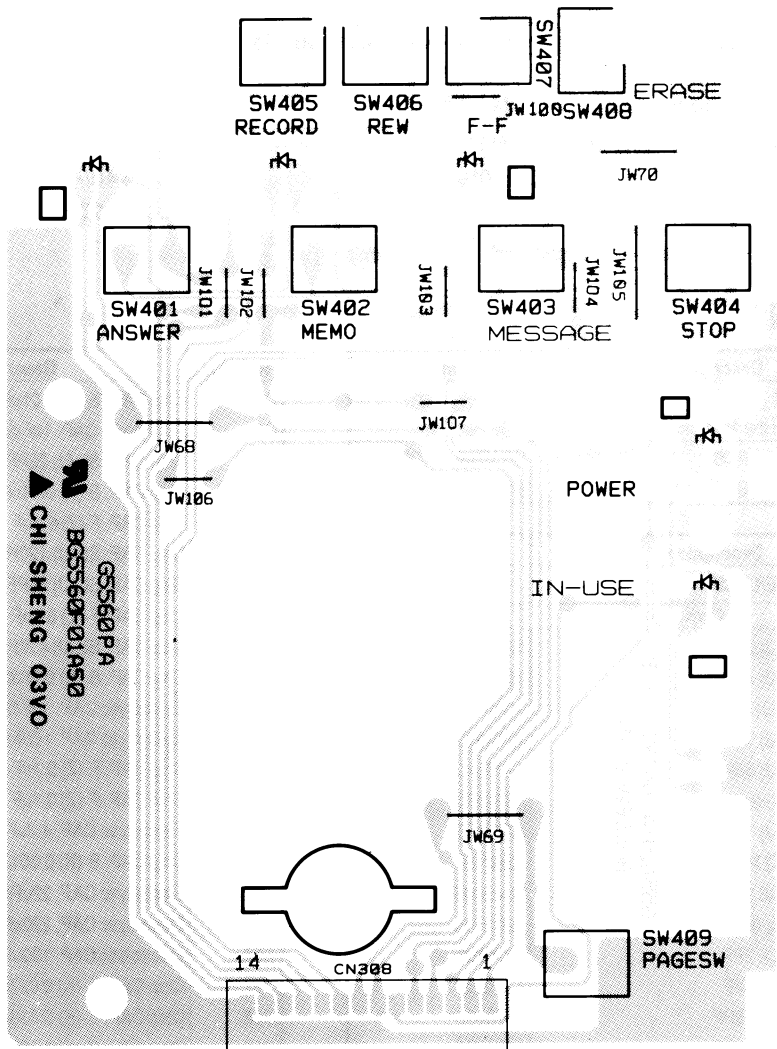


BASE UNIT

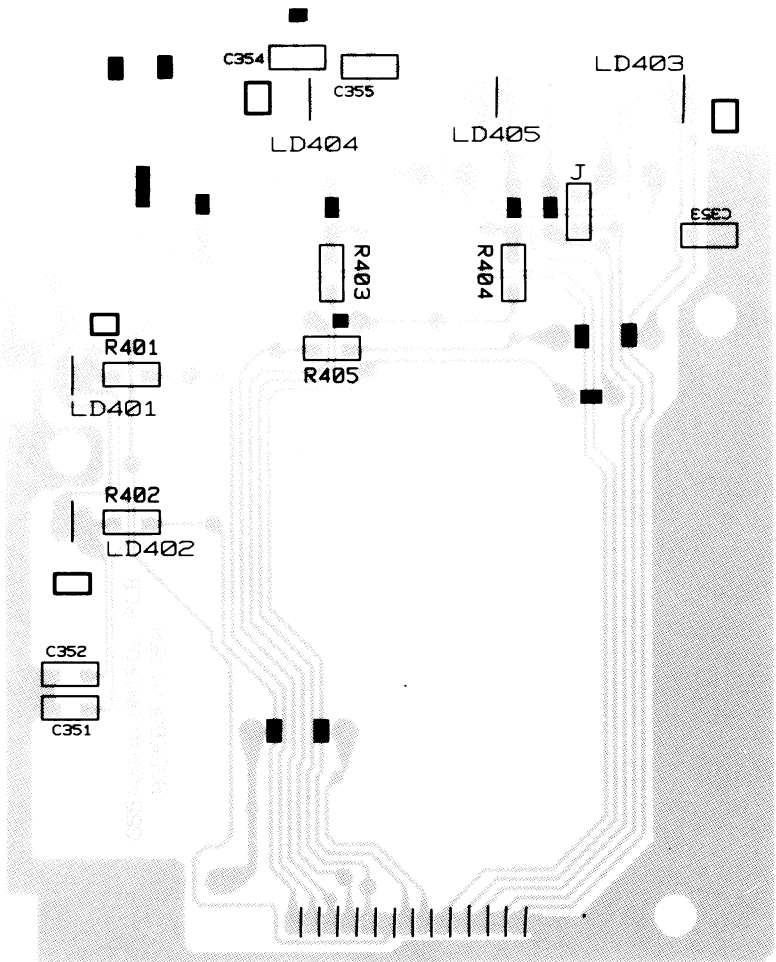


BASE CONTROL

Top View



Bottom View



		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
D207	A	0	←	←	←	←	←	←	←	←	←	←	←
	K	0.07	←	←	←	←	←	←	←	←	←	←	←
D210	A	7.42	←	←	←	←	←	←	←	←	←	←	←
	K	9.00	←	←	←	←	←	←	←	←	←	←	←
D211	A	0	←	←	←	←	←	←	←	←	←	←	←
	K	7.42	←	←	←	←	←	←	←	←	←	←	←
D212	A	0.02	←	←	←	←	4.27	0.02	←	←	←	←	←
	K	0	←	←	←	←	3.68	0	←	←	←	←	←
D213	A	0	←	←	←	←	←	←	←	←	←	←	←
	K	0	←	←	←	←	←	←	←	←	←	←	←
D214	A	0	←	←	←	←	←	←	←	←	←	←	←
	K	4.82	←	←	4.77	←	4.82	←	←	←	←	←	←
D215	A	2.52	←	1.71	2.45	←	←	←	←	←	←	←	←
	K	3.19	←	←	←	←	←	←	←	←	←	←	←
D216	A	4.00	←	←	←	←	←	←	←	←	←	←	←
	K	3.57	←	←	←	←	←	←	←	←	←	←	←
D217	A	4.51	←	←	←	←	←	←	←	←	←	←	←
	K	4.00	←	←	←	←	←	←	←	←	←	←	←

		ST-BY	Charge	Talk	OGM (REC)	OGM (Play)	ICM (REC)	ICM (Play)	Memo (REC)	Memo (Play)	FF/REW	Page	2WAY REC
LD401	A	4.97	←	←	←	←	←	←	←	←	←	←	←
	K	2.96	←	←	←	←	←	←	←	←	←	←	←
LD402	A	4.97	←	←	←	←	4.27	0.02	←	←	←	←	←
	K	3.50	2.95	2.96	3.50	←	←	←	←	←	←	2.86~ 3.52	2.96
LD403	A	4.97	←	←	←	←	←	←	←	←	←	←	←
	K	3.50	←	←	2.97~ 3.50	2.97~ 3.50	2.97	3.50	←	←	←	←	←
LD404	A	4.97	←	←	←	←	←	←	←	←	←	←	←
	K	4.64	←	←	←	←	←	2.95	4.64	2.95	4.68/ 4.64	←	4.64
LD405	A	4.97	←	←	←	←	←	←	←	←	←	←	←
	K	4.64	←	←	←	←	←	←	2.97	2.97~ 4.64	4.68/ 4.64	←	2.97

ELECTRICAL PARTS LIST

PRODUCT SAFETY NOTE: Products marked with a  have special characteristics important to safety. Before replacing any of these components, read carefully the product safety notice of this service manual. Don't degrade the safety of the product through improper servicing.

NOTE: Parts that not assigned part numbers (-----) are not available.

Tolerance of Capacitors and Resistors are noted with the following symbols.

C.....±0.25%	J.....±5%	Z.....+80/-20%
D.....±0.5%	K.....±10%	X.....+40/-20%
F.....±1%	M.....±20%	P.....+100%
G.....±2%	N.....±30%	

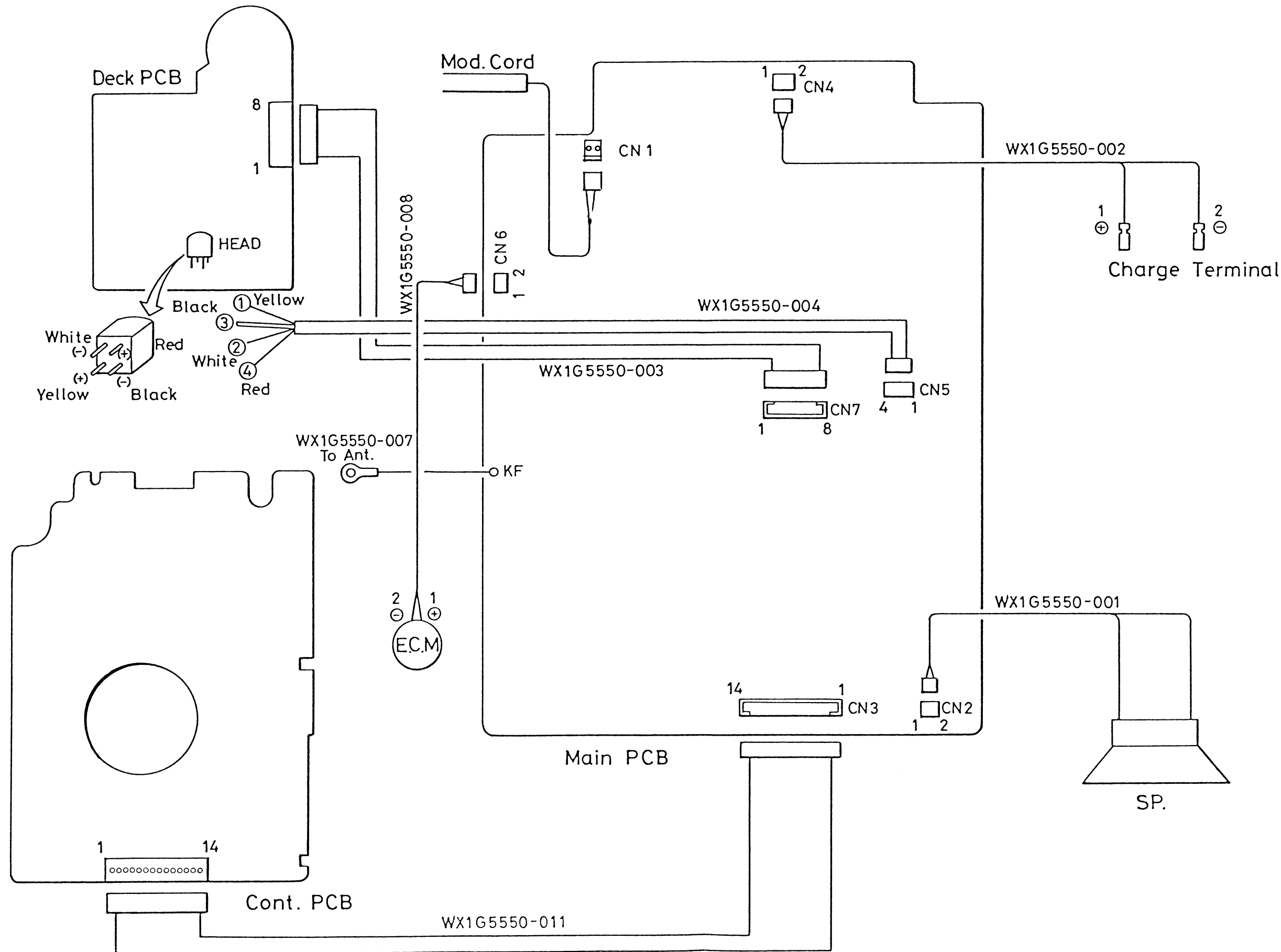
REMOTE UNIT

Ref. No.	Description	Part No.
	REMOTE UNIT	
	Consists of the following :	
	REMOTE TUNER PCB	BG5550FB1020
	REMOTE KEY PCB	BG5550FB2010

Ref. No.	Description	Part No.
	REMOTE TUNER PCB	-----
Capacitors		
C1	Chip CAP. SL-(J) 33PF	1270330
C2	Chip CAP. SL-(J) 47PF	1270470
C3	Chip CAP. CH-(J) 10PF	12CH100
C4	Chip CAP. SL-(J) 12PF	1270120
C5	Chip CAP. SL-(J) 56PF	1270560
C6	Chip CAP. B-(K) 0.01uF	12B2103
C7	Chip CAP. SL-(J) 12PF	1270120
C8	Chip CAP. B-(K) 1000PF	12B2102
C9	Chip CAP. SL-(J) 10PF	3S43100
C10	Chip CAP. B-(K) 0.01uF	12B2103
C11	Chip CAP. SL-(J) 2PF	1270209
C12	Chip CAP. SL-(J) 5PF	1270509
C13	Chip CAP. SL-(J) 18PF	1270180
C14	Chip CAP. SL-(J) 82PF	1270820
C15	Chip CAP. SL-(J) 220PF	1270221
C16	Chip CAP. SL-(J) 27PF	1270270
C17	Chip CAP. F-(Z) 0.1uF	12F2104
C18	Chip CAP. B-(K) 0.01uF	12B2103
C19	Chip CAP. SL-(J) 47PF	1270470
C20	Chip CAP. SL-(J) 120PF	1270121
C21	Chip CAP. SL-(J) 120PF	1270121
C22	Chip CAP. SL-(J) 120PF	1270121
C23	Chip CAP. SL-(J) 68PF	1270680
C24	Axial CAP. Y-(M) 0.01uF	3Y46103
C25	Chip CAP. SL-(J) 22PF	1270220
C26	Chip CAP. SL-(J) 8PF	1270809
C27	Chip CAP. SL-(J) 56PF	1270560
C28	Chip CAP. F-(Z) 0.1uF	12F2104
C29	Chip CAP. F-(Z) 0.1uF	12F2104
C30	Electrolytic CAP. 10uF/10V	526S106
C31	Chip CAP. B-(K) 1000PF	12B2102
C32	Electrolytic CAP. 3.3uF/50V	526W335
C33	Chip CAP. B-(K) 2200PF	12B2222

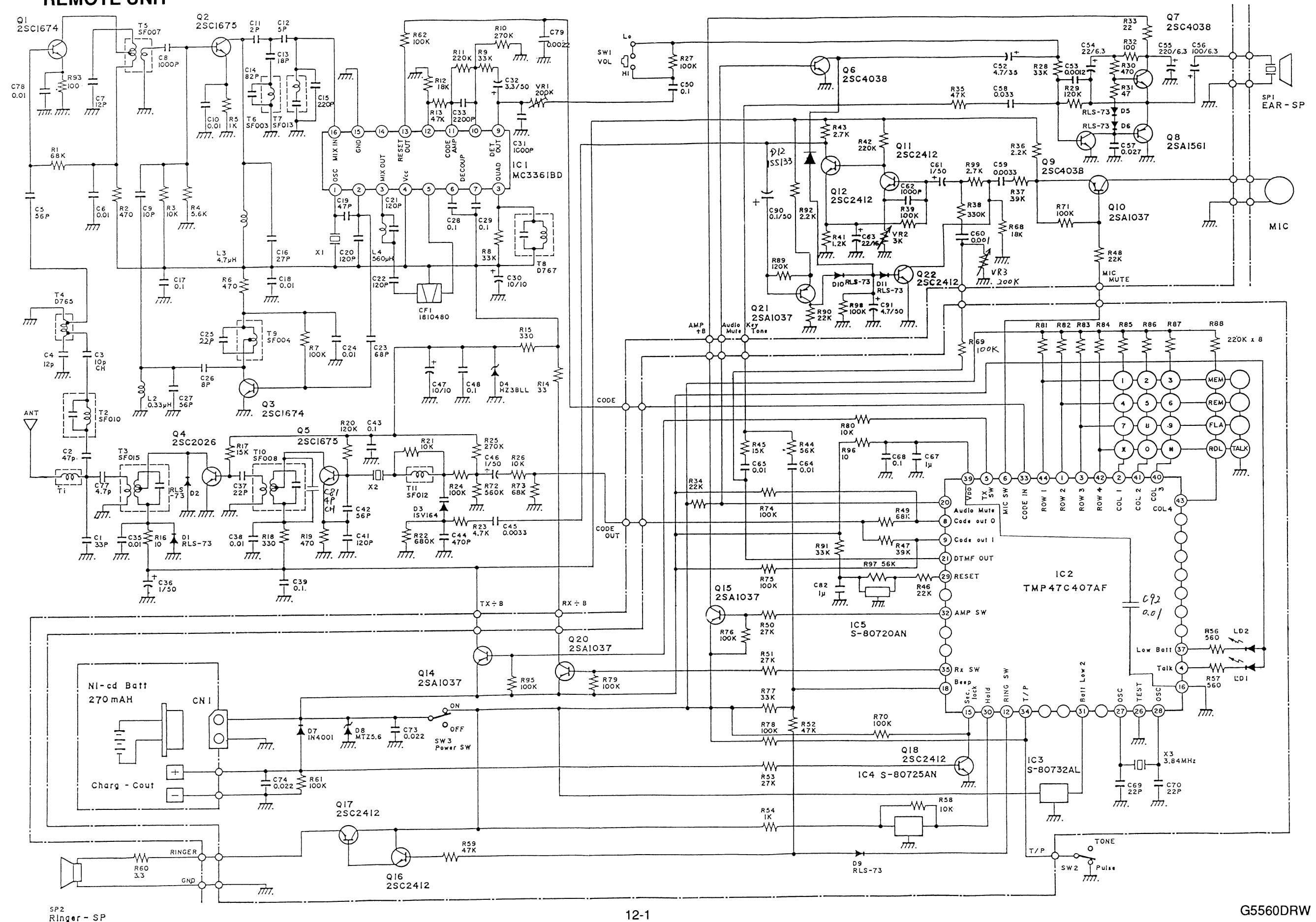
Ref. No.	Description	Part No.
C35	Chip CAP. B-(K) 0.01uF	12B2103
C36	Electrolytic CAP. 1uF/50V	526W105
C37	Chip CAP. SL-(J) 22PF	1270220
C38	Chip CAP. B-(K) 0.01uF	12B2103
C39	Chip CAP. F-(Z) 0.1uF	12F2104
C41	Chip CAP. SL-(J) 120PF	1270121
C42	Chip CAP. SL-(J) 56PF	1270560
C43	Chip CAP. F-(Z) 0.1uF	12F2104
C44	Chip CAP. SL-(J) 470PF	1270471
C45	Chip CAP. B-(K) 0.0033uF	12B2332
C46	Electrolytic CAP. 1uF/50V	526W105
C47	Electrolytic CAP. 10uF/10V	526S106
C48	Chip CAP. F-(Z) 0.1uF	12F2104
C50	Chip CAP. F-(Z) 0.1uF	12F2104
C52	Electrolytic CAP. 4.7uF/35V	526V475
C53	Chip CAP. B-(K) 0.0012uF	12B2122
C54	Electrolytic CAP. 22uF/6.3V	526R226
C55	Electrolytic CAP. 220uF/6.3V	526R227
C56	Electrolytic CAP. 100uF/6.3V	526R107
C57	Chip CAP. B-(K) 0.027uF	12B2273
C58	Chip CAP. B-(K) 0.033uF	12B2333
C59	Chip CAP. B-(K) 0.0033uF	12B2332
C60	Chip CAP. B-(K) 1000PF	12B2102
C61	Electrolytic CAP. 1uF/50V	526W105
C62	Chip CAP. B-(K) 1000PF	12B2102
C63	Electrolytic CAP. 22uF/16V	526T226
C77	Axial CAP. SL-(J) 6.8PF	3S43689
C78	Chip CAP. B-(K) 0.1uF	12B2104
C79	Chip CAP. B-(K) 0.0022PF	12B2222
C90	Electrolytic CAP. 0.1uF/50V	526W104
C91	Electrolytic CAP. 4.7uF/50V	526W475
Coils		
T1	Casing Coil	113D850
T2	Casing Coil	LFA07V*SF010
T3	Casing Coil	LFA07V0SF015
T4	Casing Coil	113D765A
T5	Casing Coil	LFA07V*SF007
T6	Casing Coil	LFA07V*SF003
T7	Casing Coil	LFA07V*SF013
T8	Casing Coil	113D767
T9	Casing Coil	LFA07V*SF004

BASE UNIT

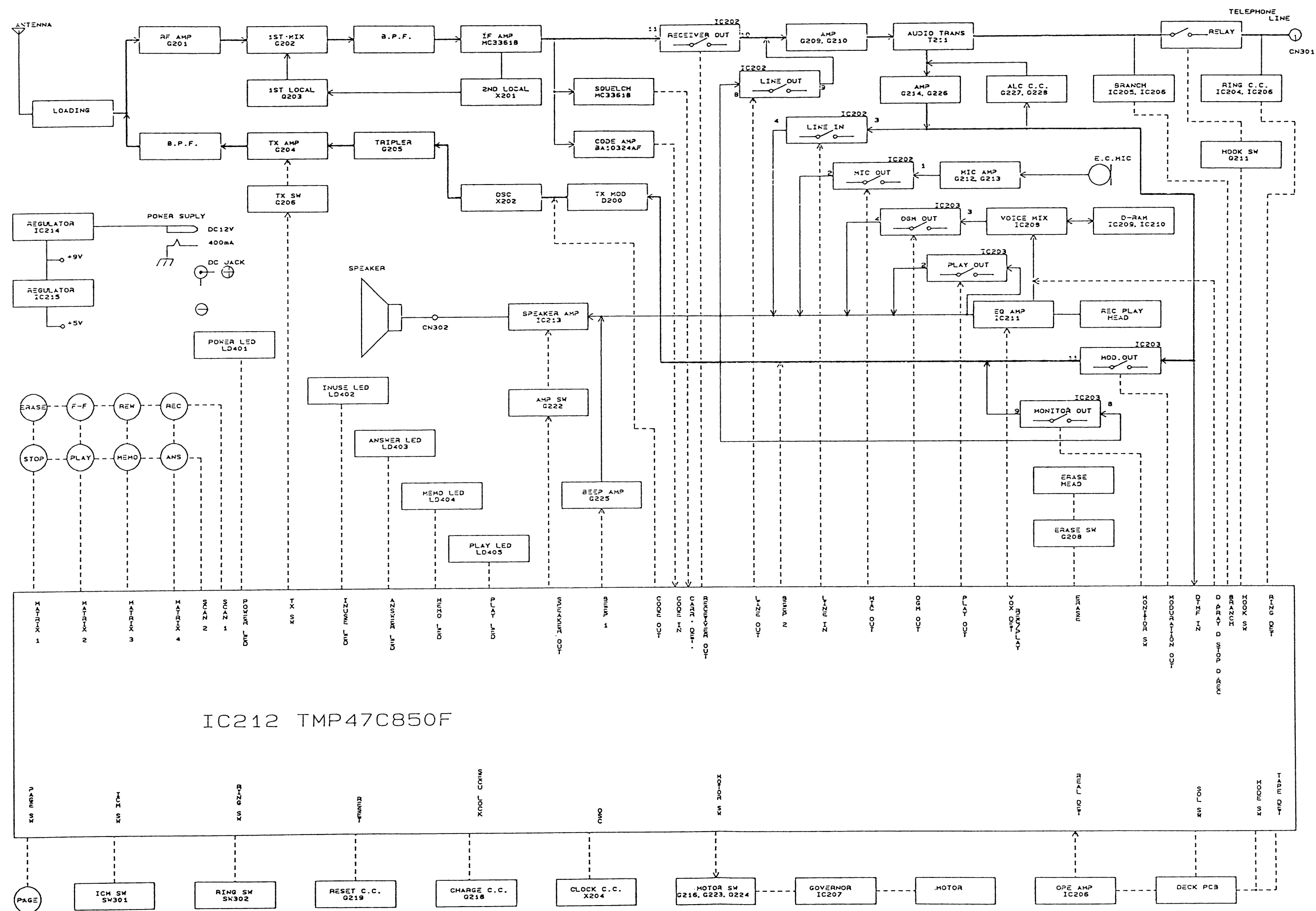


SCHEMATIC DIAGRAMS AND CIRCUIT BOARDS

REMOTE UNIT



BASE UNIT



WIRING DIAGRAMS

REMOTE UNIT

