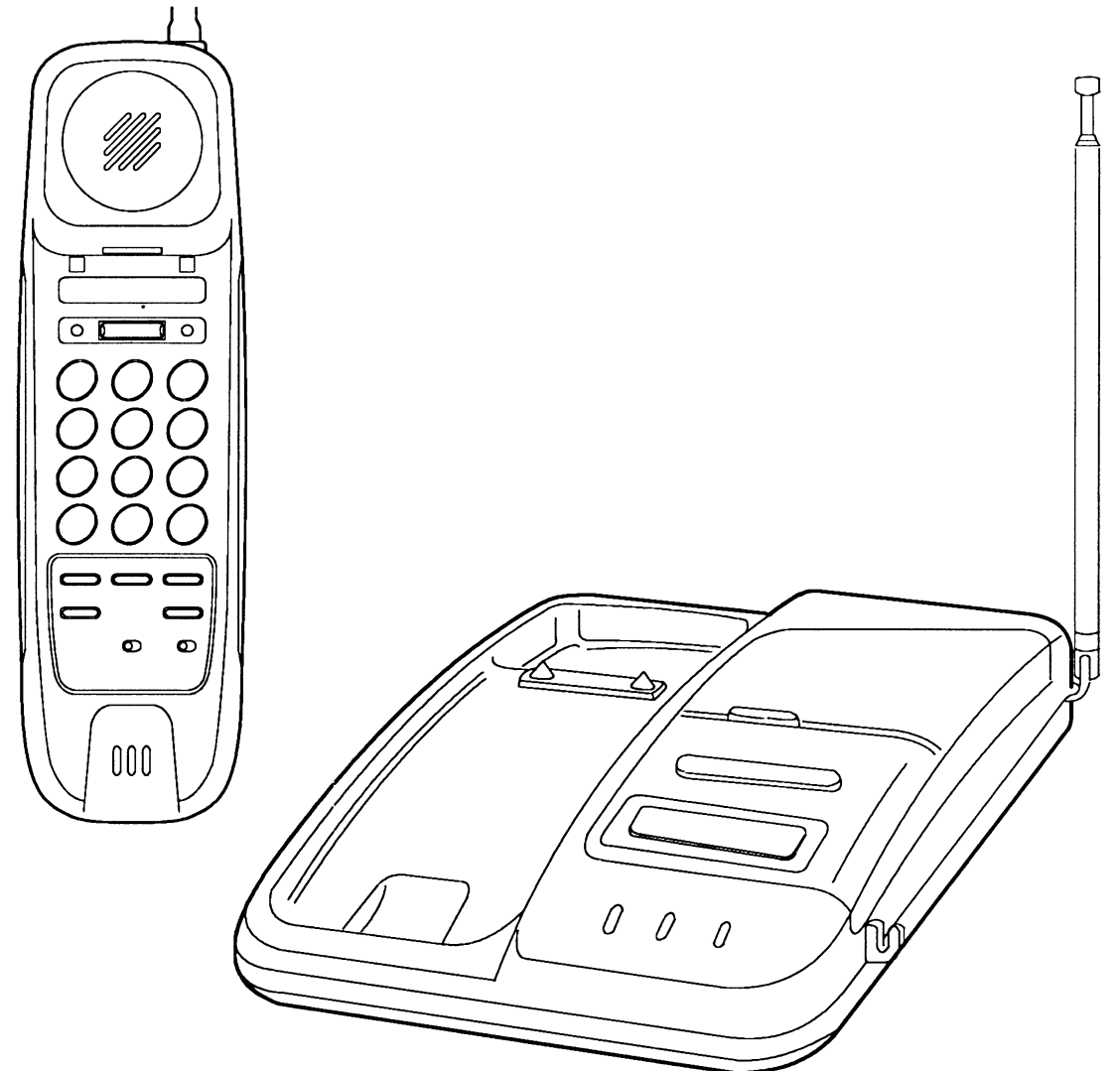




SERVICE MANUAL

SCT1000

CORDLESS TELEPHONE



CONTENTS

NOTICE	1	PCB	
THEORY OF OPERATION	2	REMOTE MAIN	20
ALINMENT PROCEDURE	4	KEYBOARD	21
ADJUSTMENT POINT	6	CONTROL	22
TROUBLESHOOTING GUIDE	8	LED	22
SEMICONDUCTOR LEAD IDENTIFICATION	10	BASE	23
SEMICONDUCTOR VOLTAGE CHART	13	ELECTRICAL PARTS LIST	24
BLOCK DIAGRAM		SCHEMATIC DIAGRAM	
REMOTE	16	REMOTE	28
BASE	17	BASE	29
WIRING DIAGRAM		EXPLODED VIEW	
REMOTE	18	REMOTE	30
BASE	19	BASE	31
		MECHANICAL PARTS LIST	32

NOTICE

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

Remove the helical antenna of Hand Set to adjust.

THEOLY OF OPERATION

Base Unit

1.Standby Mode

Whenever the base unit is turned on, the IC451 devel-ops +5VDC which is fed to ICs 201,251,352(this IC is made operative only when pin 24 of IC301 goes low,-- even through the IC is fed with power, making them op-erative. And the +12VDCis applied to IC351. The reset circuit consisting of Q301, R307, R30The low of the output from pin 8 is detected by pin 23 of the CPU and the unit enters the ring mode in which a digital code is sent out.The low of the output from pin 8 is detected by pin 23 of the CPU and the unit enters the ring mode in which a digital code is sent out.8, C303, and D305 brings the pin33 of IC301 (CPU) high after the pin 42 has reached high, initializing the CPU and putting the unit into the standby mode. Now, the following circuits are functionable.

- RF Circuit
- IF Circuit
- RX Audio Amplifier
- Carrier Detector
- TX Load OSC
- RX Load OSC

The MUTE is also made effective by the CPU output port.

2.Charging

Placing the remote unit on the cradle causes the base unit to supply charge current through the terminal to the remote unit, feeding current into the base of Q451, which in turn, lights the charge LED (D453).

3.INT'COM

Pressing the INT'COM switch (S304) in the standby mode places a low on the 9pin of CPU (IC 301) which puts the unit into the INT'COM mode the CPU places a high on its pin 6, which turns the TX SW on, feeding the tripler, and outputs digital code on its pins 22 and 23. And pins 24 and 25 of IC201 are low, enabling ECM speaker and allowing communication between the base unit and remote unit.

The 46MHz carrier is then transmitted from the antenna through the TX filter. The carrier is FM modulated with

the digital code being applied to pin 3 (MOD IN) of IC201.

4.Ringing

When an input signal is received at the TEL line, a ring signal is triggered by the photo coupler(IC 401) and then fed through R316 and R313 to pin 10(ring detec-tor) of IC351. The ring detector is consisting of R313,R314,R315,R316 and C364. The pins 9 and 10 are normally biased at high, but the voltage on pin 10 varies with the ring signal and the outuit pin 8 goes and stays low while the ring signal is output.

Usually		Output waveform on pin 8
Ring starts	Ring ends	

The low of the output from pin 8 is detected by pin 23 of the CPU and the unit enters the ring mode in which a digital code is sent out.The low of the output from pin 8 is detected by pin 23 of the CPU and the unit enters the ring mode in which a digital code is sent out.

5. IN USE

Setting the remote unit to TALK mode sends a digital code. The carrier frequency is at 49MHz band when it is sent from the remote unit and passes through L201, T201 and T250 of the base unit, amplified at Q251, further passes through T251 and IC251 where it is converted to 455kHz by X251 and the dermodulated digital code is sent out from pin 9 of IC251,passes through an OPE-amp of IC351 and then separated into code A and B. The CPU reads these codes from pins 35 and 37,respectively, and if the security codes match each other, transmits an ACK and sets the unit to IN USE mode. Upon entering IN USE mode, pin 25 of the CPU goes high, activating the relay driver, drivingLR401 which makes the line off hook and flows the current through the line. The CPU puts the pin 17 low to light the PHONE LED (D301), also puts the pin 41 low to disable MUTE.

6. Dialing

(Tone Dialing)

When a tone dialing is made on the remote unit in IN USE mode, a DTMF signal is amplified and detedted at IC251 and then fed to the OPE-amp of IC351 where it is

further amplified and placed on the line through T400.

(Pulse Dialing)

when a pulse dialing is made on the remote unit in IN USE mode, the remote unit routes a dial code to the base unit which detects the code and if it is a correct one, interrupt the CPU to enter the pulse dialing mode.

Remote Unit

Receiving by Remote Unit

1. The RF energy of 46MHz band emitted from the base unit is picked up by the antenna of the remote unit. The picked-up signal reaches T1 (loading coil) and an RF filter consisting of T2, T3, T4 and T9, and is amplified by Q1.
2. The 46MHz band oscillation frequency from X1 is converted to 455kHz, passes through CF1 (455kHz filter) and is amplified by IC1 (amplifier).
3. The amplified 455kHz signal is FM-detected by IC1, and the detected signal is output from pin 9 of IC1. That is, the original signal which has been modulated at the base unit is demodulated here at the remote unit, and output from pin 9 of IC1.

Sending from remote unit

1. when TALK button is pressed in the standby mode, the remote unit enters sending mode with pin 12 of IC101 switching from high to low.
2. A high to low transition on pin 12 of IC101 is transferred to the collector of Q3 to cause it to go high.
3. When Q3 is activated, a voltage appearing at the collector of Q3 causes IC2 to be activated.
4. IC2 generates a signal at 16MHz band.
5. The 16MHz band signal is tripled to become a 49MHz band signal, which is amplified by IC2, passes through a filter network of T2 and T1 (loading coil), and then emitted from the antenna.

Switch scanning on the remote unit

IC101 (MPU) of the remote unit scans SECURITY CODE SW (S104) to recognize its condition as follows:

1. IC101 causes its pins 10 and 11 to sequentially go low for a short time, that is, sends scan signals to the switch.
2. Pins 22 and 25 of IC101 also connect to the switches as inputs to IC101. IC101 recognizes the setting of the SEQ SW for security code from the high/low statuses of the inputs at the instant that pins 10 and 11 of IC101 are low.

TALK/ST-BY/OFF mode of the remote unit

1.

TALK MODE

Pressing TALK button causes the unit to enter TX ON status, and the code is sent from pins 19 and 20 of IC101 to pin 3 of IC2 from which the code is transmitted. Returning of ACK from the base unit means that the code is coincident. Link is established and unit enters PHONE mode. Pin 15 of IC101 goes high causing Q2 to turn on MIC. At the same time, pin 14 of IC101 goes high to active Q105 which in turn enables Q101 and Q102 to drive the speaker which emits the voice. Pin 8 of IC101 goes low and the LED (D109) lights.

ST-BY mode

Pressing again TALK button pulls pin 14 of IC101 to low, which causes Q105 to disable Q102, silencing the speaker. Pin 12 of IC101 also goes low. pin 8 of IC101 goes high, turning off the LED (D109). The code is sent from pins 19 and 20 of IC101 to the base unit which in turn, sends back ACK. And the unit enters the ST-BY mode.

2.

OFF mode is entered when POWER ON/OFF (S101) switch is set to OFF, as explained below. Setting the switch to the OFF position causes +B to be fed only to 39pin of IC101.

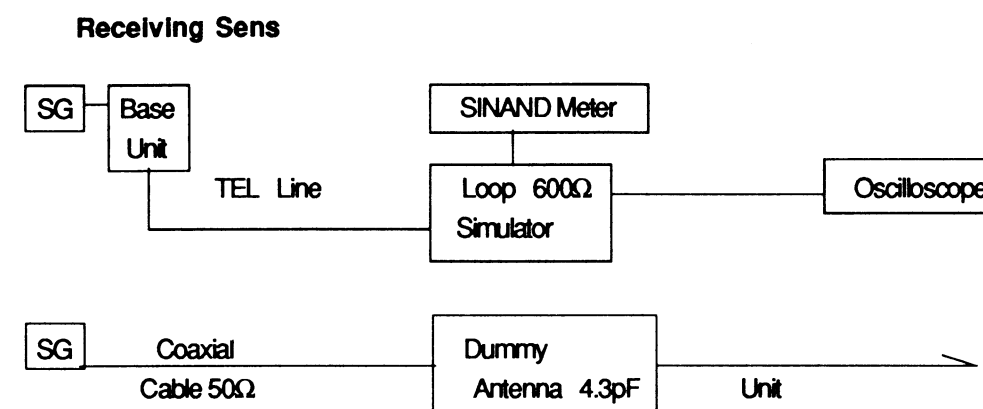
ALIGNMENT PROCEDURE

Base Unit

1. Setup

Power up the unit (plug in the AC adaptor).

2. Adjusting RX Sens Setup



With the condition stated above, hook up the devices as shown in the figure. Set the SG for 1mV, 1kHz, 2.5kHz modulation. operate the loop simulator at 28mA. Terminate TEL LINE with a 600 ohm load. Adjust T252, T250 and T251, L201 for a maximum RX sens. Next, readjust T250 and T251, L201 in that order for a maximum RX sens.

3. Adjusting Transmitter Frequency

- CH1 46.610MHz
- CH8 46.870MHz
- CH10 46.970MHz

Feed the TX output to the RF counter. (The lead of rod antenna must be left disconnected.) Open circuit pin 15 of IC301 and pull up R205 to +5VDC. This enables the TX carrier to be output. Fine tune L202 so that the frequency of each channel is within $\pm 100\text{Hz}$ of the specified frequency listed above.

4. Adjusting Transmitter Output

Set side

Connect a 11.9pF and 50 ohm to the TP1 in series as shown in the figure left. Connect an RF VTMM across the 50 ohm. Adjust T201, T202 and L201 for a peak reading on the meter.

While operating the transmitter, short-circuit LR401. Now, a current of 28mA is supplied from the loop simulator to the primary circuit of the telephone line, TEL LINE 1. Disconnect one of the leads of R309 to disable MUTE. Connect the test point 1 (node of C222 and rod antenna) to the oscilloscope through 4.3pF (GND TP2).

Adjusting Carrier Sens

With the base unit in PHONE mode, turn VR251 fully counterclockwise. Turn VR251 clockwise to a point where pin 13 (TP3) of IC251 switches from low to high when Usable Sens is set to 6ds SINAD.

Remote Unit

1. Setup

Apply a 3.8 VDC from the constant voltage source to the Remote Batt terminal.

2. Adjusting Batt Low Turn On Voltage

Set the source voltage to 3.3V and switch the power SW (S101) on. Adjust VR101 to a point where Batt Low LED (D110) becomes lit.

3. Adjusting Transmitter Frequency

Set the source voltage to 3.8VDC. Set the unit to TALK mode; PHONE LED (D109) will light. Connect the dummy antenna across TP1 and TP2 (see figure). Connect the RF counter across the 10 ohm noninductive resistor. Fine tune T7 so that each of the following frequencies is within $\pm 500\text{Hz}$ of the specified value.

- CH1 49.670MHz

CH8 49.930MHz
CH10 49.970MHz

4. Adjusting Transmitter Power

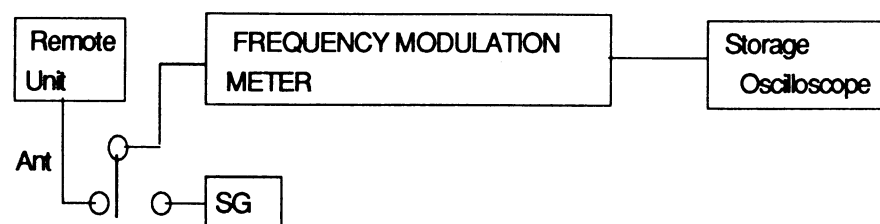
With the set left at the state as in para. 3 above, connect the RF VTVM across the 10 ohm. Obtain a maximum reading on the meter with the following adjustments.

1. Adjust T6, T2 and T1 for a maximum reading.
2. Readjust T6, T1 and T2 in that order for a maximum reading.
3. turn T2 clockwise for a 100mV rms reading.
4. Again adjust T1 for a maximum transmitter power and then readjust T2 for 100mV rms.

5. Adjusting Receiving Sens

1. Set the unit to TALK mode.

7. Adjusting Digital Code Dev.



With the above setup, adjust Digital Code Dev. using a substitution method as described below.

1. Adjust the modulation rate at the SG so that Freq. Mod. meter reads $1\text{kHz} \pm 3.5\text{kHz}$ Dev. Record the peak output of the direct detector on the storage oscilloscope.

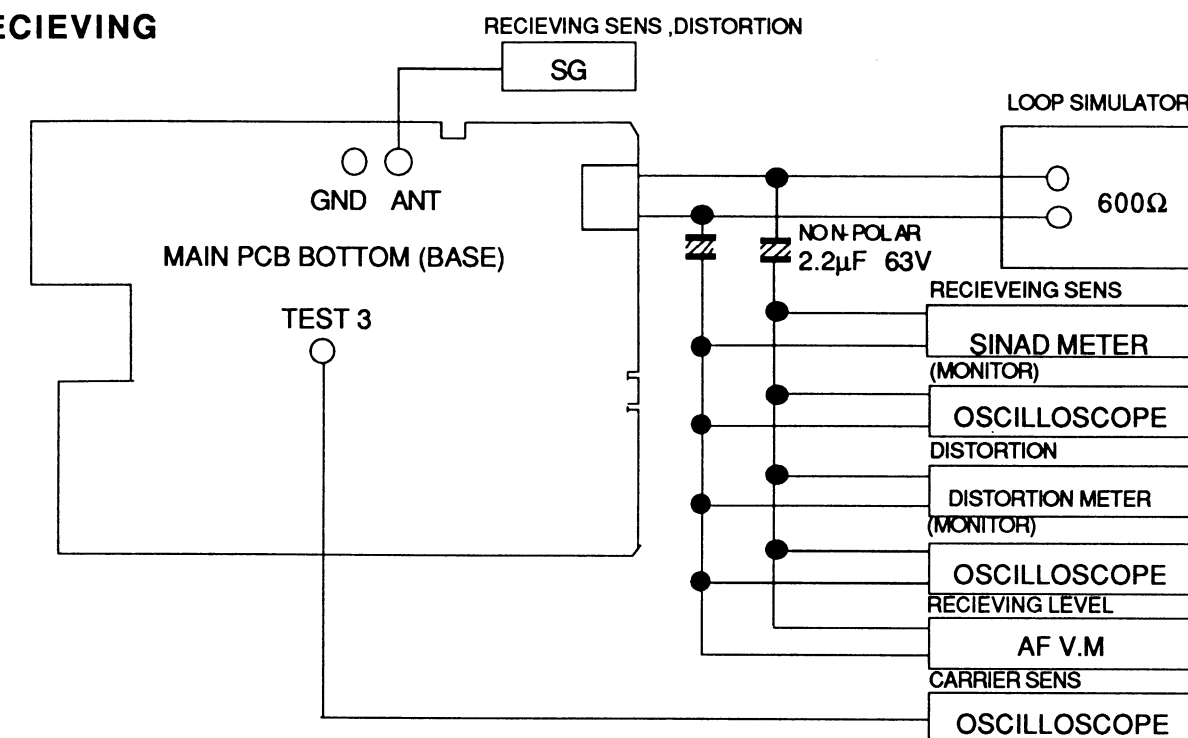
2. Connect the SG(modulation, $1\text{kHz} \pm 2.5\text{kHz}$ Dev.) across TP1 and TP2 through the dummy load(4.3pF).
3. Connect a $0.056\mu\text{F}$ capacitor to SPEAKER terminal as a dummy load. Connect the VTVM across the capacitor.
4. Adjust T5, T9, T4, T8 and T3 for a maximum receiving sens.
5. Readjust T9, T4, T3 and T8 in that order for a maximum receiving sens.

6. Modulation Sens

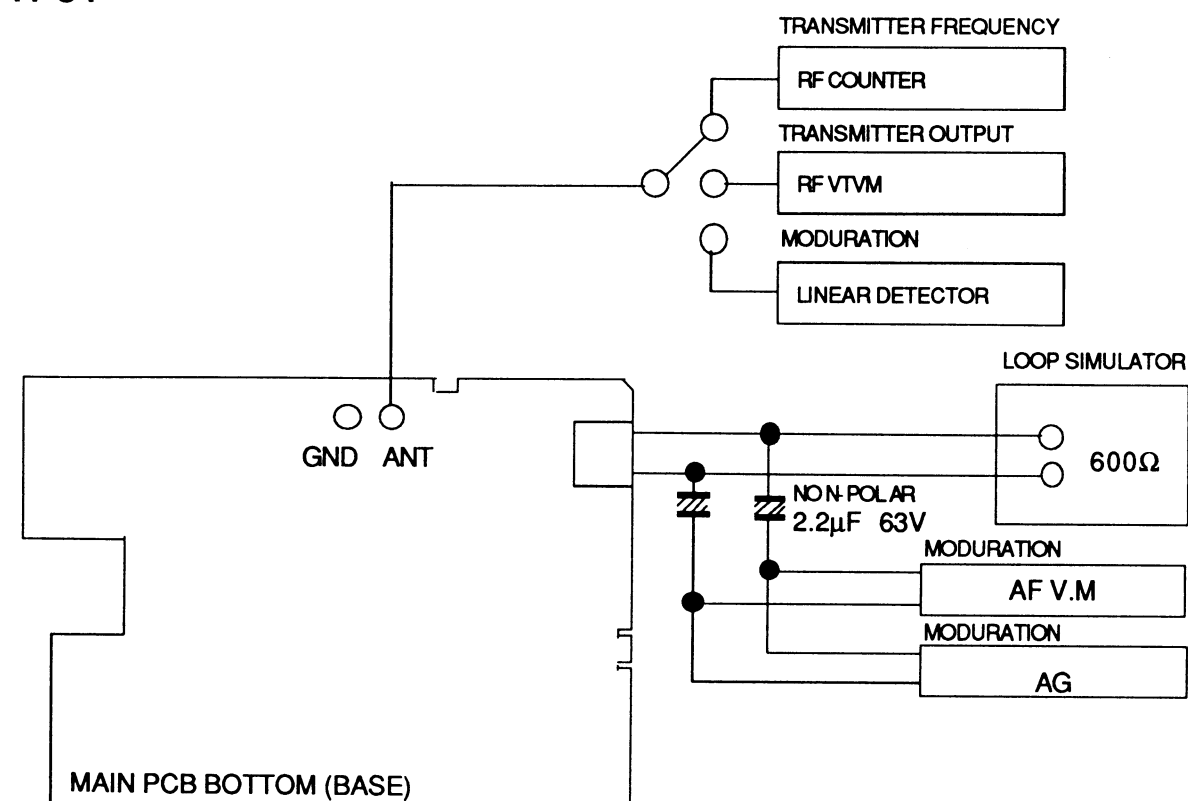
Connect a dummy load(4.3pF) across TP1 and TP2 as shown in the figure below. Connect the audio generator to MIC input via $1\mu\text{F}$ capacitor. With TALK mode, set the generator for 15mV output at 1kHz. Adjust VR2 so that the frequency modulation meter shows 2.5kHz deviation.

ADJUSTMENT POINT (BASE SET)

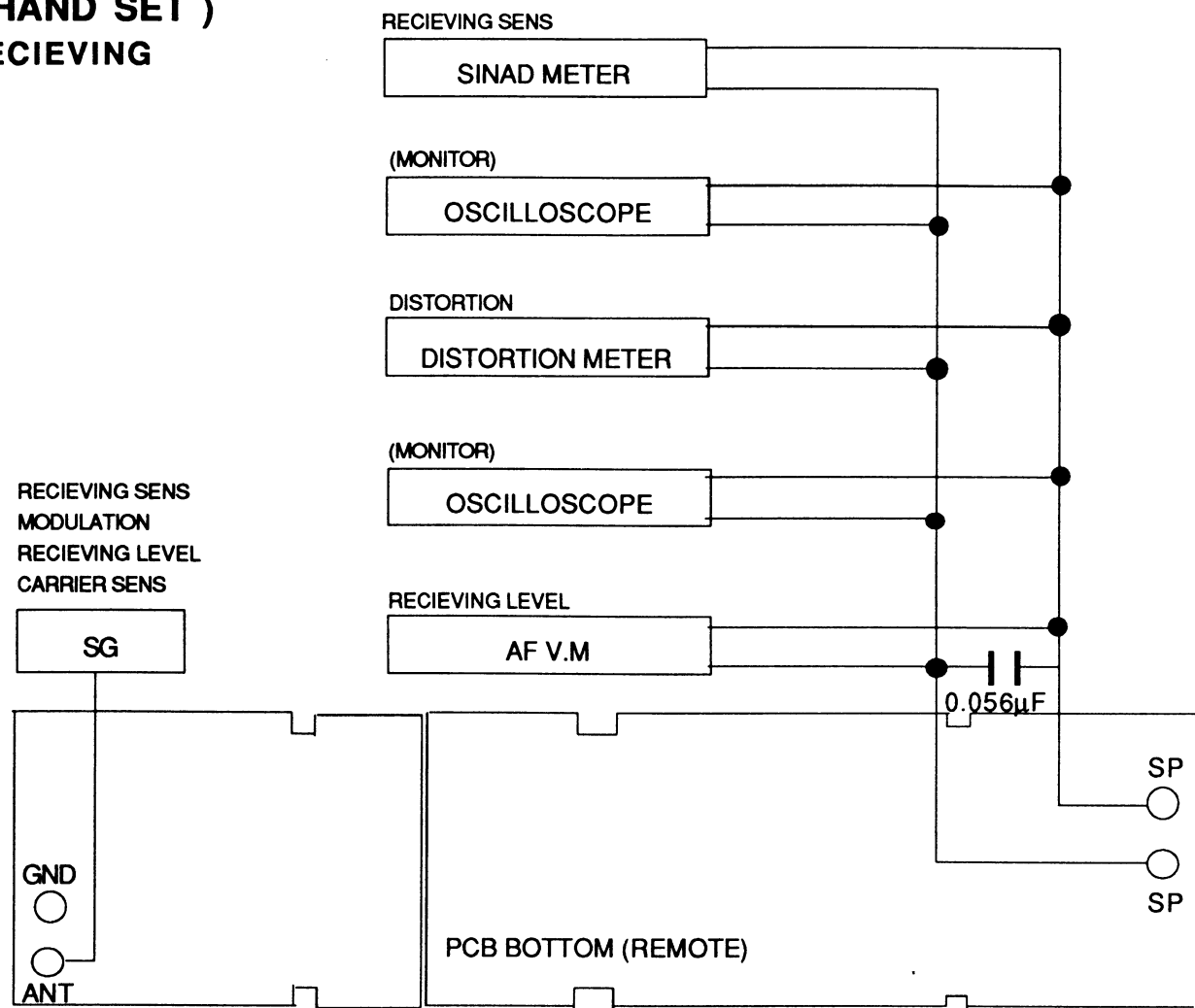
RECEIVING



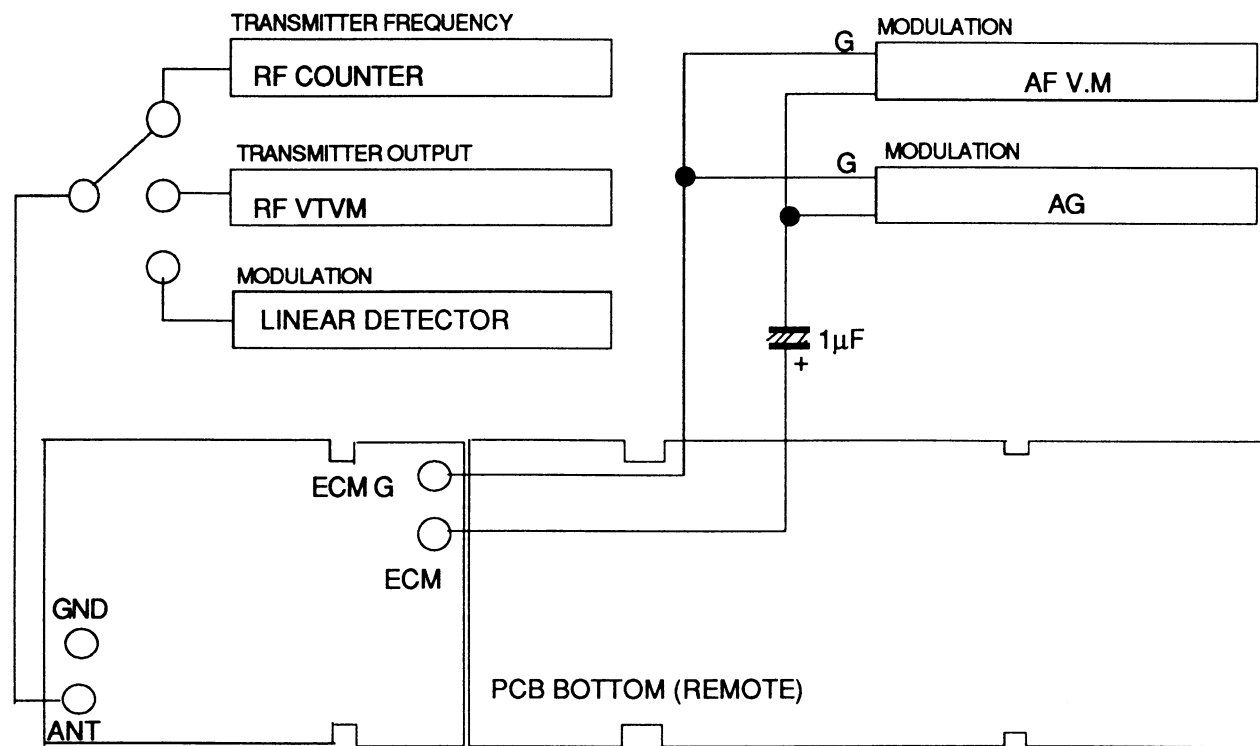
OUTPUT



(HAND SET)
RECIEVING



OUTPUT



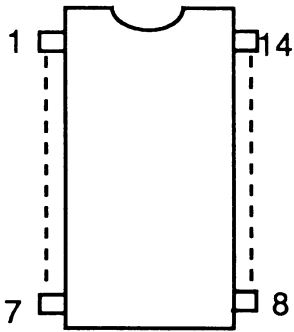
TROUBLESHOOTING GUIDE

Base Unit (Assuming that the security code SW is matching that of the remote unit.)		
Problem	Check If	Check Point
Power LED won't light	a) No power from AC adaptor	AC/DC adaptor
	b) AC adaptor is good	IC451, IC301
No ring accepted	Phone LED won't flash	IC401, IC351, IC301
No ring sound in remote mode	Phone LED is flashing	IC301, IC201
No charging	CHG LED eon't light	Q451, Broken wire
Page wornt sound in remote mode	a) Neither does ring	IC401, IC351, IC301, IC201, S304
	b) Ring sounds	IC301, S304
TALK won't work		IC251, IC301, IC351, Q251
Can't enter standby mode		IC251, IC301, IC351, Q251
Auto standby won't work	SFBY is possible	Broken wire, Q451
High noise level		IC251, IC201, IC351, Q251
No party's voice		IC201
No voice to the other party	Party's voice can be heard	IC251, IC351, Q251
Party's voice is distorted		IC201
High side tone level		IC251, IC351, IC201, Q251
Line is kept accessed	PHONE LED lights	Q302, LR401, IC301
No dialing		Q302, LR401, IC301, Q251, IC251, IC351
Flash and redial functions are disabled		Q251, IC251, IC351, IC301, Q302, LR401

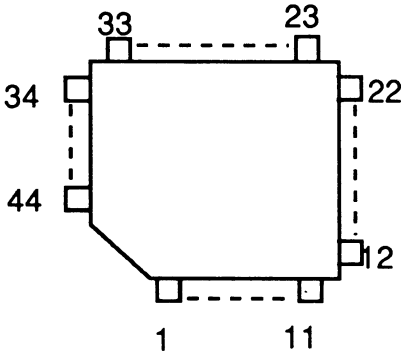
Troubleshooting (Assuming that the battery reading is high enough.) Remote Unit (The security code SW must match that of the base unit.)		
Problem	Check if	Check Point
No ring accepted	a) TALK LED won't light	S101, IC1, IC101, Q1, Q104, Q106, S101
	b) PHONE LED on the base unit won't light	IC101, IC2, Q3
No sound heard	a) Only noise heard	IC101, IC1, IC2, Q1, Q3
	b) Even noise not heard	IC101, Q103, Q104, Q105, IC1, Q101, Q102, IC2, Q1, Q3, S101, SP101
No message transmitted to the other party		IC101, ECM, Q2, IC2, Q3, S101
Dialing impossible	a) Tone dialing only impossible	IC101, IC2, Q3
	b) Pulse dialing only impossible	IC101, IC2, Q3
	c) No dialing impossible	IC101, S103, IC2, Q3, S101
Key tone is not heard	Dialing is possible	IC101, Q3, Q101, Q102, Q105, S103, SP101
Cannot enter STANDBY mode		IC101, IC1, Q1, Q104, S101
No ring sound	LED is flashing	IC101, Q107, Q108, SP102
No charging		Broken wire
Auto Standby is impossible	ST-BY is possible	IC101, Q106
Low Batt LED won't light		IC101
No redial		IC101, IC2, Q3

SEMICONDUCTOR LEAD IDENTIFICATION

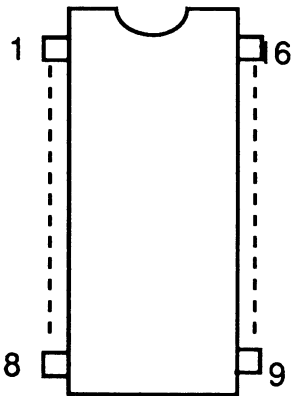
IC1, IC2, IC201, IC251



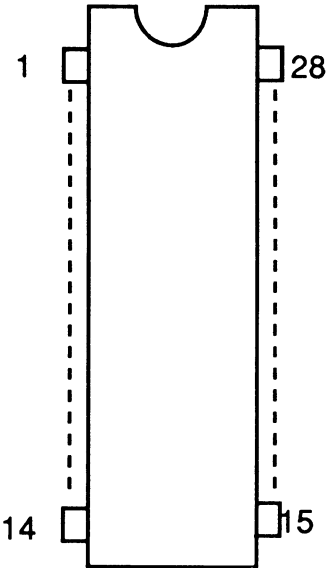
IC101



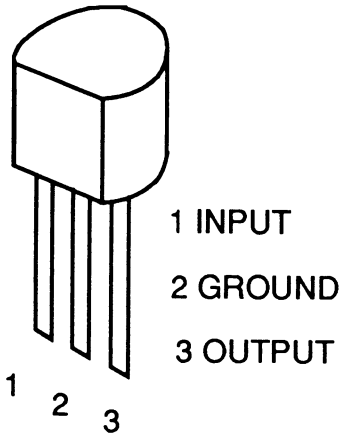
IC1, IC2, IC201, IC251



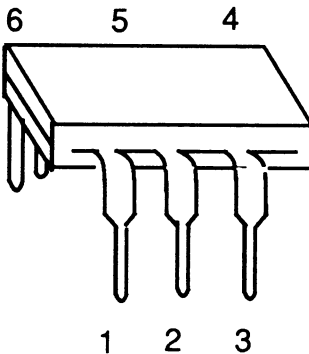
IC301



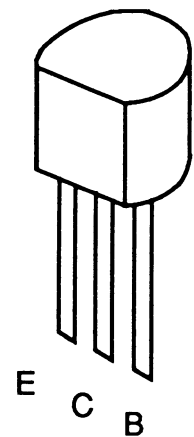
IC451



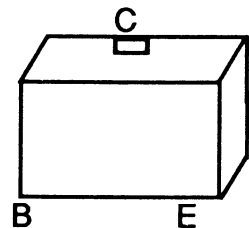
IC401



TRANSISTOR



2SC1674 2SC1674 .LA733
KSC945C.LC945.KSA733C

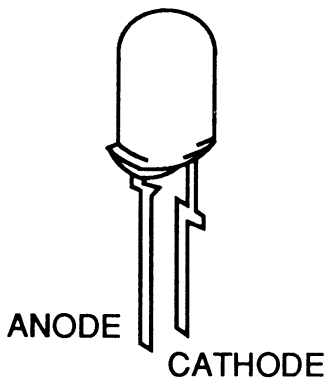


23C2421K
23A1037K

DIODE

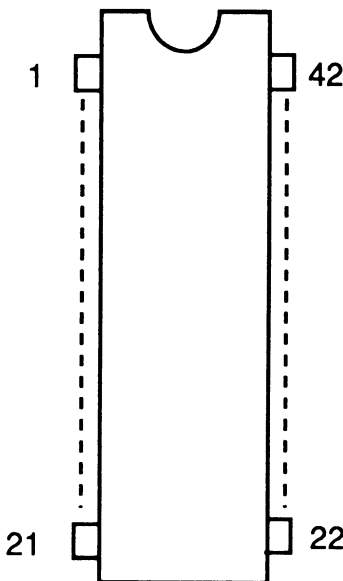


ISS176.MIZ3.3B.IN4002.MTZ3.9B.MTZ22B
ISS133.MTZ5.6B.IN4004.MTZ8.2B.MTZ24B

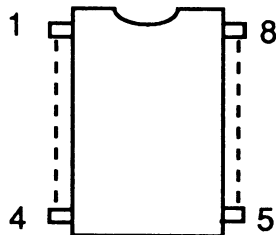


LN28RPE
LN28RPL

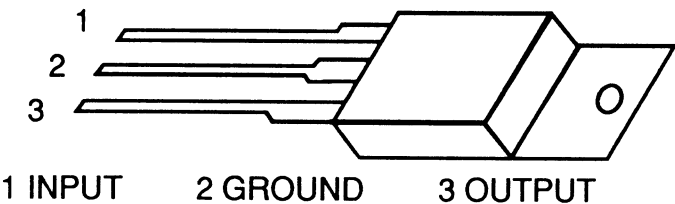
IC301



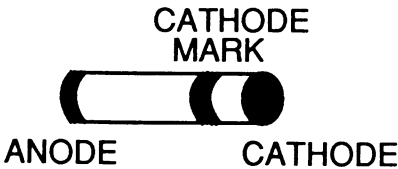
IC352



IC451



DIODE



RLS-73

SEMICONDUCTOR VOLTAGE CHART
REMOTE UNIT

PIN NO.	ON-HOOK.V OFF-HOOK.V	PIN NO.	ON-HOOK.V OFF-HOOK.V	PIN NO.	ON-HOOK.V OFF-HOOK.V	PIN NO.	ON-HOOK.V OFF-HOOK.V	PIN NO.	ON-HOOK.V OFF-HOOK.V
IC 1	MC3361	IC101	TMP47C452AF						
1	0.8	1	3.8	35	0				
	3.0		3.8	36	3.8				
2	0	2	3.8		3.8				
	2.4		3.8	37	0				
3	0.8	3	3.8		0				
	2.8		3.8	38	0				
4	0.8	4	3.8		0				
	2.8		3.8	39	3.8				
5	0.8	5	3.8		3.8				
	2.8		3.8	40	0				
6	0.8	6	3.8		0				
	2.8		3.8	41	0				
7	0.8	7	3.8		0				
	2.8		3.8	42	0				
8	0.8	8	3.8		0				
	2.8		0	43	0				
9	0.8	9	0		0				
	3.0		0	44	3.8				
10	0.8	10	3.8		3.8				
	1.0		3.8						
11	0	11	3.8						
	0.8		3.8						
12	1.0	12	3.4						
	3.0		0						
13	0	13	0						
	1.0		0						
14	3.8	14	3.8						
	3.8		0						
15	0	15	3.0						
	0		0						
16	0	16	0						
	1.8		0						
IC 2	MC2833	17	0						
			0						
1	0.5	18	1.8						
	2.2		1.4						
2	0	19	3.8						
	1.0		3.8						
3	0	20	0						
	1.0		0						
4	0	21	0						
	1.0		0						
5	0	22	3.8						
	1.4		3.8						
6	0	23	3.8						
	0		3.8						
7	0	24	3.8						
	0		3.8						
8	0.5	25	3.8						
	1.0		3.8						
9	0.5	26	0						
	1.5AC		0						
10	0.5	27	1.4AC						
	3.0		1.4AC						
11	0.5	28	1.4AC						
	2.5		1.4AC						
12	0	29	3.8						
	0		3.8						
13	0.5	30	3.5						
	1.0		3.8						
14	0	31	0						
	1.8		3.0						
15	0	32	0						
	2.4		0						
16	0.5	33	0						
	3.0		2.8						
		34	1.0						
			2.0						

REMOTE UNIT
BASE UNIT

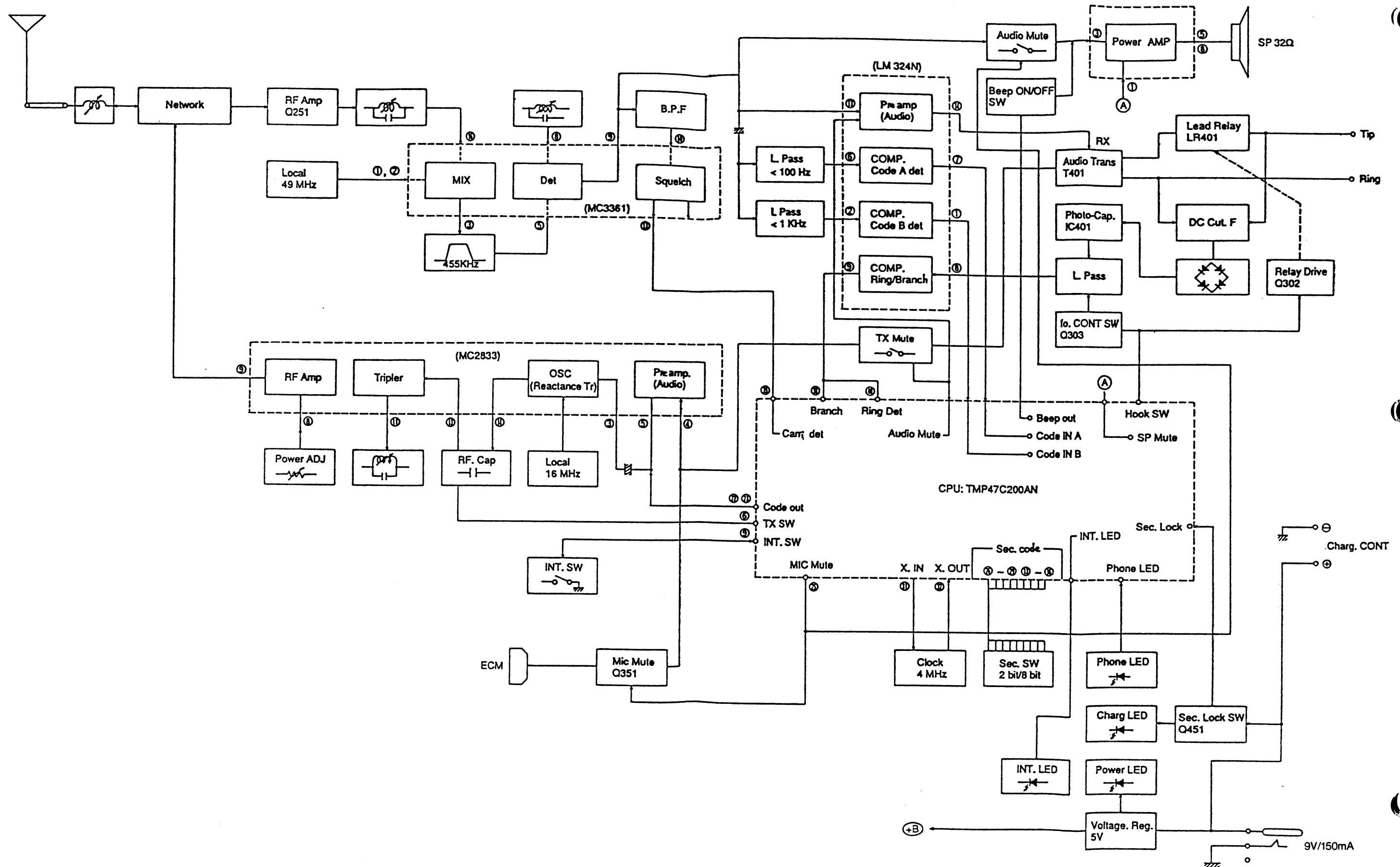
TRANSISTOR NO.	ON-HOOK OFF-HOOK VOLTAGE			TRANSISTOR NO.	ON-HOOK OFF-HOOK VOLTAGE		
	EMITTER	COLLECTOR	BASE		EMITTER	COLLECTOR	BASE
Q1	0	0.8	0.8	Q251	0	3.6	0.8
	0	3.0	0.8		0	3.6	0.8
Q2	3.8	0	3.5	Q301	5	4.8	4.3
	3.2	3.2	2.5		5	4.8	4.3
Q3	0	0.4	3.5	Q302	0	11.5	0
	3.8	3.6	3.0		0	0	0.7
Q101	0	0	0	Q303	0	0	0
	0	1.0	0.8		0	0	0.7
Q102	0	0	0		0(INT'COM)	0(INT'COM)	0(INT'COM)
	0	3.0	1.0	Q351	0	0	0.7
Q103	0	0	0.6		0	0	0.7
	0	0	0		0(INT'COM)	4.2(INT'COM)	0(INT'COM)
Q104	3.8	0.8	3.8	Q451	11.5	0	11.5
	3.8	3.6	3.0		11.0	0	11.0
Q105	3.8	0	3.8		10.0(REMOTE- CHARGE)	9.9REMOTE- CHARGE)	9.3(REMOTE- CHARGE)
	3.8	3.8	3.0				
Q106	0	0	0.6				
	0	0	0.6				
Q107	0.2	3.8	0.5				
	0.2	3.8	0.5				
Q108	0	3.8	0.2				
	0	3.8	0.2				

BASE UNIT

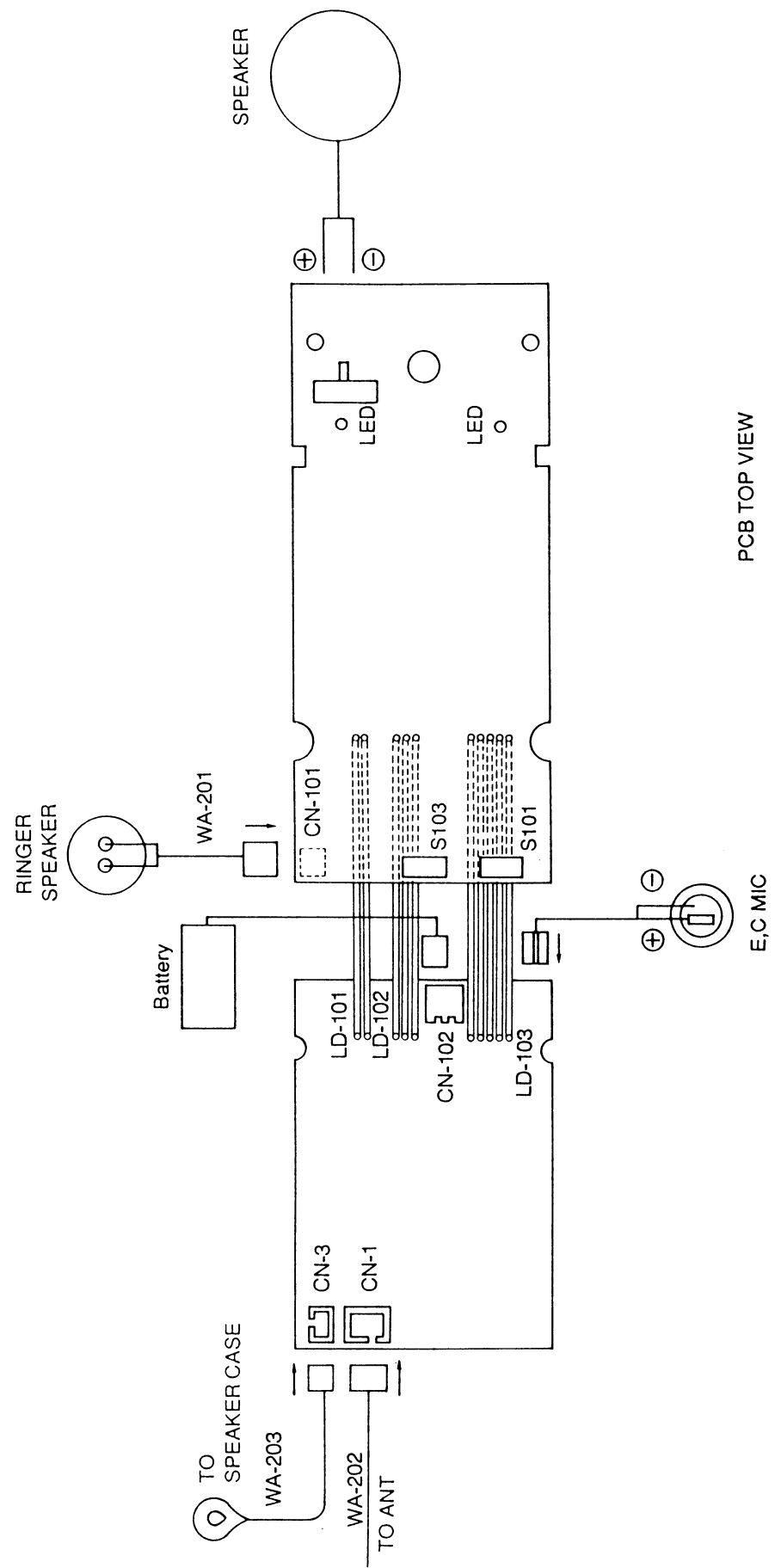
PIN NO.	ON-HOOK.V OFF-HOOK.V	PIN NO.	ON-HOOK.V OFF-HOOK.V	PIN NO.	ON-HOOK.V OFF-HOOK.V	PIN NO.	ON-HOOK.V OFF-HOOK.V	PIN NO.	ON-HOOK.V OFF-HOOK.V
IC201	MC2833P	IC301	TMP47C200A	33	4.8	IC401	CNY17-2		
1	4.4	1	5.0		4.8	1	0		
	4.4		5.0	34	0		0		
2	2.9	2	5.0		0	2	0		
	2.9		5.0	35	5.0		0		
3	1.0	3	5.0		5.0	3	0		
	1.0		5.0	36	0		0		
4	1.3	4	5.0		0	4	0		
	1.4		5.0	37	5.0		0		
5	1.3	5	0		5.0	5	1.0		
	1.4		2.9	38	5.0		1.0		
6	0	6	0		5.0	6	0.8		
	0		5.0	39	4.1		0.8		
7	0		5.0		0	IC451	MC78M05CT		
	0	7	5.0		Q(INTCOM)	1	(INPUT)		
8	0.8		5.0	40	5.0		5.0		
	0.8	8	0		5.0	2	(OUTPUT)		
9	1.7		0	41	0		0		
	1.7	9	5.0		5.0	3	(GND)		
10	5.0		5.0	42	5.0				
	5.0		Q(INTCOM)		5.0				
11	5.0	10	5.0	IC351	LM324N				
	4.7		5.0						
12	0	11	5.0	1	6.8				
	2.2		5.0		6.9				
13	0	12	5.0	2	0.7				
	2.6		5.0		0.8				
14	3.6	13	5.0	3	0.8				
	3.6		5.0		0.9				
15	4.2	14	5.0	4	8.1				
	4.3		5.0		8.2				
16	4.9	15	5.0	5	0.8				
	5.0		5.0		0.9				
IC251	MC3361P	16	5.0	6	0.7				
1	4.3		5.0		0.8				
	4.3	17	3.5	7	6.8				
2	3.6		0		6.9				
	3.6	18	3.5	8	6.8				
3	4.2		3.5		6.9				
	4.2		Q(INTCOM)	9	0.4				
4	4.4	19	0		0.4				
	4.5		0	10	0.4				
5	4.1	20	0		0.4				
	4.1		0	11	0				
6	4.0	21	0		0				
	4.1		0	12	3.2				
7	4.0	22	1.7		3.3				
	4.1		1.7	13	1.1				
8	4.5	23	0		3.3				
	4.5		0	14	5.9				
9	2.2	24	4.5		3.3				
	1.7		4.5	IC352	MC34119P				
10	0.7		Q(INTCOM)						
	0.7	25	4.2	1	4.0				
11	1.2		4.3		4.0				
	1.0		Q(INTCOM)		Q(INTCOM)				
12	0.8	26	5.0	2	2.0				
	0.9		5.0		2.0				
13	4.1	27	5.0	3	2.0				
	0		5.0		0				
14	0	28	5.0	4	0				
	0		5.0		0				
15	0	29	5.0	5	0				
	0		5.0		0				
16	1.7	30	0	6	5.0				
	1.8		0		5.0				
		31	2.2	7	0				
			2.4		0				
		32	2.3	8	0				
			2.4		0				

HIDDEN ANT

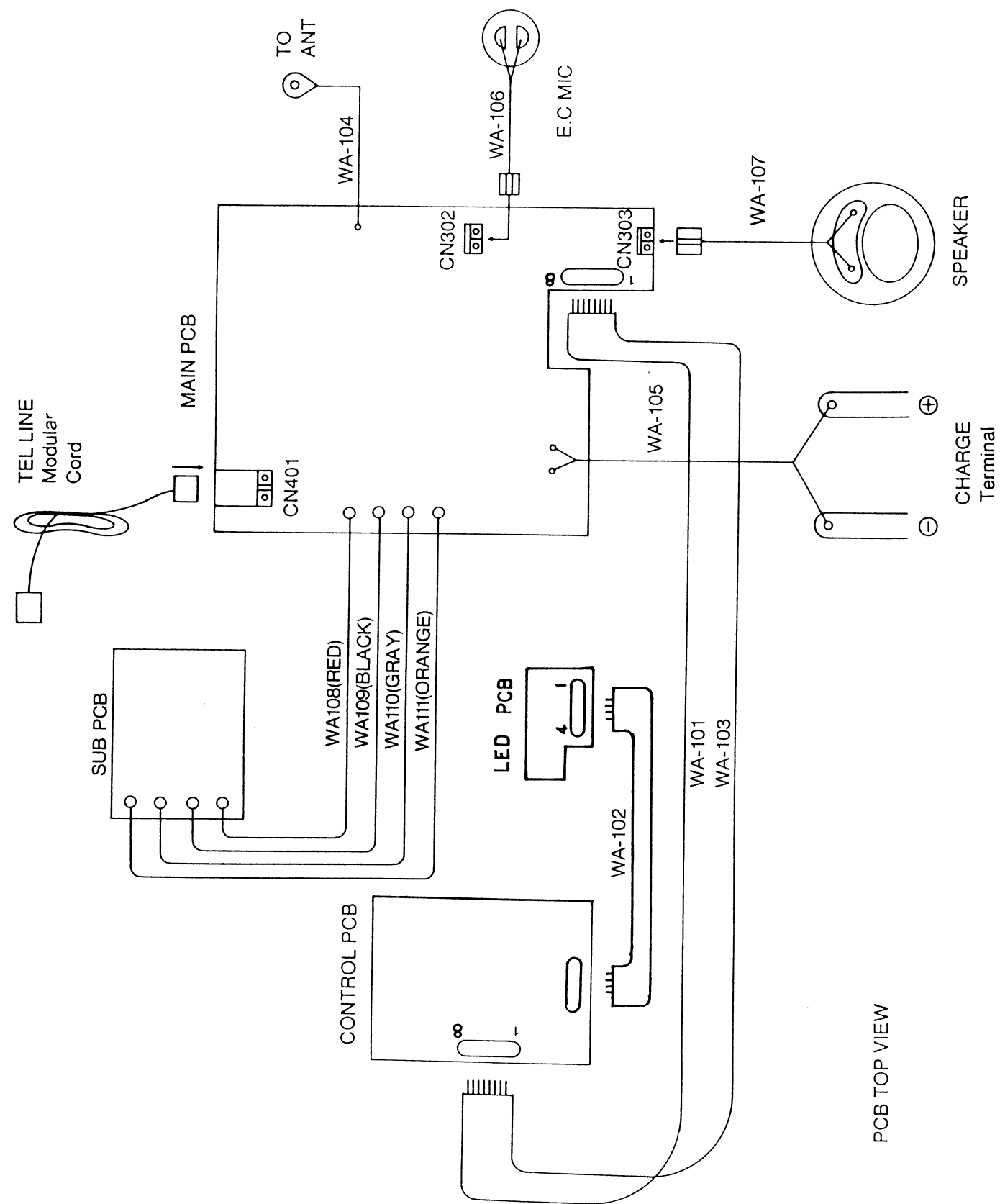




WIRING DIAGRAM
REMOTE

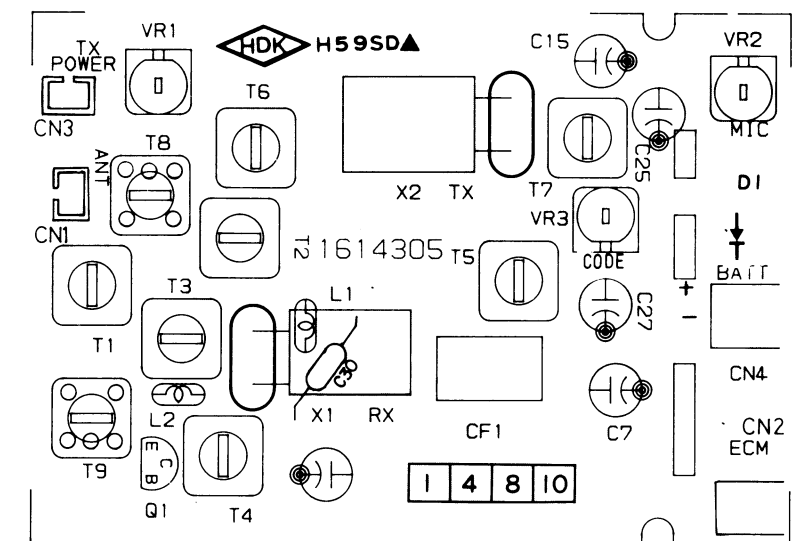


BASE

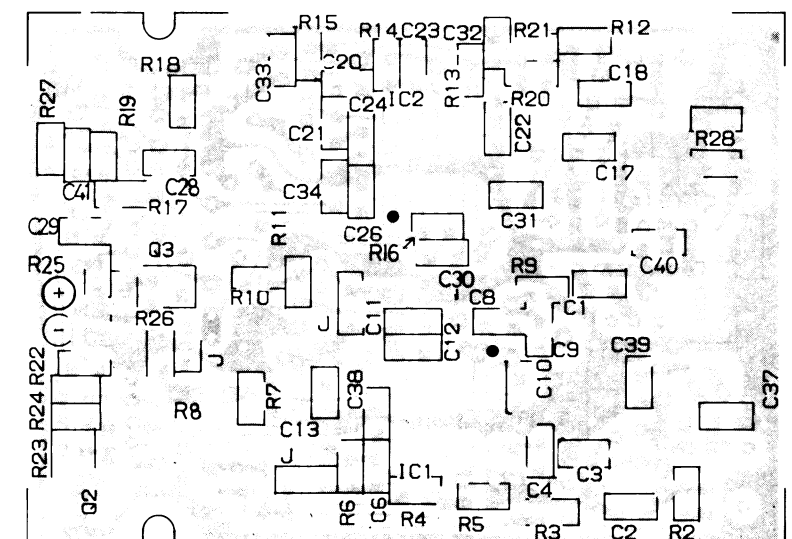


PCB
REMOTE MAIN

TOP VIEW

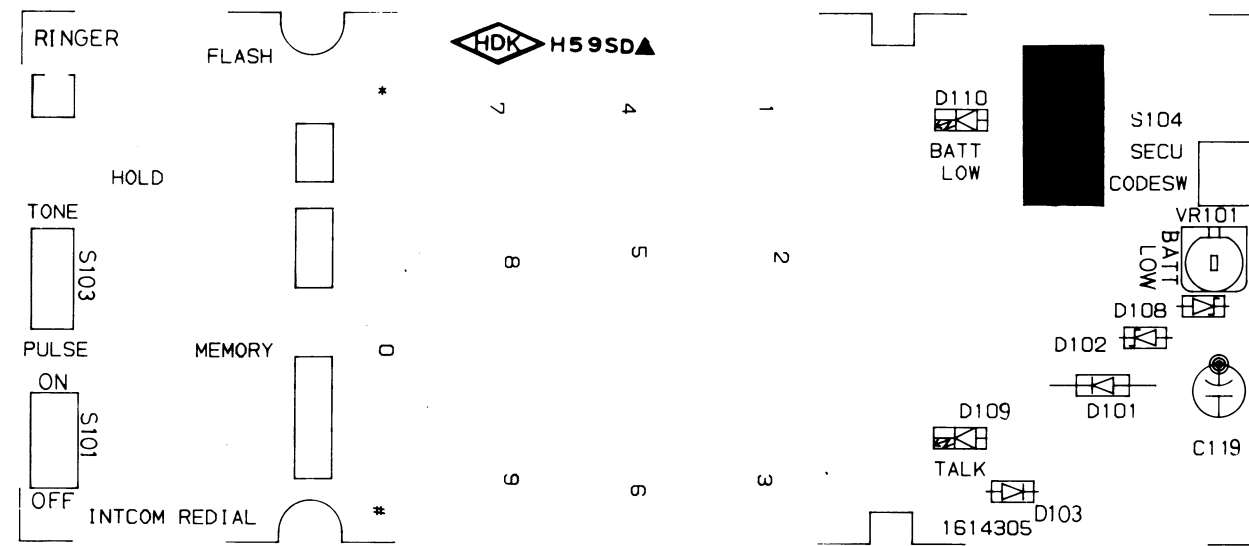


BOTTOM

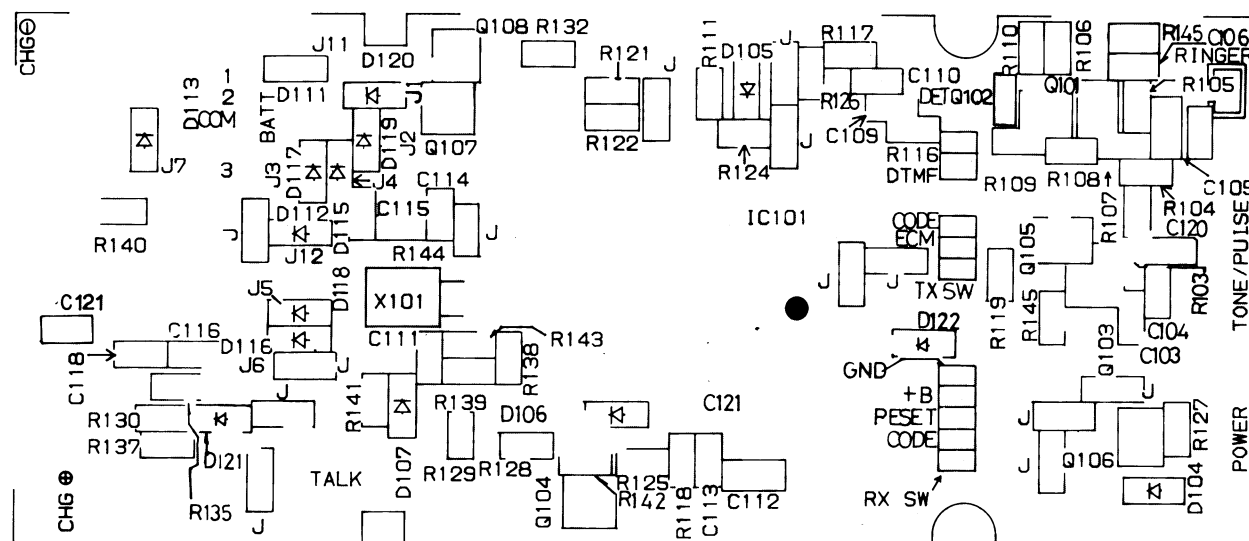


KEYBOARD

TOP VIEW

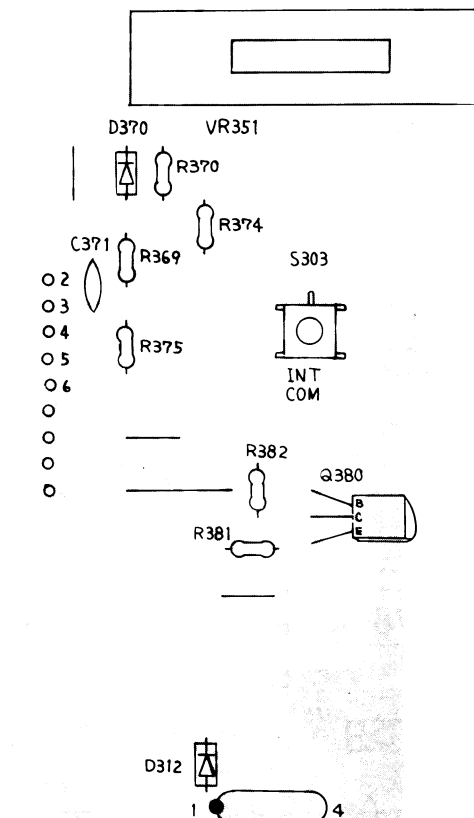


BOTTOM

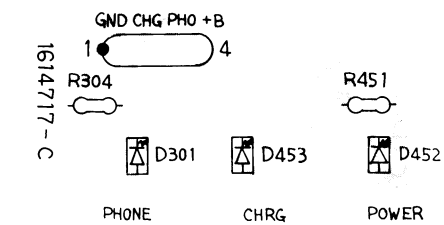


BASE

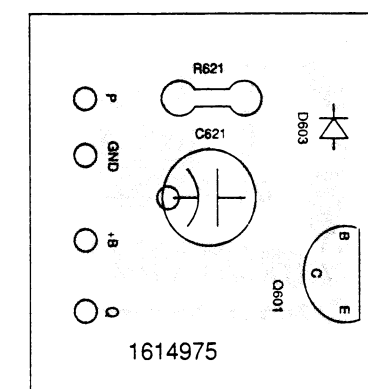
CONTROL

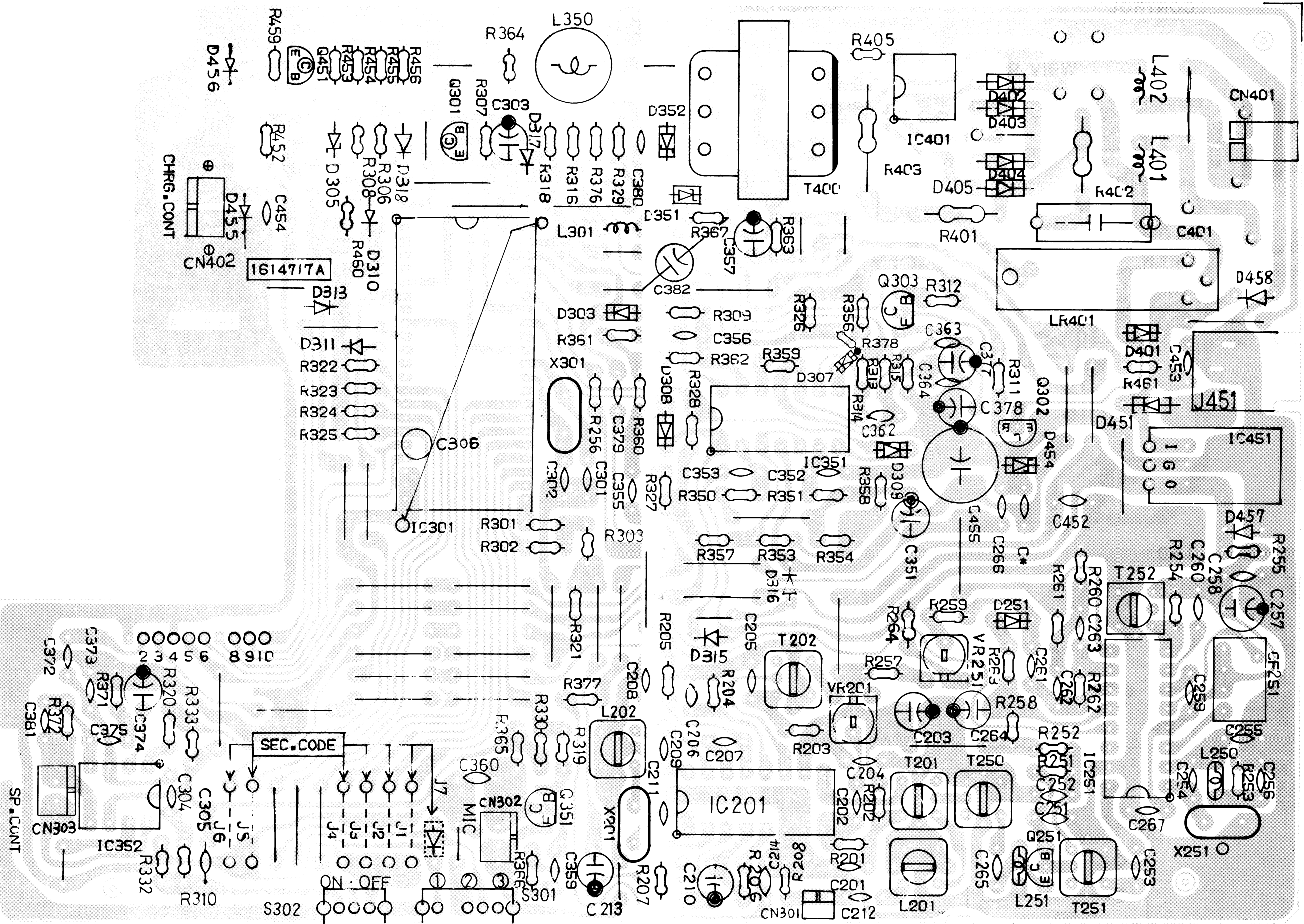


LED



SUB





ELECTRICAL PARTS LIST (REMOTE)

Symbol. No.	Description	Part No.	Q'ty	Symbol. No.	Description	Part No.	Q'ty
CF-1	PCB	1614305	1	Q-102	TRANSISTOR	2SC2412KT96BR	1
	CERAMIC FILTER	1810480 or	1	Q-103	TRANSISTOR	2SC2412KT96BR	1
		1810410	1	Q-104	TRANSISTOR	2SA1037KT96FR	1
CN-102	BASE POST. BATTERY	1700236	1	Q-105	TRANSISTOR	2SA1037KT96FR	1
CN-101	BASE POST. RINGER WIRE	1760764	1	Q-106	TRANSISTOR	2SC2412KT96BQ	1
CN-1	BASE POST. ANT. WIRE	1760764	1	Q-107	TRANSISTOR	2SC2412KT96BQ	1
CN-3	BASE POST. SP.GND. WIRE	1760764	1	Q-108	TRANSISTOR	2SC2412KT96BQ	1
L-1	AXIAL INDUCTOR. 0.68μH	216568AT	1				1
L-2	AXIAL INDUCTOR. 0.22μH	216522AT	1	R2	CHIP FIXED RES.(1/10W.J)100KΩ	134F104C	1
LD-101	RIBBON WIRE. 2P	5750227	1	R3	CHIP FIXED RES.(1/10W.J)470Ω	134F471C	1
LD-102	RIBBON WIRE. 3P	5750228	1	R4	CHIP FIXED RES.(1/10W.J)47KΩ	134F473C	1
LD-103	RIBBON WIRE. 5P	5750229	1	R5	CHIP FIXED RES.(1/10W.J)18KΩ	134F183C	1
S-101	SLIDE SWITCH	1621772	1	R6	CHIP FIXED RES.(1/10W.J)390KΩ	134F394C	1
S-103	SLIDE SWITCH	1621772	1	R7	CHIP FIXED RES.(1/10W.J)33KΩ	134F333C	1
S-104	SLIDE SWITCH	1621694	1	R8	CHIP FIXED RES.(1/10W.J)180KΩ	134F184C	1
T-1	CASING COIL	113D850	1	R9	CHIP FIXED RES.(1/10W.J)1.8KΩ	134F182C	1
T-2	CASING COIL	113D764	1	R10	CHIP FIXED RES.(1/10W.J)100Ω	134F101C	1
T-3	CASING COIL	113D765	1	R11	CHIP FIXED RES.(1/10W.J)33KΩ	134F333C	1
X-2	X'TAL RX.16.55666MHz.CH1	1811315	1/3	R12	CHIP FIXED RES.(1/10W.J)33KΩ	134F333C	1
X-1	X'TAL RX.46.155MHz.CH1	1811294	1/3	R13	CHIP FIXED RES.(1/10W.J)220Ω	134F221C	1
X-2	X'TAL RX.16.64333MHz.CH8	1811322	1/3	R14	CHIP FIXED RES.(1/10W.J)10Ω	134F100C	1
X-1	X'TAL RX.46.415MHz.CH8	1811301	1/3	R15	CHIP FIXED RES.(1/10W.J)150KΩ	134F154C	1
X-2	X'TAL RX.16.65666MHz.CH10	1811324	1/3	R16	CHIP FIXED RES.(1/10W.J)270KΩ	134F274C	1
X-1	X'TAL RX.46.515MHz.CH10	1811303	1/3	R17	CHIP FIXED RES.(1/10W.J)4.7KΩ	134F472C	1
T-4	CASING COIL	113D766 or	1	R18	CHIP FIXED RES.(1/10W.J)6.8KΩ	134F682C	1
		1130766		R19	CHIP FIXED RES.(1/10W.J)150KΩ	134F154C	1
T-5	CASING COIL	113D767 or	1	R20	CHIP FIXED RES.(1/10W.J)330Ω	134F331C	1
		1130767		R21	CHIP FIXED RES.(1/10W.J)10Ω	134F100C	1
T-6	CASING COIL	113D768 or	1	R22	CHIP FIXED RES.(1/10W.J)3.3KΩ	134F332C	1
		1130768		R23	CHIP FIXED RES.(1/10W.J)47KΩ	134F473C	1
T-7	CASING COIL	113D769 or	1	R24	CHIP FIXED RES.(1/10W.J)47KΩ	134F473C	1
		1130769		R26	CHIP FIXED RES.(1/10W.J)100KΩ	134F104C	1
T-8	CASING COIL	113D809 or	1	R27	CHIP FIXED RES.(1/10W.J)39KΩ	134F393C	1
		1130809		R28	CHIP FIXED RES.(1/10W.J)100KΩ	134F104C	1
T-9	CASING COIL	113D809 or	1	R103	CHIP FIXED RES.(1/10W.J)10KΩ	134F103C	1
		1130809		R104	CHIP FIXED RES.(1/10W.J)22KΩ	134F223C	1
VR-2	SEMI-FIXED RESISTOR.10KΩ	138J936	1	R105	CHIP FIXED RES.(1/10W.J)150KΩ	134F154C	1
VR-3	SEMI-FIXED RESISTOR.500KΩ	138J943	1	R106	CHIP FIXED RES.(1/10W.J)1.5KΩ	134F152C	1
X-101	CERAMIC RESISTOR	1812760	1	R107	CHIP FIXED RES.(1/10W.J)22KΩ	134F223C	1
WA-201	WIRE ASSY RINGER	G5310-06	1	R108	CHIP FIXED RES.(1/10W.J)820Ω	134F821C	1
WA-202	WIRE ASSY ANT.	G5350-07	1	R109	CHIP FIXED RES.(1/10W.J)1.5KΩ	134F152C	1
WA-203	WIRE ASSY SP.ECM	G5310-09	1	R110	CHIP FIXED RES.(1/10W.J)120Ω	134F121C	1
BATT101	NI-CD BATT.	3V280R2	1	R111	CHIP FIXED RES.(1/10W.J)27KΩ	134F273C	1
ECM-1	ECM	1530136	1	R116	CHIP FIXED RES.(1/10W.J)150KΩ	134F154C	1
SP-101	SPEAKER	1520598	1	R117	CHIP FIXED RES.(1/10W.J)560KΩ	134F564C	1
SP-102	RINGER SPEAKER	1520576	1	R118	CHIP FIXED RES.(1/10W.J)33Ω	134F330C	1
			1	R119	CHIP FIXED RES.(1/10W.J)10KΩ	134F103C	1
IC-1	IC. RX	MC3361D	1	R121	CHIP FIXED RES.(1/10W.J)47KΩ	134F473C	1
IC-2	IC. TX	14L0357	1	R122	CHIP FIXED RES.(1/10W.J)39KΩ	134F393C	1
IC-101	IC. CPU	14DW562	1	R124	CHIP FIXED RES.(1/10W.J)27KΩ	134F273C	1
D-1	DIODE	ISS176TPA7 or	1	R125	CHIP FIXED RES.(1/10W.J)27KΩ	134F273C	1
		ISS133T77	1	R126	CHIP FIXED RES.(1/10W.J)47KΩ	134F473C	1
D-101	DIODE	IN4002	1	R127	CHIP FIXED RES.(1/10W.J)330KΩ	134F334C	1
D-102	DIODE	RD5.6E-B or	1	R128	CHIP FIXED RES.(1/10W.J)1.2KΩ	134F122C	1
		MTZ5.6-AorB	1	R129	CHIP FIXED RES.(1/10W.J)1.2KΩ	134F122C	1
D-103	DIODE	ISS176 or	1	R130	CHIP FIXED RES.(1/10W.J)3.9KΩ	134F392C	1
		ISS133	1	R132	CHIP FIXED RES.(1/10W.J)4.7KΩ	134F472C	1
D-104	MELF DIODE	RLS-73-TE-12	1	R135	CHIP FIXED RES.(1/10W.J)100KΩ	134F104C	1
D-105	MELF DIODE	RLS-73-TE-12	1	R137	CHIP FIXED RES.(1/10W.J)27KΩ	134F273C	1
D-106	MELF DIODE	RLS-73-TE-12	1	R138	CHIP FIXED RES.(1/10W.J)33KΩ	134F333C	1
D-107	MELF DIODE	RLS-73-TE-12	1	R139	CHIP FIXED RES.(1/10W.J)10KΩ	134F103C	1
D-108	DIODE	RD3.3E-B or	1	R140	CHIP FIXED RES.(1/10W.J)100KΩ	134F104C	1
		MTZ3.3-AorB	1	R141	CHIP FIXED RES.(1/10W.J)330KΩ	134F334C	1
D-109	DIODE	LN28RPE	1	R142	CHIP FIXED RES.(1/10W.J)6.8KΩ	134F682C	1
D-110	DIODE	LN28RPE	1	R143	CHIP FIXED RES.(1/10W.J)82KΩ	134F823C	1
D-121	MELF DIODE	RLS-73-TE-12	1	R144	CHIP FIXED RES.(1/10W.J)1MΩ	134F105C	1
D-122	MELF DIODE	RLS-73-TE-12	1	R145	CHIP FIXED RES.(1/10W.J)33KΩ	134F330C	1
Q-1	TRANSISTOR	2SC1674L	1				1
Q-2	TRANSISTOR	2S A1 037KT9 6FR	1	JW	CHIP FIXED RES.(1/10W.J)0Ω	134F000C	1
Q-3	TRANSISTOR	2S A1 037KT9 6FR	1	JW	CHIP FIXED RES.(1/10W.J)0Ω	134H100C	1
Q-101	TRANSISTOR	2SC2412KT96BR	1				15

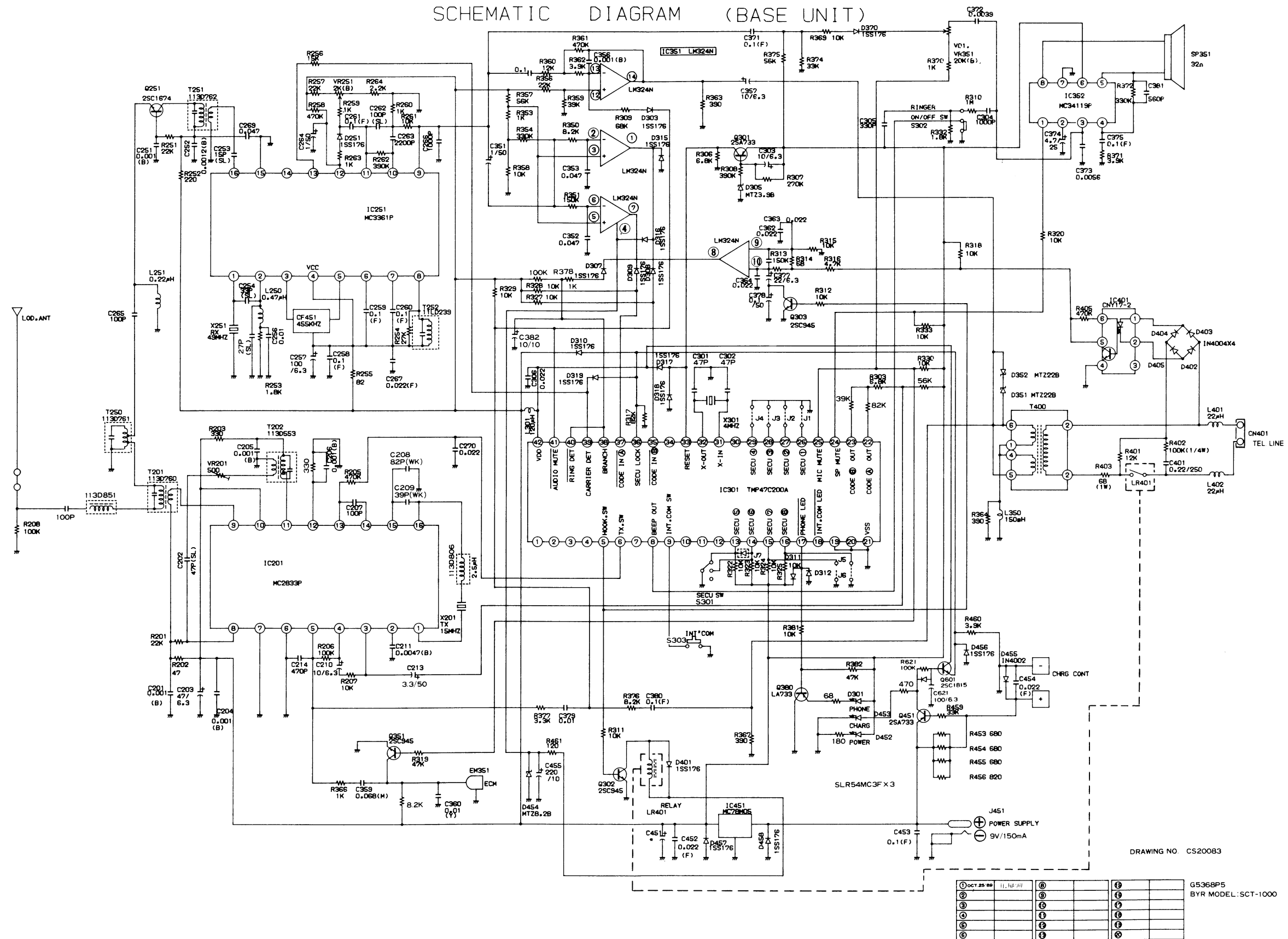
Symbol. No.	Description	Part No.	Q'ty	Symbol. No.	Description	Part No.	Q'ty
C1	CHIP CAP.SL330p/50V(J)	1270331C	1				
C2	CHIP CAP.6800p/25V(K)	12B2682C	1				
C3	CHIP CAP.0.022/25V(K)	12B2223C	1				
C4	CHIP CAP.CH 2pF/50V(D)	12CH209C	1				
C5	ELEC CAP.0.22uF/50V	526W224K	1				
C6	CHIP CAP.1500pF/25V(K)	12B2152C	1				
C7	ELEC CAP.47uF/6.3V	526R476	1				
C8	CHIP CAP.CH 33p/50V(J)	12CH330C	1				
C9	CHIP CAP.0.01/25V(K)	12B2103C	1				
C10	CHIP CAP.CH 27p/50V(J)	12CH270C	1				
C11	CHIP CAP. 0.033/25V(K)	12B2333C	1				
C12	CHIP CAP. 0.033/25V(K)	12B2223C	1				
C13	CHIP CAP. 0.033/25V(K)	12B2333C	1				
C14	ELEC CAP. 22uF/6.3V	526R226	1				
C15	ELEC CAP.47uF/6.3V	526R476	1				
C17	CHIP CAP. 0.022/25V(K)	12B2223C	1				
C18	CHIP CAP.SL 47p/50V(J)	1270470C	1				
C20	CHIP CAP.CH 22p/50V(J)	12CH220C	1				
C21	CHIP CAP.CH 39p/50V(J)	12CH390C	1				
C22	CHIP CAP. 0.01/25V(K)	12B2103C	1				
C23	CHIP CAP. 1000p/25V(K)	12B2102C	1				
C24	CHIP CAP.CH 39p/50V(J)	12CH390C	1				
C25	ELEC CAP.4.7uF/35V	526V475K	1				
C26	CHIP CAP. 4700p/25V(K)	12B2472C	1				
C27	ELEC CAP. 1uF/50V	526W105C	1				
C28	CHIP CAP. 470p/25V(J)	1270471C	1				
C29	CHIP CAP. 0.01/25V(K)	12B2103C	1				
C30	AXIAL CAP. 0.022uF/25V	3F45223	1				
C31	CHIP CAP. 0.022/25V(K)	12B2223C	1				
C32	CHIP CAP.SL 100pF/50V(J)	1270101C	1				
C33	CHIP CAP. 0.022/25V(K)	12B2223C	1				
C34	CHIP CAP.SL 220p/50V(J)	1270221C	1				
C37	CHIP CAP.SL 47p/50V(J)	1270470C	1				
C38	CHIP CAP. 0.01/25V(K)	12B2103C	1				
C39	CHIP CAP.CH 33p/50V(J)	12CH330C	1				
C103	CHIP CAP. 0.01/25V(K)	12B2103C	1				
C104	CHIP CAP. 0.1/25V(Z)	12F2104C	1				
C105	CHIP CAP. 0.1/25V(Z)	72F2104C	1				
C106	CHIP CAP. 0.01/25V(K)	12B2103C	11				
C109	CHIP CAP. 0.01/25V(K)	12B2103C	1				
C110	CHIP CAP. 180pF/50V(J)	1270181C	1				
C111	CHIP CAP. 0.039/25V(M)	12B2393C	1				
C112	CHIP CAP. 1/16V(Z)	72F6105C	1				
C113	CHIP CAP. 0.022/25V(K)	12B2223C	1				
C114	CHIP CAP.CH 100p/50V(J)	12CH101C	1				
C115	CHIP CAP.CH 100/50V(J)	12CH101C	1				
C116	CHIP CAP. 0.022/25V(K)	12B2223C	1				
C118	CHIP CAP. 0.022/25V(K)	12B2223C	1				
C119	ELEC CAP. 10uF/6.3V	526R106	1				
C121	CHIP CAP. 0.1/25V(Z)	12F2104C	1				
C122	ELEC CAP. 1/16V(Z)	72F6105C	1				

ELECTRICAL PARTS LIST (BASE)

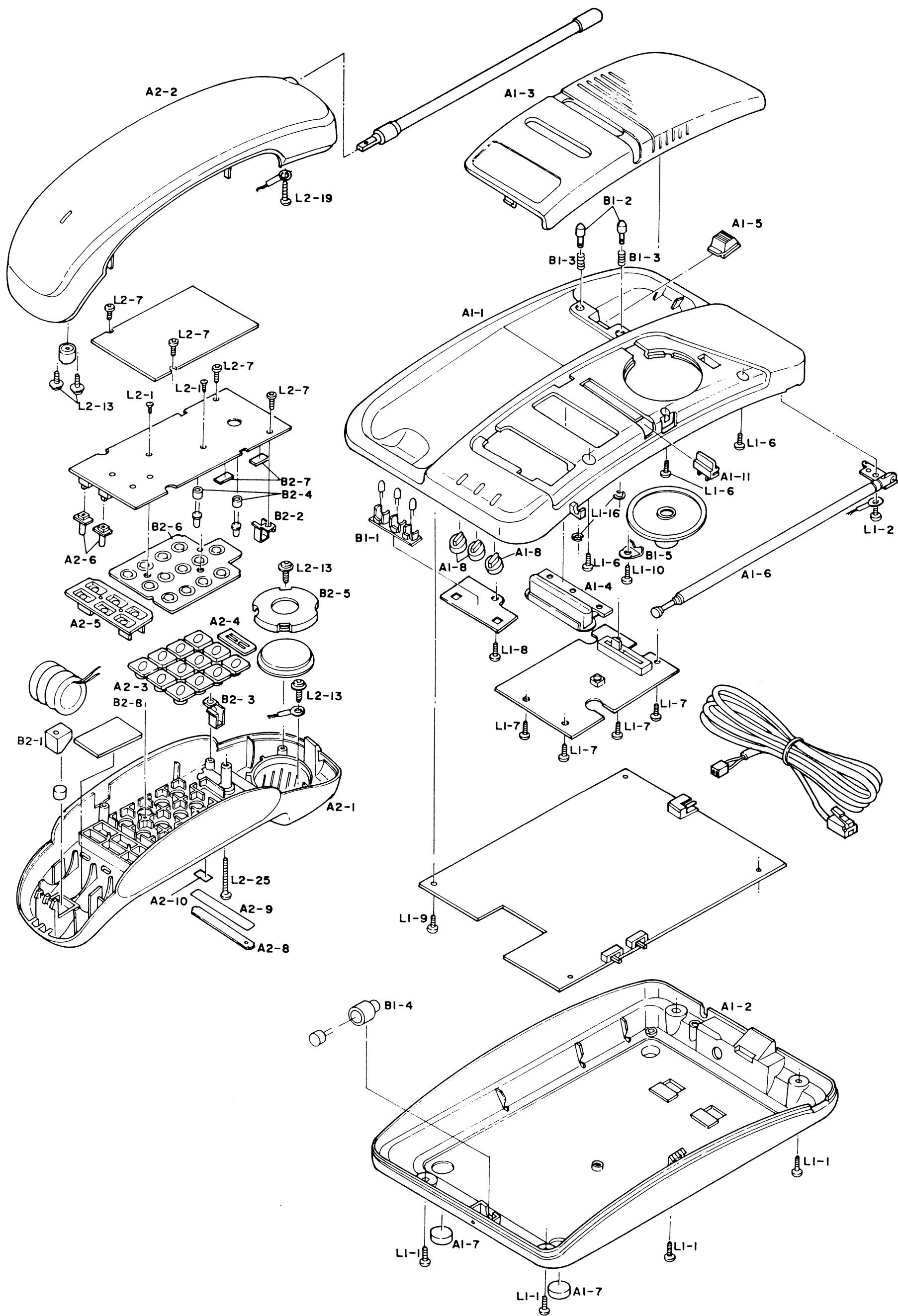
Symbol. No.	Description	Part No.	Q'ty	Symbol. No.	Description	Part No.	Q'ty
CF-251	CERAMIC FILTER. 455KHz	1810480	1	D452	LED	SLR54MC3F	1
J-451	DC JACK	1710086	1	D453	LED	SLR54MC3F	1
J-452	CONNECTOR. IL-G (BASE POST 2P)	1740440	1	D454	DIODE(ZENNER)	MTZ82	1
L-201	CASING COIL. LOADING	1130851	1	D455	DIODE	IN4002	1
				D456	DIODE	ISS133 or	1
L-202	CASING COIL. TX-OSC	1130851	1			ISS176	
L-301	AXIAL INDUCTOR 120uH	2152121	1	D457	DIODE	ISS133 or	1
L-250	AXIAL INDUCTOR. 0.47uH	216547AT	1			ISS176	
L-251	AXIAL INDUCTOR. 0.22uH	216522AT	1	D458	DIODE	ISS133 or	1
L-350	POT TYPE INDUCTOR. 150mH	1170589 or	1			ISS176	
		117D589		D608	DIODE	ISS133 or	1
L-401	INDUCTOR. 22uH	117D417	1			ISS176	
L-402	INDUCTOR. 22uH	117D417	1		JUMPER #0.6(X251) 70mm		1
LR-401	LEAD RELAY.	1680061	1	IC201	IC	MC2833P	1
MD-401	MOD CORD.7FT 6-2 (BLACK)	1760749	1	IC251	IC	MC3361P	1
S-301	SLIDE S.W.(SLIDE TYPE)	1621694	1	IC301	IC CPU	14DW520	1
S-302	SLIDE S.W.	1621745	1	IC351	IC	LM324N	1
S-303	TACT S.W.	5622171	1	IC352	IC	MC34119P	1
T-202	CASING COIL. TRIPLER	113D553	1	IC401	IC	CNY17-2	1
T-250	CASING COIL RX-TRAP	113D761	1	IC451	IC	MC78M05	1
T-251	CASING COIL RX-AMP	113D762	1	Q251	TRANSISTOR	2SC1674	1
T-252	CASING COIL RX-DET	111D239	1	Q301	TRANSISTOR	KSA733C or	1
T-400	AUDIO TRANS	115M716	1			LA733-Q	
	PCB	1614717	1	Q302	TRANSISTOR	KSC945C-GR or	1
T-201	CASING COIL	113D760	1			LC945-P or Q	
CN-401	BASE POST. IL-G 2P.(TEL LINE)	170M980	1	Q303	TRANSISTOR	KSC945C-GR or	1
VR-251	SEMI-FIX RES.2K(B)	138J933	1			LC945-P or Q	
VR-351	SLIDE VOL.20k(B)	5390795	1	Q351	TRANSISTOR	KSC945C-GR or	1
X-201	XTAL TX 1CH. 15.536MHz	1811063	1/3			LC945-P or Q	
X-201	XTAL TX 8CH. 15.623MHz	1811070	1/3	Q380	TRANSISTOR	KSA733C-Y or	1
X-201	XTAL TX 10CH. 15.656Mhz	1811072	1/3			LA733-Q	
X-251	XTAL RX 1CH. 49.215MHz	1811325	1/3	Q451	TRANSISTOR	KSA733C-Y or	1
X-251	XTAL RX 8CH. 49.475MHz	1811332	1/3			LA733-Q	
X-251	XTAL RX 10CH. 49.515MHz	1811334	1/3	Q601	TRANSISTOR	LC945RLRP or	1
X-301	CERAMIC RESONATOR.4.0MHz	1813433	1			2SC1815TPE2	
CN-302	BASE POST.IL-G 2P. MIC	1740454	1				
CN-303	BASE POST.IL-G 2P. SP	1740454	1	R201	CARBON RES.1/6W 22KΩ(J)	132A223	1
	AC-DC ADAPTOR 12V 50mA	1813466	1	R202	CARBON RES.1/6W 47Ω(J)	132A470	1
EM-351	ECM	1530136	1	R203	CARBON RES.1/6W 330Ω(J)	132A331	1
SP-351	SPEAKER	1520603	1	R204	CARBON RES.1/6W 330Ω(J)	132A331	1
WA-108	READ WIRE.(RED)	21A607F3	1	R205	CARBON RES.1/6W 470KΩ(J)	132A474	1
WA-109	READ WIRE.(BLACK)	01A607F3	1	R206	CARBON RES.1/6W 100KΩ(J)	132A104	1
WA-110	READ WIRE.(GRAY)	81A606FF	1	R207	CARBON RES.1/6W 10KΩ(J)	132A103	1
WA-111	READ WIRE.(ORANGE)	31A606FF	1	R208	CARBON RES.1/6W 100KΩ(J)	132A104	1
WA-101	RIBBON WIRE.3P	93F613AA	1	R210	CARBON RES.1/6W 2.2KΩ(J)	132A222	1
WA-102	RIBBON WIRE.4P	94F610AA	1	R251	CARBON RES.1/6W 22KΩ(J)	132A223	1
WA-103	RIBBON WIRE.5P	95F613FF	1	R252	CARBON RES.1/6W 220Ω(J)	132A221	1
WA-105	RIBBON WIRE.2P CHG	92F420AF	1	R253	CARBON RES.1/6W 1.8KΩ(J)	132A182	1
WA-104	WIRE ASSY. 1P ANT	G5310-01	1	R254	CARBON RES.1/6W 27KΩ(J)	132A273	1
WA-106	WIRE ASSY.2P (MIC)	G5320-04	1	R255	CARBON RES.1/6W 82Ω(J)	132A820	1
WA-107	WIRE ASSY SP	G5320-05	1	R256	CARBON RES.1/6W 15KΩ(J)	132A153	1
	UL TUBE #1.0(BLACK) 15mm		1	R257	CARBON RES.1/6W 22KΩ(J)	132A223	1
D251	DIODE	ISS133-T77 or	1	R258	CARBON RES.1/6W 470KΩ(J)	132A474	1
		ISS176-TPA7		R259	CARBON RES.1/6W 1KΩ(J)	132A102	1
D301	LED	SLR54MC3F	1	R260	CARBON RES.1/6W 1KΩ(J)	132A102	1
D303	DIODE	ISS133-T77 or	1	R261	CARBON RES.1/6W 10KΩ(J)	132A103	1
		ISS176-TPA7		R262	CARBON RES.1/6W 390KΩ(J)	132A394	1
D305	DIODE(ZENNER)	MTZ3.9B T77-B	1	R263	CARBON RES.1/6W 1KΩ(J)	132A102	1
D307,308	DIODE	ISS133or	10	R264	CARBON RES.1/6W 2.2KΩ(J)	132A222	1
309,310,311		ISS176		R301	CARBON RES.1/6W 82KΩ(J)	132A823	1
312,315,316				R302	CARBON RES.1/6W 39KΩ(J)	132A393	1
317,318				R303	CARBON RES.1/6W 6.8KΩ(J)	132A682	1
D351	DIODE (ZENNER)	MTZ22 T77-B	1	R304	CARBON RES.1/6W 68Ω(J)	132A680	1
D352	DIODE (ZENNER)	MTZ22 T77-B	1	R306	CARBON RES.1/6W 6.8KΩ(J)	132A682	1
D370	ZENNER DIODE	ISS133 or	1	R307	CARBON RES.1/6W 270KΩ(J)	132A274	1
		ISS176		R308	CARBON RES.1/6W 390KΩ(J)	132A394	1
D401	DIODE	IN4004	1	R309	CARBON RES.1/6W 68KΩ(J)	132A683	1
D402	DIODE	IN4004	1	R310	CARBON RES.1/6W 1MΩ(J)	132A105	1
D403	DIODE	IN4004	1	R311	CARBON RES.1/6W 10KΩ(J)	132A103	1
D404	DIODE	IN4004	1	R312,315	CARBON RES.1/6W 10KΩ(J)	132A103	2
D451	DIODE	IN4004	1	R313	CARBON RES.1/6W 150KΩ(J)	132A154	1

Symbol. No.	Description	Part No.	Q'ty	Symbol. No.	Description	Part No.	Q'ty
R314	CARBON RES.1/6W 68KΩ(J)	132A680	1	C254	AXIAL CAPACITOR 33pF SL (J)	3S41330	1
R316	CARBON RES.1/6W 4.7KΩ(J)	132A472	1	C255	AXIAL CAPACITOR 27pF SL (J)	3S41270	1
R317	CARBON RES.1/6W 82KΩ(J)	132A823	1	C256	AXIAL CAPACITOR 0.01μF Y(M)	3Y43103	1
R318	CARBON RES.1/6W 10KΩ(J)	132A103	1	C257	ELECTROLYTIC CAP. 100μF/6.3V(M)	126A107S	1
R319	CARBON RES.1/6W 47KΩ(J)	132A473	1	C258	AXIAL CAPACITOR 0.1μF (Z)	3F43104	1
R320	CARBON RES.1/6W 10KΩ(J)	132A103	1	C259	AXIAL CAPACITOR 0.1μF (Z)	3F43104	1
R321	CARBON RES.1/6W 56KΩ(J)	132A563	1	C260	AXIAL CAPACITOR 0.1μF (Z)	3F43104	1
R322	CARBON RES.1/6W 10KΩ(J)	132A103	1	C261	AXIAL CAPACITOR 0.1μF (Z)	3F43104	1
R323	CARBON RES.1/6W 10KΩ(J)	132A103	1	C262	AXIAL CAPACITOR 100pF SL (J)	3S41101	1
R324	CARBON RES.1/6W 10KΩ(J)	132A103	1	C263	CERAMIC CAP. YB 0.0022μF 50V	12B3222S	1
R325	CARBON RES.1/6W 10KΩ(J)	132A103	1	C264	ELECTROLYTIC CAP. 2.2μF/50V(M)	526W225	1
R326	CARBON RES.1/6W 100KΩ(J)	132A104	1	C265	AXIAL CAPACITOR 100pF B (K)	3B42101	1
R327	CARBON RES.1/6W 10KΩ(J)	132A103	1	C266	AXIAL CAPACITOR 1000pF B (K)	3B42102	1
R328	CARBON RES.1/6W 10KΩ(J)	132A103	1	C267	AXIAL CAPACITOR 0.022μF F (Z)	3F45223	1
R329	CARBON RES.1/6W 10KΩ(J)	132A103	1	C269	SEMI-CON CAP. 0.047μF/25V (M)	12X2473	1
R330	CARBON RES.1/6W 10KΩ(J)	132A103	1	C270	AXIAL CAP.0.022μF F(Z)	3F45223	1
R332	CARBON RES.1/6W 1.8KΩ(J)	132A182	1	C301	AXIAL CAP.CH 47pF(J)	12CH470	1
R333	CARBON RES.1/6W 10KΩ(J)	132A103	1	C302	AXIAL CAP.CH 47pF(J)	12CH470	1
R350	CARBON RES.1/6W 8.2KΩ(J)	132A822	1	C303	ELEC.CAP. 10μF/6.3V (M)	126A106S	1
R351	CARBON RES.1/6W 150KΩ(J)	132A154	1	C304	AXIAL CAP. 1000pF B (K)	3B42102	1
R353	CARBON RES.1/6W 1KΩ(J)	132A102	1	C305	AXIAL CAP. 330pF B (K)	3B42331	1
R354	CARBON RES.1/6W 330KΩ(J)	132A334	1	C306	CERAMIC CAP. 0.022μF/25V (Z)	12G2223	1
R356	CARBON RES.1/6W 22KΩ(J)	132A223	1	C320	ELEC.CAP.10μF/6.3V(M)	126A106	1
R357	CARBON RES.1/6W 56KΩ(J)	132A563	1	C351	ELEC.CAP. 1μF/50V (M)	126F105S	1
R358	CARBON RES.1/6W 10KΩ(J)	132A103	1	C352	AXIAL CAP. 0.047pF F (Z)	3F43473	1
R359	CARBON RES.1/6W 39KΩ(J)	132A393	1	C353	AXIAL CAP. 0.047pF F (Z)	3F43473	1
R360	CARBON RES.1/6W 12KΩ(J)	132A123	1	C355	AXIAL CAP. 0.1μF F (Z)	3F43104	1
R361	CARBON RES.1/6W 470KΩ(J)	132A474	1	C356	AXIAL CAP.1000pF B (M)	3B43102	1
R362	CARBON RES.1/6W 3.9KΩ(J)	132A392	1	C357	ELEC.CAP. 10μF/6.3V (M)	126A106S	1
R363	CARBON RES.1/6W 390Ω(J)	132A391	1	C359	SEMI-COM CAP. 0.068μF/25V (K)	12Y2683S	1
R364	CARBON RES.1/6W 390Ω(J)	132A391	1	C360	AXIAL CAP. 0.01μF Y (M)	3Y4D103	1
R365	CARBON RES.1/6W 8.2KΩ(J)	132A822	1	C371	AXIAL CAP.0.1μF F (Z)	3F43104	1
R366	CARBON RES.1/6W 1KΩ	132A102	1	C372	AXIAL CAP.3900pF X (M)	3X4D392	1
R367	CARBON RES.1/6W 390KΩ(J)	132A391	1	C373	AXIAL CAP.5600pF X (M)	3X4D562	1
R369	CARBON RES.1/6W 10KΩ(J)	132A103	1	C374	EIE CAP. 4.7μF/25V (M)	126D475	1
R370	CARBON RES.1/6W 1KΩ(J)	132A102	1	C375	AXIAL CAP.0.1μF F (Z)	3F43104	1
R371	CARBON RES.1/6W 3.9KΩ(J)	132A392	1	C377	EIE CAP.22μF/50V (M)	526W225	1
R372	CARBON RES.1/6W 330KΩ	132A334	1	C378	SEMI-CON. CAP. 0.022μF/25V (M)	12Y2223	1
R374	CARBON RES.1/6W 33KΩ	132A333	1	C379	AXIAL CAP.0.01μF Y (M)	3Y4D103	1
R375	CARBON RES.1/6W 56KΩ(J)	132A563	1	C380	AXIAL CAP.0.1μF F (Z)	3F43104	1
R376	CARBON RES.1/6W 8.2KΩ(J)	132A822	1	C381	AXIAL CAP.560μF B (K)	3B42561	1
R377	CARBON RES.1/6W 3.3KΩ(J)	132A332	1	C382	ELEC.CAP.10μF/16V(M)	126B106	1
R381	CARBON RES.1/6W 1KΩ(J)	132A102	1	C401	METALIZED FILM CAP. 0.22μF/250V	1224419	1
R382	CARBON RES.1/6W 47KΩ(J)	132A473	1	C452,454	AXIAL CAP.0.022μF F (Z)	3F45223	2
R401	CARBON RES.1/6W 12KΩ(J)	132A123	1	C453	AXIAL CAP.0.1μF F (Z)	3F43104	1
R402	CARBON RES.1/6W 100KΩ	1346104	1	C455	EIE CAP. 220μF/10V (M)	126B227	1
R403	METAL OXIDE RES.1W 68Ω(J)	534A680	1	C621	ELEC.CAP.10μF/6.3V(M)	126A106	1
R405	CARBON RES.1/6W 1MΩ(J)	132A105	1				
R451	CARBON RES.1/6W 180Ω(J)	132A181	1				
R452	CARBON RES.1/6W 470Ω(J)	132A471	1				
R453	CARBON RES.1/6W 680Ω(J)	132A681	1				
R454	CARBON RES.1/6W 680Ω(J)	132A681	1				
R455	CARBON RES.1/6W 680Ω(J)	132A681	1				
R456	CARBON RES.1/6W 820Ω(J)	132A821	1				
R459	CARBON RES.1/6W 33KΩ(J)	132A333	1				
R460	CARBON RES.1/6W 22KΩ(J)	132A223	1				
R461	CARBON RES.1/6W 120Ω(J)	132A121	1				
R621	CARBON RES.1/6W 100KΩ(J)	132A104	1				
C201	AXIAL CAPACITOR 1000pF B (M)	3B42102	1				
C202	AXIAL CAPACITOR 47pF SL(J)	3S41470	1				
C203	ELECTROLYTIC CAP. 47μF/6.3V(M)	126A476S	1				
C204	AXIAL CAPACITOR 1000pF B(M)	3B43102	1				
C205	AXIAL CAPACITOR 1000pF B(M)	3B43102	1				
C206	AXIAL CAPACITOR 1000pF B(M)	3B 43102	1				
C207	CERAMIC CAPACITOR 100pF B(M)	3B42101	1				
C208	CERAMIC CAP.82pF WK (J)	12WK820	1				
C209	CERAMIC CAP.39pF SH (J)	12SH390	1				
C210	ELEC.CAP. 10μF/6.3V (M)	126A226	1				
C211	AXIAL CAPACITOR 4700pF B(M)	126A472	1				
C212	AXIAL CAP. 100pF B(K)	3B42101	1				
C213	ELECTROLYTIC CAP. 3.3μF/50V(M)	126F335	1				
C214	AXIAL CAPACITOR 470pF B(K)	3B42471	1				
C251	AXIAL CAPACITOR 1000pF B(K)	3B42102	1				
C252	AXIAL CAPACITOR 1000pF B (M)	3B43102	1				
C253	AXIAL CAPACITOR 15pF SL (J)	3S41150	1				

SCHEMATIC DIAGRAM (BASE UNIT)



EXPLODED VIEW REMOTE



MECHANICAL PARTS LIST

Symbol. No.	Description	Part No.	Q'ty	Symbol. No.	Description	Part No.	Q'ty
A1-1	BASE TOP CASE	21CT354	1				
A1-2	BASE BOTTOM CASE	21CT355	1				
A1-3	BASE TOP COVER	21FT032	1				
A1-4	INTERCOM BUTTON	21NT440	1				
A1-5	HAND SET HOOK	21WT244	1				
A1-6	(B) ROD. ANT	27AT030	1				
A1-7	CASE FOOT	21WT150	2				
A1-8	LED WINDOW (A)	21DT014	3				
A1-11	VOLUME KNOB	21NT383	1				
A2-1	HAND FRONT CASE	21CT356	1				
A2-2	HAND REAR CASE	21CT357	1				
A2-3	DIAL KEY(SET PARTS 12PCS.)	21NT442	1				
A2-4	TALK KNOB	21NT443	1				
A2-5	FUNCTION RUBBER	21WT245	1				
A2-6	SLIDE KNOB	21NT444	2				
A2-7	(H) ANTENNA	27AT029	1				
A2-8	NO.LAVEL WINDOW	24DT030	1				
A2-9	NO.LAVEL	24LT281	1				
A2-10	DATE CODE LAVEL	24L3352	1				
A2-11	HAND SET TAG	24LT341	1				
B1-1	LED HOLDER (A)	21WT214	1				
B1-2	CHG TERMINAL	25BO002	2				
B1-3	CHG TERMINAL SPRING	26WO322	2				
B1-4	MIC HOLDER (CT720 ONLY)	21WT033	1				
B1-5	SPEAKER MOUNTING PIECE	23WT174	1				
B2-1	HAND MIC HOLDER ASS'Y	21WT213	1				
B2-2	HAND CHG TERMINAL (L)	23WT177	1				
B2-3	HAND CHG TERMINAL (R)	23WT176	1				
B2-4	(H) LED HOLDER	21WT184	2				
B2-5	SP CUSHION	21WT193	1				
B2-6	KEY RUBBER	21WT208	1				
B2-7	PCB SPACER	24WT164	2				
B2-8	BATTERY CUSHION	24WT151	1				
B2-9	MIC CUSHON	24W3729	1				
L1-1	M3x10 P.TITE SCREW	GCMP3100	4				
L1-2	M3x10 P.TITE SCREW	GCMP3100	1				
L1-6	M3x8 P.TITE SCREW	GLMP3080	3				
L1-7	M3x8 P.TITE SCREW	GLMP3080	4				
L1-8	M3x8 P.TITE SCREW	GLMP3080	1				
L1-9	M3x8 P.TITE SCREW	GLMP3080	1				
L1-10	M3x8 P.TITE SCREW	GLMP3080	1				
L1-16	#2 E RING	EEU0020	2				
L2-1	M2x6 TAPPING SCREW	DDM3206	2				
L2-7	M2.6x8 P.TITE SCREW	GBMP908	4				
L2-13	M3x8 P.TITE SCREW	GZMP308	4				
L2-19	M3x10 P.TITE SCREW	GZMP310	1				
L2-25	M3x20 P.TITE SCREW	GLMP320	1				
L3-1	M5x16 TAPPING SCREW	DBM1516	1				