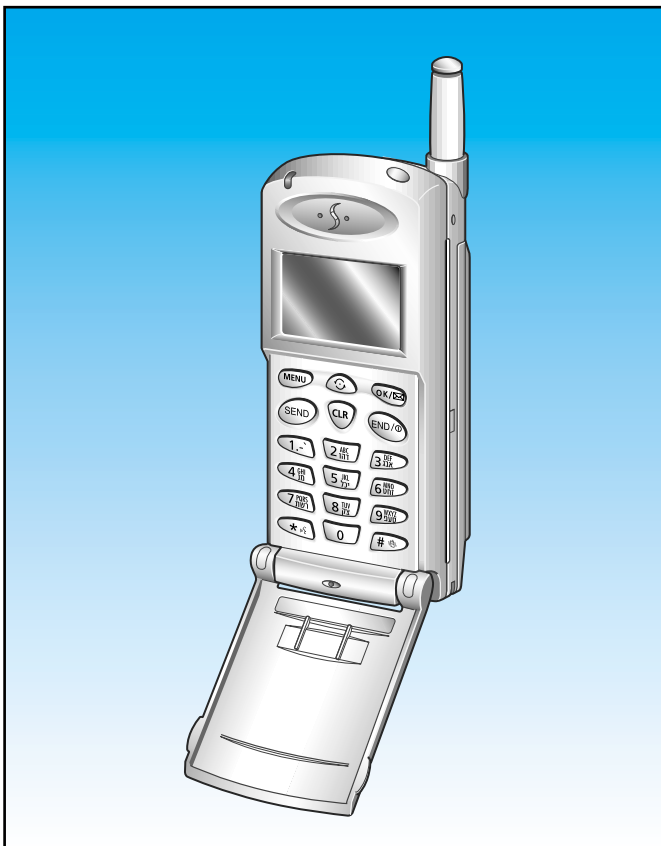


SAMSUNG

CDMA Cellular Phone SCH-611

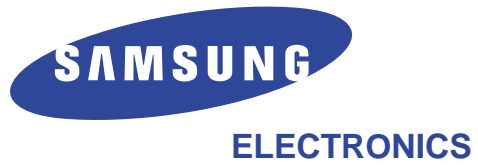
SERVICE *Manual*

CDMA Cellular Phone



CONTENTS

1. General Introduction
2. Specification
3. Installation
4. NAM Programming
5. Product Support Tools
6. Troubleshooting
7. Exploded view and its Part List
8. Electrical Parts List
9. Block diagram
10. PCB diagrams
11. Circuit diagrams



1. General Description

The SCH-611 cellular phone functions as digital cellular phone working in CDMA (Code Division Multiple Access) mode.

CDMA type digital mode applies DSSS (Direct Sequential Spread Spectrum) mode which first came to be used in the military. The DSSS reduces channel cross talk and allow to use one frequency channel by multiple users in the same specific area, resulting in increase of channel capacity to about ten times compared to that of analog mode currently used.

Soft/Softer Handoff, Hard Handoff, and Dynamic RF Power Control technologies are combined into this phone to reduce the call drop while usage.

CDMA digital cellular network consists of MSO (Mobile Switching Office), BSC (Base Station Controller), BTS(Base Station Transmission System), and MS (Mobile Station). MS meets the specifications of the below:

- IS-95A : Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System
- IS-96A : Speech Service Option 1 Standard for Dual-Mode Wideband Spread Spectrum Cellular Systems
- IS-98A : Standards for Dual-Mode Wideband Spread Spectrum Cellular Mobile Station
- IS-126 : Mobile Station Loopback Service Options Standard

2. Specification

2-1 General

Frequency Range	Digital Mode
Transmitter	: 824 ~ 849 MHz
Receiver	: 869 ~ 894 MHz
Channel Spacing	: 1.23 MHz
Number of Channels	: 20 FA
Duplex Spacing	: 45 MHz
Frequency Stability	: ± 2.5 ppm (-30°C ~ +60°C, -4°F ~ +140°F)
Operating Temperature	: -30°C ~ +60°C (-4°F ~ +140°F)
Operating Voltage	
HHP	: 3.6V DC ($\pm 10\%$)
Hands-free	: 13.7V DC ($\pm 10\%$)

Item	Size	Weight (g)
including slim battery	105 x 45 x 18	89
including standard battery	105 x 45 x 21	120
including extended battery	105 x 45 x 24	138

Operating Time Digital Mode

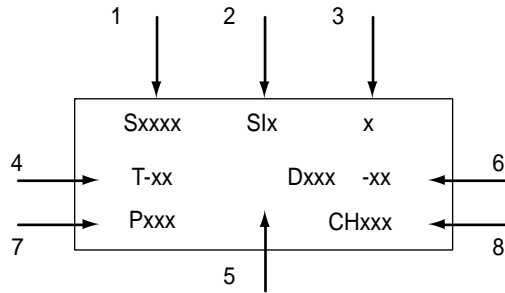
Item	Standby Time	Talk Time
slim battery	up to 40 hours	up to 80 hours
standard battery	up to 75 hours	up to 150 hours
extended battery	up to 120 hours	up to 240 hours

2-2 Digital Mode

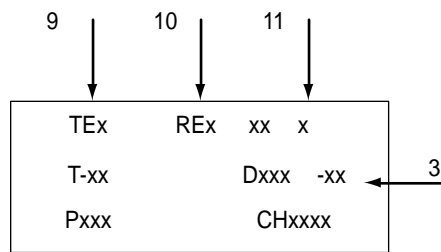
Waveform Quality	0.944 or more
Time Reference	±1uS or less
Rx Sensitivity and Dynamic Range	-104 dBm, FER=0.5 % or less -25 dBm, FER=0.5 % or less
Tx Output Power	280 mW (24.5 dBm)
Tx Frequency Deviation	±300 Hz or less
Occupied Band Width	1.32 MHz
Tx Conducted Spurious Emission	900 kHz : -42 dBc / 30 kHz below 1.98 MHz: -54 dBc / 30 kHz below
Minimum Tx Power Control	below -50 dBm
Open Loop Power Control	-25 dBm: -57.0 dBm ~ -38.5 dBm -65 dBm: -17.5 dBm ~ + 1.5 dBm -104 dBm: +18.0 dBm ~ +30.0 dBm
Standby Output Power	below -61 dBm
Closed Loop Tx Power Control Range	Test1: ±24 dB or less Test2: 0 mS ~ 2.5 mS Test3: ±24 dB or more Test4: ±24 dB or more Test5: ±24 dB or more

2-3 CDMA Debug Display Information (menu 8)

IN IDLE MODE



IN CONVERSATION MODE

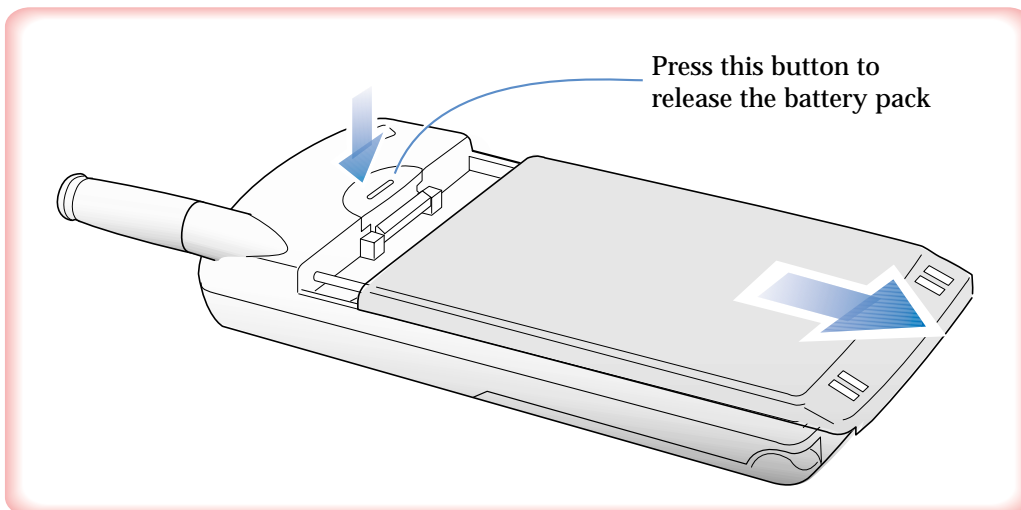
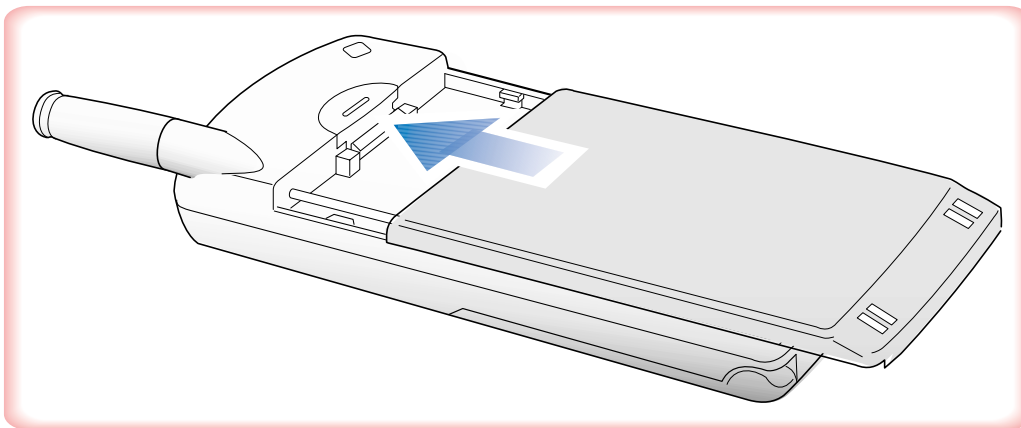


- 1 : Sxxxxx : SID (System Identification) toggle
Nxxxxx : NID (Network Identification) toggle
- 2 : Slx : Slot cycle index (lowest between the system and the phone will be used)
- 3 : Handset Status : 0 - Acquisition
 - 1 - Synchronization
 - 2 - Paging (Idle)
 - 3 - Traffic Initialization
 - 4 - Traffic Mode
 - 5 - Exit
- 4 : T-xx : Tx adjust, Value ranges from +63 ~ -63dB
- 5 : Dxxx : sector power in dBm
- 6 : -xx : Ec/Io
- 7 : Pxxx : PN offset
- 8 : CHxxxx : channel number
- 9 : TEx : Tx vocoder rate (8 is full rate, 1 is 1/8th rate)
 - E : EVRC
 - V : 13k or 8k
- 10 : REx : Rx vocoder rate (8 is full rate, 1 is 1/8th rate)
- 11 : xx : Walsh code used in traffic channel

3. Installation

3-1 Installing a Battery Pack

1. To attach the battery pack after charging, align it with the phone about 1cm (1/2 inch) away from its place so that the two arrows on the phone are seen, the battery charge contacts pointing downward.
2. Slide the battery pack upwards until it clicks firmly into position. The phone is now ready to be turned on.
3. To remove the battery pack, release it by pressing the button on the rear of the phone.
4. Slide the battery pack downward about 1cm (1/2inch and lift it away from the phone.



3-2 For Desk Top Use

1. Choose a proper location to install the charger for Desk Top use.
2. Plug the power cord of the charger into an appropriate wall socket. When the power is connected correctly, the lamps turn on briefly.
3. To charge the battery pack, insert the battery pack into the rear slot of the charger. The lamp marked BAT on the front panel of the charger lights up red.
4. If you do not wish to use the phone while charging the battery, insert the phone with the battery pack attached into the front slot of the charger. The lamp marked PHONE on the front panel of the charger lights up red.

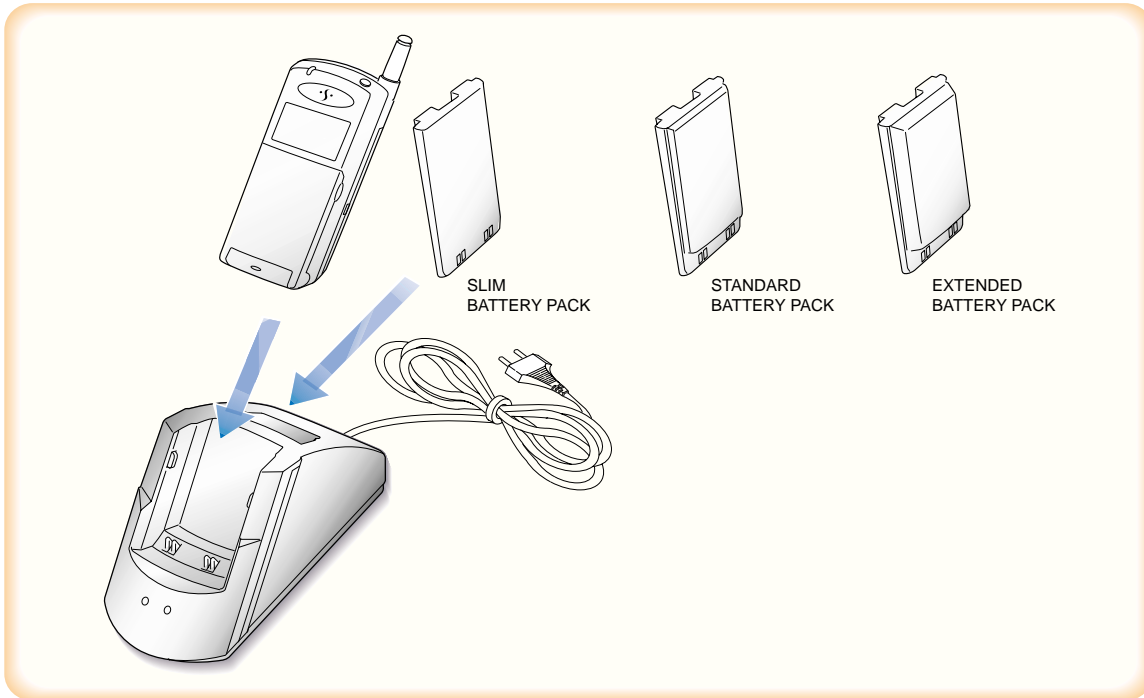


Figure 3-1 Charging the Phone and Battery

Item	Model Name	Service Part#
Desk Top Rapid Charger	DTC61AB	GH44-00063A
Slim Battery Pack	BTI61AB	GH43-00023A
Standard Battery Pack	BTS61AB	GH43-00022A
Extended Battery Pack	BTE61AB	GH43-00021A

SPECIFICATIONS USING “DTC 61AB”

Product	Charging time (hours)		Stand by time (hours)	Talking time(min)
	Front	Rear	Digital	Digital
Slim Battery Pack (Li-ion: 500mAh)	2	2	40	80
Standard Battery Pack (Li-ion: 1000mAh)	2	2	75	150
Extended Battery Pack (Li-ion: 1600mAh)	2.5	6	120	240

3-3 For Mobile Mount

3-3-1 Cradle

1. Choose a location where it is easy to reach and does not interfere with the driver's safe operation of the car.
2. Separate the two halves of the clamshell by removing the two large slotted screws.
3. Drill holes and mount the lower half of the clamshell by using the screws.
4. Place the cradle onto the remaining half of the clamshell and assemble them by using the screws.
5. Reassemble the two halves of the clamshell together. Adjust the mounting angle and tighten the two slotted screws.

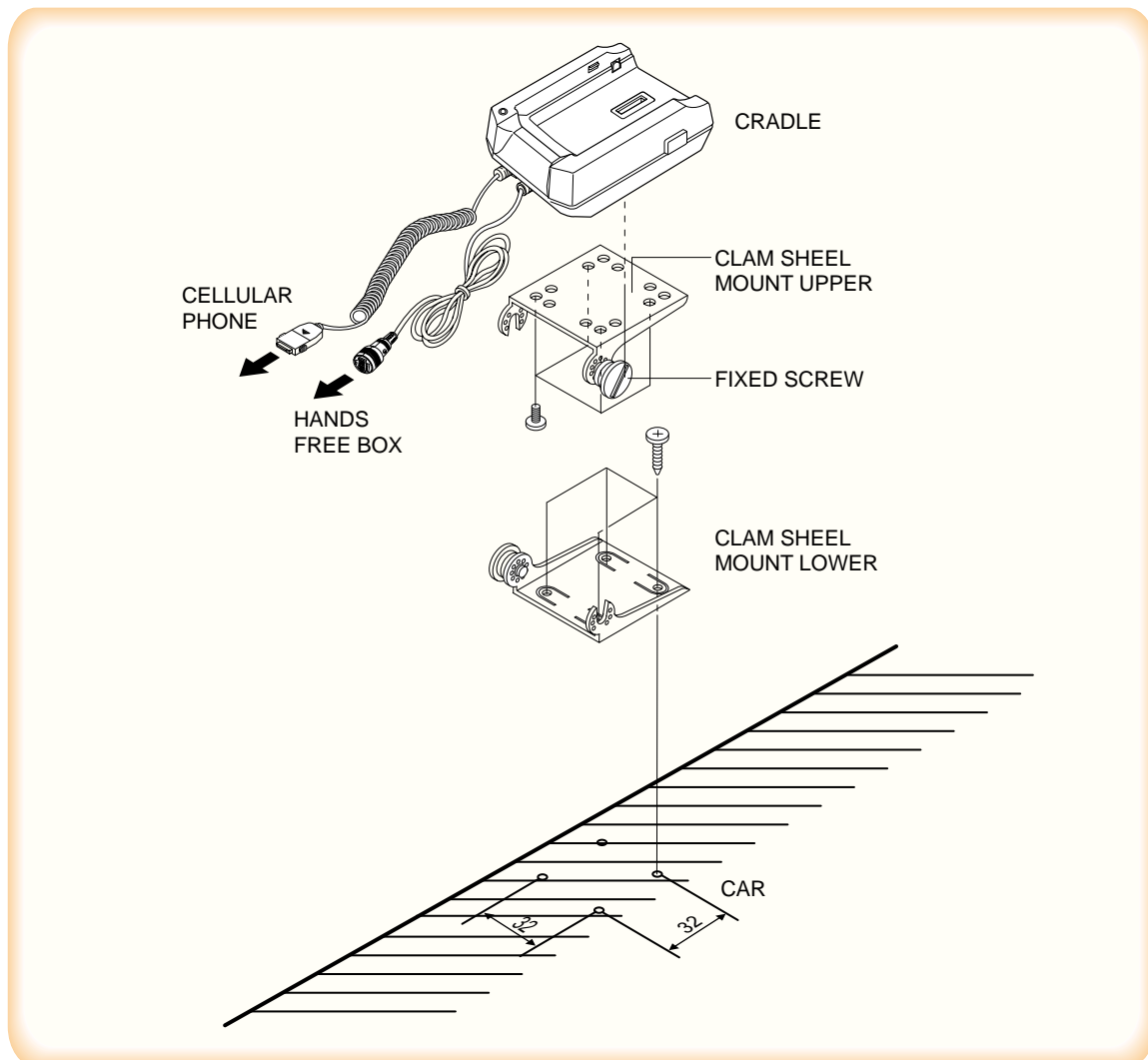


Figure 3-2 Cradle Installation

3-3-2 Hands-Free Box

1. Drill holes in a proper location for the hands-free box, attach the mounting bracket by using the screws. See the figure 3-3.
2. Install the hands-free box into the bracket.

3-3-3 Hands-Free Microphone

1. It is recommended to install the microphone where it is 30-45 cm (12-18inch away from the driver. Choose the location where is least susceptible to interference caused by external noise sources, ie, adjacent windows, radio speakers, etc. Normal place is the sun visor.
2. Once the microphone has been correctly positioned, connect the microphone wire to the MIC jack on the hands-free box.

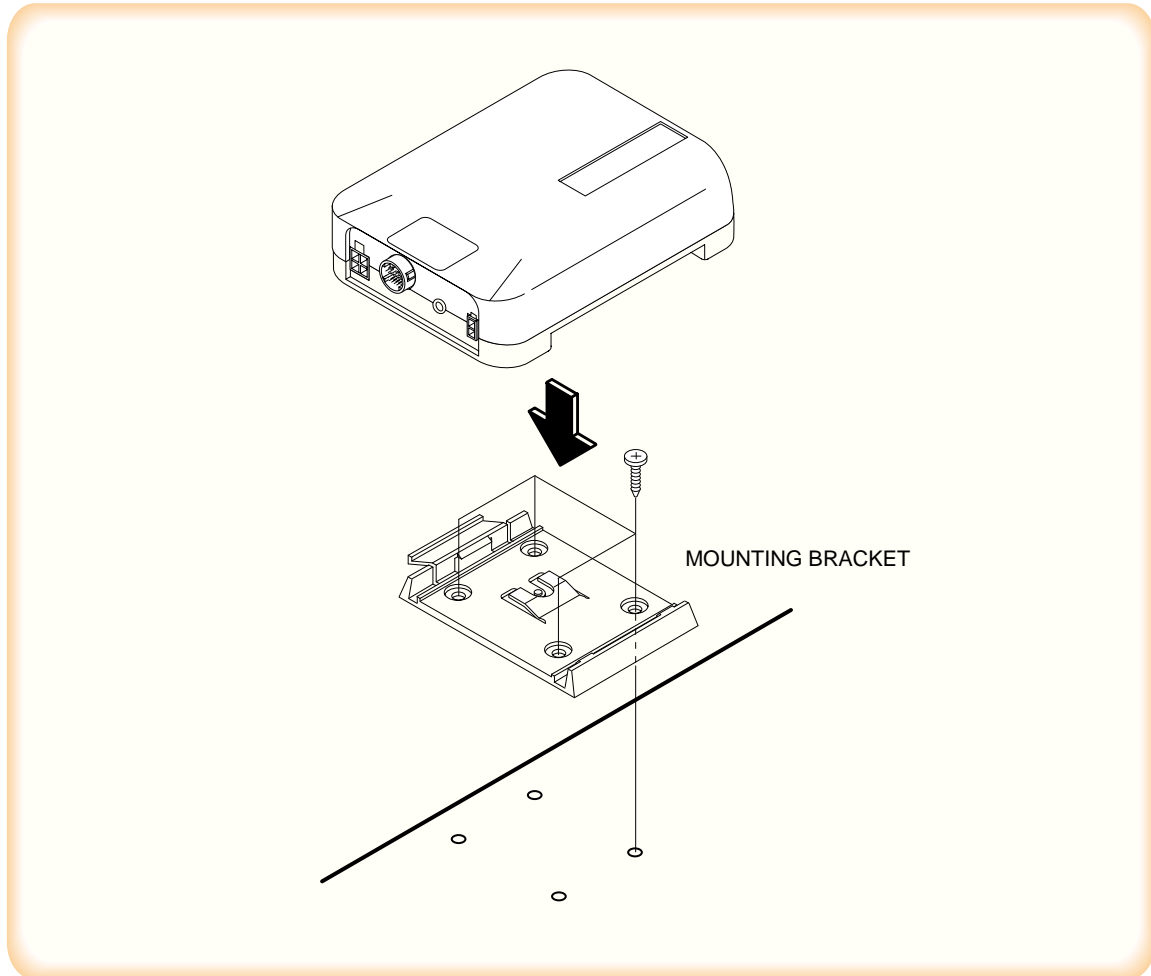


Figure 3-3 Hands-Free Box 1 Installation

3-3-4 Cables

1. Connect the cradle and the hands-free box with the data cable. See the figure 3-4.
2. Connect the antenna cable to the RF jack of the cradle.
3. Connect the power cable as follows:
Connect the red wire to the battery (+) terminal, black wire to the vehicle chassis. Then connect the battery (-) terminal to the vehicle chassis. Connect the yellow wire to the switched side of the ignition switch, and then connect the white to the stereo mute wire from your vehicle stereo.
4. Connect the other end of the power cable to the PWR jack of the hands-free box.

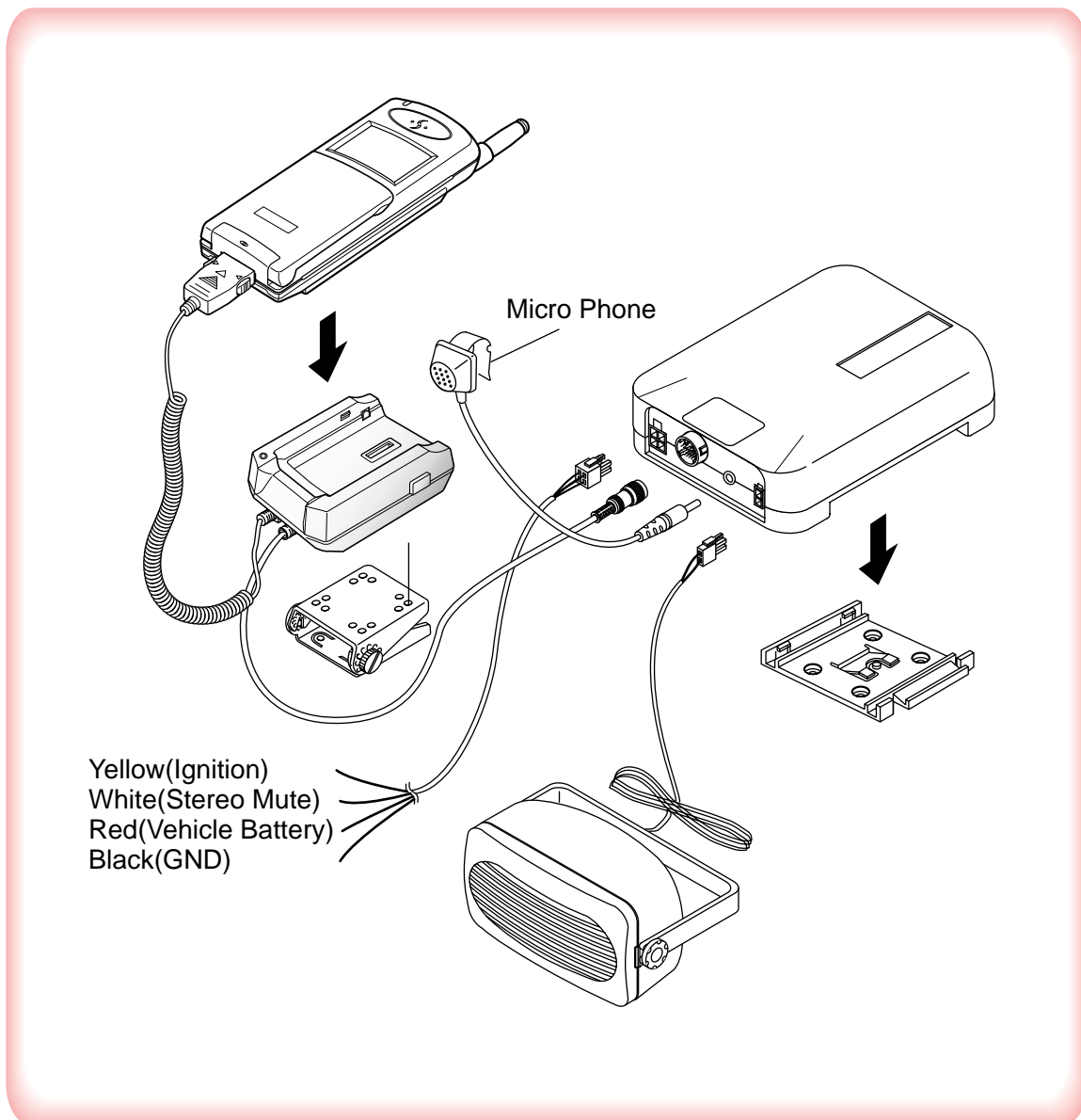
Notes:

It is recommended to connect the power cable directly to the battery to avoid power noise.

Make sure the connection, in the vehicle, between the battery (-) terminal and vehicle chassis is made correctly.

Make sure the fuse having a proper capacity is used on the power cable.

Make sure the cables do not pass over any sharp metal edge that may damage it.



4. NAM Programming

NAM features can be programmed as follows:

Notes:

- If you enter the NAM program mode, each item shows the currently stored data. Go to the next item by pressing OK.
- You can modify the data by entering a new data.
- If you enter a wrong digit, press CLR to delete the last digit. Press and hold CLR to delete all digits.
- To scroll items backwards or forwards, press the VOLUME button on the left side of the phone.

4-1 General Setup

LCD Display	Key in	Function
NAM program 1:General 2:Setup NAM1 3:Setup NAM2	47*869#08#9 1	-selects NAM programming -choose 'GENERAL'
ESN E9031F77	Volume ▼	-Electronic Serial Number of the phone is displayed
CAI version 3	Volume ▼	-Common Air Interface version is displayed
VOC8/13/EVRC SO_VOIC_EVRC	Volume ▼	-Vocoder Rate
SCM 00101010	Volume ▼	-Station Class Mark displays the power class, transmission, slotted class, dual mode.
Lock Code 0000	4-digit code OK	Lock code, current status is displayed -to change, enter new code. -store it
Slot Mode Yes	* or # OK	Slot mode. 'Yes' indicates the slot mode. -changes the status. -store it.
Slot Index 2	0-7 OK	Slot mode index. The higher, the longer sleeping time -to change, enter new one. -store it.
Pref NAM(1~4)... Digital only	* or # OK	Preferred system selection for NAM(1~4). Up to four NAMs are allowed for the phone. This lists one of the four NAMs and allows you to program CDMA settings.

4-2 Setting Up NAM1

LCD Display	Key in	Function
NAM Program 1:General 2:Setup NAM1 3:Setup NAM2	2	-Choose 'Setup NAM1.'
Setup NAM1 1:Phone # 2:CDMA	1	-Choose 'Phone #'
Phone # 1234567890	Phone number OK	-directory number -to change, enter new one. -store it.
Mobile ID # 1234567890	Phone number OK	-Phone number currently used. -to change, enter new one. -store it.
Setup NAM1 1:Phone # 2:CDMA	2	-choose 'CDMA'
IMSI_MCC 000	number OK	IMSI Mobile Country Code, current code is displayed. -to change, enter new one. -store it.
IMSI_MNC 00	number OK	IMSI Mobile Network Code, current code is displayed. -to change, enter new one. -store it.
CDMA pref.. A only	× or # OK	Preferred system selection, current system is displayed. -changes the system. -store it.
CDMA ACCOLC 0	class number OK	CDMA Access Overload Class, current status is displayed. -to change, enter new one. -store it.
Pchn Sys A 779	channel number OK	Preferred channel currently used under system A -to change, enter new one. -store it.
Pchn Sys B 779	channel number OK	Preferred channel currently used under system B -to change, enter new one. -store it.

LCD Display	Key in	Function
Schn Sys A 738	channel number OK	Second channel currently used under system A -to change, enter new one. -store it.
Schn Sys B 738	channel number OK	Second channel currently used under system B -to change, enter new one. -store it.
CD Acq SID 1 0	ID number OK	1st Acquisition system ID, current status is displayed. -to change, enter new one. -store it.
CD lockSID 1 0	ID number OK	1st lock system ID,current status is displayed. -to change, enter new one. -store it.
CDMA Home SID Yes	× or # OK	CDMA Home system ID, current status is displayed -changes the status. -store it.
CDMA fSID Yes	× or # OK	CDMA foreign SID, current status is displayed. -changes the system. -store it.
CDMA fNID Yes	× or # OK	CDMA foreign NID, current status is displayed. -changes the system. -store it.
SID #1 2222	number OK	first SID written in the list, current status is displayed. -to change, enter new one. -store it.
NID #1 1	number OK	first NID written in the list, current status is displayed. -to change, enter new one. -store it.
SID #2 2222	number OK	2nd SID written in the list, current status is displayed. -to change, enter new one. -store it.
NID #2 2	number OK	2nd NID written in the list, current status is displayed. -to change, enter new one. -store it.
SID #3 2222	number OK	3rd SID written in the list, current status is displayed. -to change, enter new one. -store it.

LCD Display	Key in	Function
SNID #3 3	number OK	3rd SID written in the list, current status is displayed. -to change, enter new one. -store it.
SID #4 2222	number OK	4th SID written in the list, current status is displayed. -to change, enter new one. -store it.
NID #4 15	number OK	4th NID written in the list, current status is displayed. -to change, enter new one. -store it.
Setup NAM1 1:Phone # 2:CDMA		LCD returns to the NAM1 setup mode.

4-3 Setting Up NAM 2, 3, 4

The NAM 2, 3, 4 setup program is the same as '4-2 Setting Up NAM1'.

5. Product Support Tools

5-1 General

IMPORTANT INFORMATION

Purpose

The Product Support Tool (PST) offers you the ability to interface with the SAMSUNG CDMA telephone using a PC. With this tool you can program the phones network system requirements and functionality, swap phone data, and download software upgrades. This document supports UniPST version 1.xx.

NOTE: This software must be executed in the Windows95/98 mode.

EQUIPMENT REQUIRED

Make sure you have the following equipment setup:

1. Minimum PC configuration: 586 CPU, 16MB RAM, Windows95/98, 5MB of disk space free for software upgrade.
2. PST Software with appropriate cable (DM Cable for SAMSUNG CDMA phone).
3. Serial Port (16550 Serial Interface Card).
4. Power Supply (3.8 V) or Battery

INSTALLATION

Software

1. Insert the PST floppy disk into drive (A:\).
2. Create an appropriate directory on the C:\ drive for PST software, Execute Setup.exe file, The installation program creates folder and task bar on the windows95/98 start bar.

SAMSUNG CDMA Phone

The serial port should be configured to COM1 or COM2.

Use the following procedure to connect the phone, cable, and PC .

Plug the female end of the DM Cable into the 16550 card.

Pull the black rubber connector away from the socket at the base of the phone.

Plug the special connector on the cable into the socket at the base of the phone.

5-2. PST (Product Support Tool)

5-2-1 Getting Started

MAIN MENU SCREEN

1. At the Windows95/98, Double Click “UniPst.exe”.
2. The Main Menu Screen will be displayed.
The Main Menu Screen shows the basic tasks that are available.

CAUTION: DO NOT attempt to program phone with a low battery.

PST SETUP

UniPst supports SAMSUNG CDMA portable telephone. You can select serial port COM1 or COM2.

5-2-2 Operation Procedure

Service Programming

The Service Programming screens enable you to set and change the service activation parameters of the phones. These items can be changed individually or as a group via the “Edit Items” Property Sheet of the PST. There are several pages on the Service Programming Property Sheet (See below Figure).

Read Data from File

Click “open” icon to select the name of a file whose extension is “mmc”. The values will be read from the named file, and will initialize the parameter values seen on the Service programming screen

Read Data from Phone

Click Read from the Phone icon to upload the current programmable parameters of the phone. The values are read from the phone, so the phone must have the power ON and be properly connected to the PST.

NOTE: To actually view the data you need to go to the Edit Items screens.

Edit Items

Click this icon to edit Number Assignment Module (NAM) items or UI items.

There are two types of screens:

1. Parameters associated with a particular Number Assignment Module (NAM)
2. UI items settings

Phone Book

Click this icon to edit Phone Book.

While you edit cell, you can use <Enter> and < UP , DOWN,LEFT,LIGHT Arrow> and <SPACE> key. If you want to edit phone number or name, you must move rectangle box to cell where you want to edit, Write it down. If <UP and DOWN Arrow> key is pressed, the cursor moves to next cell or previous cell.

Save Data to File

Click this icon to save the current parameters to a file. Once you enter a filename, Click <OK> button to write all current parameters to that file. This way the same information can be downloaded into multiple phones.

Write to Phone

Click this icon to write the selected parameter values to the phone. Writing the selected values to the phone may take up to a minute.

If there are dependencies in a field you can make all the changes in the proper fields and download the information all together.

If you intend to use this “Write to Phone” feature, it is recommended that you do a “Read Data from Phone” first, and then make the changes, so that nothing gets inadvertently overwritten.

NOTE: DO NOT TOUCH THE PHONE WHILE WRITING IS IN PROGRESS.

Software Download and Upgrade Screen

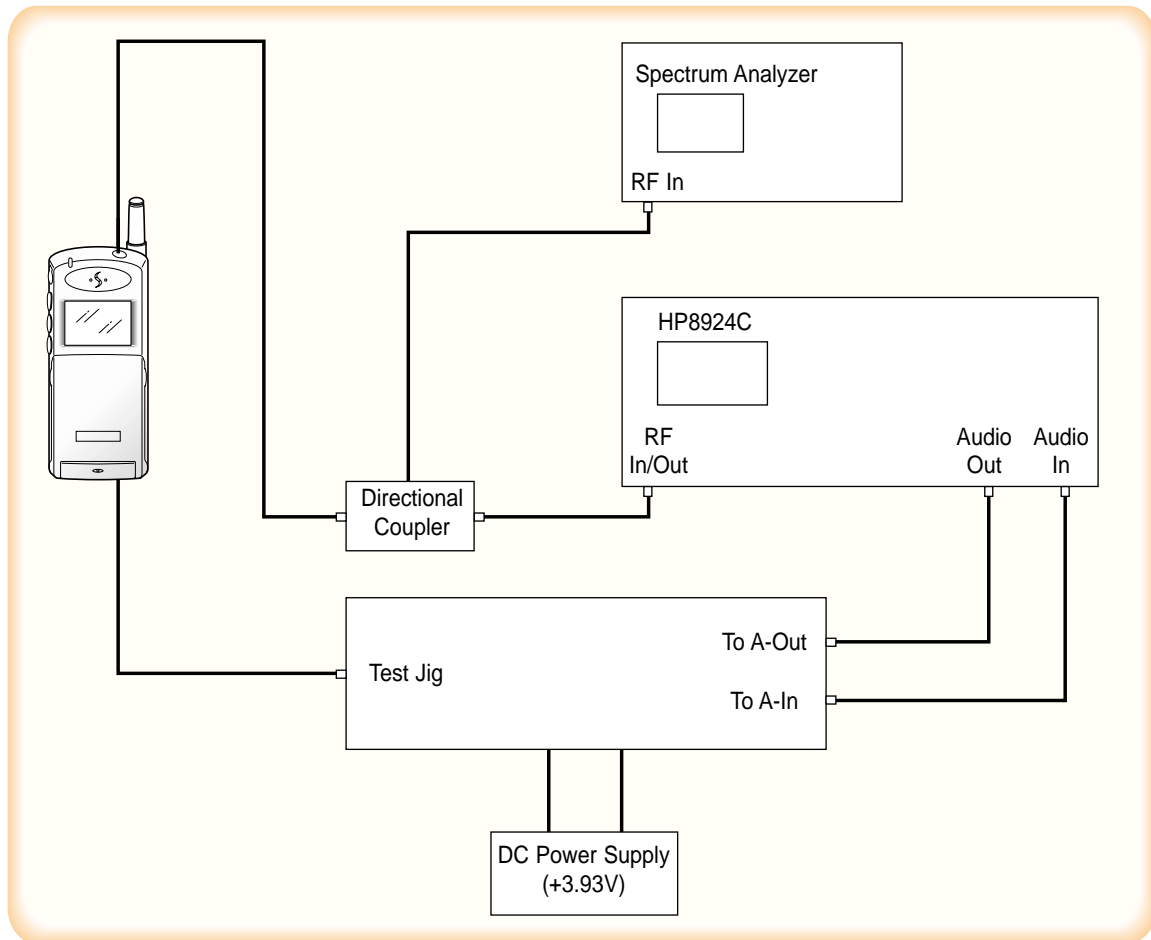
To begin a software upgrade or download, perform the following steps:

1. From the main menu screen choose DOWNLOAD MODE?
Click open icon to choose a BIN file of the new software to be loaded. Choose the appropriate BIN file, then Click <Open> (see below figure).
2. Click Download? to begin downloading the file. You will notice various messages and a progress bar that informs the user what percentage of the downloading has already occurred.
3. Click Mode Select box, then Select SERVICE MODE?to return to the Service Mode Screen.

NOTE: DO NOT POWER OFF WHILE THE PHONE IS BEING DOWNLOADED!

5-3 TEST PROCEDURE

5-3-1 Configuration of Test



※ CAUTION : Because there is the loss (0.33V at Max Power) of the test jig and Data cable, you'd better input 3.93V to the DC Power Supply to use 3.6V (Battery normal voltage) at Cellular phone

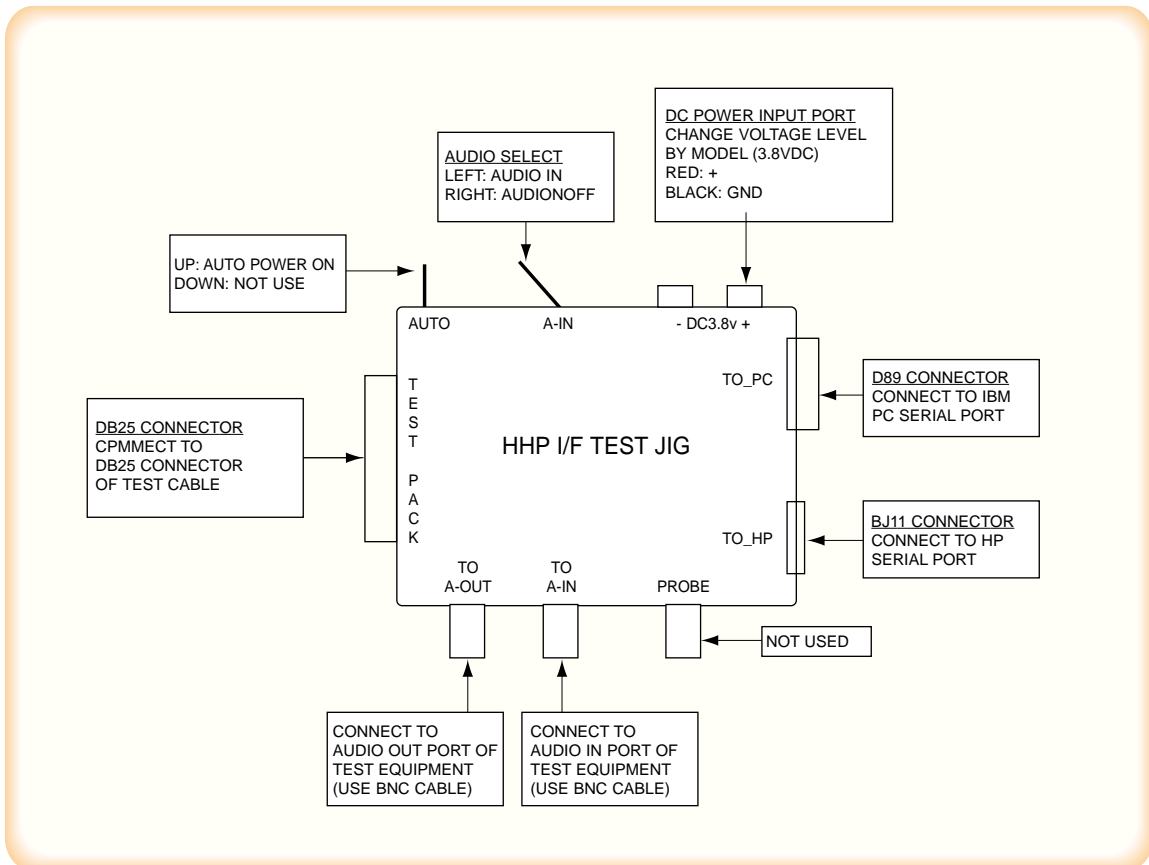
Items needed to purchase from SAMSUNG

ITEMS	PARTS #	REMARK
RF test Cable	GH39-00002A	Including 1. Power Cable(Black,Red) 2. 9-pin RS232 data Cable
Test cable	GH39-30516A	
DM Cable	GH39-30525A	
Test JIG (RF Interface Pack Ass'y)	GH80-10502A	

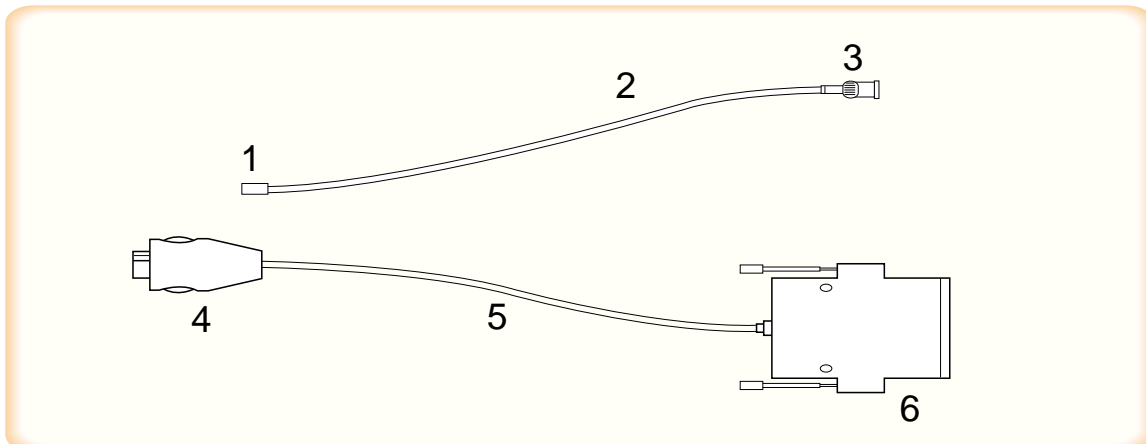
5-3-2 List of Equipment

- DC Power Supply
- Test Jig
- Test Cable
- CDMA Mobile Station Test Set HP8924C, HP83236A, CMD-80, etc
- Spectrum Analyzer(include CDMA Test Mode) HP8596E

TEST JIG



TEST CABLE

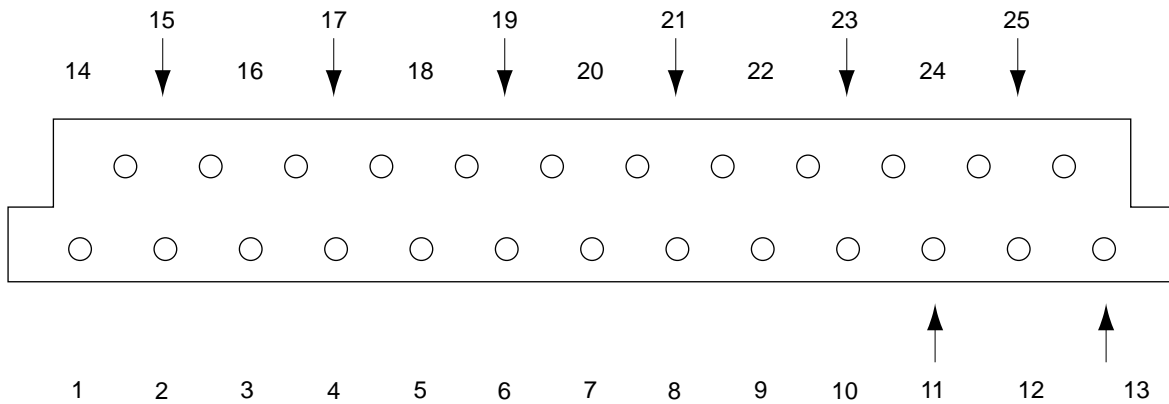


TEST CABLE CONNECTIONS

1	MHC 172
2	RF CABLE (1.4 dB Loss)
3	BNC CONNECTOR (RF)
4	PLUG CONNECT TO SCH-611
5	DATA CABLE
6	Dsub 25PIN CONNECTOR (DATA)

Dsub 25 PIN CONNECTOR PIN DESCRIPTION (TEST CABLE 1, BACK SIDE)

DATA DESCRIPTION	Dsub CONN. PIN NO.	DATA DESCRIPTION	Dsub CONN. PIN NO.
V_F	12,21	DP_RX_DATA	8
DGND	2,4,6,13,19	HP_PWR	9
BATT	15,16,22	RI	10
C_F	3,20	CD	11
TX_AUDIO	5	RTS	14
DP_TX_DATA	7	CTS	17
RX_AUDIO	1	DTR	18



5-4. CONVERSION TABLE OF FREQUENCY vs CHANNEL

T Y P E	C H A N N E L	C O N V E R S I O N E Q U A T I O N	R E M A R K
TX FREQUENCY	$1 \leq N \leq 799$ $990 \leq N \leq 1023$	$F = 0.03 \times N + 825.00$ $F = 0.03 \times (N - 1023) + 825.00$	N ; CH NUMBER F ; FREQUENCY
RX FREQUENCY	$1 \leq N \leq 799$ $990 \leq N \leq 1023$	$F = 0.03 \times N + 870.00$ $F = 0.03 \times (N - 1023) + 870.00$	

Change to Test Mode

A. To change the phone's state from Normal Mode to Test Mode, You should enter the following keys.
"×7 5 9 # 8 1 3 5 8 0 "

B. The command "0 1" is Suspend.

C. To finish the Test Mode, You should enter the command "0 2".

Channel Selection and Tx Power Output Level Control (Digital Mode)

A. Enter to Test Mode (×7 5 9 # 8 1 3 5 8 0).

B. "0 1" : Suspend.

C. "0 9 0 3 6 3 #" : Set to '0363' channel.

D. "0 7" : Carrier On.

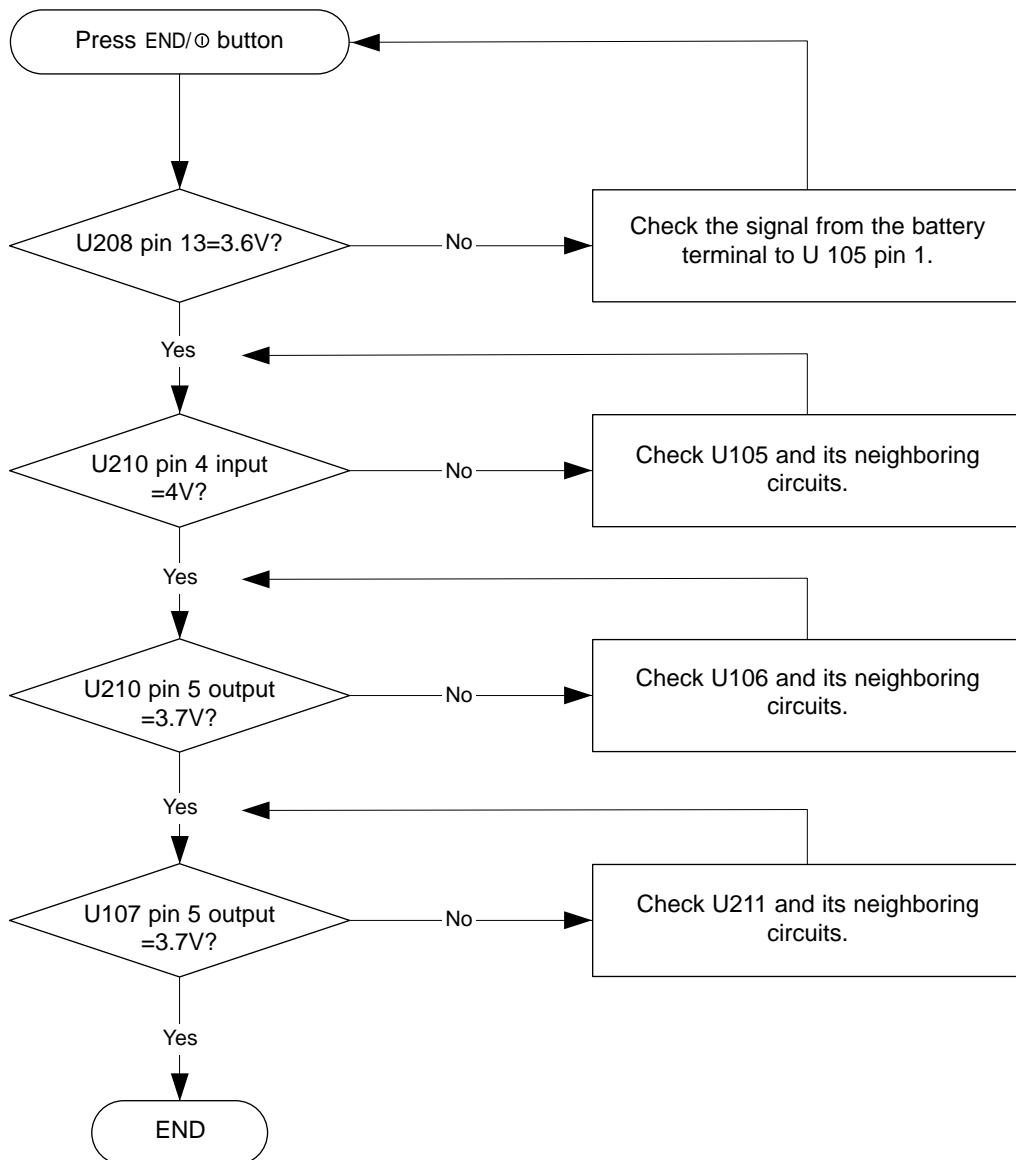
E. "3 4" : Spread spectrum to 1.23MHz bandwidth.

F. "7 1 2 7 5 #" : Output RF power level setting.
"275" means AGC level and AGC level range is from 0 to 511.

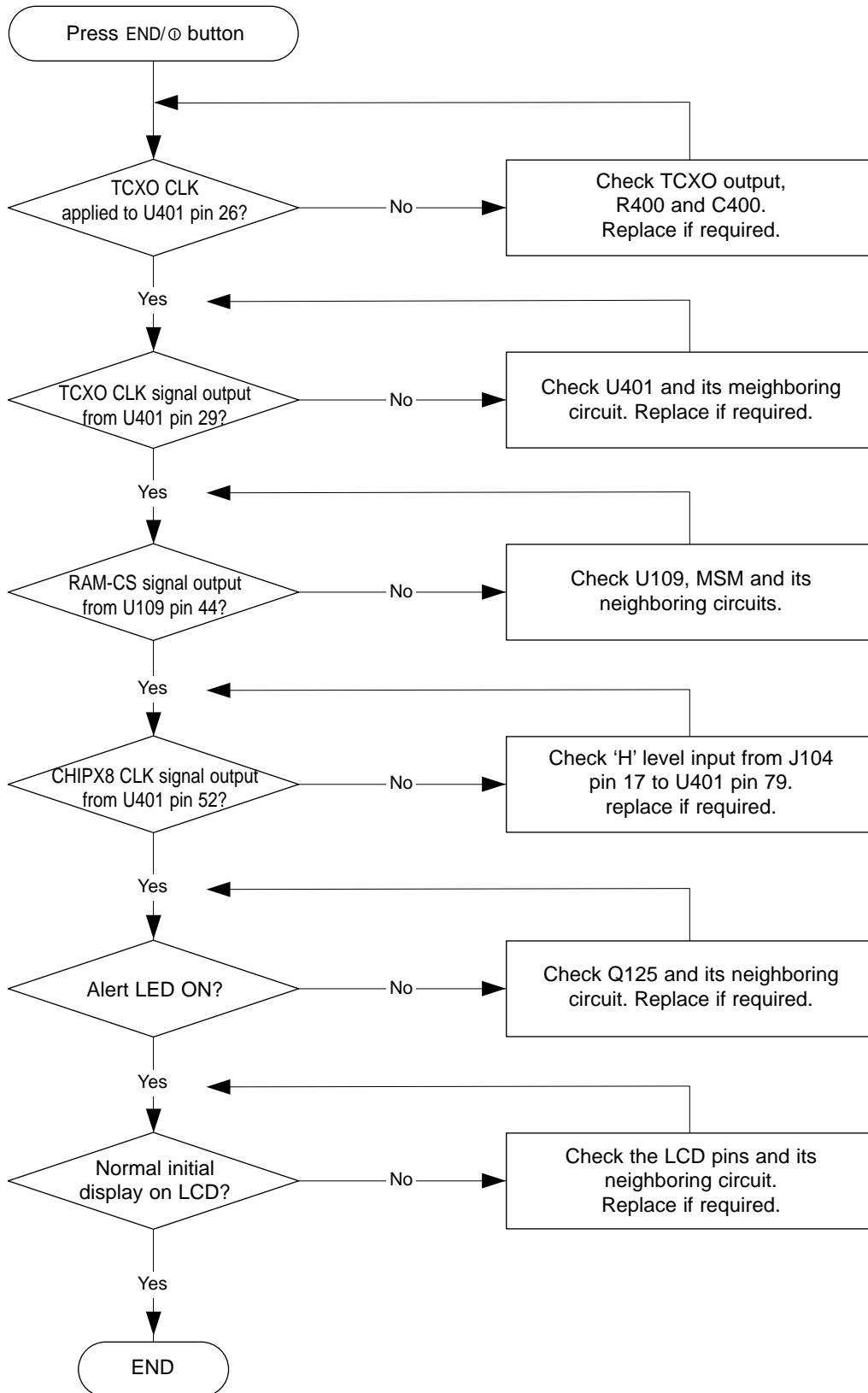
6. Troubleshooting

6-1 Logic Section

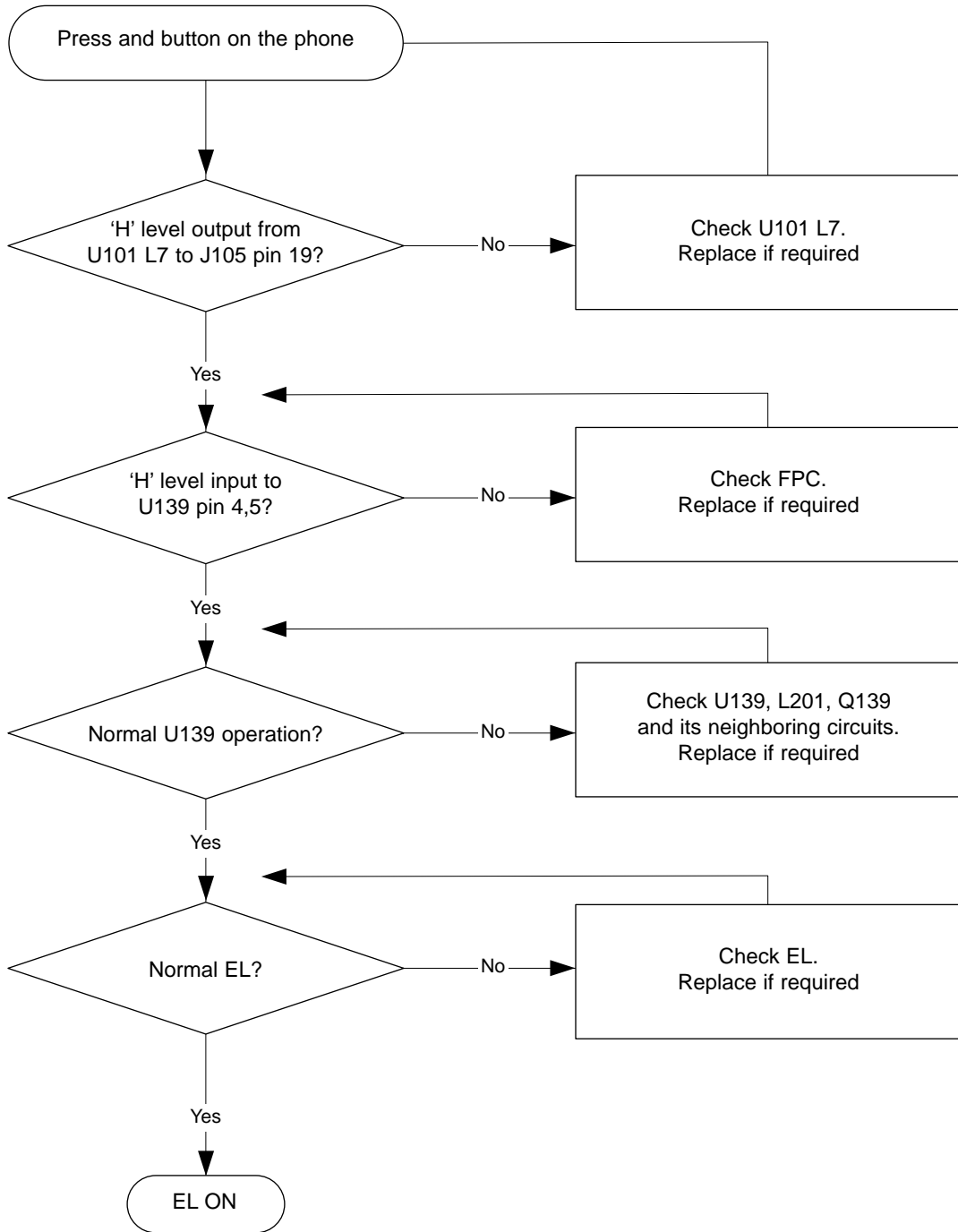
6-1-1 No Power



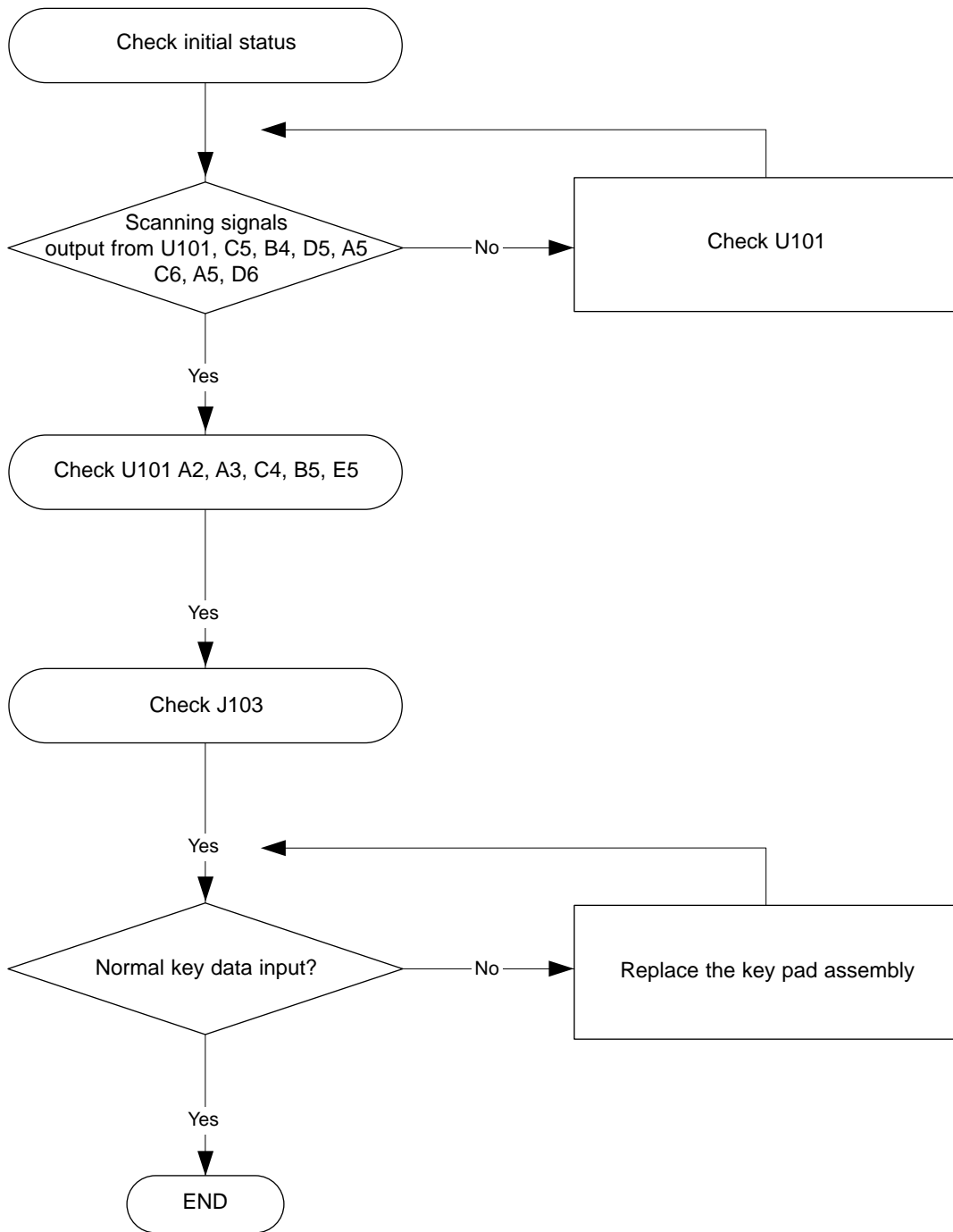
6-1-2 Abnormal Initial Operation (Normal +3.3V source)



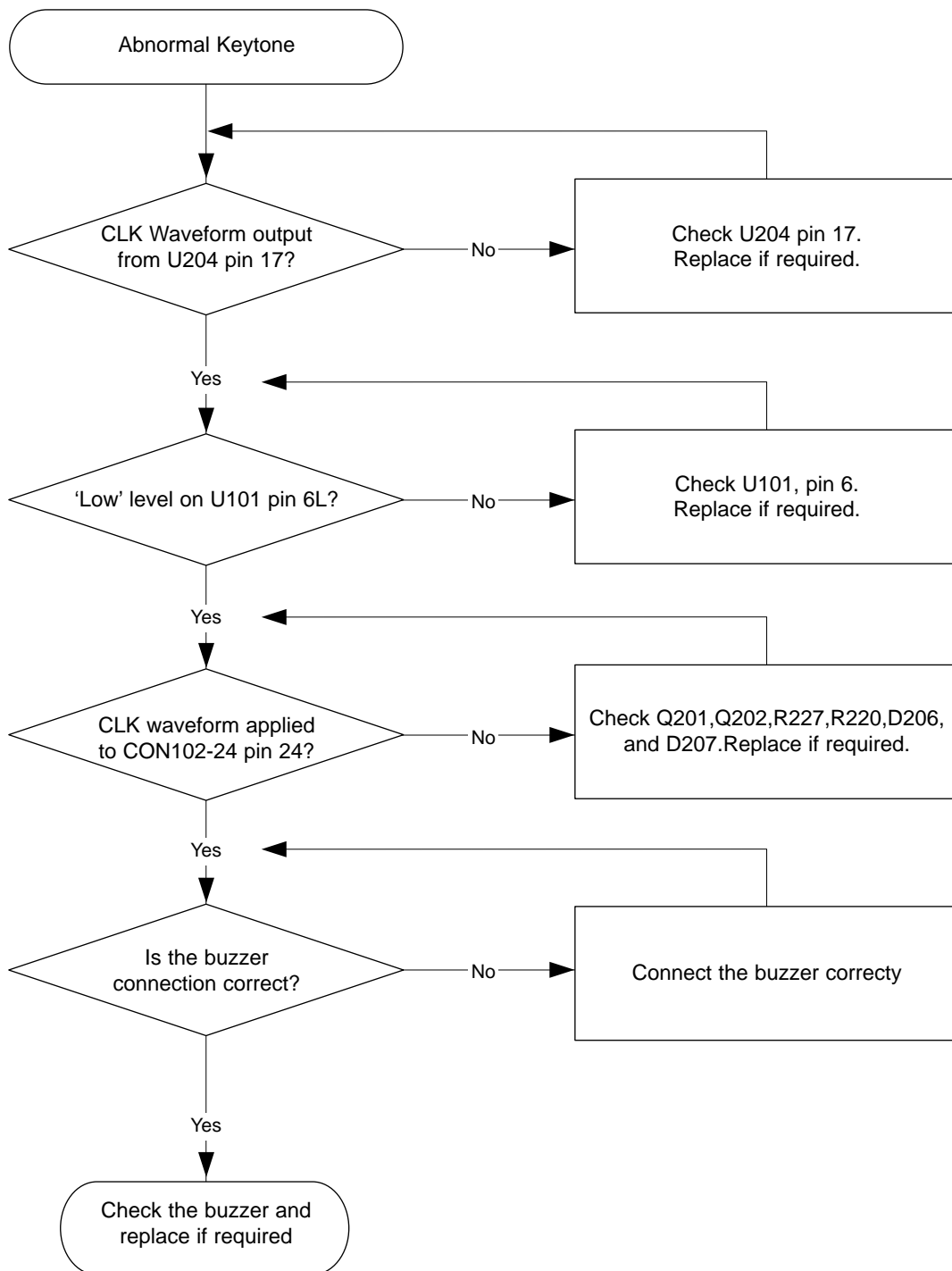
6-1-3 Abnormal Backlight Operation



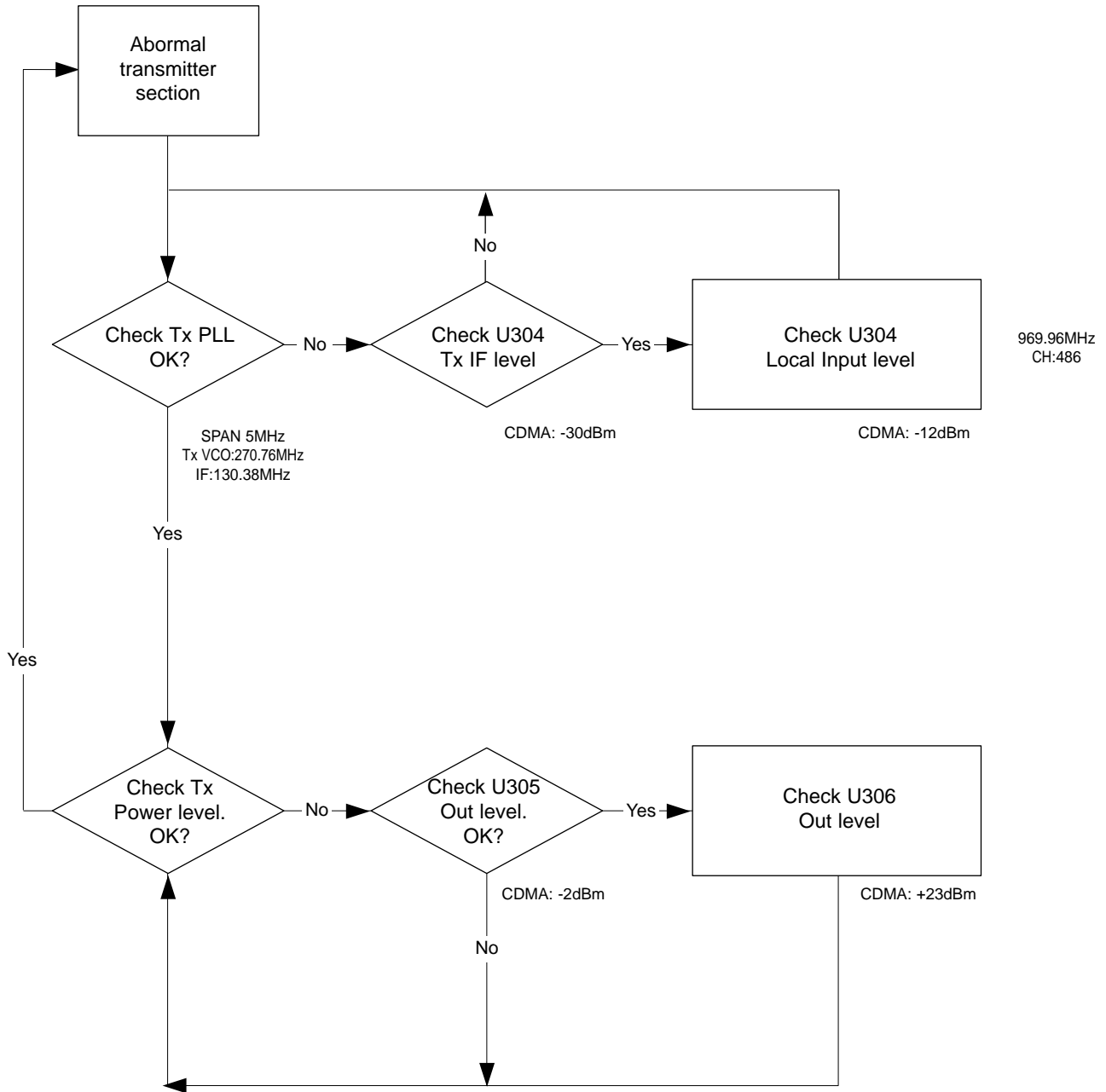
6-1-4 Abnormal Key Data input



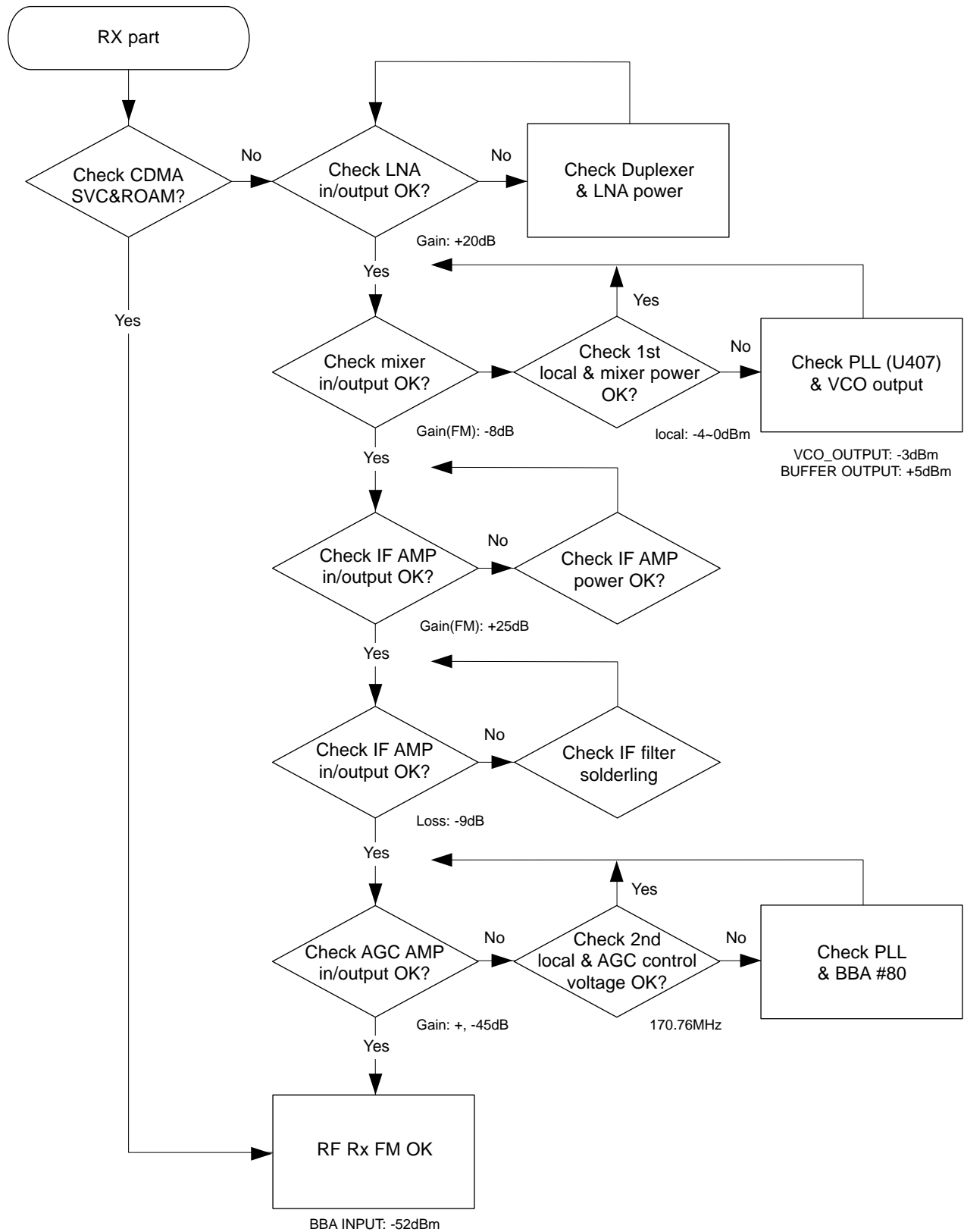
6-1-5 Abnormal Key tone



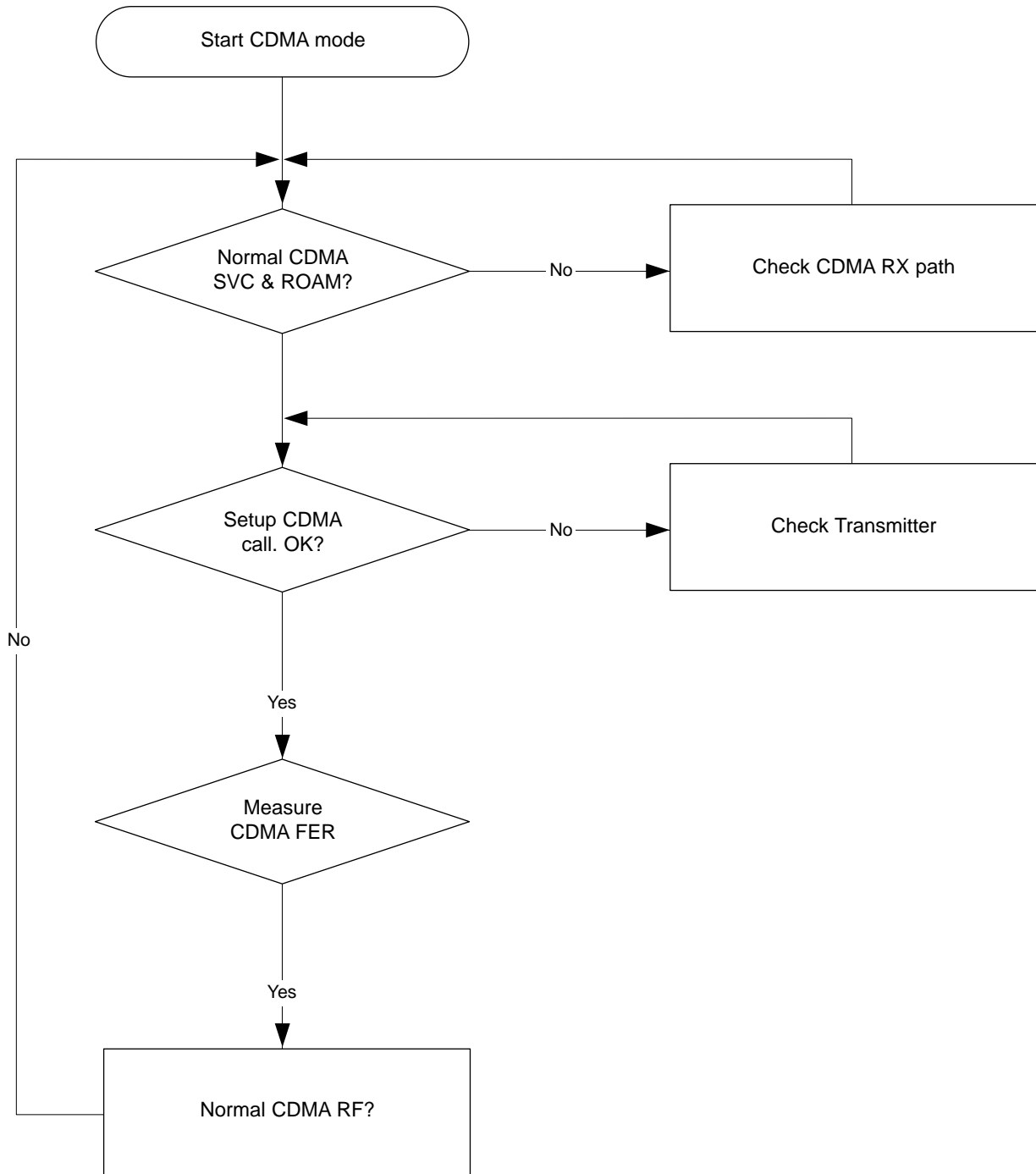
6-2 Transmitter Section



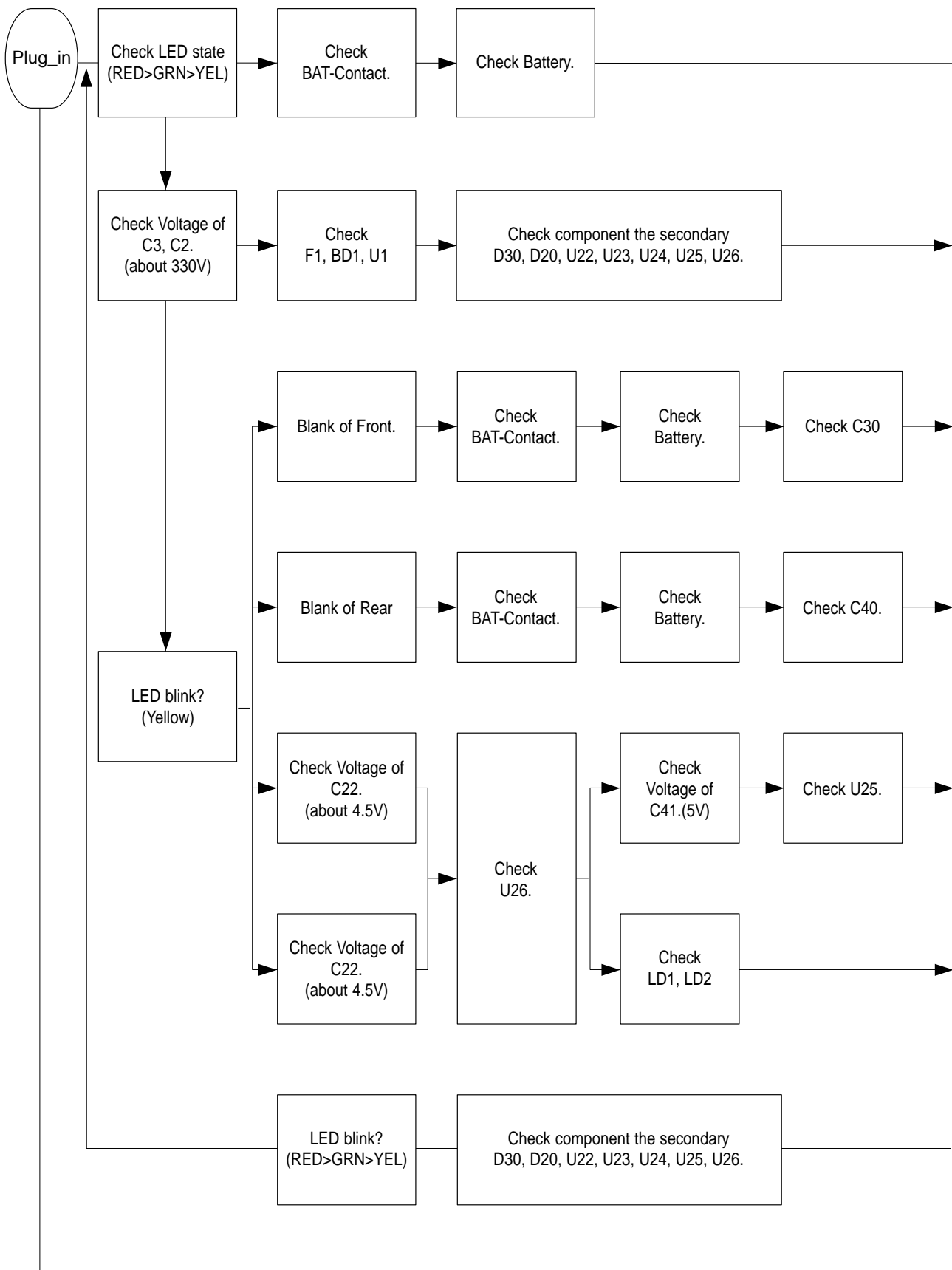
6-3 Receiver Section



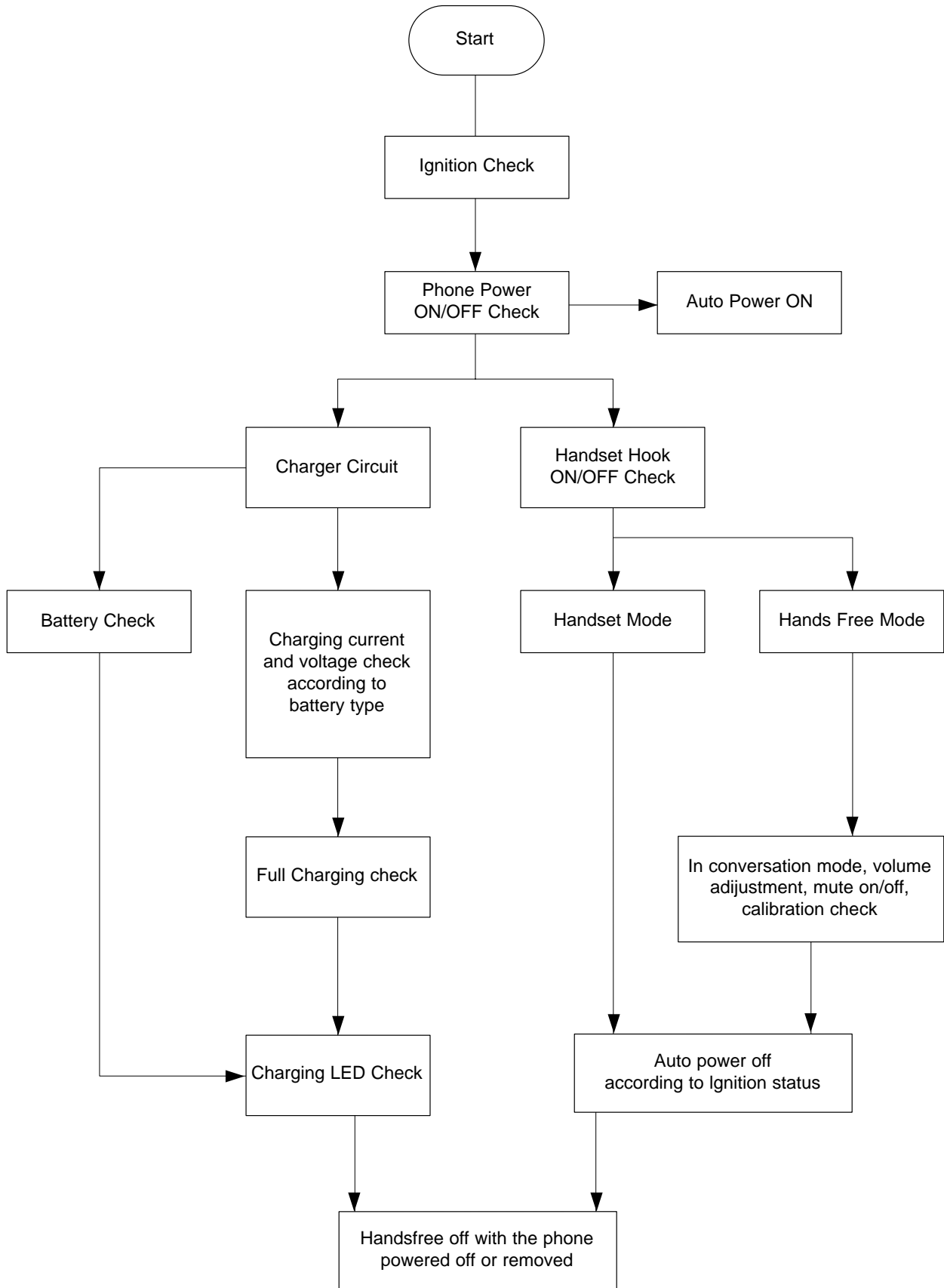
6-4 RF Section



6-5 Desk-Top Rapid Charger

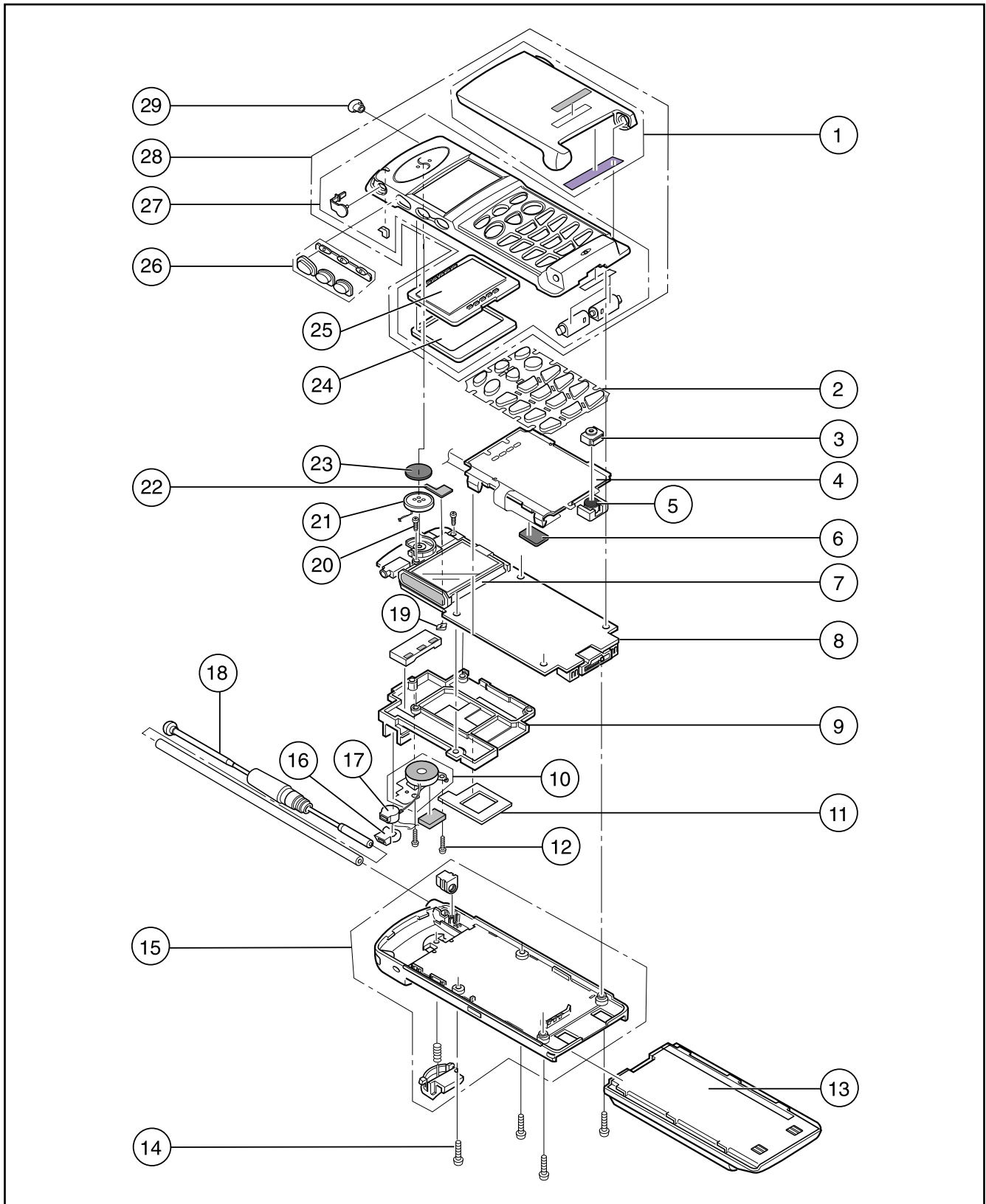


6-6 Hands-Free Kit 1



7. Exploded View and its Parts List

7-1 Cellular phone Exploded View



7-2 Cellular phone Parts List (Israel Only)

Location No.			SEC Code		
			Silver Gray	Black	Champagne Gold
	1	FRONT ASS'Y	GH97-01452B	GH97-01452A	GH97-01452C
②⑧	2	FRONT COVER ASS'Y	GH75-00273B	GH75-00273A	GH75-00273C
	3	FRONT COVER	GH72-00144B	GH72-00144A	GH72-00144C
①	3	FLIP COVER ASS'Y	GH75-00274B	GH75-00274A	GH75-00274C
	4	FLIP COVER	GH72-00430B	GH72-00430A	GH72-00430C
	4	LOGO BADGE	GH68-20008J	GH68-20008A	GH68-20008G
	4	MAGNETIC	937-312008AA	937-312008AA	937-312008AA
	4	FLIP LABEL	GH68-00278B	GH68-00278A	GH68-00278C
②⑤	3	LCD WINDOW	GH72-00180A	GH72-00180A	GH72-00180A
②④	3	LCD RUBBER	GH73-00045A	GH73-00045A	GH73-00045A
	3	LED CAP	GH72-00182A	GH72-00182A	GH72-00182A
	3	WINDOW VINYL	GH74-00078A	GH74-00078A	GH74-00078A
	3	HINGE ASS'Y	GH75-00046A	GH75-00046A	GH75-00046A
	3	EAR JACK HOLDER	GH72-00148B	GH72-00148A	GH72-00148C
	3	WINDOW BOHO VINYL	GH74-40107A	GH74-40107A	GH74-40107A
	3	WINDOW BIFACIAL TAPE	GH74-00109A	GH74-00109A	GH74-00109A
	3	REED S/W SPONGE	GH74-00123A	GH74-00123A	GH74-00123A
	1	REAR ASS'Y	GH97-00888B	GH97-00888A	GH97-00888B
①⑤	2	REAR COVER ASS'Y	GH75-00084B	GH75-00084A	GH75-00084B
	3	REAR COVER	GH72-00145B	GH72-00145A	GH72-00145B
	3	BATTERY LOCKER	GH72-00147B	GH72-00147A	GH72-00147B
	3	SPRING LOCKER MAIN	GH70-10516A	GH70-10516A	GH70-10516A
	3	BUZZER NET	GH74-00079A	GH74-00079A	GH74-00079A
	3	STRIP FINGER(2PIN)	GH71-10639A	GH71-10639A	GH71-10639A
	3	STRIP FINGER(3PIN)	GH71-10640A	GH71-10640A	GH71-10640A
	3	ANTENNA BRACKET	GH71-00013A	GH71-00013A	GH71-00013A
	3	LABEL QUALCOMM	GH68-30846A	GH68-30846A	GH68-30846A
②⑥	1	SIDE KEY ASS'Y	GH75-00088A	GH75-00088A	GH75-00088A
	2	SIDE KEY	GH72-00181A	GH72-00181A	GH72-00181A

Location No.			SEC Code		
			Silver Gray	Black	Champagne Gold
	2	SIDE KEY RUBBER	GH73-00044A	GH73-00044A	GH73-00044A
	1	ANT LUG ASS'Y	GH97-00961A	GH97-00961A	GH97-00961A
	2	ANT LUG	GH71-10728A	GH71-10728A	GH71-10728A
	2	ANT LUG RUBBER	GH73-40727A	GH73-40727A	GH73-40727A
	1	SHIELD FRONT ASS'Y	GH97-00897B	GH97-00897B	GH97-00897B
⑦	2	SHIELD FRONT	GH72-00183A	GH72-00183A	GH72-00183A
⑳	2	SPEAKER	3001-001095	3001-001095	3001-001095
㉓	2	SPEAKER SPONGE	GH74-00359A	GH74-00359A	GH74-00359A
	2	RUBBER LCD UNDER	GH73-00052A	GH73-00052A	GH73-00052A
㉒	2	SHIELD SOFT SPONGE FRONT	GH74-00073A	GH74-00073A	GH74-00073A
	2	DISPLAY LCD	GH07-00015A	GH07-00015A	GH07-00015A
	1	SHIELD CAN ASS'Y	GH97-00898D	GH97-00898D	GH97-00898D
	2	KEY PCB	GH59-00039A	GH59-00039A	GH59-00039A
⑤	3	MIC	GH96-00772A	GH96-00772A	GH96-00772A
⑩	3	DC MOTOR(VIBRATOR)	GH31-00003A	GH31-00003A	GH31-00003A
⑰	3	BUZZER	3002-001064	3002-001064	3002-001064
⑨	2	REAR SHIELD CAN	GH72-00431A	GH72-00431A	GH72-00431A
⑰	2	BUZZER HOLDER	GH73-00047A	GH73-00047A	GH73-00047A
⑫	2	MOTOR SCREW	6003-001085	6003-001085	6003-001085
⑪	2	SHIELD SOFT SPONGE REAR	GH74-00074A	GH74-00074A	GH74-00074A
	2	SHIELD SOFT SPONGE MOTOR	GH74-00074A	GH74-00074A	GH74-00074A
④	2	KEY SHIELD CAN	GH72-00188A	GH72-00188A	GH72-00188A
③	2	MIC HOLDER	GH73-00046A	GH73-00046A	GH73-00046A
	2	MIC DUMMY	GH73-00048A	GH73-00048A	GH73-00048A
⑥	2	SPONGE REAR CONNECTOR	GH74-00094A	GH74-00094A	GH74-00094A
	2	RUBBER CONNECTOR	GH73-00051A	GH73-00051A	GH73-00051A
	2	KEY SHIELD RUBBER	GH73-00073A	GH73-00073A	GH73-00073A
	2	MOTOR SHEET	GH72-00376A	GH72-00376A	GH72-00376A
	2	MOTOR BRACKET	GH71-00068A	GH71-00068A	GH71-00068A
	2	MOTOR RUBBER	GH73-00187A	GH73-00187A	GH73-00187A
	1	Desk Top Charger ASS'Y	GH44-00043A	GH44-00043A	GH44-00043A

Location No.			SEC Code		
			Silver Gray	Black	Champagne Gold
	1	CLIP HANGER (GRAY)	GH75-00284B	GH75-00284A	GH75-00284B
⑭	1	SCREW (M2 X L5)	6001-001148	6001-001148	6001-001148
②	1	KEY PAD	GH72-00444A	GH72-00444A	GH72-00444A
	1	COVER CONNECTOR	GH73-40673F	GH73-40673A	GH73-40673F
⑲	1	ANT. HOLDER	GH72-00094D	GH73-00094A	GH72-00094F
⑰	1	ANTENNA CONNECT	GH97-00961A	GH97-00961A	GH97-00961A
⑳	1	SCREW (M2 X L6)-SHIELD CAN	6002-000145	6002-000145	6002-000145
	1	RUBBER REAR	GH73-00050A	GH73-00050A	GH73-00050A
	1	EAR JACK RUBBER	GH73-00064A	GH73-00064A	GH73-00064A
	1	WINDOW VINYL(OUT)	GH74-00078A	GH74-00078A	GH74-00078A
	1	LEATHER CASE	GH75-00315A	GH75-00315A	GH75-00315A
	1	EAR CUSHION(GRAY)	GH75-00403B	GH75-00403A	GH75-00403C
⑳	1	SEMI FRONT ASS'Y	GH75-00348B	GH75-00348A	GH75-00348C
	2	FRONT COVER	GH72-00144B	GH72-00144A	GH72-00144C
	2	LCD WINDOW	GH72-00180A	GH72-00180A	GH72-00180A
	2	LCD RUBBER	GH73-00045A	GH73-00045A	GH73-00045A
	2	LED CAP	GH72-00182A	GH72-00182A	GH72-00182A
	2	WINDOW VINYL	GH74-00078A	GH74-00078A	GH74-00078A
	2	HINGE ASS'Y	GH75-00046A	GH75-00046A	GH75-00046A
	2	EAR JACK HOLDER	GH72-00148B	GH72-00148A	GH72-00148C
	2	WINDOW BOHO VINYL	GH74-40107A	GH74-40107A	GH74-40107A
	2	WINDOW TAPE	GH74-00109A	GH74-00109A	GH74-00109A
	2	REED S/W SPONGE	GH74-00123A	GH74-00123A	GH74-00123A
⑧		MAIN PBA	GH92-00793A	GH92-00793A	GH92-00793A
⑬		BATTERY	GH43-00023B	GH43-00023A	GH43-00023B
			GH43-00022B	GH43-00022A	GH43-00022B
			GH43-00021B	GH43-00021A	GH43-00021B
⑱		ANTENNA	GH42-00007B	GH42-00007A	GH42-00007B
		EAR CUSHION	GH75-00403B	GH75-00403A	GH75-00403C

7-3 Cellular phone Parts List (Hong Kong Only)

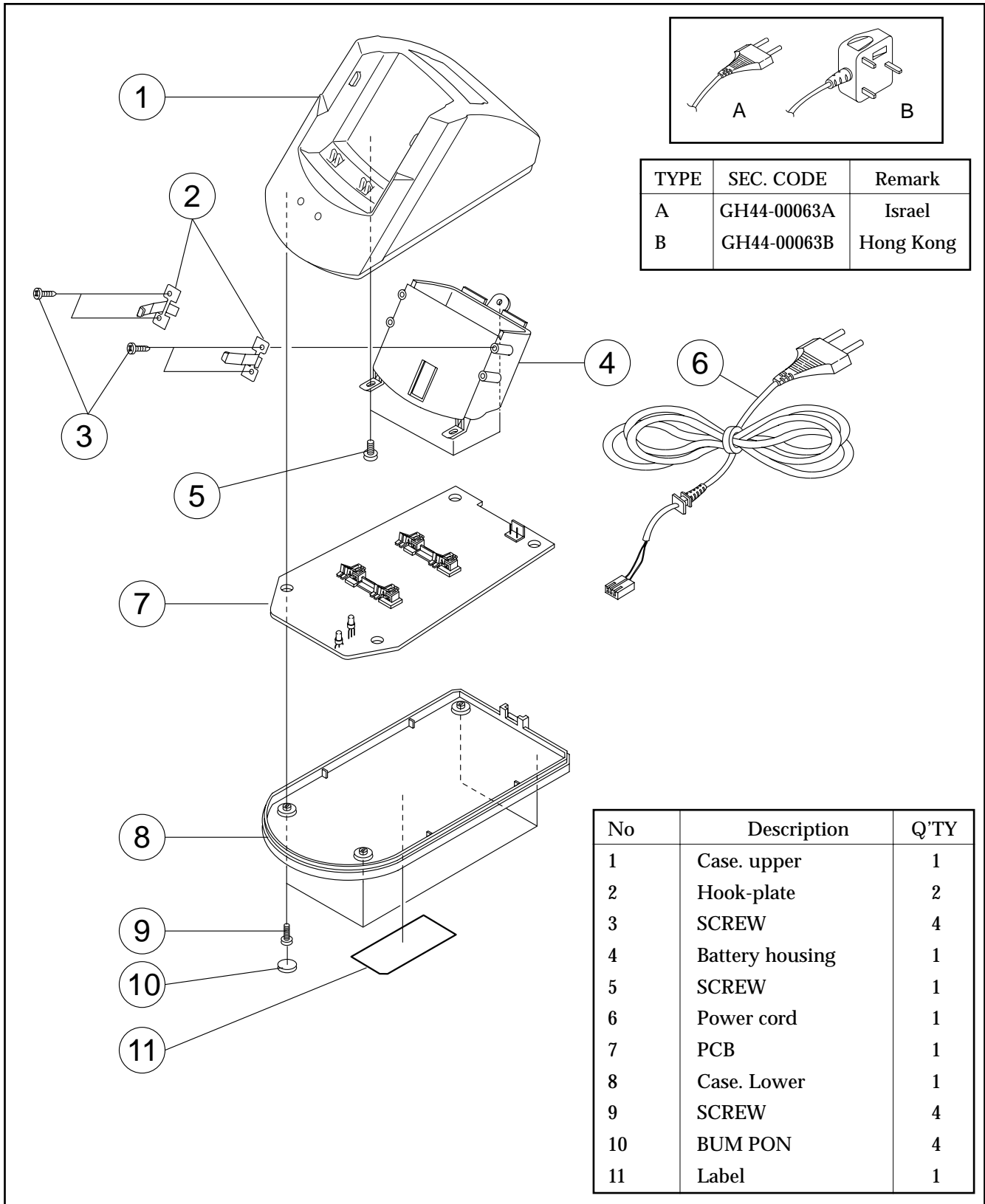
Location No.			SEC Code		
			Silver Gray	Black	Champagne Gold
	1	FRONT ASS'Y	GH97-01451B	GH97-01451A	GH97-01451C
②⑧	2	FRONT COVER ASS'Y	GH75-00271B	GH75-00271A	GH75-00271C
	3	FRONT COVER	GH72-00144B	GH72-00144A	GH72-00144C
①	3	FLIP COVER ASS'Y	GH75-00272B	GH75-00272A	GH75-00272C
	4	FLIP COVER	GH72-00429B	GH72-00429A	GH72-00429C
	4	LOGO BADGE	GH68-20008F	GH68-20008A	GH68-20008G
	4	MAGNETIC	937-312008AA	937-12008AA	937-12008AA
	4	FLIP LABEL	GH68-00278B	GH68-00278A	GH68-00278C
②⑤	3	LCD WINDOW	GH72-00180A	GH72-00180A	GH72-00180A
②④	3	LCD RUBBER	GH73-00045A	GH73-00045A	GH73-00045A
	3	LED CAP	GH72-00182A	GH72-00182A	GH72-00182A
	3	WINDOW VINYL	GH74-00078A	GH74-00078A	GH74-00078A
	3	HINGE ASS'Y	GH75-00046A	GH75-00046A	GH75-00046A
	3	EAR JACK HOLDER	GH72-00148B	GH72-00148A	GH72-00148C
	3	WINDOW BOHO VINYL	GH74-40107A	GH74-40107A	GH74-40107A
	3	WINDOW BIFACIAL TAPE	GH74-00109A	GH74-00109A	GH74-00109A
	3	REED S/W SPONGE	GH74-00123A	GH74-00123A	GH74-00123A
	1	REAR ASS'Y	GH97-00888C	GH97-00888A	GH97-00888B
①⑤	2	REAR COVER ASS'Y	GH75-00084C	GH75-00084A	GH75-00084B
	3	REAR COVER	GH72-00145C	GH72-00145A	GH72-00145B
	3	BATTERY LOCKER	GH72-00147C	GH72-00147A	GH72-00147B
	3	SPRING LOCKER MAIN	GH70-10516A	GH70-10516A	GH70-10516A
	3	BUZZER NET	GH74-00079A	GH74-00079A	GH74-00079A
	3	STRIP FINGER(2PIN)	GH71-10639A	GH71-10639A	GH71-10639A
	3	STRIP FINGER(3PIN)	GH71-10640A	GH71-10640A	GH71-10640A
	3	ANTENNA BRACKET	GH71-00013A	GH71-00013A	GH71-00013A
	3	LABEL QUALCOMM	GH68-30846A	GH68-30846A	GH68-30846A
②⑥	1	SIDE KEY ASS'Y	GH75-00088A	GH75-00088A	GH75-00088A
	2	SIDE KEY	GH72-00181A	GH72-00181A	GH72-00181A

Exploded view and its Part List

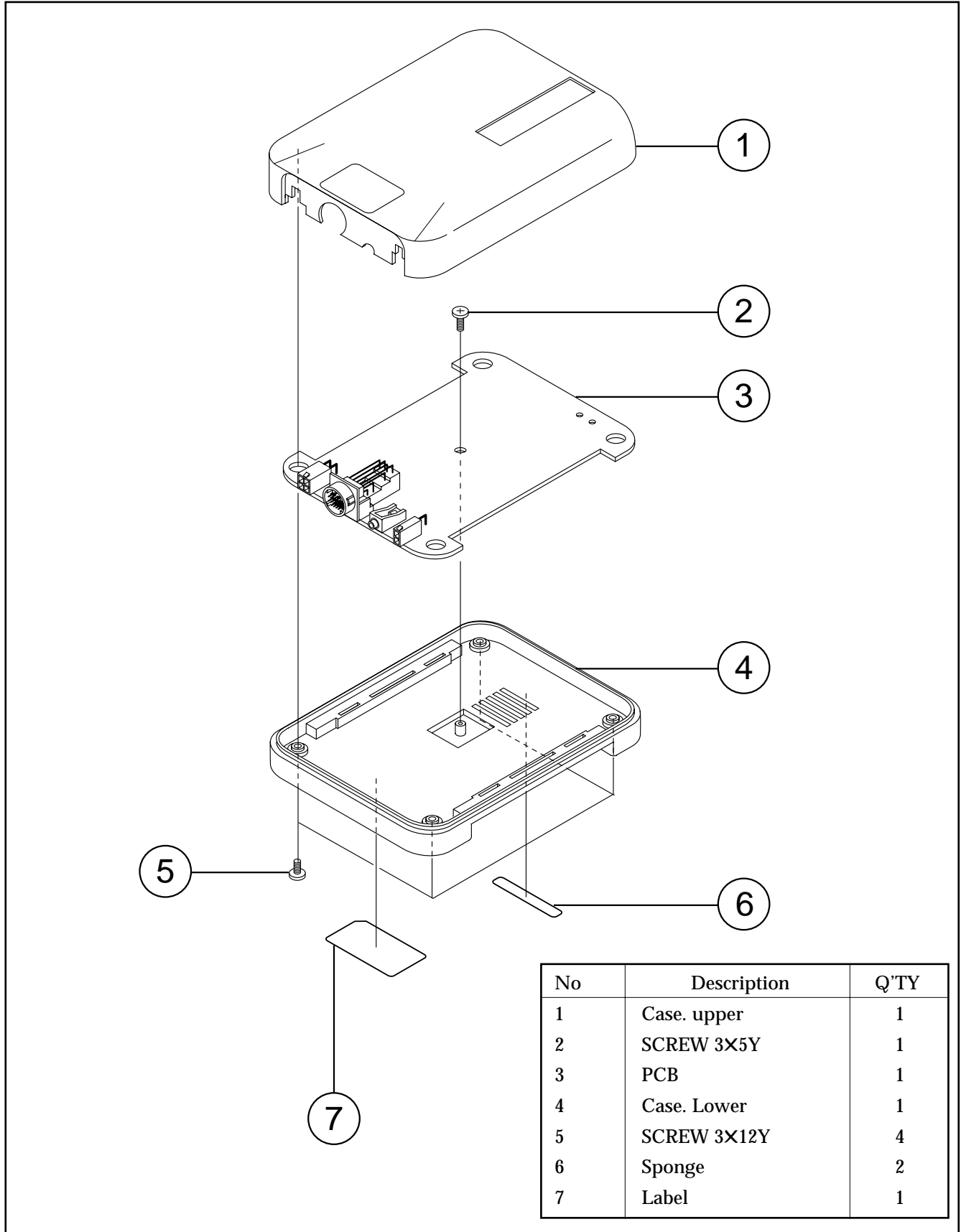
Location No.			SEC Code		
			Silver Gray	Black	Champagne Gold
	2	SIDE KEY RUBBER	GH73-00044A	GH73-00044A	GH73-00044A
	1	ANT LUG ASS'Y	GH97-00961A	GH97-00961A	GH97-00961A
	2	ANT LUG	GH71-10728A	GH71-10728A	GH71-10728A
	2	ANT LUG RUBBER	GH73-40727A	GH73-40727A	GH73-40727A
	1	SHIELD FRONT ASS'Y	GH97-00897B	GH97-00897B	GH97-00897B
⑦	2	SHIELD FRONT	GH72-00183A	GH72-00183A	GH72-00183A
⑳	2	SPEAKER	3001-001095	3001-001095	3001-001095
㉓	3	SPEAKER SPONGE	GH74-00359A	GH74-00359A	GH74-00359A
	2	RUBBER LCD UNDER	GH73-00052A	GH73-00052A	GH73-00052A
㉒	2	SHIELD SOFT SPONGE FRONT	GH74-00073A	GH74-00073A	GH74-00073A
	2	DISPLAY LCD	GH07-00015A	GH07-00015A	GH07-00015A
	1	SHIELD CAN ASS'Y	GH97-00898D	GH97-00898D	GH97-00898D
	2	KEY PCB	GH59-00039A	GH59-00039A	GH59-00039A
⑤	3	MIC	GH96-00772A	GH96-00772A	GH96-00772A
⑩	3	DC MOTOR(VIBRATOR)	GH31-00003A	GH31-00003A	GH31-00003A
⑰	3	BUZZER	3002-001064	3002-001064	3002-001064
⑨	2	REAR SHIELD CAN	GH72-00431A	GH72-00431A	GH72-00431A
⑰	2	BUZZER HOLDER	GH73-00047A	GH73-00047A	GH73-00047A
⑫	2	MOTOR SCREW	6003-001085	6003-001085	6003-001085
⑪	2	SHIELD SOFT SPONGE REAR	GH74-00074A	GH74-00074A	GH74-00074A
	2	SHIELD SOFT SPONGE MOTOR	GH74-00074A	GH74-00074A	GH74-00074A
④	2	KEY SHIELD CAN	GH72-00188A	GH72-00188A	GH72-00188A
③	2	MIC HOLDER	GH73-00046A	GH73-00046A	GH73-00046A
	2	MIC DUMMY	GH73-00048A	GH73-00048A	GH73-00048A
⑥	2	SPONGE REAR CONNECTOR	GH74-00094A	GH74-00094A	GH74-00094A
	2	RUBBER CONNECTOR	GH73-00051A	GH73-00051A	GH73-00051A
	2	KEY SHIELD RUBBER	GH73-00073A	GH73-00073A	GH73-00073A
	2	MOTOR SHEET	GH72-00376A	GH72-00376A	GH72-00376A
	2	MOTOR BRACKET	GH71-00068A	GH71-00068A	GH71-00068A
	2	MOTOR RUBBER	GH73-00187A	GH73-00187A	GH73-00187A
	1	Desk Top Charger ASS'Y	GH44-00043A	GH44-00043A	GH44-00043A

Location No.			SEC Code		
			Silver Gray	Black	Champagne Gold
	1	CLIP HANGER (GRAY)	GH75-00223A	GH75-00223E	GH75-00223A
⑭	1	SCREW (M2 X L5)	6001-001148	6001-001148	6001-001148
②	1	KEY PAD	GH72-00443A	GH72-00443A	GH72-00443A
	1	COVER CONNECTOR	GH73-40673F	GH73-40673A	GH73-40673F
⑲	1	ANT. HOLDER	GH73-00094D	GH73-00094A	GH73-00094F
⑰	1	ANTENNA CONNECT	GH97-00961A	GH97-00961A	GH97-00961A
⑳	1	SCREW (M2 X L6)-SHIELD CAN	6002-000145	6002-000145	6002-000145
	1	RUBBER REAR	GH73-00050A	GH73-00050A	GH73-00050A
	1	EAR JACK RUBBER	GH73-00064A	GH73-00064A	GH73-00064A
	1	WINDOW VINYL(OUT)	GH74-00078A	GH74-00078A	GH74-00078A
㉓	1	SEMI FRONT ASS'Y	GH75-00349B	GH75-00349A	GH75-00349C
	2	FRONT COVER	GH72-00144B	GH72-00144A	GH72-00144C
	2	LCD WINDOW	GH72-00180A	GH72-00180A	GH72-00180A
	2	LCD RUBBER	GH73-00045A	GH73-00045A	GH73-00045A
	2	LED CAP	GH72-00182A	GH72-00182A	GH72-00182A
	2	WINDOW VINYL	GH74-00078A	GH74-00078A	GH74-00078A
	2	HINGE ASS'Y	GH75-00046A	GH75-00046A	GH75-00046A
	2	EAR JACK HOLDER	GH72-00148B	GH72-00148A	GH72-00148C
	2	WINDOW BOHO VINYL	GH74-40107A	GH74-40107A	GH74-40107A
	2	WINDOW TAPE	GH74-00109A	GH74-00109A	GH74-00109A
	2	REED S/W SPONGE	GH74-00123A	GH74-00123A	GH74-00123A
⑧		MAIN PBA	GH92-00793A	GH92-00793A	GH92-00793A
⑬		BATTERY	GH43-00023B	GH43-00023A	GH43-00023B
			GH43-00022B	GH43-00022A	GH43-00022B
			GH43-00021B	GH43-00021A	GH43-00021B
⑱		ANTENNA	GH42-00007B	GH42-00007A	GH42-00007B
		EAR CUSHION	GH75-00403B	GH75-00403A	GH75-00403C

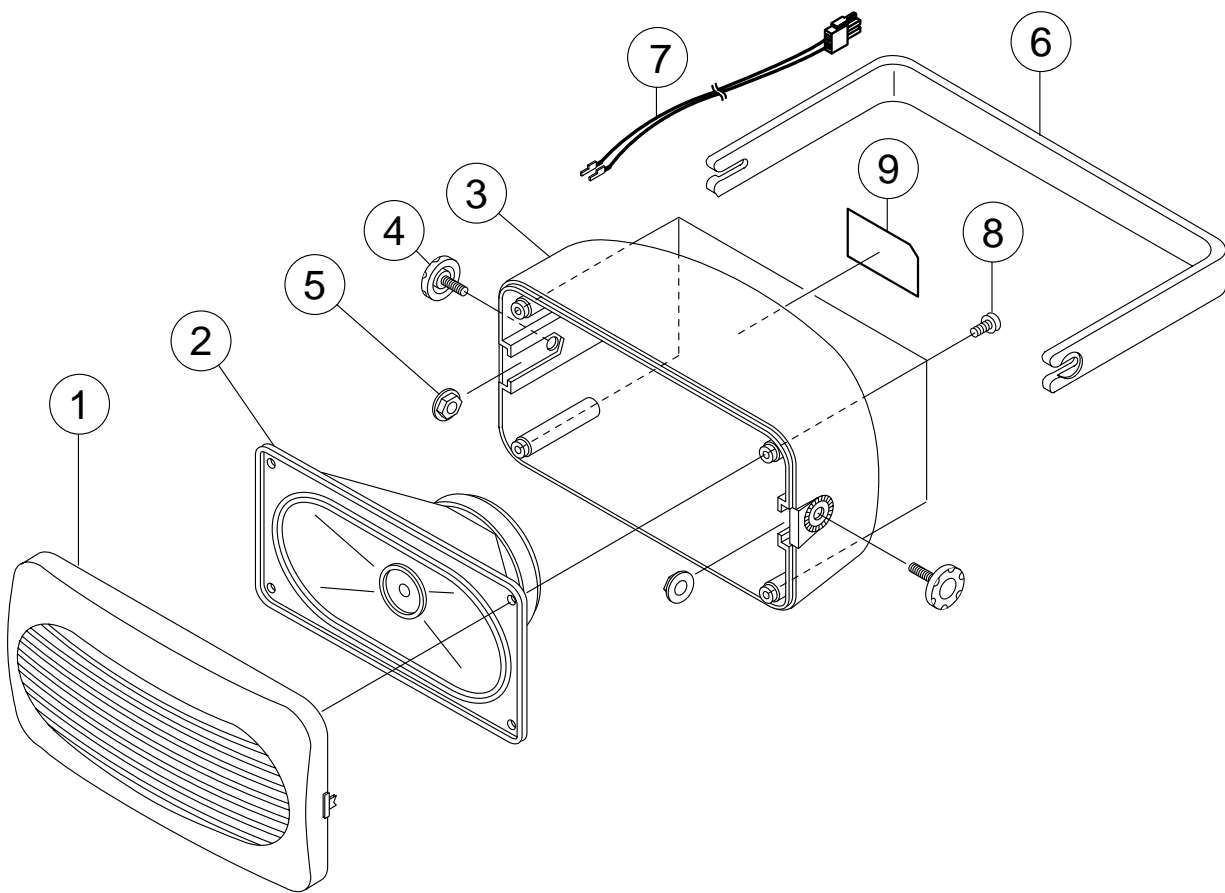
7-4 Desk-Top Rapid charger Exploded View



7-5 Hands-free Kit 1 Exploded View



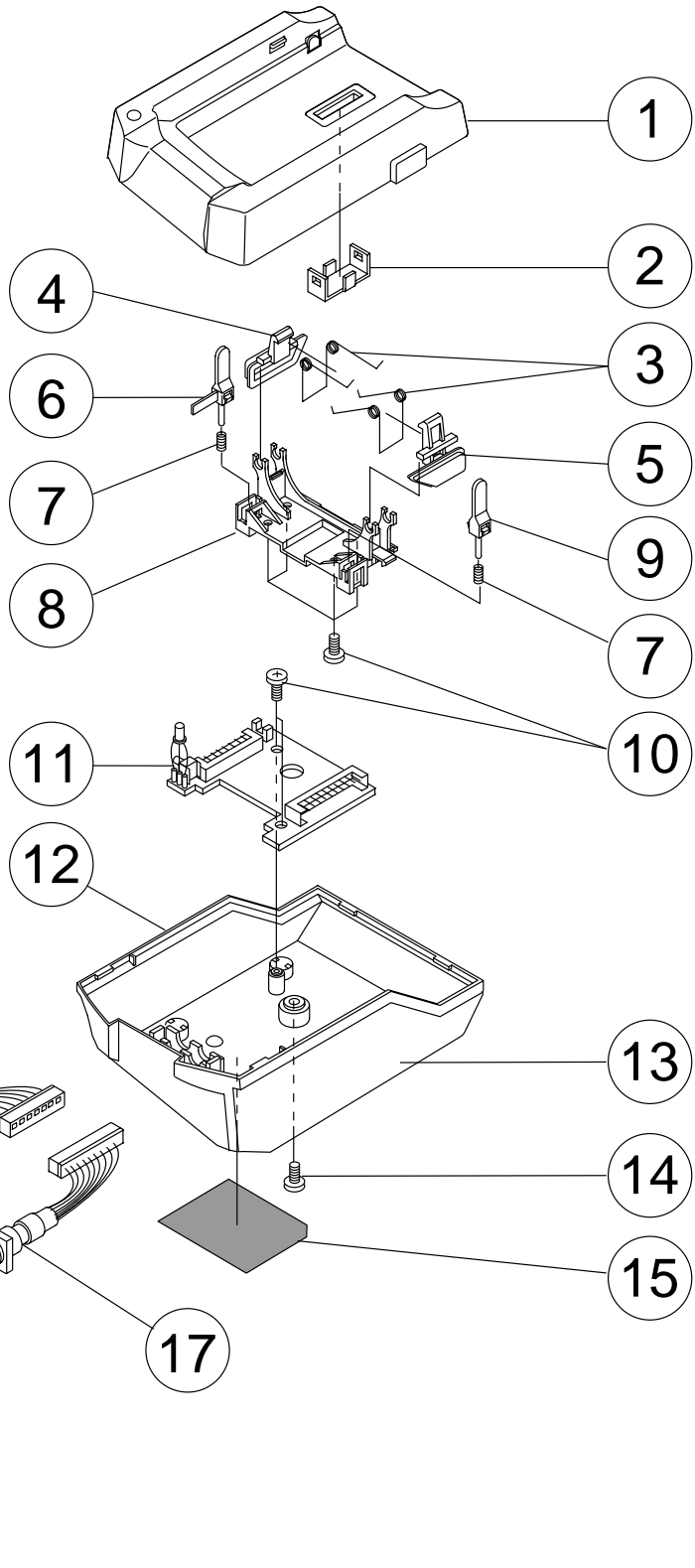
7-6 Speaker Exploded View



No	Description	Q'TY
1	Case. Front	1
2	Speaker	1
3	Case. Rear	1
4	Bolt	2
5	HEX. NUT	2
6	Hamdle	1
7	Speaker wire	1
8	Screw	4
9	Label	1

7-7 Cradle Exploded View

No	Description	Q'TY
1	Cover Top	1
2	Holder Socket	1
3	Spring Lock	2
4	Locker	1
5	Locker	1
6	Eject-A	1
7	Eject Spring	2
8	Frame	1
9	Eject-B	1
10	Screw	6
11	PCB	1
12	SCREW	4
13	Cover Bottom	1
14	Screw	2
15	Label	1
16	I/F coil cord	1
17	Data coil cord	1



8. Electrical Parts List

8-1 Main parts List

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC CODE
1	-	SCREW-MACHINE	"BH,*,M2,L5,ZPC(BLK),SM20C,FDP"	6001-001148
1	-	SCREW-TAPPING	"PH,+,2,M2,L6,ZPC(YEL),SM20C"	6002-000145
1	-	ANTENNA-SCH900	"SCH-900,824-894MHz,-1DBD--3DBD,50ohm"	GH42-00007A
1	-	BATTERY-SCH900(1000)	"3.6V,1000MAH,-,2CMA,4.1V"	GH43-00022A
1	-	CHARGER-SCH611 DTC	"SCH-611,AC/DC,-,110/220V"	GH44-00063A
1	-	LABEL(P)-COLOR	"SCH-611,ART,PI9,100G,BLK"	GH68-00157F
1	-	LABEL(R)-MAIN(ISRL)	"SCH-611,MAT(VOID),39.7X29.8,T0.05,SIL"	GH68-00583A
1	-	LABEL(R)-BARCODE RIBBON 1	"SGH-500,POLYESTER,110X450m,-,BLK"	GH68-00707A
1	-	LABEL(R)-BARCODE RIBBON 2	"SGH-500,POLYESTER,110X450m,-,BLK"	GH68-00708A
1	-	LABEL(P)-MS BAR CODE	"SCH-1900,ART,100X155,T0.1,WHT"	GH68-11057A
1	-	LABEL(R)-BAR CODE	"SP-D300,PR,34X6.5,T0.1,WHT"	GH68-30963A
1	-	PMO-KEY PAD(ISRL)	"SCH-611,PC FOAMING,BLK,-,-"	GH72-00444A
1	-	RMO-RUBBER REAR	"SCH-900,RUBBER,12X12X1.3,BLK,60"	GH73-00050A
1	-	RMO-EAR JACK RUBBER	"SCH-900,RUBBER,9X7X0.8,BLK,70"	GH73-00064A
1	-	RMO-ANT.CAP(BLK)	"SCH-900,SILICON,6X6X9,BLK,50"	GH73-00094A
1	-	RMO-COVER CONNECT	"SPH-6000,SI,17X4.2X5,BLK,80HB"	GH73-40673A
1	-	MPR-WINDOW VINYL	"SCH-900,PE4187,34.6X24XT0.2,TRP,-"	GH74-00078A
1	-	MEC-SIDE KEY	"SCH-900,SEC,IVR"	GH75-00088A
2	-	PMO-SIDE KEY	"SCH-900,ABS,IVR,-,-"	GH72-00181A
2	-	RMO-SIDE KEY RUBBER	"SCH-900,RUBBER,28.65X3.2X2.1,BLK,50"	GH73-00044A
1	-	MEC-CLIP HANGER	"SCH-611,-,BLK"	GH75-00284A
1	-	MEC-LEATHER CASE	"SCH-611,-,BLK"	GH75-00315A
1	-	MEC-EAR CUSHION	"SCH-611,-,BLK"	GH75-00403A
1	-	PBA MAIN-SCH611 MAIN	"SCH-611,HUTCHISON,HONG,MAIN,-,-,-"	GH92-00793A
2	ZD202	DIODE-RECTIFIER	"UPS5819,40V,1.0A,SMT,TP"	0402-001207
2	D301	DIODE-VARACTOR	"1SV279,15V,3nA,USC,TP"	0405-001035
2	D302	DIODE-VARACTOR	"1SV279,15V,3nA,USC,TP"	0405-001035
2	D303	DIODE-VARACTOR	"1SV279,15V,3nA,USC,TP"	0405-001035
2	D304	DIODE-VARACTOR	"1SV279,15V,3nA,USC,TP"	0405-001035
2	ZD201	DIODE-TVS	"SM05,6V/1mA,300,SOT-23"	0406-001005
2	ZD101	DIODE-TVS	"SMS05C,6V,300W,SOT-23-6"	0406-001051
2	ZD102	DIODE-TVS	"SMS05C,6V,300W,SOT-23-6"	0406-001051
2	ZD103	DIODE-TVS	"SMS05C,6V,300W,SOT-23-6"	0406-001051
2	D206	DIODE-ARRAY	"DAN202U,80V,100mA,CA2-3,SC-70,"	0407-000115
2	D207	DIODE-ARRAY	"DAN202U,80V,100mA,CA2-3,SC-70,"	0407-000115
2	D201	DIODE-ARRAY	"DA221,20V,100mA,C2-3,EM3,TR"	0407-001006
2	D202	DIODE-ARRAY	"DA221,20V,100mA,C2-3,EM3,TR"	0407-001006
2	D203	DIODE-ARRAY	"DA221,20V,100mA,C2-3,EM3,TR"	0407-001006
2	D204	DIODE-ARRAY	"DA221,20V,100mA,C2-3,EM3,TR"	0407-001006
2	D205	DIODE-ARRAY	"DA221,20V,100mA,C2-3,EM3,TR"	0407-001006
2	D305	DIODE-ARRAY	"DA221,20V,100mA,C2-3,EM3,TR"	0407-001006
2	D406	DIODE-PIN	"BAR63-02W,50V,100mA,SCD-80,TP"	0409-001016
2	Q303	TR-SMALL SIGNAL	"PNP,200MW,SOT-323,TP,180-390"	0501-000162
2	Q401	TR-SMALL SIGNAL	"NPN,200mW,UMT,TP,180-3"	0501-000218
2	Q205	TR-SMALL SIGNAL	"NPN,200mW,EM3,TP,120-5"	0501-000225
2	Q207	TR-SMALL SIGNAL	"NPN,200mW,EM3,TP,120-5"	0501-000225
2	Q105	TR-SMALLSIGNAL	"PNP,-40V,-32V,-500MA,"	0501-000729
2	Q404	TR-SMALL SIGNAL	"NPN,200mW,SOT-143,TP,"	0501-002060
2	Q402	TR-SMALL SIGNAL	"NPN,200mW,SOT-23,TP,70"	0501-002110
2	Q104	TR-SMALL SIGNAL	"NPN,150mW,SOT-323"	0501-002202
2	Q202	TR-SMALL SIGNAL	"NPN,150mW,SOT-323"	0501-002202
2	Q204	TR-SMALL SIGNAL	"NPN,150mW,SOT-323"	0501-002202
2	Q206	TR-SMALL SIGNAL	"PNP,200MW,SC-70,TP,180-390"	0501-002250
2	Q305	TR-DIGITAL	"NPN,100MW,10K/10K,SSM,TP"	0504-000167
2	Q101	TR-DIGITAL	"NPN,100MW,47K/47K,SSM,TP"	0504-000168
2	Q103	TR-DIGITAL	"NPN,100MW,47K/47K,SSM,TP"	0504-000168
2	Q208	TR-DIGITAL	"NPN,100MW,47K/47K,SSM,TP"	0504-000168
2	Q201	TR-DIGITAL	"PNP,100MW,47K/47K,SSM,TP"	0504-000172
2	Q301	TR-DIGITAL	"PNP,100MW,47K/47K,SSM,TP"	0504-000172

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC CODE
2	Q403	FET-SILICON	"P,6V,20mA,-,100mW,CMFA"	0505-001119
2	Q203	FET-SILICON	"P,-20V,+3.5mA,65mohm"	0505-001165
2	Q304	FET-SILICON	"P,-20V,+3.5mA,65mohm"	0505-001165
2	LED102	LED	"CHIP,Y-GRN,0.8x1.1mm,570nm"	0601-001094
2	LED101	LED	"CHIP,RED,1.2x0.8mm,660nm"	0601-001226
2	U203	IC-CMOS LOGIC	"INVERTER,SSOP,8P,110MIL,T"	0801-000301
2	U101	IC-CMOS LOGIC	"INVERTER,SOT-25,5P,63MIL,"	0801-002192
2	U205	IC-TTL	"MUX/DEMUX,SOP,8P,110MIL,S"	0803-003010
2	U202	IC-DSP	"16BIT,TQFP,64P,400MIL,27"	0904-001280
2	U301	IC-ANALOG MULTIPLEX	"TTL/CMOS,SOP,10P,"	1001-001080
2	U209	IC-POWER DRIVER	"SOP,8P,120MIL,SINGLE,90MA,TP,PLASTIC,-,"	1003-001226
2	U105	IC-EEPROM	"32Kx8BIT,SOP,8P,200MIL,"	1103-001131
2	U103	IC-FLASH MEMORY	"1Mx8BIT,SON,46P,-,100n"	1107-001062
2	U102	IC-ETC. MEMORY	"524Kx16BIT,SOP,48P,400MIL"	1109-001081
2	U305	IC-PREAMP	"SOP,6P,59MIL,SINGLE,-,PL"	1201-001175
2	U405	IC-CASCODE AMP	"SOT-143,4P,-,-2.7V,-,6Vd"	1201-001248
2	U402	IC-AGC AMP	"SOP,8P,4.4MIL,SING"	1201-001257
2	U306	IC-POWER AMP	"LCC,8P,-,SINGLE,-,PLASTI"	1201-001259
2	U303	IC-AGC AMP	"SOP,-,-,SINGLE,-,PLASTIC,"	1201-001261
2	U307	IC-OP AMP	"SOT23-5,5P,63MIL,SINGLE,-,"	1201-001348
2	U308	IC-OP AMP	"SOT23-5,5P,63MIL,SINGLE,-,"	1201-001348
2	U401	IC-OP AMP	"SOT23-5,5P,63MIL,SINGLE,-,"	1201-001348
2	U403	IC-MMIC AMP	"SOT-26,6P,114MIL,SIN"	1201-001384
2	U201	IC-VOLTAGE COMP.	"SSOP,8P,110MIL,DUAL,7V,C"	1202-001022
2	U206	IC-RESET	"SOP,3P,-,PLASTIC,-0.3/6V,4"	1203-000392
2	U211	IC-VOLTAGE REGULATOR	"SOT-23,5P,59MIL,PLASTIC,3"	1203-001256
2	U309	IC-VOLTAGE REGULATOR	"SOT-23,5P,59MIL,PLASTIC,3"	1203-001256
2	U406	IC-VOLTAGE REGULATOR	"SOT-23,5P,59MIL,PLASTIC,3"	1203-001256
2	U409	IC-VOLTAGE REGULATOR	"SOT-23,5P,59MIL,PLASTIC,3"	1203-001256
2	U208	IC-DC/DC CONVERTER	"SOP,16P,4.98MIL,PLASTIC,1"	1203-001386
2	U210	IC-VOLTAGE REGULATOR	"SOP,8P,118MIL,PLASTIC,3.2"	1203-001591
2	U204	IC-ENCODER/DECODER	"QFP,44P,-,PLASTIC"	1204-001375
2	U302	IC-IF CIRCUIT	"LQFP,80P,472MIL,PLAS"	1204-001407
2	U104	IC-DATA COMM./GEN.	"PBGA,196P,590MIL,PLAST"	1205-001517
2	U304	IC-MIXER	"MSOP,8P,190MIL,PLASTIC,"	1205-001535
2	U407	IC-PLL	"CSP,20P,-,PLASTIC,"	1209-001197
2	U410	THERMISTOR-NTC	"10kohm,5%,3650K,-,TP"	1404-001040
2	R140	R-CHIP	"0ohm,5%,1/16W,DA,TP,1608"	2007-000070
2	R218	R-CHIP	"2kohm,5%,1/16W,DA,TP,1005"	2007-000137
2	R103	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R105	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R107	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R109	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R113	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R118	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R144	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R420	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R423	R-CHIP	"100ohm,5%,1/16W,DA,TP,1005"	2007-000138
2	R414	R-CHIP	"220ohm,5%,1/16W,DA,TP,1005"	2007-000139
2	R112	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R121	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R128	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R129	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R137	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R141	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R203	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R204	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R206	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R207	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R217	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R220	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R227	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC CODE
2	R232	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R253	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R327	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R407	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R440	R-CHIP	"1kohm,5%,1/16W,DA,TP,1005"	2007-000140
2	R143	R-CHIP	"2.2kohm,5%,1/16W,DA,TP,1005"	2007-000141
2	R332	R-CHIP	"2.2kohm,5%,1/16W,DA,TP,1005"	2007-000141
2	R430	R-CHIP	"2.2kohm,5%,1/16W,DA,TP,1005"	2007-000141
2	R211	R-CHIP	"2.7kohm,5%,1/16W,DA,TP,1005"	2007-000142
2	R305	R-CHIP	"2.7kohm,5%,1/16W,DA,TP,1005"	2007-000142
2	R101	R-CHIP	"4.7kohm,5%,1/16W,DA,TP,1005"	2007-000143
2	R131	R-CHIP	"4.7kohm,5%,1/16W,DA,TP,1005"	2007-000143
2	R434	R-CHIP	"5.1kohm,5%,1/16W,DA,TP,1005"	2007-000144
2	R239	R-CHIP	"6.8kohm,5%,1/16W,DA,TP,1005"	2007-000146
2	R331	R-CHIP	"6.8kohm,5%,1/16W,DA,TP,1005"	2007-000146
2	R110	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R123	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R132	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R133	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R139	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R224	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R248	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R301	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R302	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R308	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R309	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R311	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R317	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R342	R-CHIP	"10kohm,5%,1/16W,DA,TP,1005"	2007-000148
2	R336	R-CHIP	"12kohm,5%,1/16W,DA,TP,1005"	2007-000149
2	R136	R-CHIP	"15kohm,5%,1/16W,DA,TP,1005"	2007-000151
2	R328	R-CHIP	"15kohm,5%,1/16W,DA,TP,1005"	2007-000151
2	R119	R-CHIP	"20kohm,5%,1/16W,DA,TP,1005"	2007-000152
2	R130	R-CHIP	"20kohm,5%,1/16W,DA,TP,1005"	2007-000152
2	R335	R-CHIP	"20kohm,5%,1/16W,DA,TP,1005"	2007-000152
2	R102	R-CHIP	"22kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R127	R-CHIP	"22kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R138	R-CHIP	"22kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R142	R-CHIP	"22kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R234	R-CHIP	"22kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R252	R-CHIP	"22kohm,5%,1/16W,DA,TP,1005"	2007-000153
2	R215	R-CHIP	"24kohm,5%,1/16W,DA,TP,1005"	2007-000154
2	R238	R-CHIP	"30kohm,5%,1/16W,DA,TP,1005"	2007-000156
2	R241	R-CHIP	"30kohm,5%,1/16W,DA,TP,1005"	2007-000156
2	R104	R-CHIP	"47kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R213	R-CHIP	"47kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R340	R-CHIP	"47kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R425	R-CHIP	"47kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R436	R-CHIP	"47kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	U411	R-CHIP	"47kohm,5%,1/16W,DA,TP,1005"	2007-000157
2	R111	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R146	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R147	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R148	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R149	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R150	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R151	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R152	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R208	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R235	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R247	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R249	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC CODE
2	R250	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R251	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R254	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R255	R-CHIP	"100kohm,5%,1/16W,DA,TP,1005"	2007-000162
2	R209	R-CHIP	"120kohm,5%,1/16W,DA,TP,1005"	2007-000163
2	R205	R-CHIP	"200kohm,5%,1/16W,DA,TP,1005"	2007-000165
2	R401	R-CHIP	"1Mohm,5%,1/16W,DA,TP,1005"	2007-000170
2	L314	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R117	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R122	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R214	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R216	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R223	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R237	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R290	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R312	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R313	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R318	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R319	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R322	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R337	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R341	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R346	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R359	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R416	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R418	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R419	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R431	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R432	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R435	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R437	R-CHIP	"0ohm,5%,1/16W,DA,TP,1005"	2007-000171
2	R406	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R413	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R417	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R424	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R426	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R429	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R433	R-CHIP	"10ohm,5%,1/16W,DA,TP,1005"	2007-000172
2	R212	R-CHIP	"1.5kohm,5%,1/16W,DA,TP,1005"	2007-000242
2	R330	R-CHIP	"270kohm,5%,1/16W,DA,TP,1005"	2007-000636
2	R226	R-CHIP	"3.3Mohm,5%,1/16W,DA,TP,1005"	2007-000690
2	R333	R-CHIP	"39kohm,5%,1/16W,DA,TP,1005"	2007-000831
2	R106	R-CHIP	"470ohm,5%,1/16W,DA,TP,1005"	2007-000932
2	R323	R-CHIP	"750ohm,5%,1/16W,DA,TP,1005"	2007-001156
2	R326	R-CHIP	"750ohm,5%,1/16W,DA,TP,1005"	2007-001156
2	R415	R-CHIP	"82ohm,5%,1/16W,DA,TP,1005"	2007-001217
2	R242	R-CHIP	"36ohm,5%,1/16W,DA,TP,1005"	2007-001294
2	R243	R-CHIP	"36ohm,5%,1/16W,DA,TP,1005"	2007-001294
2	R244	R-CHIP	"36ohm,5%,1/16W,DA,TP,1005"	2007-001294
2	U412	R-CHIP	"51ohm,5%,1/16W,DA,TP,1005"	2007-001298
2	R116	R-CHIP	"150ohm,5%,1/16W,DA,TP,1005"	2007-001306
2	R225	R-CHIP	"180ohm,5%,1/16W,DA,TP,1005"	2007-001307
2	R438	R-CHIP	"910ohm,5%,1/16W,DA,TP,1005"	2007-001317
2	R124	R-CHIP	"1.2kohm,5%,1/16W,DA,TP,1005"	2007-001319
2	R304	R-CHIP	"1.2kohm,5%,1/16W,DA,TP,1005"	2007-001319
2	R412	R-CHIP	"1.2kohm,5%,1/16W,DA,TP,1005"	2007-001319
2	R314	R-CHIP	"1.8kohm,5%,1/16W,DA,TP,1005"	2007-001320
2	R325	R-CHIP	"1.8kohm,5%,1/16W,DA,TP,1005"	2007-001320
2	R339	R-CHIP	"1.8kohm,5%,1/16W,DA,TP,1005"	2007-001320
2	R240	R-CHIP	"3.3kohm,5%,1/16W,DA,TP,1005"	2007-001325
2	R410	R-CHIP	"510ohm,5%,1/16W,DA,TP,1005"	2007-002796
2	R427	R-CHIP	"16OHM,5%,1/16W,DA,TP,1005"	2007-003006

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC CODE
2	R428	R-CHIP	"160OHM,5%,1/16W,DA,TP,1005"	2007-003006
2	R422	R-CHIP	"200HM,5%,1/16W,DA,TP,1005"	2007-003010
2	R228	R-CHIP	"620KOHM,5%,1/16W,DA,TP,1005"	2007-003024
2	R329	R-CHIP	"820KOHM,5%,1/16W,DA,TP,1005"	2007-003029
2	R145	R-CHIP	"3.9KOHM,5%,1/16W,DA,TP,1005"	2007-007001
2	R320	R-CHIP	"3.9KOHM,5%,1/16W,DA,TP,1005"	2007-007001
2	R334	R-CHIP	"3.9KOHM,5%,1/16W,DA,TP,1005"	2007-007001
2	R439	R-CHIP	"9.1KOHM,5%,1/16W,DA,TP,1005"	2007-007013
2	R210	R-CHIP	"43KOHM,5%,1/16W,DA,TP,1005"	2007-007101
2	R245	R-CHIP	"100kohm,1%,1/16W,DA,TP,1005"	2007-007107
2	R403	R-CHIP	"100kohm,1%,1/16W,DA,TP,1005"	2007-007107
2	R402	R-CHIP	"43.2kohm,1%,1/16W,DA,TP,1005"	2007-007108
2	R303	R-CHIP	"13kohm,1%,1/16W,DA,TP,1005"	2007-007131
2	R306	R-CHIP	"15kohm,1%,1/16W,DA,TP,1005"	2007-007132
2	R310	R-CHIP	"39kohm,1%,1/16W,DA,TP,1005"	2007-007134
2	R409	R-CHIP	"27kohm,1%,1/16W,DA,TP,1005"	2007-007138
2	R221	R-CHIP	"47kohm,1%,1/16W,DA,TP,1005"	2007-007139
2	R405	R-CHIP	"47kohm,1%,1/16W,DA,TP,1005"	2007-007139
2	R229	R-CHIP	"200kohm,1%,1/16W,DA,TP,1005"	2007-007334
2	R233	R-CHIP	"200kohm,1%,1/16W,DA,TP,1005"	2007-007334
2	R230	R-CHIP	"330kohm,1%,1/16W,DA,TP,1005"	2007-007573
2	R231	R-CHIP	"68kohm,1%,1/16W,DA,TP,1005"	2007-007589
2	R421	R-CHIP	"68kohm,1%,1/16W,DA,TP,1005"	2007-007589
2	R236	R-CHIP	"39.2kohm,1%,1/16W,-,TP,1005"	2007-007644
2	C362	"C-CERAMIC,CHIP"	"100nF,+80-20%,25V,Y5V,TP,1608,"	2203-000189
2	C105	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C106	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C107	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C108	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C110	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C115	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C121	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C127	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C128	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C135	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C302	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C305	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C317	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C319	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C332	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C334	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C337	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C342	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C354	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C368	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C437	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C438	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C439	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C440	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C448	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C449	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C457	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C462	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C463	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C464	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C467	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C476	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C478	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C479	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C480	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1005"	2203-000233
2	C101	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C109	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC CODE
2	C122	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C126	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C133	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C201	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C208	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C211	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C212	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C254	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C255	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C257	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C258	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C260	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C301	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C303	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C306	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C307	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C308	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C312	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C321	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C322	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C326	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C335	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C340	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C341	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C343	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C346	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C348	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C350	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C355	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C358	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C361	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C363	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C366	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C404	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C425	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C442	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C447	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C455	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C456	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C459	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C460	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C466	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C468	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C469	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C472	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C475	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C483	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C484	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C486	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C487	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C491	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	C492	"C-CERAMIC,CHIP"	"10nF,10%,16V,X7R,TP,1005,-"	2203-000254
2	"C485,C445"	"C-CERAMIC,CHIP"	"0.01nF,0.5pF,50V,NP0,TP,1005"	2203-000278
2	C417	"C-CERAMIC,CHIP"	"0.015nF,5%,50V,NP0,TP,1005"	2203-000386
2	C111	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C117	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C202	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C236	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C249	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C313	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C316	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C323	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC CODE
2	C328	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C329	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C330	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C331	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C333	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C336	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C338	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C339	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C345	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C347	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C349	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C353	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C367	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C409	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C415	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C418	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C421	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C422	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C424	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C426	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C431	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C434	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C436	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C454	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1005,-"	2203-000438
2	C433	"C-CERAMIC,CHIP"	"0.001nF,0.25pF,50V,NP0,TP,1005"	2203-000466
2	C451	"C-CERAMIC,CHIP"	"0.001nF,0.25pF,50V,NP0,TP,1005"	2203-000466
2	C452	"C-CERAMIC,CHIP"	"0.001nF,0.25pF,50V,NP0,TP,1005"	2203-000466
2	C401	"C-CERAMIC,CHIP"	"220pF,10%,50V,X7R,TP,1005,-"	2203-000585
2	C429	"C-CERAMIC,CHIP"	"220pF,10%,50V,X7R,TP,1005,-"	2203-000585
2	C470	"C-CERAMIC,CHIP"	"220pF,10%,50V,X7R,TP,1005,-"	2203-000585
2	C419	"C-CERAMIC,CHIP"	"0.022nF,5%,50V,NP0,TP,1005"	2203-000628
2	C428	"C-CERAMIC,CHIP"	"0.022nF,5%,50V,NP0,TP,1005"	2203-000628
2	C430	"C-CERAMIC,CHIP"	"0.022nF,5%,50V,NP0,TP,1005"	2203-000628
2	C450	"C-CERAMIC,CHIP"	"0.002nF,0.25pF,50V,NP0,TP,1005"	2203-000696
2	C132	"C-CERAMIC,CHIP"	"3.3nF,10%,50V,X7R,TP,1005,-"	2203-000714
2	C473	"C-CERAMIC,CHIP"	"3.9nF,10%,50V,X7R,TP,1005,-"	2203-000725
2	C413	"C-CERAMIC,CHIP"	"0.033nF,5%,50V,NP0,TP,1005"	2203-000812
2	C219	"C-CERAMIC,CHIP"	"0.039nF,5%,50V,NP0,TP,1005"	2203-000854
2	C220	"C-CERAMIC,CHIP"	"0.039nF,5%,50V,NP0,TP,1005"	2203-000854
2	C261	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C310	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C369	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C412	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C416	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C435	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C446	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C461	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C488	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C490	"C-CERAMIC,CHIP"	"4.7nF,10%,25V,X7R,TP,1005,-"	2203-000885
2	C102	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C104	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C120	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C407	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C408	"C-CERAMIC,CHIP"	"470pF,10%,50V,X7R,TP,1005,-"	2203-000940
2	C112	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,1005"	2203-000995
2	C113	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,1005"	2203-000995
2	C114	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,1005"	2203-000995
2	C116	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,1005"	2203-000995
2	C124	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,1005"	2203-000995
2	C203	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,1005"	2203-000995
2	C204	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,1005"	2203-000995
2	C311	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,1005"	2203-000995

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC CODE
2	C315	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,1005"	2203-000995
2	C411	"C-CERAMIC,CHIP"	"0.047nF,5%,50V,NP0,TP,1005"	2203-000995
2	C471	"C-CERAMIC,CHIP"	"0.056nF,5%,50V,NP0,TP,1005"	2203-001072
2	C248	"C-CERAMIC,CHIP"	"6.8nF,10%,25V,X7R,TP,1005,-"	2203-001101
2	C290	"C-CERAMIC,CHIP"	"6.8nF,10%,25V,X7R,TP,1005,-"	2203-001101
2	C228	"C-CERAMIC,CHIP"	"6.8nF,10%,50V,X7R,TP,2012"	2203-001105
2	C229	"C-CERAMIC,CHIP"	"6.8nF,10%,50V,X7R,TP,2012"	2203-001105
2	C231	"C-CERAMIC,CHIP"	"6.8nF,10%,50V,X7R,TP,2012"	2203-001105
2	C232	"C-CERAMIC,CHIP"	"6.8nF,10%,50V,X7R,TP,2012"	2203-001105
2	C119	"C-CERAMIC,CHIP"	"8.2nF,10%,16V,X7R,TP,1005,-"	2203-001210
2	C352	"C-CERAMIC,CHIP"	"8.2nF,10%,16V,X7R,TP,1005,-"	2203-001210
2	C489	"C-CERAMIC,CHIP"	"33nF,10%,16V,Y5V,TP,1005,1.0mm"	2203-001416
2	C123	"C-CERAMIC,CHIP"	"47nF,10%,16V,Y5V,TP,1005"	2203-001432
2	C103	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C125	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C130	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C131	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C207	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C214	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C217	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C218	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C222	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C223	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C225	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C227	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C230	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C242	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C247	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C250	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C251	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C253	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C325	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C327	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C370	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C402	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C405	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C406	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C444	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C474	"C-CERAMIC,CHIP"	"100nF,+80-20%,16V,Y5V,TP,1005"	2203-005061
2	C234	"C-CERAMIC,CHIP"	"1000nF,+80-20%,10V,Y5V,TP,1608"	2203-005065
2	C237	"C-CERAMIC,CHIP"	"1000nF,+80-20%,10V,Y5V,TP,1608"	2203-005065
2	C239	"C-CERAMIC,CHIP"	"1000nF,+80-20%,10V,Y5V,TP,1608"	2203-005065
2	C240	"C-CERAMIC,CHIP"	"1000nF,+80-20%,10V,Y5V,TP,1608"	2203-005065
2	C304	"C-CERAMIC,CHIP"	"0.005nF,0.1pF,50V,NP0,TP,1005"	2203-005393
2	C314	"C-CERAMIC,CHIP"	"0.005nF,0.1pF,50V,NP0,TP,1005"	2203-005393
2	C494	"C-CERAMIC,CHIP"	"0.0033nF,0.1pF,50V,NP0,TP,1005"	2203-005443
2	C427	"C-CERAMIC,CHIP"	"0.003nF,0.1pF,50V,NP0,TP,1005"	2203-005444
2	C495	"C-CERAMIC,CHIP"	"0.003nF,0.1pF,50V,NP0,TP,1005"	2203-005444
2	C420	"C-CERAMIC,CHIP"	"0.0056nF,0.1pF,50V,NP0,TP,1005"	2203-005450
2	C423	"C-CERAMIC,CHIP"	"0.0056nF,0.1pF,50V,NP0,TP,1005"	2203-005450
2	C235	"C-CERAMIC,CHIP"	"220nF,+80-20%,10V,Y5V,TP,1005"	2203-005496
2	C244	"C-CERAMIC,CHIP"	"220nF,+80-20%,10V,Y5V,TP,1005"	2203-005496
2	C243	"C-CERAMIC,CHIP"	"10000NF,+80-20%,6.3V,Y5V,TP,2012"	2203-005571
2	C246	"C-CERAMIC,CHIP"	"10000NF,+80-20%,6.3V,Y5V,TP,2012"	2203-005571
2	C129	"C-TA,CHIP"	"1uF,20%,10V,GP,TP,2012,2,0"	2404-001017
2	C320	"C-TA,CHIP"	"1uF,20%,10V,GP,TP,2012,2,0"	2404-001017
2	C356	"C-TA,CHIP"	"1uF,20%,10V,GP,TP,2012,2,0"	2404-001017
2	C241	"C-TA,CHIP"	"220uF,20%,6.3V,LZ,TP,7132"	2404-001083
2	C493	"C-TA,CHIP"	"4.7uF,20%,6.3V,GP,TP,2012,-"	2404-001086
2	C477	"C-TA,CHIP"	"220nF,20%,20V,GP,TP,2012,-"	2404-001092
2	C245	"C-TA,CHIP"	"68uF,20%,6.3V,GP,TP,4035,-"	2404-001099
2	C213	"C-TA,CHIP"	"33uF,20%,6.3V,GP,TP,3719,-"	2404-001100

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC CODE
2	C351	"C-TA,CHIP"	"33uF,20%,6.3V,GP,TP,3719,-"	2404-001100
2	C233	"C-TA,CHIP"	"1uF,20%,16V,GP,TP,2012,-"	2404-001101
2	C209	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C215	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C216	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C221	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C238	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C252	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C256	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C259	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C309	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C344	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C357	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C364	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C365	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C410	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C414	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C453	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C458	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C465	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C481	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	C482	"C-TA,CHIP"	"10UF,20%,6.3V,GP,TP,2012"	2404-001105
2	L406	INDUCTOR-SMD	"470nH,10%,1.25x2x1.25mm"	2703-000214
2	L307	INDUCTOR-SMD	"680nH,10%,0.8x1.6x0.8mm"	2703-000296
2	L308	INDUCTOR-SMD	"680nH,10%,0.8x1.6x0.8mm"	2703-000296
2	L203	INDUCTOR-SMD	"1uH,10%,0.8x1.6x0.8mm"	2703-000300
2	L305	INDUCTOR-SMD	"1uH,10%,0.8x1.6x0.8mm"	2703-000300
2	L402	INDUCTOR-SMD	"1uH,10%,0.8x1.6x0.8mm"	2703-000300
2	L403	INDUCTOR-SMD	"2.7uH,10%,0.8x1.6x0.8mm"	2703-000301
2	L405	INDUCTOR-SMD	"2.7uH,10%,0.8x1.6x0.8mm"	2703-000301
2	L404	INDUCTOR-SMD	"10nH,5%,1x0.5x0.5mm"	2703-001179
2	L410	INDUCTOR-SMD	"15nH,5%,1x0.5x0.5mm"	2703-001180
2	R404	INDUCTOR-SMD	"2.2nH,0.3nH,1.6x0.8X0.8mm"	2703-001205
2	L418	INDUCTOR-SMD	"8.2nH,10%,1x0.5x0.5mm"	2703-001408
2	L420	INDUCTOR-SMD	"8.2nH,10%,1x0.5x0.5mm"	2703-001408
2	L411	INDUCTOR-SMD	"100nH,5%,1.8x1.12x1.02mm"	2703-001513
2	L301	INDUCTOR-SMD	"68nH,5%,1.8x1.12x1.02mm"	2703-001514
2	L303	INDUCTOR-SMD	"33nH,5%,1.8x1.12x1.02mm"	2703-001543
2	L407	INDUCTOR-SMD	"10nH,5%,1.8x1.12x1.02mm"	2703-001547
2	L201	INDUCTOR-SMD	"10uH,20%,4.45x6.6x2.92mm"	2703-001563
2	L306	INDUCTOR-SMD	"47nH,5%,1.0x0.5x0.5mm"	2703-001595
2	L421	INDUCTOR-SMD	"5.6nH,10%,1.0x0.5x0.5mm"	2703-001708
2	L310	INDUCTOR-SMD	"18nH,5%,1.0x0.5x0.5mm"	2703-001722
2	C403	INDUCTOR-SMD	"27nH,5%,1x0.5x0.5mm"	2703-001726
2	L309	INDUCTOR-SMD	"27nH,5%,1x0.5x0.5mm"	2703-001726
2	L313	INDUCTOR-SMD	"27nH,5%,1x0.5x0.5mm"	2703-001726
2	L414	INDUCTOR-SMD	"8.2nH,5%,1x0.5x0.5mm"	2703-001733
2	L416	INDUCTOR-SMD	"6.8nH,5%,1x0.5x0.5mm"	2703-001734
2	L408	INDUCTOR-SMD	"120nH,2%,2.29x1.73x1.52mm"	2703-001744
2	L417	INDUCTOR-SMD	"39nH,5%,1.0x0.5x0.5mm"	2703-001752
2	L202	INDUCTOR-SMD	"4700UH,20%,4.45X6.6X2.92MM"	2703-001775
2	X101	RESONATOR-CERAMIC	"27MHz,0.5%,TP,2.5X2X1.2"	2802-001104
2	X201	RESONATOR-CERAMIC	"27MHz,0.5%,TP,2.5X2X1.2"	2802-001104
2	OSC1	OSCILLATOR-VCO	"967MHz,-,-,TP,3.3V,-"	2806-001198
2	U408	OSCILLATOR-VCTCXO	"19.68MHz,2ppm,10kohm//10pF,TP,3V,1.5mA"	2809-001221
2	F402	FILTER-SAW	"85.38MHz,0.630MHz,0.3MHz/0.3dB"	2904-001128
2	F404	FILTER-SAW	"967MHz,25MHz,967MHz/0.5dB,TP,9"	2904-001133
2	F301	FILTER-SAW	"836.5MHz,25MHz,+/-25MHz/0.9dB,T"	2904-001135
2	F401	FILTER-SAW	"881.5MHz,25MHz,+/-25MHz/0.9dB,T"	2904-001136
2	F302	FILTER-SAW	"836.50MHz,-,849MHz/1dB,TP,849M"	2904-001138
2	F403	FILTER-DUPLEXER	"881.5MHz,836.5MHz,3.3/2.4DB,TP,824-849MHz"	2909-001094
2	L302	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC CODE
2	L312	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	L401	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	L422	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	L423	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	L424	CORE-FERRITE	"AB,1.6x0.8x0.8mm,-,-"	3301-001105
2	CN401	CONNECTOR-COAXIAL	"SMC,JACK,100mohm,50ohm,0.5dB"	3705-001163
2	CN102	CONNECTOR-SOCKET	"24P,2R,0.5mm,SMD-S,AUF"	3710-001428
2	CN101	CONNECTOR-SOCKET	"18P,1R,0.5mm,SMD-A,AUF"	3710-001429
2	J201	JACK-AC POWER	"2P,2.6PI,AU,BLK,NO"	3722-001172
2	U404	RF POWER SPLITTER	"2WAY,955-979MHz,12dB,-,TP"	4709-001080
2	U207	DISPLAY LCD-SCH611	"SCH-611,UG-12T09-FGHTX-A,BLACK/LIGHT"	GH07-00015A
2	P	PCB-SCH611 MAIN	"SCH-611,FR-4,6LAYER,0.8T,118X138MM"	GH41-00036A
1	-	ELA ETC-EARPHONE	"SCH-2000,SPRINT,USA,20mW,32ohm"	GH96-01124A
1	-	MEA REAR-REAR	"SCH-900,SEC,KORA,BLK,-,-,-"	GH97-00888A
2	-	MEC-REAR	"SCH-900,SEC,BLK"	GH75-00084A
3	-	LABEL(R)-QUALCOMM	"SCH-100F,VINYL,12X6,0.12,TRP"	GH68-30846A
3	-	IPR-SPRING LOCKER MA	"SH-700,STS304,T0.3,-"	GH70-10516A
3	-	NPR-ANT BRACKET	"SCH-2500,ZN GOLD PLT,-,AU"	GH71-00013A
3	-	NPR-SHIELD STRIP(A)	"SCH-1100,C1720S-1/2H,T0.1,GOLD"	GH71-10639A
3	-	NPR-SHIELD STRIP(B)	"SCH-1100,C1720S-1/2H,T0.1,GOLD"	GH71-10640A
3	-	PMO-REAR COVER	"SCH-900,PC,BLK,-,-"	GH72-00145A
3	-	PMO-BATTERY LOCKER	"SCH-900,PC,BLK,-,-"	GH72-00147A
1	-	MEA FRONT-SHIELD FRONT	"SCH-611,-,HONG,TRP,-,-,-"	GH97-00897B
2	-	SPEAKER	".075W,32OHM,104DB+-2DB,-"	3001-001095
2	-	PMO-SHIELD FRONT	"SCH-900,ABS,IVR,-,-"	GH72-00183A
2	-	RMO-LCD UNDER	"SCH-900,RUBBER,32X1.7X0.8,BLK,60"	GH73-00052A
2	-	MPR-SHIELD SOFT FRONT	"SCH-900,SSP-010,11X12X0.5,-,-"	GH74-00073A
1	-	MEA ETC-SHIELD CAN	"SCH-611,-,HONG,TRP,-,-,-"	GH97-00898D
2	-	SCREW-TAPTITE	"CH,+B,M1.7,L3.5,ZPC(BLK),SWRCH18A"	6003-001085
2	-	UNIT-SCH611 KEY PAD	"SCH-611,KBSCHE611,KEY PAD,-,-,-"	GH59-00039A
3	BUZZER	BUZZER-MAGNETIC	"99dB,3.6V,80mA,2630Hz,BK"	3002-001064
3	S/W	SWITCH-REED	"200V,0.5A,500US,200US"	3409-001084
3	CON	CONNECTOR-HEADER	"NOWALL,24P,2R,0.5MM,SMD-S,AUF"	3711-004234
3	MOT	MOTOR-SCH990	"SCH-990,3.0V,-,10-55HZ,-,-"	GH31-00003A
3	MIC	ELA UNIT-SPH8000 MIC ASS'Y	"SPH-8000,-,-,MIC ASS'Y,OB-22L44,-,-"	GH96-00772A
2	-	NPR-MOTOR BRACKET	"SCH-990,STS301,T0.3,-"	GH71-00068A
2	-	PMO-KEY SHIELD CAN	"SCH-900,ABS,IVR,-,-"	GH72-00188A
2	-	PMO-MOTOR SHEET	"SCH-900,PC SHEET,-,-,-"	GH72-00376A
2	-	PMO-REAR SHIELD CAN	"SCH-611,ABS,IVR,-,-"	GH72-00431A
2	-	RMO-MIC HOLDER	"SCH-900,RUBBER,7.2X6.8X4.5,BLK,50"	GH73-00046A
2	-	RMO-BUZZER HOLDER	"SCH-900,RUBBER,11.2X4.6X4.2,BLK,50"	GH73-00047A
2	-	RMO-MIC DUMMY	"SCH-900,RUBBER,6X2.5X0.5,BLK,50"	GH73-00048A
2	-	RMO-RUBBER CONNECTOR	"SCH-900,RUBBER,7X5.5XT1.0,BLK,60"	GH73-00051A
2	-	RMO-KEY SHIELD RUBBER	"SCH-900,RUBBER,12X2XT0.4,BLK,-"	GH73-00073A
2	-	RMO-MOTOR RUBBER	"SCH-990,RUBBER,PI12XT0.3,BLK,-"	GH73-00187A
2	-	MPR-SHIELD SOFT REAR	"SCH-900,SSP-010,18.8X25.8X0.5,-,-"	GH74-00074A
2	-	MPR-SPONGE CONNECTOR	"SCH-900,SPONGE,12X10,BLK,60"	GH74-00094A
1	-	MEA ETC-ANT.LUG	"SCH-900,SEC,KORA,BLK,-,-,-"	GH97-00961A
2	-	NPR-ANT.CONTACT	"SCH-5100,KOR,C1720S-1/2H,T0.1,"	GH71-10728A
2	-	RMO-LCD BOHO RUBBER	"SPH-3400,CR,5X3XT1.4,BLK,60HB"	GH73-40727A
1	-	MEA FRONT-SCH611(ISRL)	"SCH-611,-,ISRL,BLK,-,-,-"	GH97-01452A
2	-	MEC-SUA.FRONT	"SCH-611,-,BLK"	GH75-00273A
3	-	PMO-FRONT COVER	"SCH-900,PC,BLK,-,-"	GH72-00144A
3	-	PMO-EAR JACK HOLDER	"SCH-900,PUR,BLK,-,-"	GH72-00148A
3	-	PMO-LCD WINDOW	"SCH-900,ACRYL,TRP,-,-"	GH72-00180A
3	-	PMO-LED CAP	"SCH-900,ACRYL,M/WHT,-,-"	GH72-00182A
3	-	RMO-LCD RUBBER	"SCH-900,RUBBER,36X28X0.5,BLK,70"	GH73-00045A
3	-	MPR-WINDOW VINYL	"SCH-900,PE4187,34.6X24XT0.2,TRP,-"	GH74-00078A
3	-	MPR-LCD WINDOW FOAM TAPE	"SCH-900,TESA,26.45X36XT0.4,BLK,-"	GH74-00109A
3	-	MPR-REED S/W SPONGE	"SCH-900,EVA SPONGE,12X3,BLK,-"	GH74-00123A
3	-	MCT-WINDOW BOHO	"SH800,3M336,-,-,-"	GH74-40107A
3	-	MEC-HINGE	"SPH-8000,SEC,BLK"	GH75-00046A

Level	Design LOC	ITEMS	DESCRIPTIONS	SEC CODE
4	-	NPR-HINGE SPRING	"SPH-8000,PW1,PI0.6,BLK"	GH71-00011A
4	-	PMO-HOUSING CAP	"SPH-8000,POM,BLK,-,-"	GH72-00059A
4	-	PMO-HINGE CAM	"SPH-8000,POM,BLK,-,-"	GH72-00060A
4	-	PMO-HINGE SHAFT	"SPH-8000,POM,BLK,-,-"	GH72-00061A
4	-	PMO-HINGE HOUSING	"SPH-8000,POM,BLK,-,-"	GH72-00064A
3	-	MEC-SUA.FLIP	"SCH-611,-,BLK"	GH75-00274A
4	-	LABEL(R)-FLIP(BLK)	"SCH-900,PC EMBO,30X4,T0.125,BLK"	GH68-00278A
4	-	LABEL(M)-LOGO BADGE	"SCH-500,NI,20.0X4.4,T0.3,BLK"	GH68-20008A
4	-	PMO-FLIP COVER	"SCH-611,PC,BLK,-,K2261"	GH72-00430A
1	-	PAA MAIN-SCH611	"SCH-611,-,ISRL,-,-,-,-"	GH99-02181A
2	-	LABEL(P)-SEAL	"SP-R912,CRP,65.0x95.0,-,ORG"	GG68-10705A
2	-	CUSHION-CASE MAIN	"SCH-611,HIPS(T0.8),221X174X67"	GH69-00253A
2	-	BOX(P)-UNIT MAIN	"-,SCH-611,IV300+KA210,176X70X226,-"	GH69-00275A
2	-	BOX(P)-CARTON	"-,SCH-611,DW3,368X363X237,-"	GH69-00285A
2	-	CUSHION-COVER	"SCH-611,PVC(T0.5),221X174X10"	GH69-00294A
2	-	BAG-STD BATT.	"PE,T0.06,70X170,SCH-1011"	GH69-30503A

8-2 Desk-top charger parts List (DTC61AB)

No.	Design LOC	DESCRIPTIONS	SPECIFICATION	REMARKS
BOARD ASSEMBLY				
1	IC1	IC PWM P/S TOP222P	DIP 8PIN	
2	IC2	IC OPTO LTV817B	"32V, 50mA,4pin"	
3	U3	IC V.REF KA431LZ	36V 100MA 0.5%	
4	U4	IC V.REF KA431AZ	36V 100MA 1%	
5	U10	MOCOM IC PIC16C711-04/P	"PIC16C711,18PIN DIP"	
6	"D1,2,3,4"	DIODE REC 1N4007	1000V 1A	
7	D8	DIODE SCHOTKY SR560	60V 5A	
8	D5	T.V.S DIODE P6KE200A	600W 200V +/-5%	
9	D6	DIODE UF UF4007	1KV 1A	
10	"LED1,2"	LED ASS'Y	"4PO593A0,(DTC17)"	
11		LED SAM3271	"PHI 3X5,(SAM3271)"	
12	VR1	SEMI-FIXED RES RG06P102 20.0 EVNDJAAO3B13	1kohm 20% TOP 1kohm 25% TOP	
13	L3	CHOKE ASS'Y	1.2UH DR4.5X5.5	
14	"L1,2"	INDUCTOR	DR5X11 S6H 530TS	
15	PTF1	DTC17D TRANS TF17D	MAIN TRANS ASS'Y	
16	"R4,5"	SURGE RESISTOR	1/4W 4.7Mohm	
17	"C1,2"	CAP EL SHL400V10UF	"400V10UF,10X16 85'C"	
18	"C8,11"	CAP EL KMF16V330UF	16V330UF8X12.5 105'C	
19	C4	CAP EL 1SK1C476M05007	"16V 47uF, 5X7 85'C"	
20	"C9,13,24"	CAP EL SE16V47UF6.3X5	"16V 47uF,6.3X5 85'C"	
21	C7	CE.CAP 440LD222	250VAC 222-Y1	
22	TH1	THERMISTOR FTG-310H37	10kohm (25°...)	
23	F1	MICRO FUSE MST0034.6615	"250VAC 1.0A/TR5-T,TUV"	
24	SK1	CONN.HEADER 5267-04A	4PIN (5267-04A)	
25	SK2	CONN.HEADER 5267-03A	3PIN (5267-03A)	
26	MOV1	VARISTOR D6220V30103E01	300V 3KA `VDE`	
27	Q9	TRANSISTOR KTC3198-GR	60V 0.15A TO-92	
28	"Q1,2"	TR. S/W KSD1691Y	60V 5A TO- 126	
29	"FRONT,REAR"	BAT.CONTACT ASS'Y	"4PO590A1,(DTC17)"	
30		P.C.B DTC61AB PCB	"DTC61AB FR-1,1.6T "	

No.	Design LOC	DESCRIPTIONS	SPECIFICATION	REMARKS
SMD ASS'Y				
31	"J12,14-16,18-20, J23,26-30"	CHIP RESI MCR18EZHJ0R0	"0ohm J, 1206"	
32	"R17,18,20,21,22"	CHIP RESI MCR18EZHJ0R0	"0ohm J, 1206"	
33	R2	CHIP RESI MCR18EZHJ1R0	"1ohm F, 1206"	
34	R15	CHIP RESI MCR18EZHJ6R2	"6.2ohm J, 1206"	
35	"R13,32"	CHIP RESI MCR18EZHJ470J	"47ohm J, 1206"	
36	R62	CHIP RESI MCR18EZHJ331	"330ohm J, 1206"	
37	R24	CHIP RESI MCR18EZHJ511	"510ohm J, 1206"	
38	"J21,22,24,25,31,32"	CHIP RESI MCR10EZHJ6650	"665ohm F,0805"	
39	R3	CHIP RESI MCR10EZHJ0R0	"0ohm J, 0805"	
40	R61	CHIP RESI MCR10EZHJ220	"22ohm J, 0805"	
41	"R23,31,56"	CHIP RESI MCR10EZHJ470	"47ohm J, 0805"	
42	R43	CHIP RESI MCR10EZHJ470	"47ohm F, 0805"	
43	"R6,10,39-42"	CHIP RESI MCR10EZHJ3301	"3.3kohm F, 0805"	
	R57	CHIP RESI MCR10EZHJ331	"330ohm J, 0805"	
44	R11	CR10331JM		
45	"R29,36"	CHIP RESI MCR10EZHJ152	"1.5kohm J, 0805"	
46	"R8,33"	CHIP RESI MCR10EZHJ3302	"33kohm F, 0805"	
47	"R55,59,60"	CHIP RESI MCR10EZHJ1001	"1kohm F, 0805"	
48	"R1,46,48"	CHIP RESI MCR10EZHJ1002	"10kohm F, 0805"	
49	"R47,49"	CHIP RESI MCR10EZHJ103	"10kohm J, 0805"	
50	R9	CHIP RESI MCR10EZHJ104	"100kohm J, 0805"	
51	R12	CHIP RESI MCR18EZHJ1911	"1.91kohm F, 1206"	
52	"R7,14,25,27,35,37, 53,54"	CHIP RESI MCR10EZHJ202	"2kohm J, 0805"	
53	R30	CHIP RESI MCR10EZHJ2201	"2.2kohm F, 0805"	
54	"R26,34"	CHIP RESI MCR10EZHJ2201	"2.2kohm F, 0805"	
55	"R28,38"	CHIP RESI MCR10EZHJ471	"750ohm J, 0805"	
56	C5	CHIP RESI MCR10EZHJ564	"560kohm J, 0805"	
57	"C3,17,18,20-23, C25,26,29,30,34"	CHIP RESI MCR10EZHJ2202	"22kohm F, 0805"	
58	C61	CHIP CAPACITOR CM316Y5V224Z50V	"0.22uF Z, 1206"	
59	C6	CHIP CAPACITOR CM21Y5V104Z50AT	"0.1uF Z, 0805"	
60	C14	CHIP CAPACITOR CM21Y5V104Z50AT	"0.1uF Z, 0805"	
61	"C31,33"	CHIP CAPACITOR CS2012COG471J	"50V 470PF J, 0805"	
62	C19	CHIP CAPACITOR GRM40Y5V102Z16T	"50V 0.001uF Z, 0805"	
63	U5	CHIP CAPACITOR CM21Y5V224Z50AT	"50V 0.22uF Z, 0805"	
64	U6	CHIP CAPACITOR GRM42-6Y5V104Z5	"50V 0.1uF Z, 1206"	
65	"D7,9,12"	CHIP CAPACITOR CM21COG101J50AT	50V 100PF J 0805	
66	D11	IC OP-AMP LM324A	32V 1MA SO-14P	
67	"Q4,7"	MUX/DEMUX CD4052BCM	4052	
68	"Q5,8"	DIODE SW RLS245	REC DIODE RLS245	
69	"J8,10,13"	DIODE SW KDS184	"80V/100mA,SOT-23"	
70	"J1,3,5"	TRANSISTOR KTA1504(GR)	".-50/150mA,SOT-23 GR"	
71	J2	TRANSISTOR KTC3875(WY)	35V 150mA SOT-23 Y	
72	J4	JUMP WIRE	0.6PHI 5mm	
73	J7	JUMP WIRE	0.6PHI 7.5mm	
74	SK1(INPUT)	JUMP WIRE	0.6PHI 12.5mm	
75	CASE BOTTOM	JUMP WIRE	0.6PHI 15mm	
76	CASE TOP & BOTTOM	JUMP WIRE	0.6PHI 20mm	
77	CASE BOTTOM	AC POWER CORD ASS'Y	"3PH156A0,(DTC17D-EU)"	
78	CASE TOP & BOTTOM	CASE BOTTOM(DTC17)	"2PO159A0,(PC-VO-BL)"	
79	CASE TOP & BOTTOM	TOP ASS'Y(DTC17D)	"3PO444A0,(PC-VO-BL)"	
80	CASE TOP & BOTTOM	BUMPON	.@10X1.6T	
		SCREW	"VH, T2.6X14,BLK"	
		LABEL	"4PL402A0,(DTC17D)"	
		VINYL SACK	"4PO-394,130X300X.05"	

8-3 Hands-Free Kit Part List

No.	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
1	UPPER C/D	FOR CRADLE		
2	LOWER C/D	FOR CRADLE		
3	FRAME	FOR CRADLE		
4	HOLDER SOCKET	FOR CRADLE		
5	LOCKER	FOR CRADLE		
6	EJECTOR	FOR CRADLE		
7	SPRING LOCK	FOR CRADLE		
8	SPRING EJECT	FOR CRADLE		
9	HOLDER C/D	FOR CRADLE		
10	COVER GATE	FOR CRADLE		
11	SCREW	#2 BT 2.6x6B		
12	SCREW	BM 3x6B		
13	SCREW	#2 BT 2x8Y		
14	CASE CONN UPPER	FOR CONNECTOR JACK		
15	CASE CONN LOWER	FOR CONNECTOR JACK		
16	BUTTON PUSH	FOR CONNECTOR JACK		
17	CURL CORD ASS'Y	FOR CONNECTOR JACK		
18	CONNECTOR	FOR CONNECTOR JACK		
19	SPRING PLATE	FOR CONNECTOR JACK		
20	CABLE DATA ASS'Y	HIROCE 15P		
21	SCREW	#2 FT2x6B		
22	CASE UPPER	CONTROL BOX CASE		
23	CASE LOWER	CONTROL BOX CASE		
24	BRACKET INSTALL	CONTROL BOX CASE		
25	RIVET	CONTROL BOX CASE		
26	HEAT SINK	CONTROL BOX CASE		
27	SCREW	#2 PS 3x6 Y		
28	SCREW	#2 PS 3x12 B		
29	CASE UPPER	MICROPHONE		
30	CASE LOWER	MICROPHONE		
31	SPRING FIXING	MICROPHONE		
32	SCREW	#1 FT 2x8 B		
33	CABLE MIC	1P+1SCHIELD WIRE+PLUG		
34	CUSHION MIC.	MICROPHONE		
35	MIC CONDENSOR	CMP-68(NP)		
36	CABLE POWER	4P, RED-BLK-YLW-WHITE		
37	LABEL	FOR CRADLE		
38	LABEL	FOR CONTROL BOX		
39	LABEL	FOR SPEAKER		
40	LABEL BAR CODE	FOR SERIAL NO.		
41	LABEL BAR CODE	FOR PRODUCT		
42	MANUAL	4-COLOR PRINT		
43	POLYBAG	15x27, PE		
44	POLYBAG	6x9, PE		
45	CABLE TIE	80mm		
46	POWER LOG	ø6		
47	SCREW	#1 BT4x16B		
48	SCREW	PM 4x6B		
49	BOX ACCESSORY	FOR ACCESSORY ASS'Y		
50	UNIT BOX	FOR PACKING		
51	PACKING PAD	FOR PACKING		
52	OUTER BOX	FOR PACKING		
53	CASE FRONT	FOR EXTERNAL SPEAKER		
54	CASE REAR	FOR EXTERNAL SPEAKER		
55	HANDLE SPEAKER	FOR EXTERNAL SPEAKER		
56	BOLT	FOR FIXING HANDLE		
57	HEX. NUT	WITH WASHER		
58	SPEAKER	LEEWON 9050F		
59	SPEAKER WIRE	2P		
60	SCREW	#1 PT 3x12B		
61	LABEL			
62	LABEL 3 SORTS			

No.	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
1	ZD201, ZD202	ZENER DIODE		
2	ZD1	TVS DIODE		
3	D5, D7, D101, D102	DIODE		
4	D1, D2, D3	DIODE		
5	D100	DIODE		
6	R278	RESISTOR		
7	R9	RESISTOR		
8	R8	RESISTOR		
9	R3, R13, R131	RESISTOR		
10	R51, R52, R139, R272	RESISTOR		
11	R279	RESISTOR		
12	R137, R138	RESISTOR		
13	R31, R32, R225, R251, R257, R270	RESISTOR		
14	R132	RESISTOR		
15	R213, R217, R228, R229, R230, R231	RESISTOR		
16	R271	RESISTOR		
17	R1, R7, R112	RESISTOR		
18	R18	RESISTOR		
19	R12	RESISTOR		
20	R38, R110, R113, R117, R119, R268 R275	RESISTOR		
21	R57, R233, R248	RESISTER		
22	R5, R10, R17, R20, R23, R27 R30, R33, R41, R44 R45, R46, R55, R56, R100. R104, R108, R109, R111, R115, R116, R120, R122, R123, R124, R135, R201, R202, R203, R204, R205, R207, R208, R210, R211, R212, R215, R252, R253, R254, R255, R258, R260, R266, R270, R274, R276, R114	RESISTER		
23	R269	RESISTER		
24	R102	RESISTER		
25	R43	RESISTER		
26	R54, R267	RESISTER		
27	R19, R128, R266	RESISTER		
28	R24	RESISTER		
29	R106, R107, R121, R127, R277	RESISTER		
30	R16, R126	RESISTER		
31	R40, R222, R223, R224	RESISTER		
32	R4, R21, R37, R101, R105 R136, R140, R259, R273	RESISTER		
33	R133, R134	RESISTER		
34	R227	RESISTER		
35	R216, R226	RESISTER		
36	R36, R42, R53, R103, R125, R129 R141, R214, R261	RESISTER		
37	R26	RESISTER		
38	R39	RESISTOR		
39	R29	RESISTOR		
40	R14	RESISTOR		
41	R50	RESISTOR		
42	L6	RESISTOR		

Electrical Parts List

No.	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
43	VR1	VAR. RESISTOR	0.2 ohm/1W-J-DIP	
44	C255, C256	ELEC. CAPACITOR	MVR32 5K	
45	C257	ELEC. CAPACITOR	0.47UF/50V (5*11)85°C	
46	C15, C204, C205, C206, C259	ELEC. CAPACITOR	2.2UF/16V (5*11)85°C	
47	C104	ELEC. CAPACITOR	10UF/16V (5*11)85°C	
48	C106	ELEC. CAPACITOR	10UF/25V (5*11)85°C	
49	C258	ELEC. CAPACITOR	22UF/35V (5*11)85°C	
50	C207	ELEC. CAPACITOR	47UF/16V (5*11)85°C	
51	C1	ELEC. CAPACITOR	100UF/35V (6.3*11)85°C	
52	C7, C18, C23, C29, C40, C43, C45, C260	ELEC. CAPACITOR	470UF/16V (8*11.5)85°C	
53	C4	ELEC. CAPACITOR	470UF/35V (10*18)85°C	
54	C221	TAN. CAPACITOR	4.7UF/16V (5*11)85°C	
55	C32, C101, C105, C107, C108, C109, C110, C111, C112, C111133,, C114, C115, C1116, C117, C118, C119, C201, C202, C215, C216, C217	CERAMIC CAPACITOR	CH 2012 B330P-J (330)	
56	C17	CERAMIC CAPACITOR	CH 2012 B470P-K (471)	
57	C5, C25, C209, C218, C222, C223, C261	CERAMIC CAPACITOR	CH2012 B102-K (102)	
58	C250	CERAMIC CAPACITOR	CH 2012 B152-K (152)	
59	C100	CERAMIC CAPACITOR	CH 2012 B103-K (103)	
60	C219, C220	CERAMIC CAPACITOR	CH 2012 B472-K (472)	
61	C2, C3, C6, C13, C14, C16, C22, C24, C26, C30, C31, C41, C42, C44, C46, C103, C120, C121, C2224, C226, C228, C237, C238, C239, C241, C242, C243, C244, C245, C246, C247, C248, C249, C251, C252, C253, C254, R209	CERAMIC CAPACITOR	CH 2012 B104-Z (104)	
62	C208, C213	CERAMIC CAPACITOR	CH 2012 B105-Z (105)	
63	C263	CERAMIC CAPACITOR	CH 3216 B104-Z (104)	
64	C262	CERAMIC CAPACITOR	CH 2012 B224-Z (224)	
65	L2	INDUCTOR (COIL)	220UH (18ø)	
66	L4	INDUCTOR (COIL)	220UH (13ø)	
67	L1	INDUCTOR (COIL)	10UH	
68	L3	INDUCTOR (COIL)	20UH	
69	J100	CONNECTOR-DATA	20P (RP13A-12RC-20PB)	
70	J201	MIC JACK	TC38-001-01	
71	J203 FOR SPEAKER	CONNECTOR-SPEAKER	LAD-1140-02 (2 PIN)	
72	J1	CONNECTOR-POWERR	LAD-1140-04 (4 PIN)	
73	Q20, Q21	TRANSISTOR	B772-DIP	
74	Q1, Q2, Q6, Q11, Q12, Q13, Q14, Q15, Q16, Q100, Q101, Q102, Q103, Q104, Q105, Q107, Q108, Q109, Q110, Q208	TRANSISTOR	KST2222A - CHIP	
75	Q3, Q8, Q106, Q202	TRANSISTOR	KST2907A - CHIP	
76	Q4, Q5	FET	IRF9540 OR 2SJ176 - DIP	
77	BT201	X-TAL	I2.288Mhz - DIP	
78	BT100	RESONATOR	3.58Mhz - DIP	
79	U201, U207	IC	LM358 - CHIP	
80	U202	IC	AD1845 - CHIP	
81	U204	IC	ADSP-2176 - CHIP	
82	U205	IC	74111C14D - CHIP	

No.	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
83	U206	IC 93C66 - CHIP		
84	U208	IC HEF4051B - CHIP		
85	U100	IC PIC6C73 - CHIP		
86	U1	IC NJM2360 OR KA34063 - CHIP		
87	U4	IC LM2576 - DIP		
88	U2	IC LM7805 - CHIP		
89	U3	IC LP2951CM		
90	U5	IC LM3403 - CHIP		
91	U101	IC LM2904 - CHIP		
92	S201	SWITCH TACT SWITCH		
93	U209	IC TDA1905 - DIP		
94	P.C.B	MAIN PCB SCH 811		

No.	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
1	MIC ASS'Y	CMP-68		
2	SPEAKER ASS'Y	4 ohm 5W		
3	POWER CABLE	4 PIN POWER CABLE ASS'Y		

No.	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
1	R1	RESISTOR CH 2012 330 ohm-J 5%		
2	R2	RESISTOR CH 2012 2.2K-J 5%		
3	R3	RESISTOR CH 2012 1K-J 5%		
4	R5	RESISTOR CH 2012 15K-J 5%		
5	C2,C3,C4,C5	ELEC-CAPACITOR 470uF/10V 85 °C		
6	S1	TACT SW 2 PIN TACT SW		
7	J1	CONNECTOR WAFER 13 PIN 2mm PITCH ANGLE		
8	J2	CONNECTOR WAFER 15 PIN 2mm PITCH ANGLE		
9	IS01	PHOTO INT. SG215 - DIP		
10	RT1	THERMISTOR C103JF4C (10K 1%)		
11	J3(LED SOCKET)	CONNECTOR WAFER 3 PIN 2.5 mm		
12	LED1	LED(LED TACK) 3 , 3 COLOR		
13	COILD CORD CABLE	13 PIN 2mm PITCH ANGLE 13 PIN 2mm PITCH ANGLE		
14	DATA CABLE	15 PIN 2mm PITCH ANGLE 15 PIN 2mm PITCH ANGLE		
15	P.C.B	SUB PCB SCH-611 SUB PCB SCH-611		

8-4 Travel charger Parts List

No.	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
1	U2	IC OPTP	LTV817V	
			TLP621GRH	
2	U1	IC PWM P/S	TOP222P	
3	U4	IC V.REF TO -92	KA431AZ	
			TL431ACLP	
			KIA431	
4	D1, 2, 3, 4	DIODE REC	1N4007	
5	D21	DIODE SCHOTKY	SR560	
			SR560	
6	D7, 20	DIODE SW	RLS4148	
7	D5	T.V.S DIODE	P6KE160A	
			P6KE1600A	
8	D6	DIODE UF	UF40007	
			UF4007	
9	D24	DIODE ZENER	RLZJ4.3	
10	LED	LED CONNECTOR	352111-0310	
11	LED		ALL-153GW	
12	MOV1	VARISTOR	D6220V300RA65	
		M.O.V	TNR12G471K	
13	VR1	SEMI-FIXEED RES	RG06P102	
14	L1, 2	INDUCCTOR		
15	PTF1	SGH500 TRANS	SCH500	
16	L20	CHOKE ASS'Y		
17	R4, 5	SURGE RESISTOR	PPSR0.5W	
18	C1, 2	CAP EL	SHL400V10UF	
19	C22	CAP EL	KMF16V330UF	
20	C21	CAP EL	AG10V1000UF	
21	C4, 20, 24	CAP EL	1SK1C476M05007	
22	C8	CE. CAP	440DL472	
			SDE472M	
23	C3	CE. CAP	ECSL3A220K06BS5	
24	C6	MY. CAP	S/M2A152J	
25	TH	THERMISTOR	FTG-310H37	
26	F1	MICRO FUSE	MST	
27	SK2	CONN. HEADER	5267-04A	
28	Q7	S.S. TR	KTA1273	
29	R2	CHIP RESI	MCR18EZHZJ6R2	
30	R14, 15, 16	CHIP RESI	MCR18EZHJ1R0	
31	JP1, 2, 3	CHIP RESI	MCR18EZHJ0R0	
			CR180R0JM	
32	R66, 67	CHIP RESI	MCR18EZHJ511	
			CR18511JM	
33	JP4, 5	CHIP RESI	MCR10EZHJ0RO	
34	R57	CHIP RESI	MCR10EZHJ1501	
			CR10150FM	
35	R58	CHIP RESI	MCR10EZHJ2201	
			CR102201FM	
36	R17	CHIP RESI	MCR10EZHJ470	
			CR10470JM	
37	R1	CHIP RESI	MCR18EZHJ103	
			CR18103JM	
38	R59	CHIP RESI	MCR10EZHJ102	
39	C23	CHIP CAPACITOR	CM21COG331J50AT	
40	C5	CHIP CAPACITOR	CM316Y5V224Z50AT	
41	C25, 26, 27, 28, 29, 30	CHIP CAPACITOR	CM21Y5V104Z50AT	
42	U3	IC HYBRID	AH1504F	
43	MICOM IC		PIC16C711	
44	P.C.B		TC30	
45	AC PLUG ASS'Y			
46	PLUG TERMINAL			
47	CONTACT TERMINAL			

No.	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
48	CONTACT TERMINAL			
49	CASE BOTTOM			
50	CASE TOP			
51	SCREW			
52	SCREW			
53	OUTPUT CABLE ASS'Y	AXR324100201		
54	LABEL			
55	CARTON BOX			
56	MAIN BOARD			
57	CARD BOARD(A)			
58	CARD BOARD(B)			
59	PAD			
60	VINYL SACK			

8-5 Cigarette Lighter Adaptor Parts List

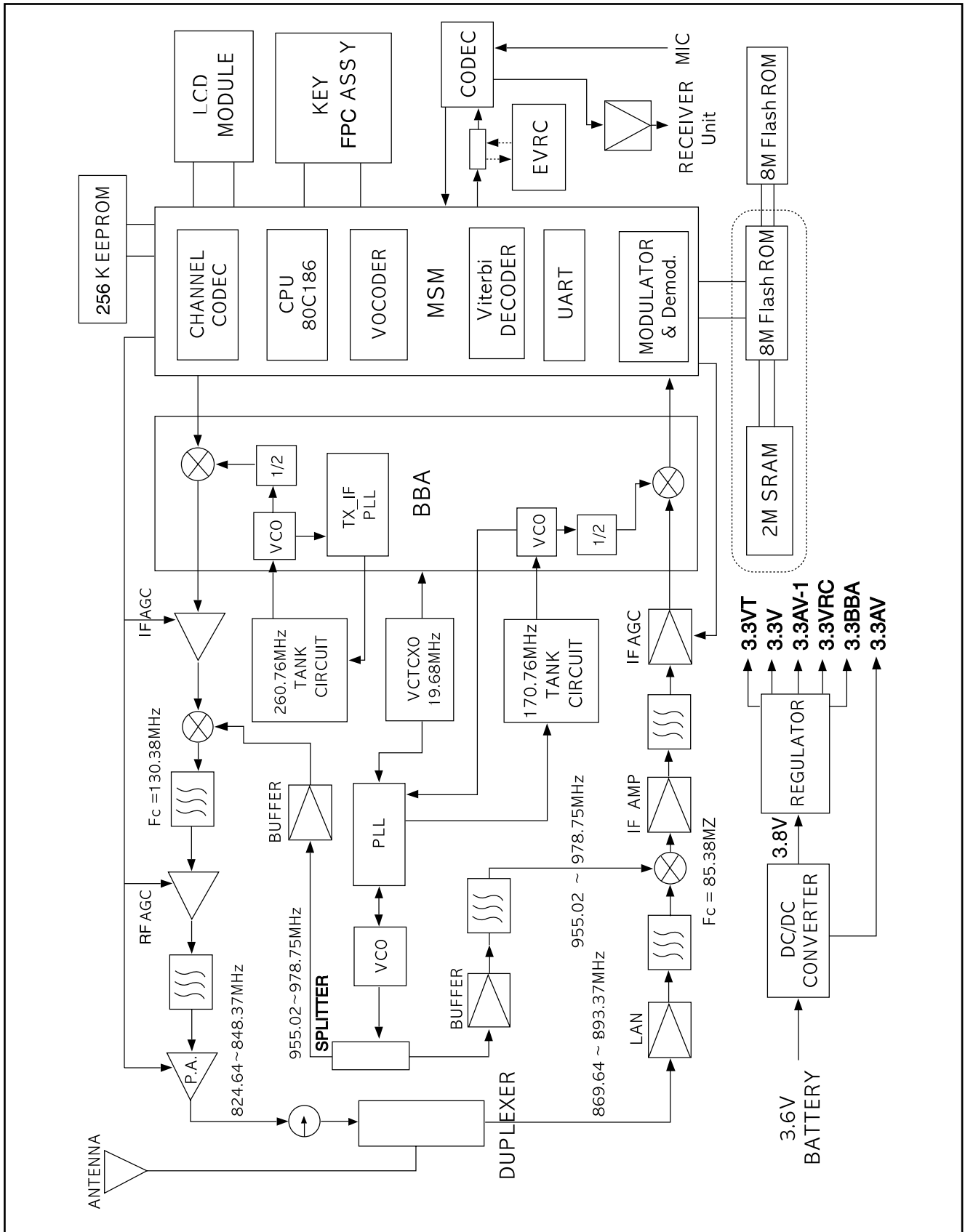
No.	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
1	C6, C9	CERAMIC CAPACITOR	CL21B04JBNC5/0.1U	
2	C3	CERAMIC CAPACITOR	CL21B103JBNC5/0.01U	
3	C5, C10	CERAMIC CAPACITOR	CL21B224JBNC5/0.22U	
4	D7	CHIP DIODE	KDS181	
5	D5, D6	CHIP DIODE	KDS184	
6	R21	CHIP RESISTOR	RC1608J102CS/1K OHM	
7	R111, R12, R22, R34	CHIP RESISTOR	RC1608J104CS/100K OHM	
8	R31	CHIP RESISTOR	RC1608J134CS/130K OHM	
9	R33	CHIP RESISTOR	RC1608J182CS/1.8K OHM	
10	R15	CHIP RESISTOR	RC1608J222CS/2.2K OHM	
11	R29	CHIP RESISTOR	RC1608J272CS/2.7K OHM	
12	R35	CHIP RESISTOR	RC1608J304CS/300K OHM	
13	R13	CHIP RESISTOR	RC1608J333CS/33K OHM	
14	R14	CHIP RESISTOR	RC1608J335CS/3.3M OHM	
15	R5	CHIP RESISTOR	RC1608J392CS/3.9K OHM	
16	R16, R17	CHIP RESISTOR	RC1608J431CS/430 OHM	
17	R27	CHIP RESISTOR	RC1608J432CS/4.3K OHM	
18	R6, R24	CHIP RESISTOR	RC1608J562CS/5.6K OHM	
19	R7, R18, R19, R20, R26, R28, R30, R32	CHIP RESISTOR	RC1608J912CS/9.1K OHM	
20	Q3, Q5, Q7, Q9, Q10, Q11	CHIP TRANSISTOR	KSR1104/NPN	
21	Q4, Q8	CHIP TRANSISTOR	KSR2104	
22	Q1, Q6	CHIP TRANSISTOR	KTA1504	
			INSERT ASS'Y	
23	J1	7 PIN CONNECTOR	GILS-7P-S2T2-EF	
24	L1	CHOKE COIL	RF-300/300UH	
25	D2, D4	SCHOTTKY DIODE	1N5819	
26	D1	TRANSIENT DIODE	P6KE36A	
27	U4	DIODE	KA431	
28	C7	ELECT CAPACITOR	CESSL1C100MAAT/10U16V	
29	C2, C4	ELECT CAPACITOR	105°C	
30	C1	ELECT CAPACITOR	CESSL1C331MAAT/330U16V	
31	F1	FUSE	105°C	
32	U1	ADJUST REGULATOR	CESSX1V101MAAT/100U35	
33	U2	I.C.	V 105°C	
34	U3	O.P AMP	250V/2A	
35	LED 1, 2	O.P AMP(14P)	LM2576T-ADJ	

Electrical Parts List

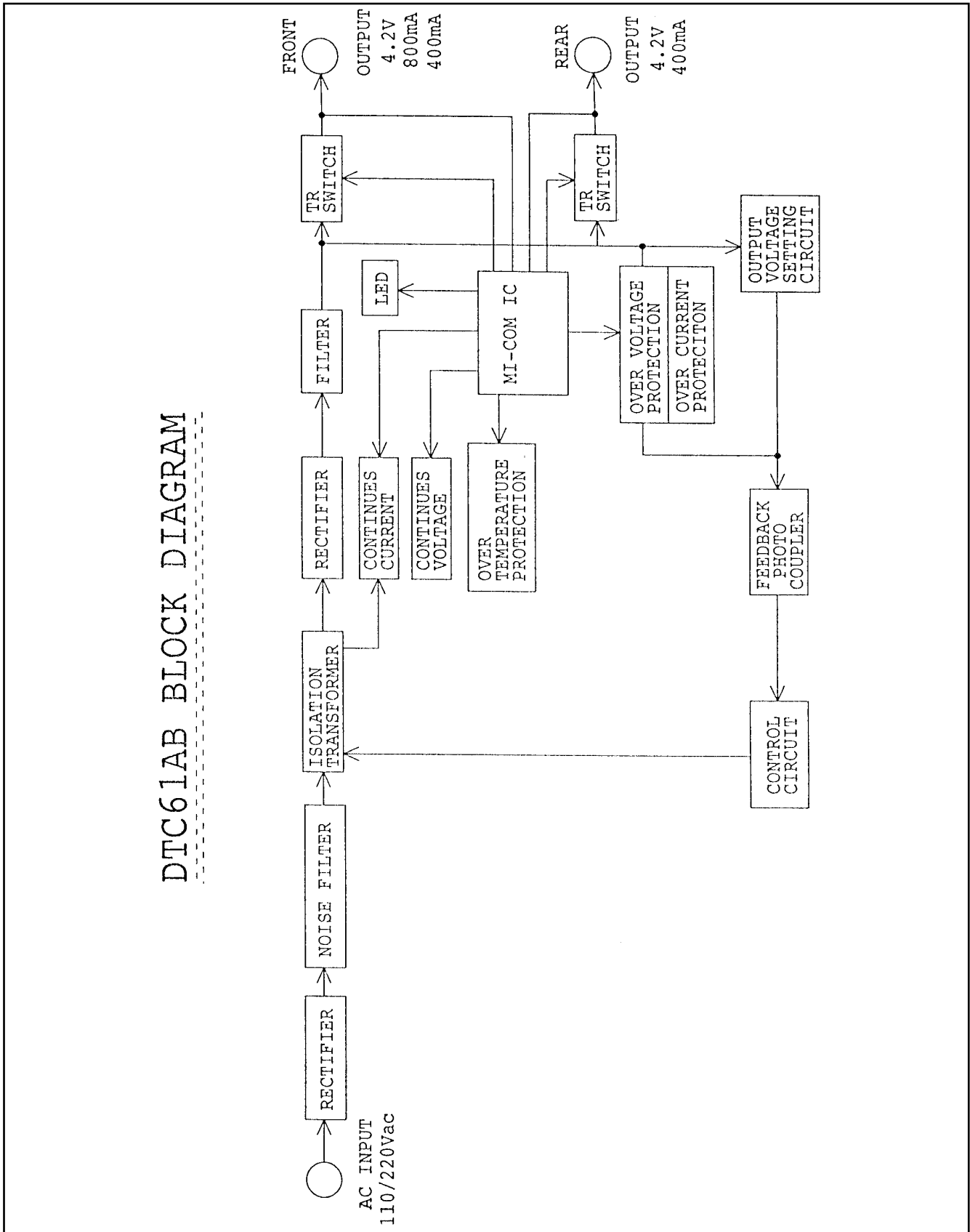
No.	Design LOC	DESCRIPTIONS	SEC CODE	REMARKS
36	R4	DUALL COLOR LED	KA358D	
37	R2	LAMP	KA324D	
38	R1	CARBON FILM	SAM3270	
39	R3	RESISTOR	0.5 OHM 11/2W	
40	VR1	CARBON FILM	11K OHM 1/4W	
		RESISTOR	470 OHM 1/4W	
41	CURL CORD ASS'Y	CARBON FILM	680 OHM 1/4W	
42	CLA PCB	RESISTOR	1K OHM/VOLUME/GF06P	
43	OUTER GND	CARBON FILM	ELECTRIC ASS'Y	
44	WIREJUMPER	RESISTOR	7 PIN/MQ179	
45	UPPER COVER	V. RESISTOR	FR-4 (T=1.6)	
46	LOWER COVER		1.68PIE/25MM	
47	FUSE COVER		PC/BLACK	
48	OUTER SPRING		PC/BLACK	
49	POWER CONTACT		PC/BLACK	
50	SPRING		CLA OUTER SPRING	
51	FUSE HOLDER		CLA POWER CONTACT	
52	FUSE PLATE		CLA	
53	UPPER+LOWER		FUSE HOLDER/CLA	
			FUSE PLATE/CLA	
54	HANISHELL		+PH (2.6x14-2S) BLACK	
55	OUT BOX		CLA010A	
56	CURRUGATED PAD		PACKING ASS'Y	
57	CLA SPONGE	TAPPING SCREW		
		NAME LABEL	CARTON BOX	
			CLA CORRUGATED PAD	

9. Block Diagrams

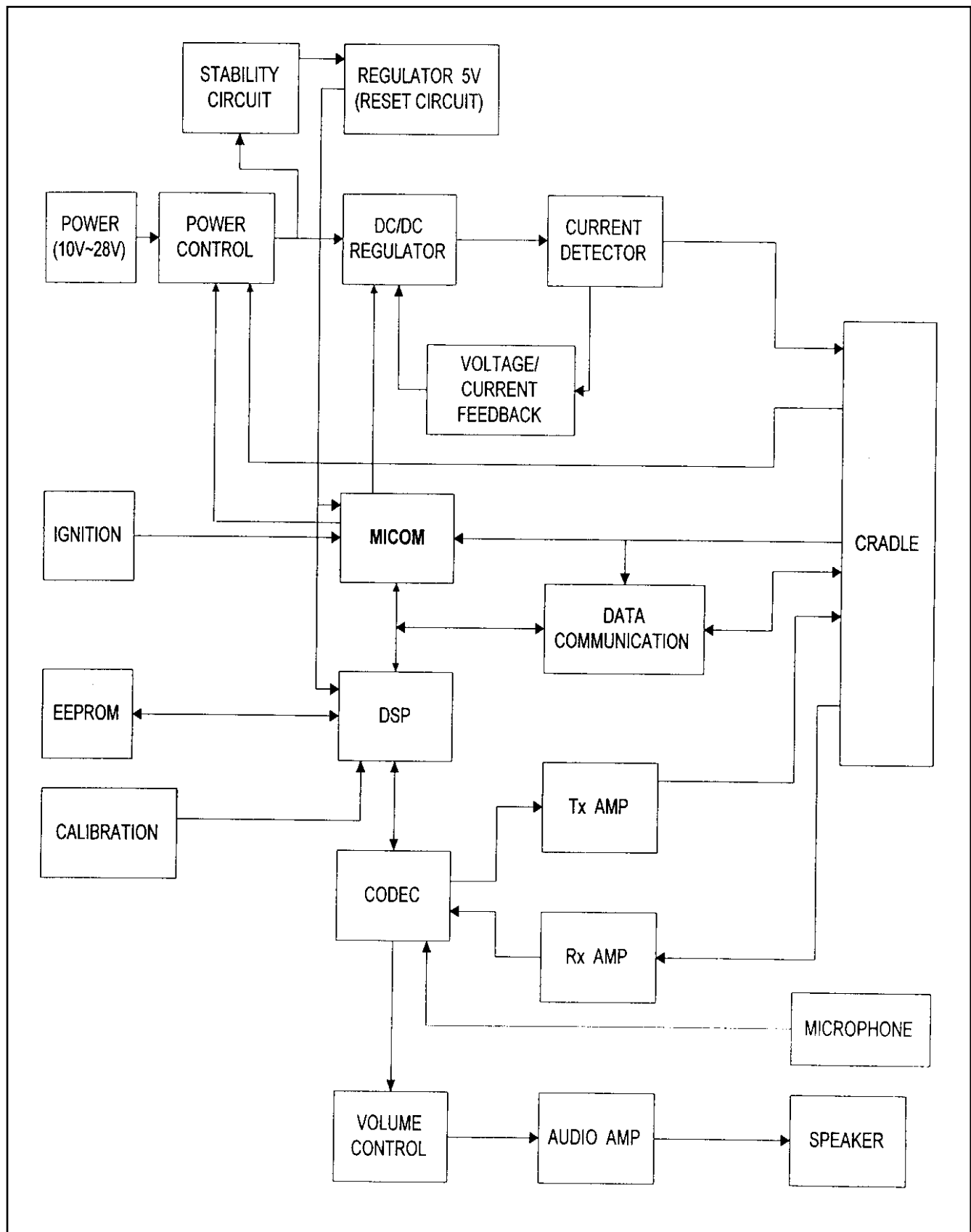
9-1 Main Block Diagram



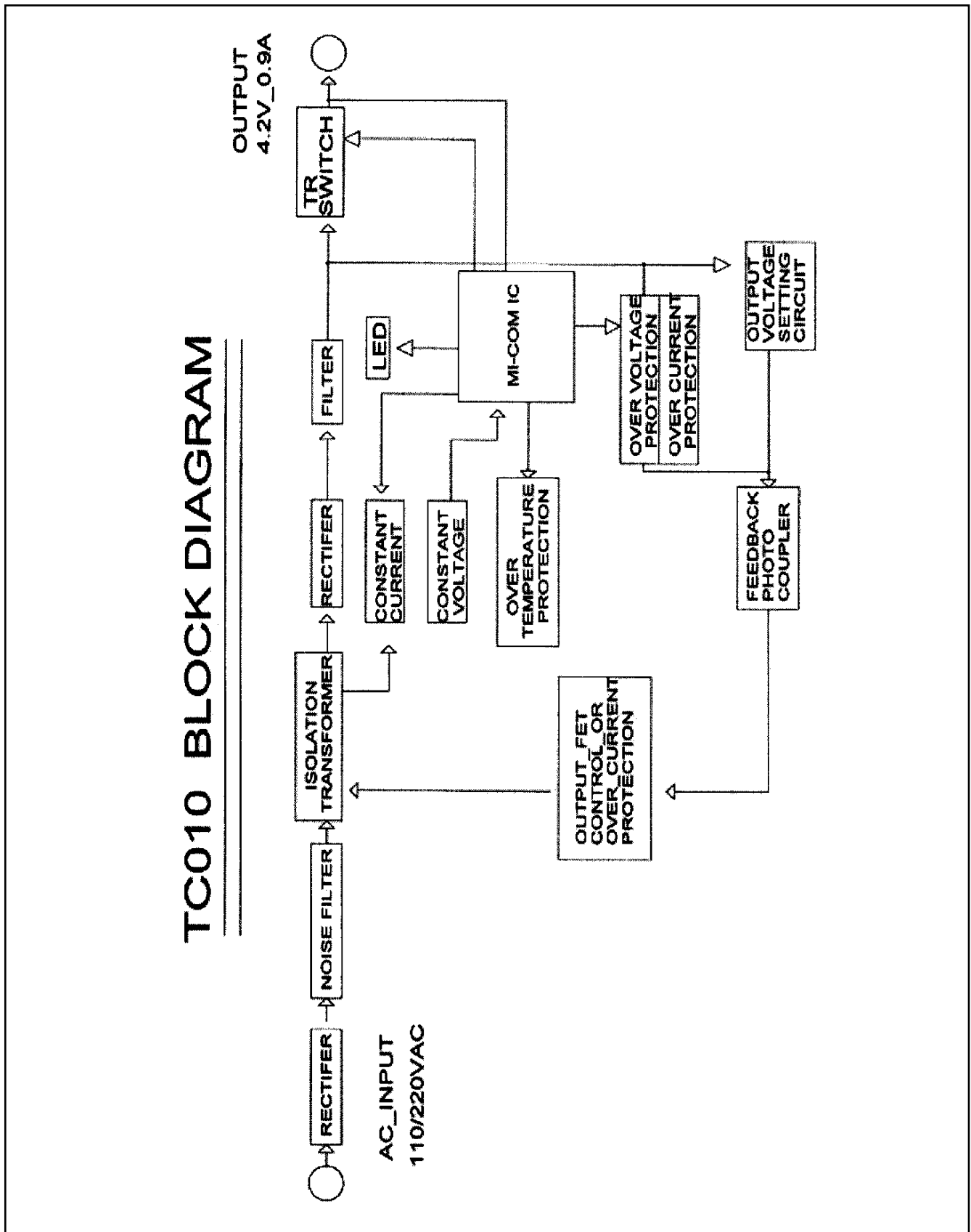
9-2 Desk-top charger Block Diagram



9-3 Hands-Free Kit 1 Block Diagram

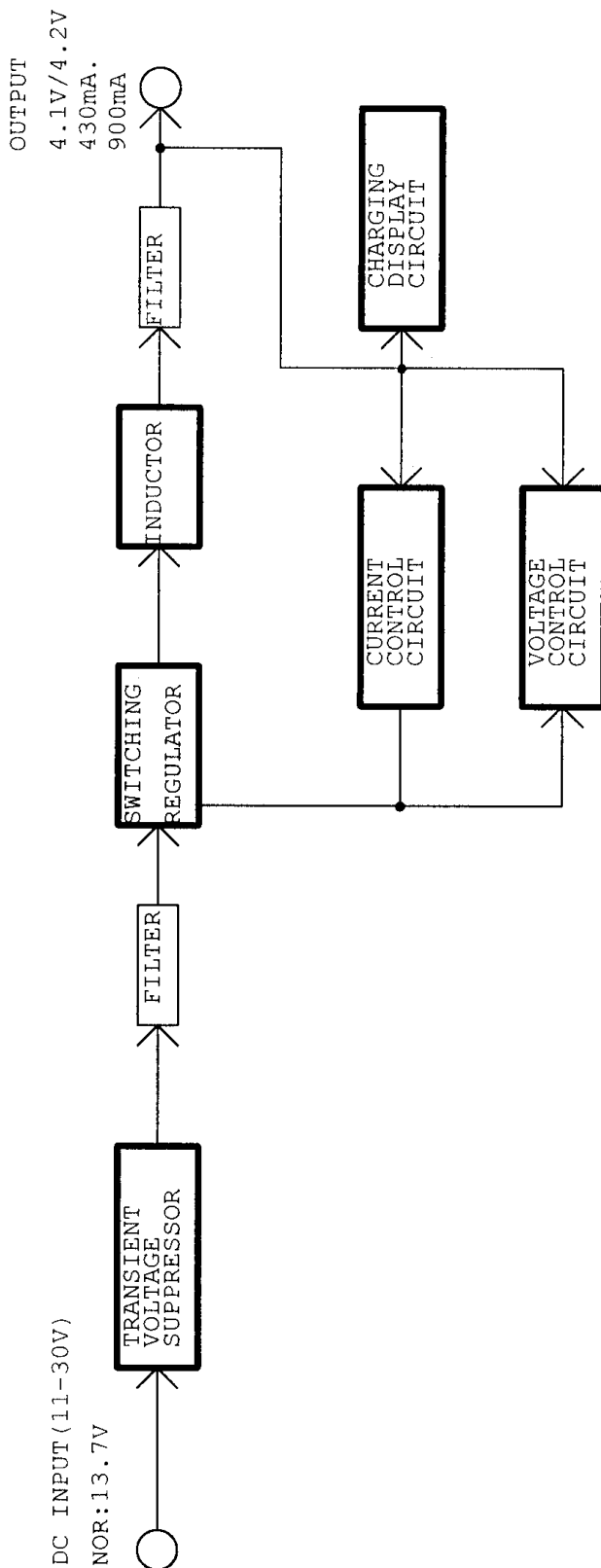


9-4 Travel charger Block Diagram



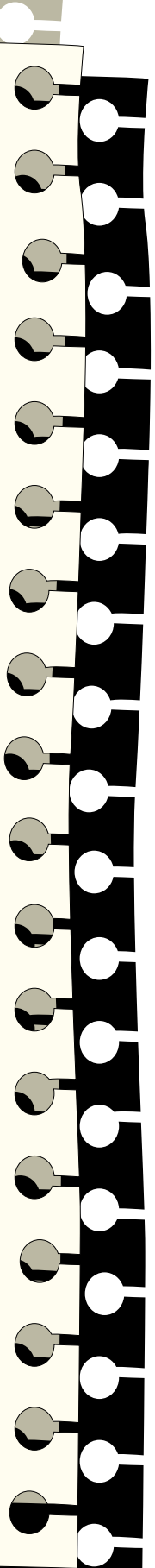
9-5 CLC(Cigarette Lighter Charger) Block Diagram

CLC020 BLOCK DIAGRAM



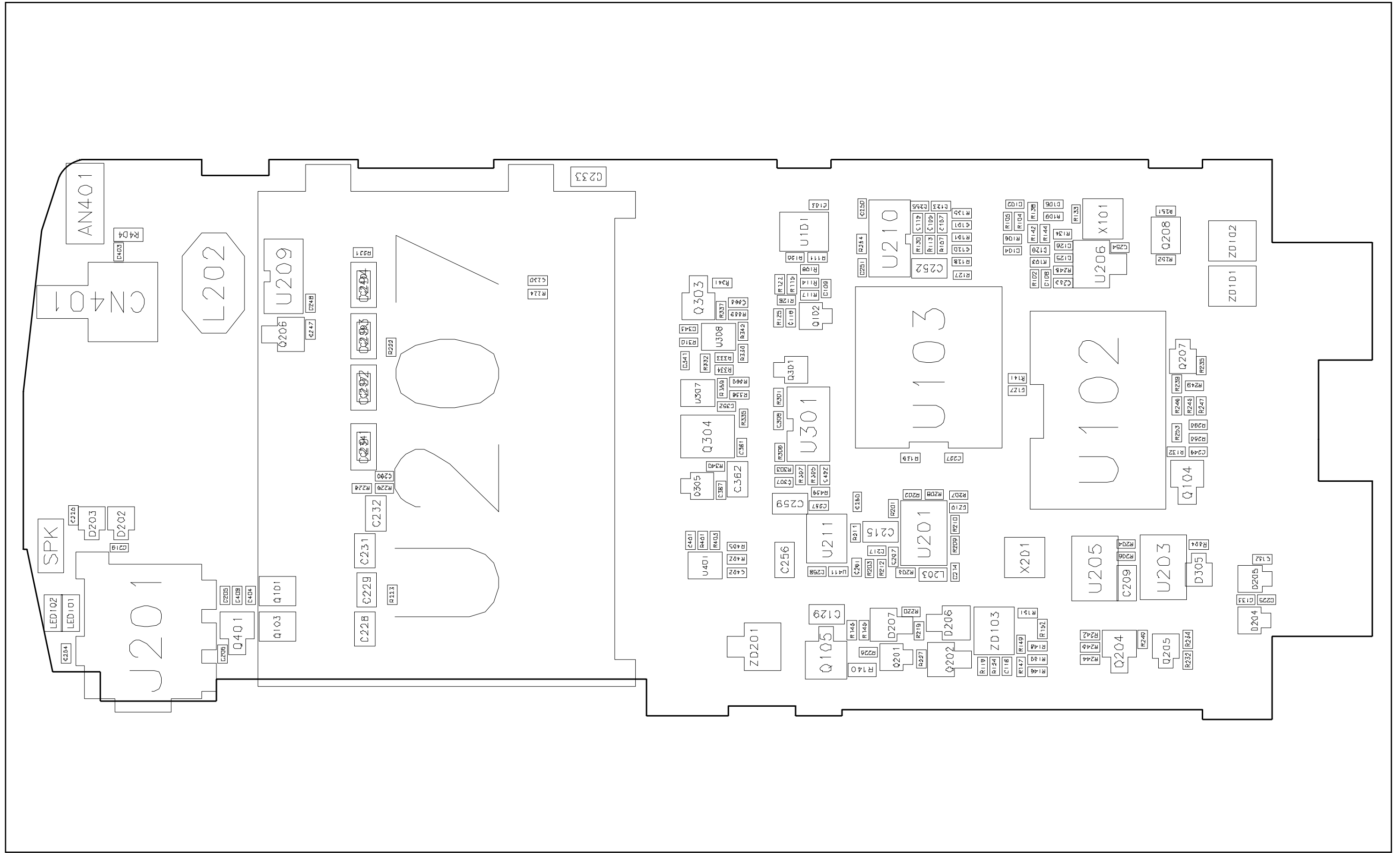
MEMO

A series of horizontal dotted lines for writing, spanning the width of the page.

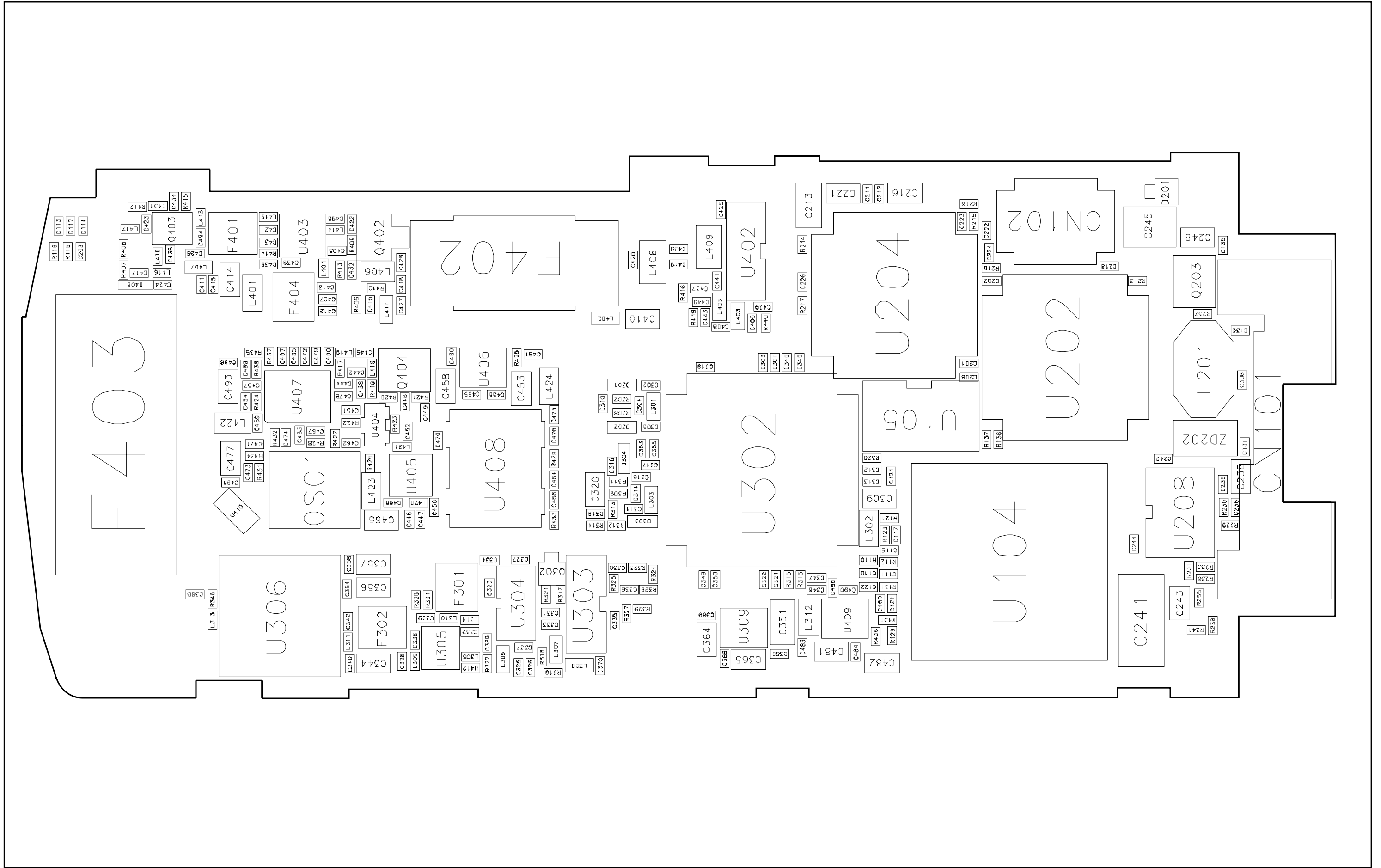


10. PCB Diagrams

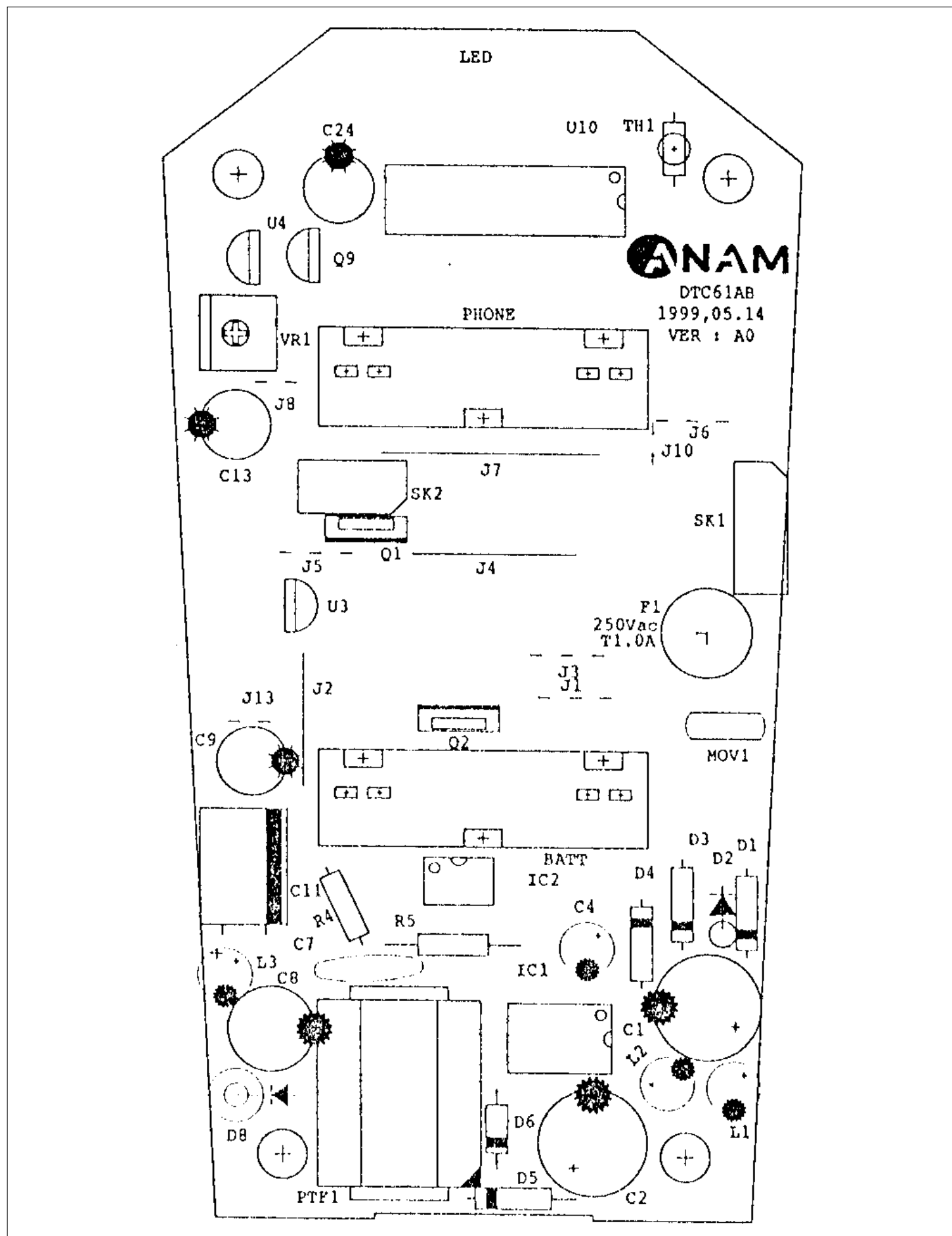
10-1 Main PCB Top View



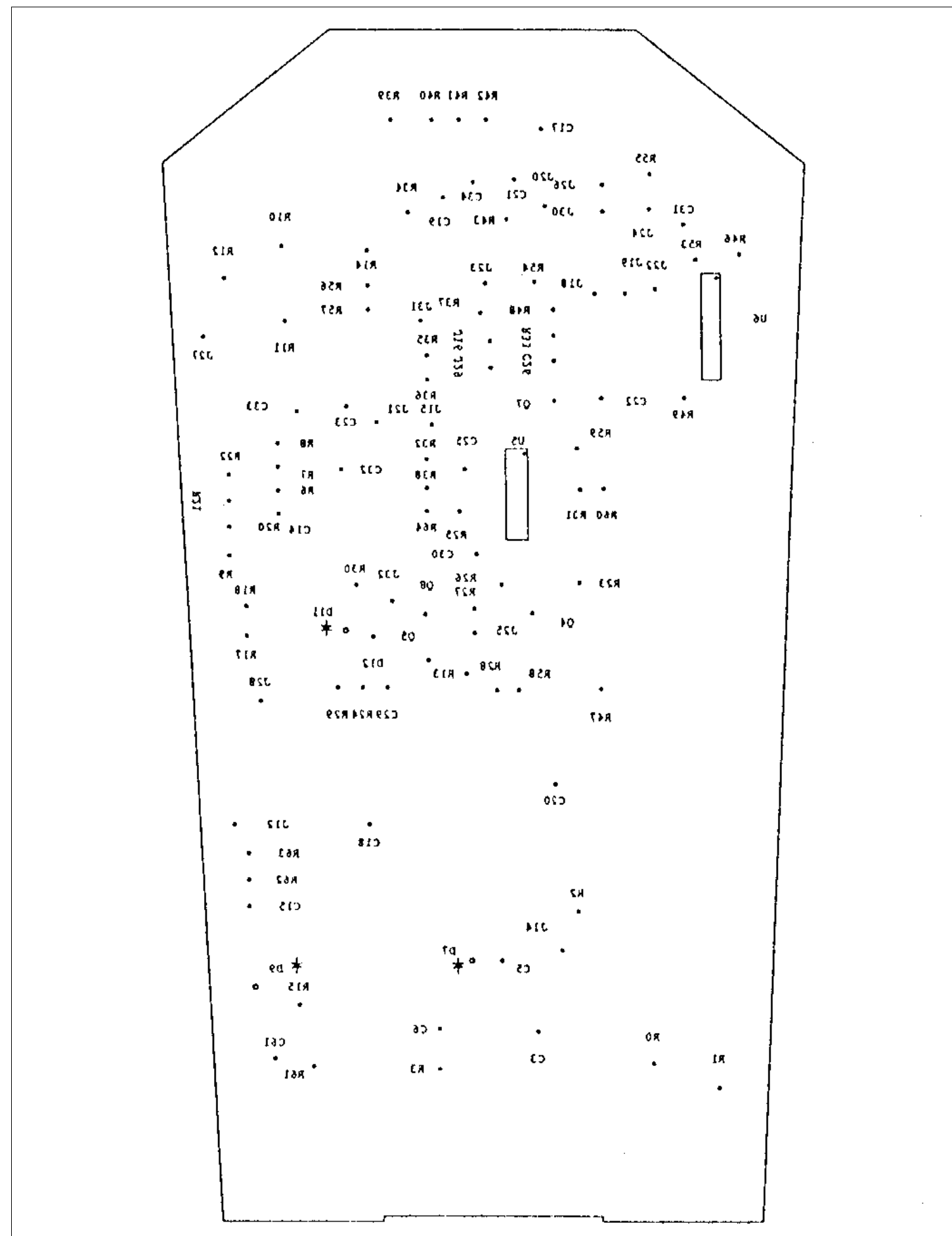
10-2 Main PCB Bottom View



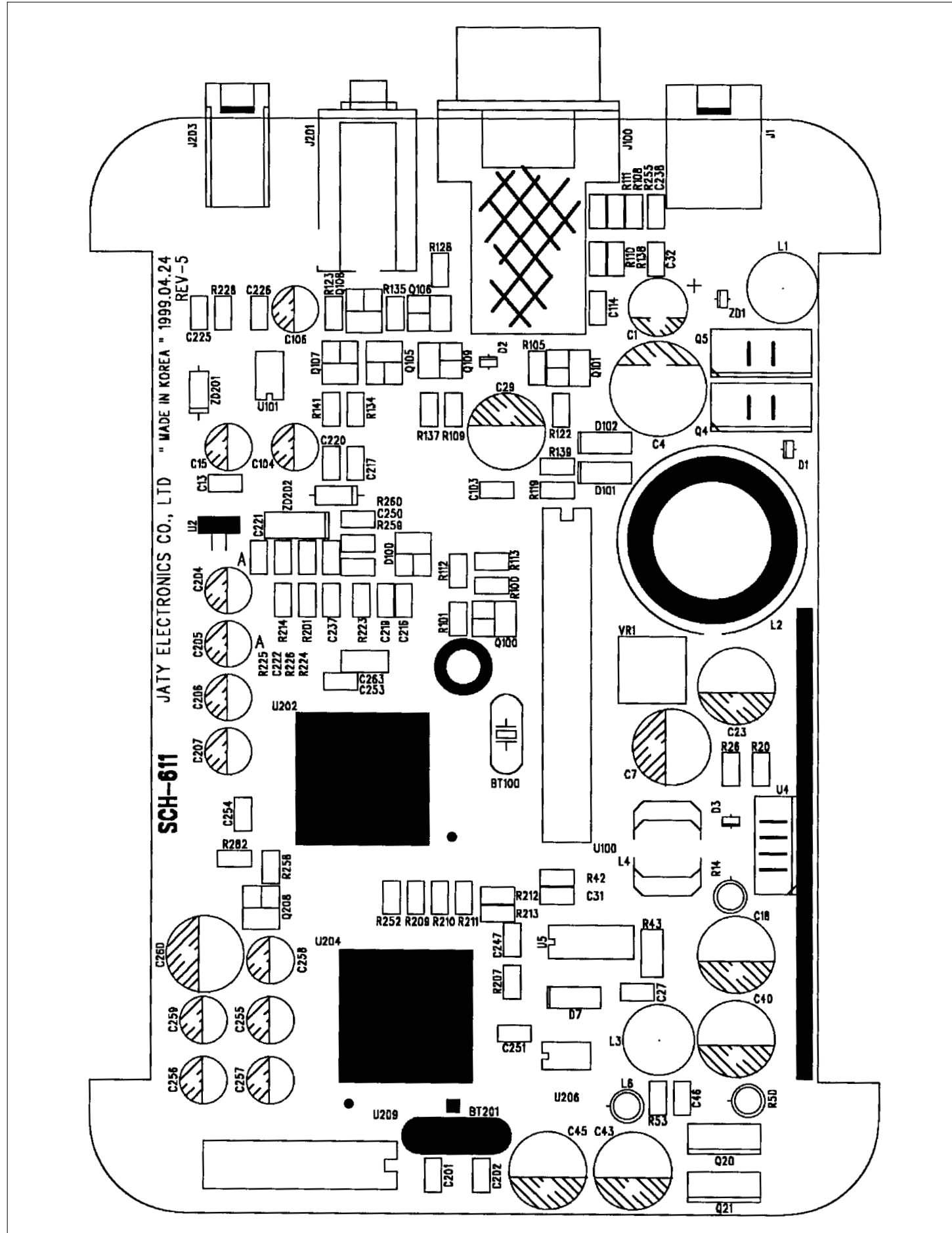
10-3 Desk-top charger PCB Top View



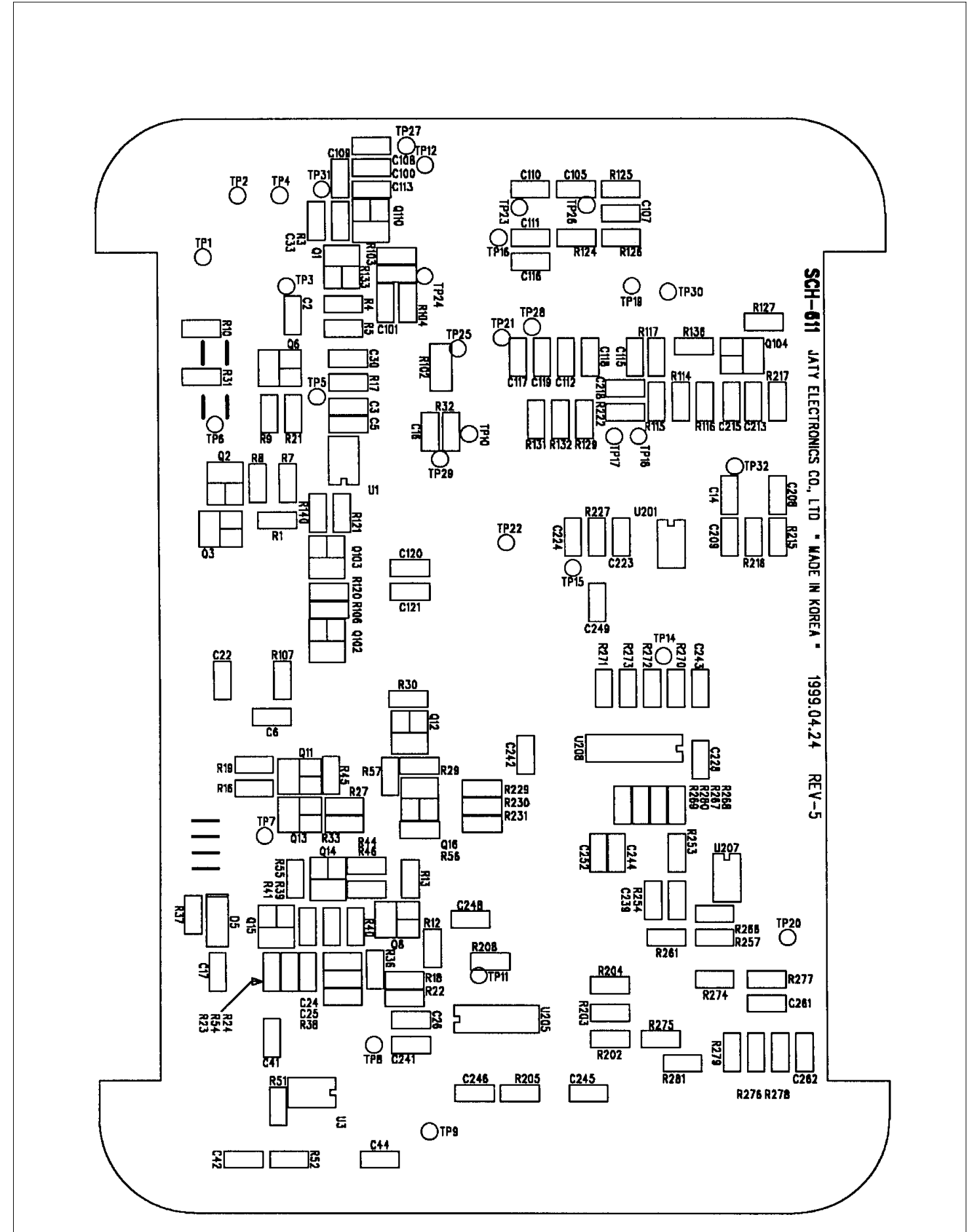
10-4 Desk-top charger PCB Bottom View



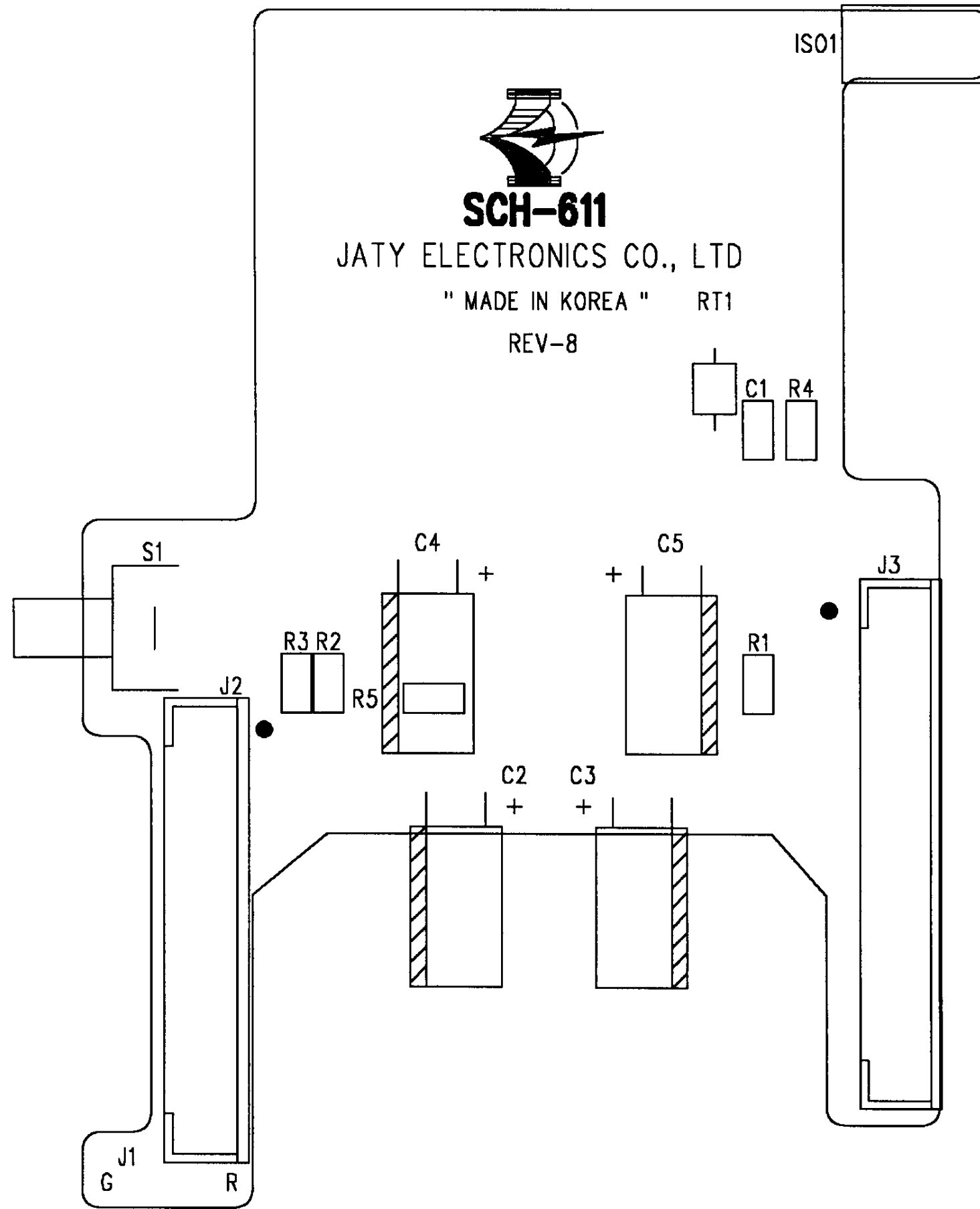
10-5 Hands-Free Kit PCB Top View



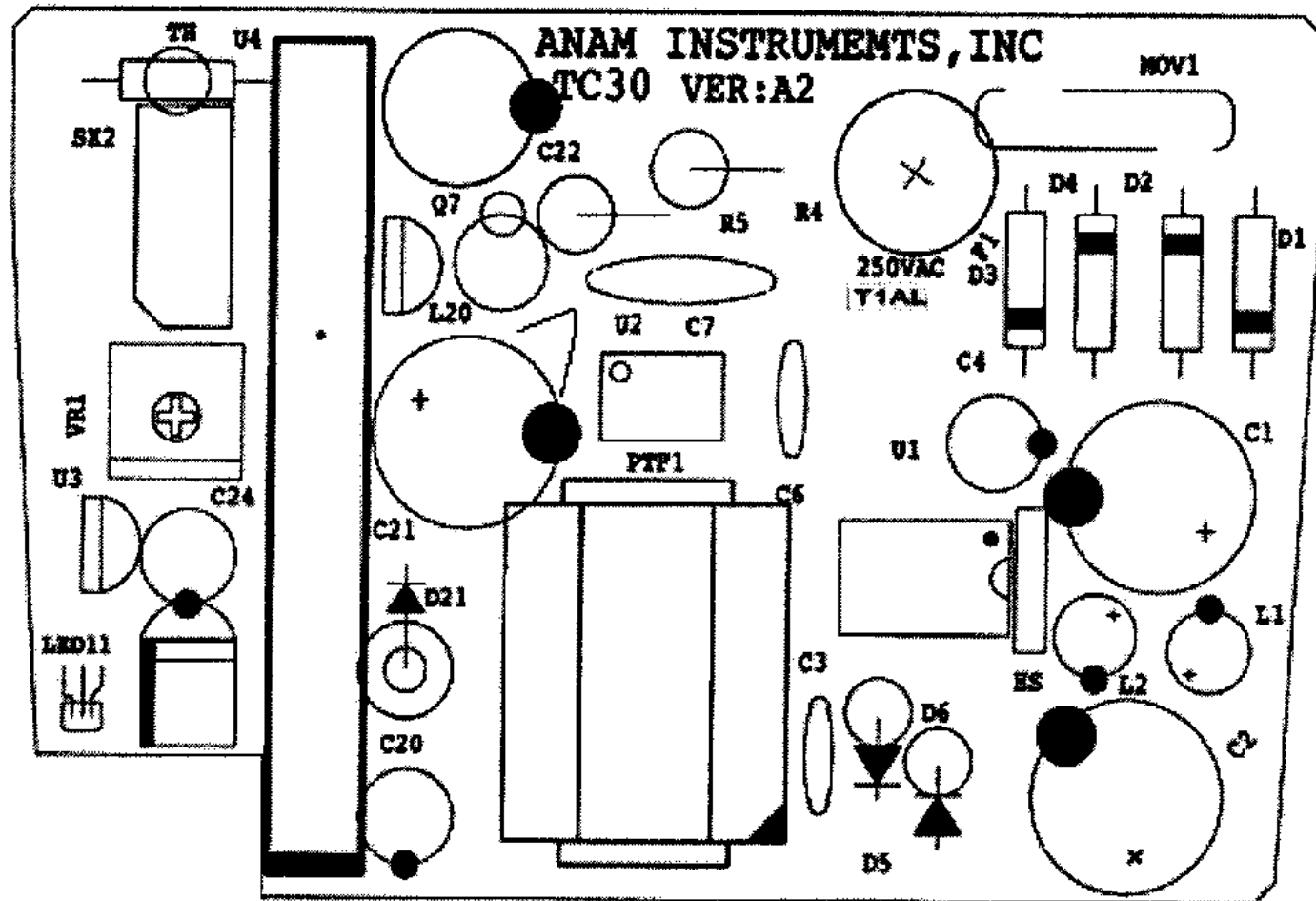
10-6 Hands-Free Kit PCB Bottom View



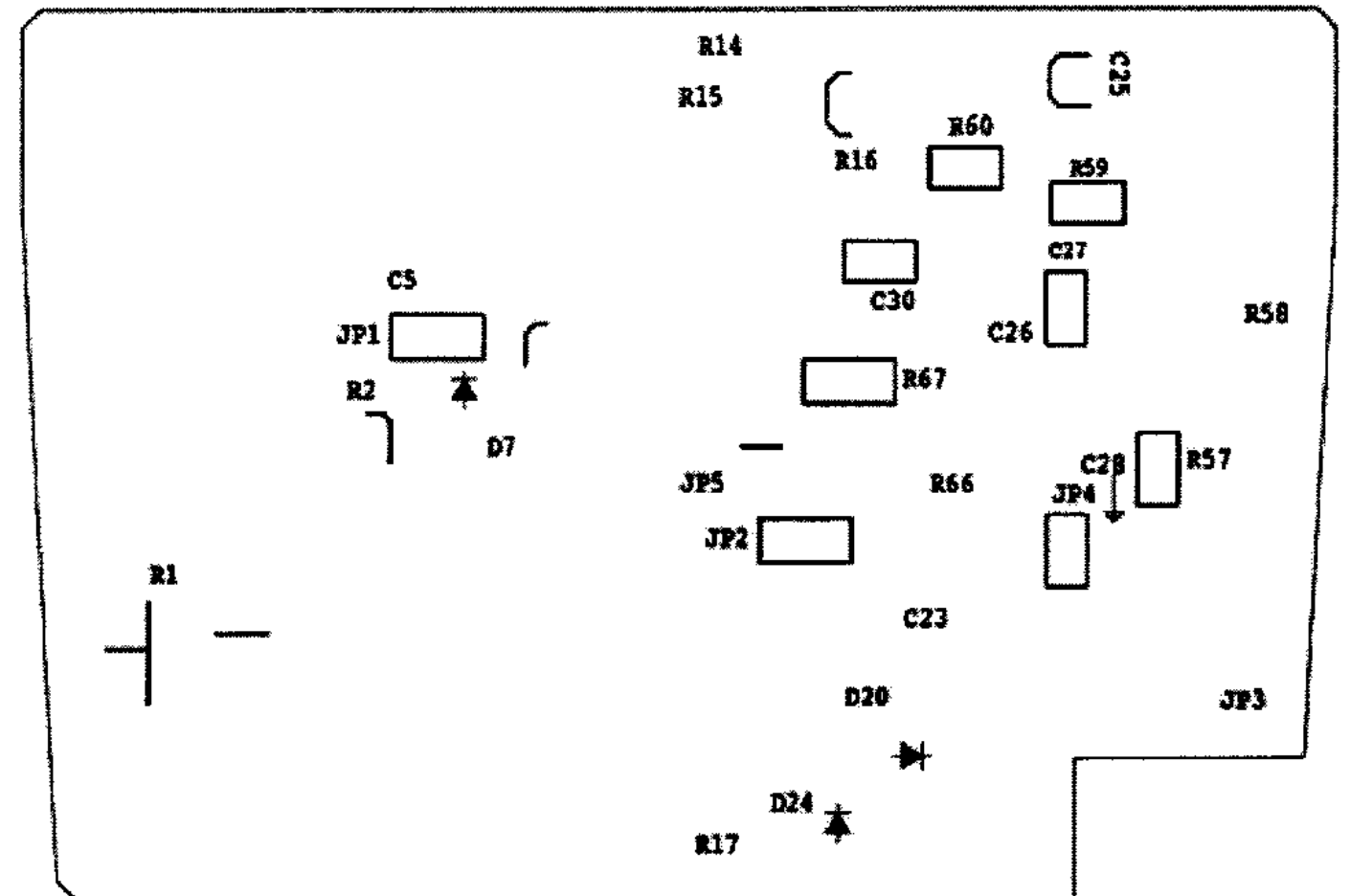
10-7 Cradle 1 PCB Top View



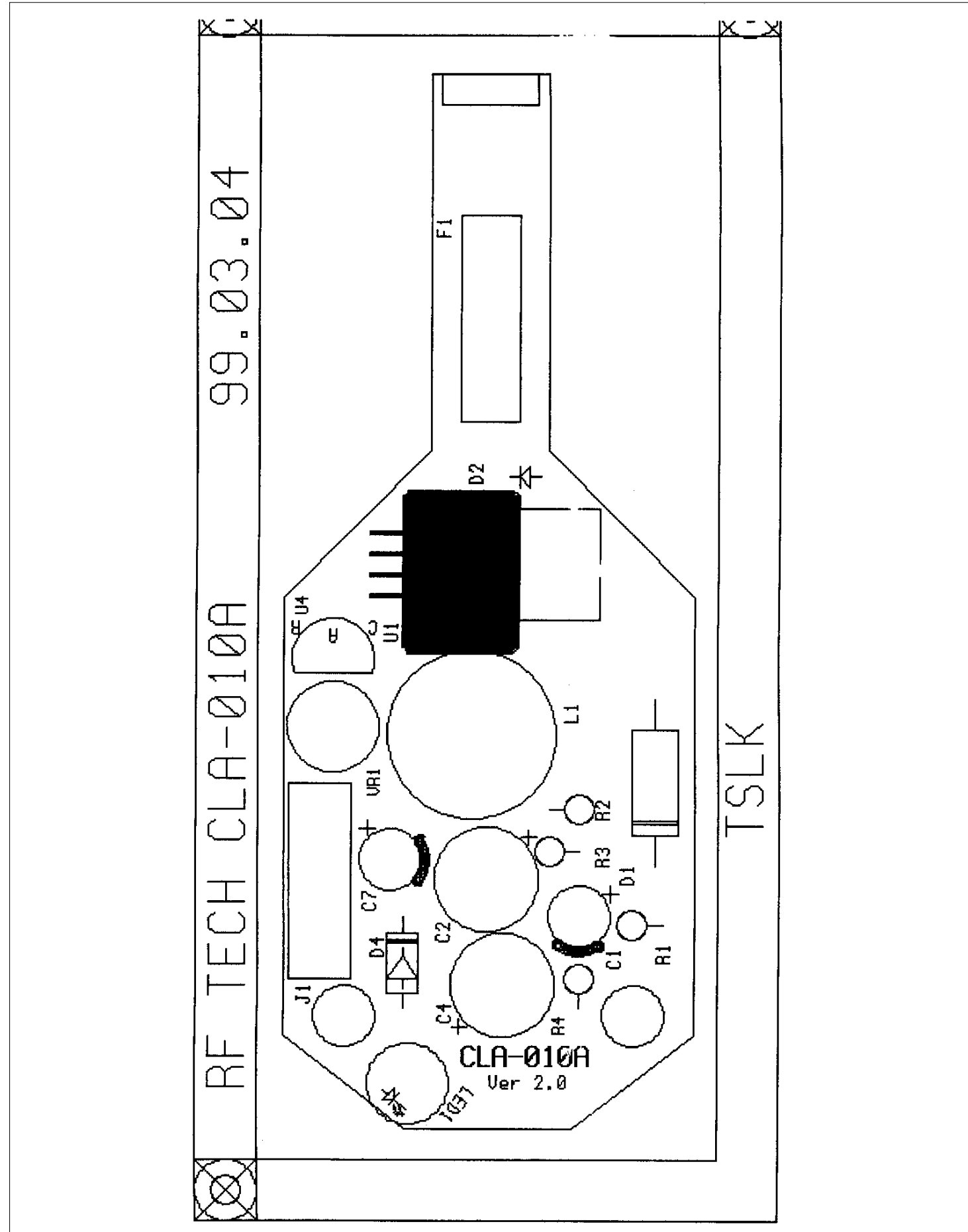
10-8 Travel charge PCB Top View



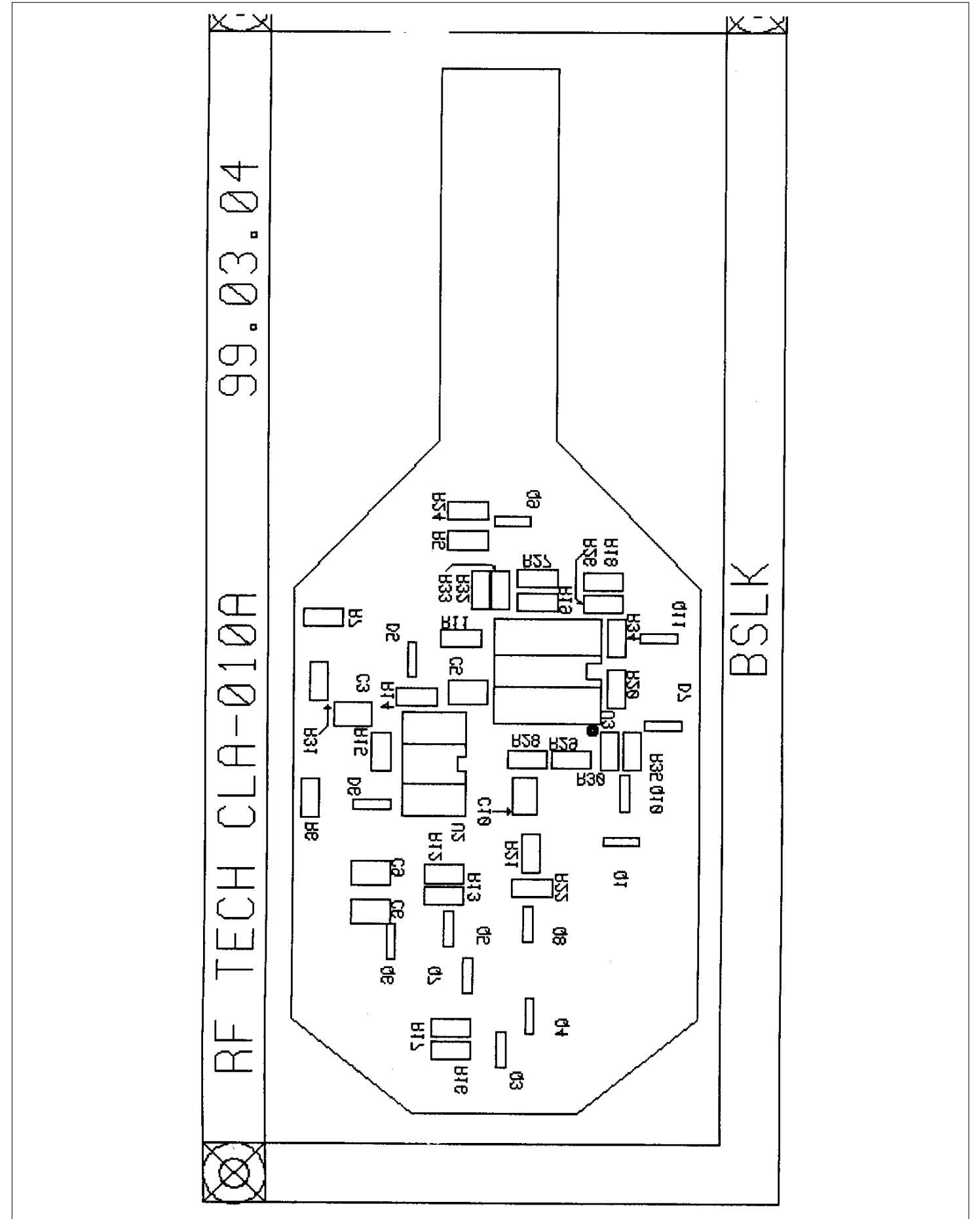
10-9 Travel charge PCB Bottom View



10-10 CLC (Cigarette Lighter Charger) PCB Top View

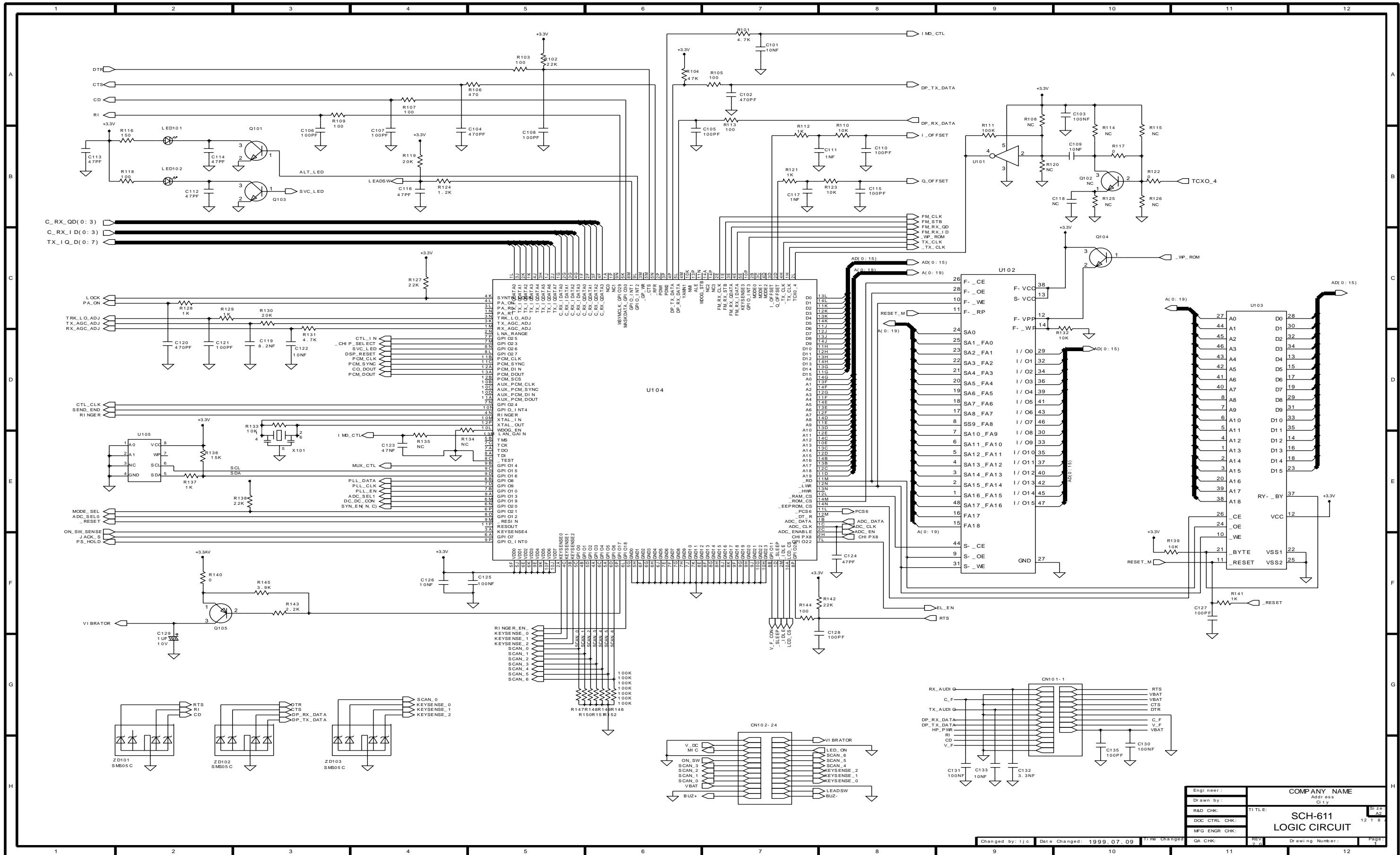


10-11 CLC (Cigarette Lighter Charger) PCB Bottom View



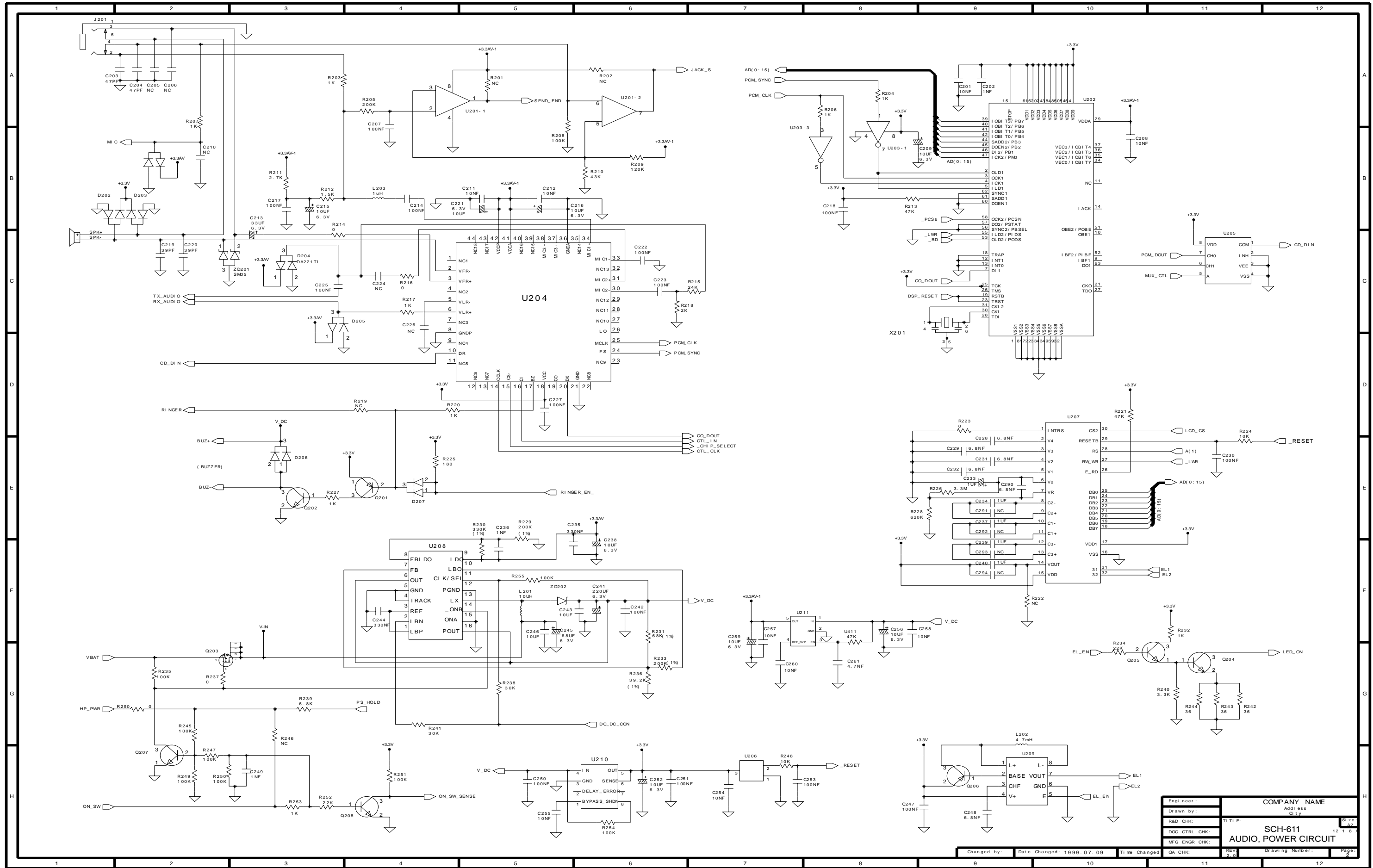
11. Circuit Diagrams

11-1 LOGIC Circuit Diagram



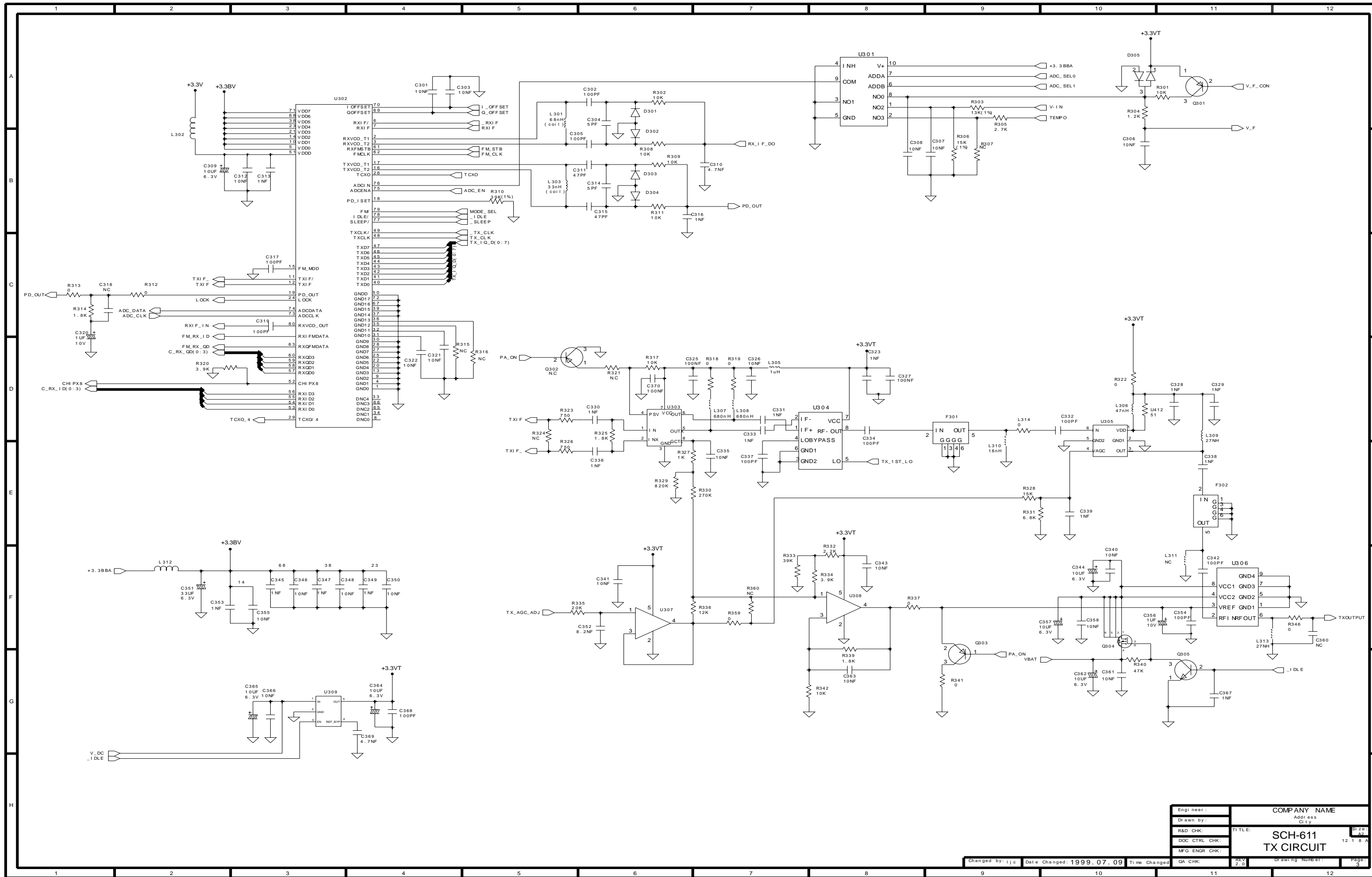
Eng. Name:	COMPANY NAME
Drawn by:	Address
R&D CHK:	City
DOC CTRL CHK:	TEL: SCH-611
MFG ENGR CHK:	12 1 8
QA CHK:	REV: LOGIC CIRCUIT
Changed by: ijc	Date Changed: 1999.07.09
Time Changed:	Drawing Number:
	Page:

11-2 Audio, Power Circuit Diagram

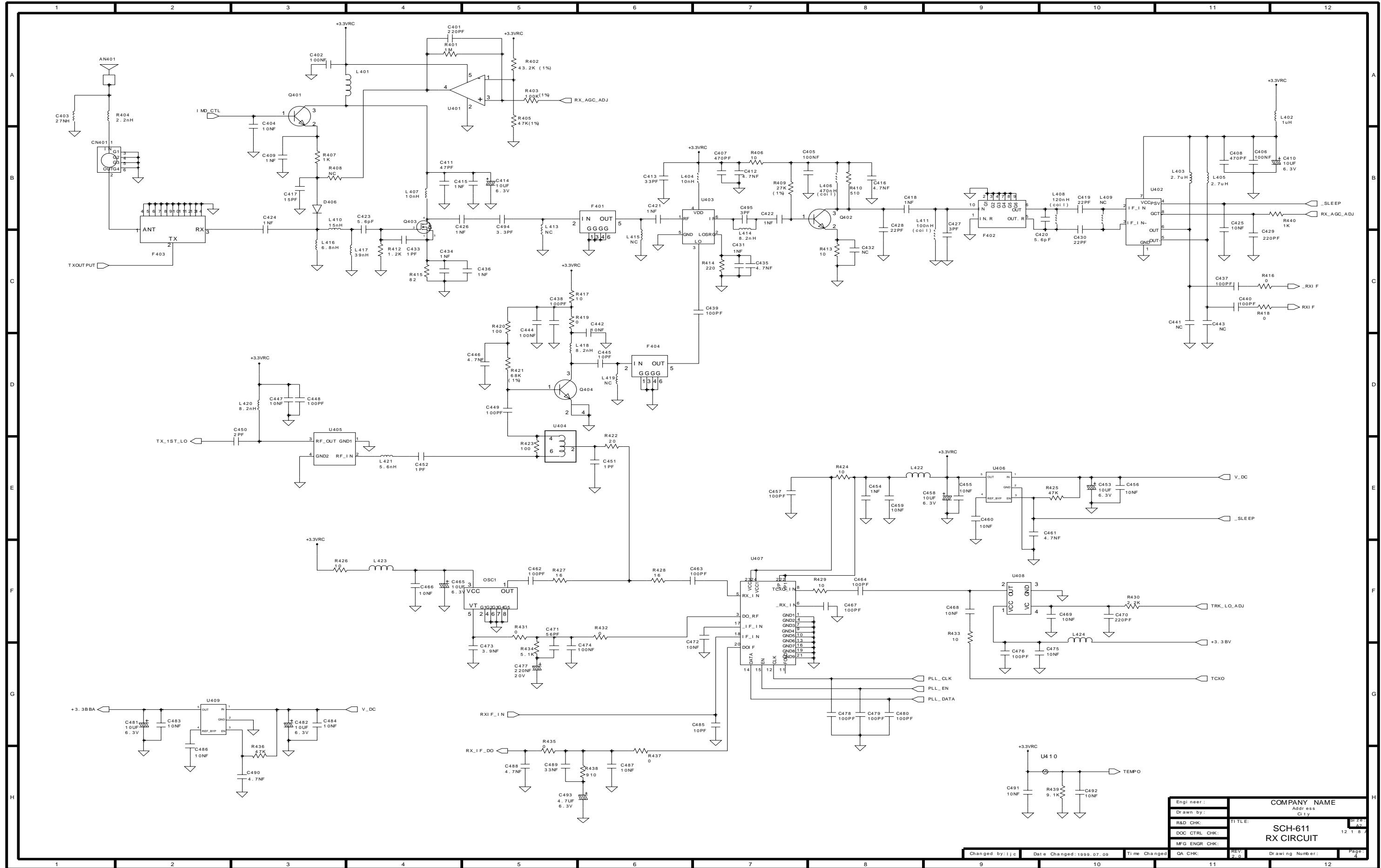


Engl. neer:	COMPANY NAME
Drawn by:	Address
R&D CHK:	City
DOC CTRL. CHK:	TITLE: SCH-611
MPG ENGR. CHK:	12 1 8
QA CHK:	AUDIO, POWER CIRCUIT
REV: 2.0	Drawing Number:
Changed by:	Date Changed: 1999.07.09
Time Changed:	Page: 2

11-3 TX Circuit Diagram



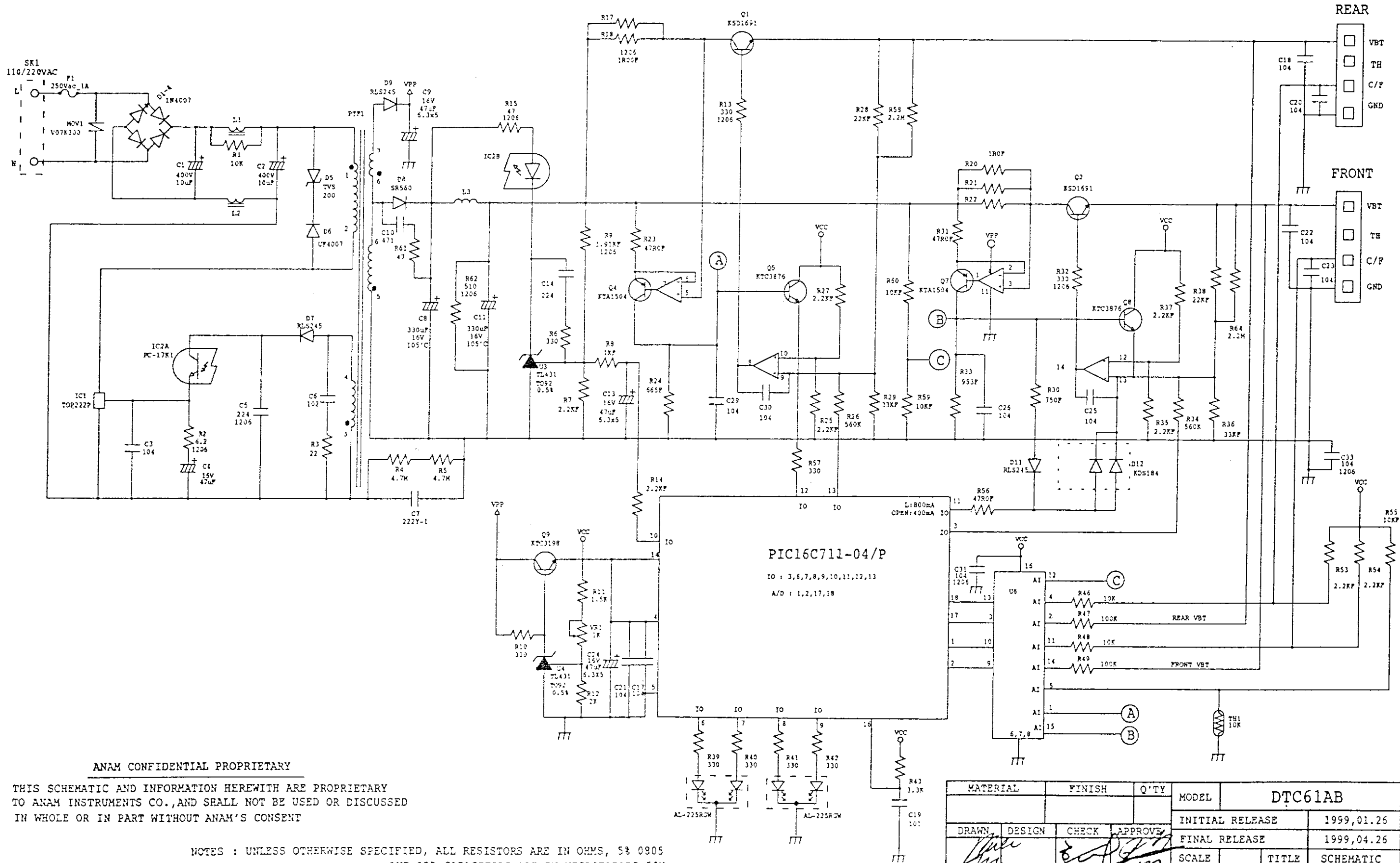
11-4 RX Circuit Diagram



Engineer:	COMPANY NAME
Drawn by:	Address
R&D CHK:	TITLE: SCH-611
DOC CTRL CHK:	12 1 8 7
MFG ENGR CHK:	RX CIRCUIT

Changed by: jlc Date Changed: 1999.07.08 Time Changed: QA CHK: REV: 2.0 Drawing Number: Page: 4

11-5 Desk-Top rapid charger Circuit Diagram



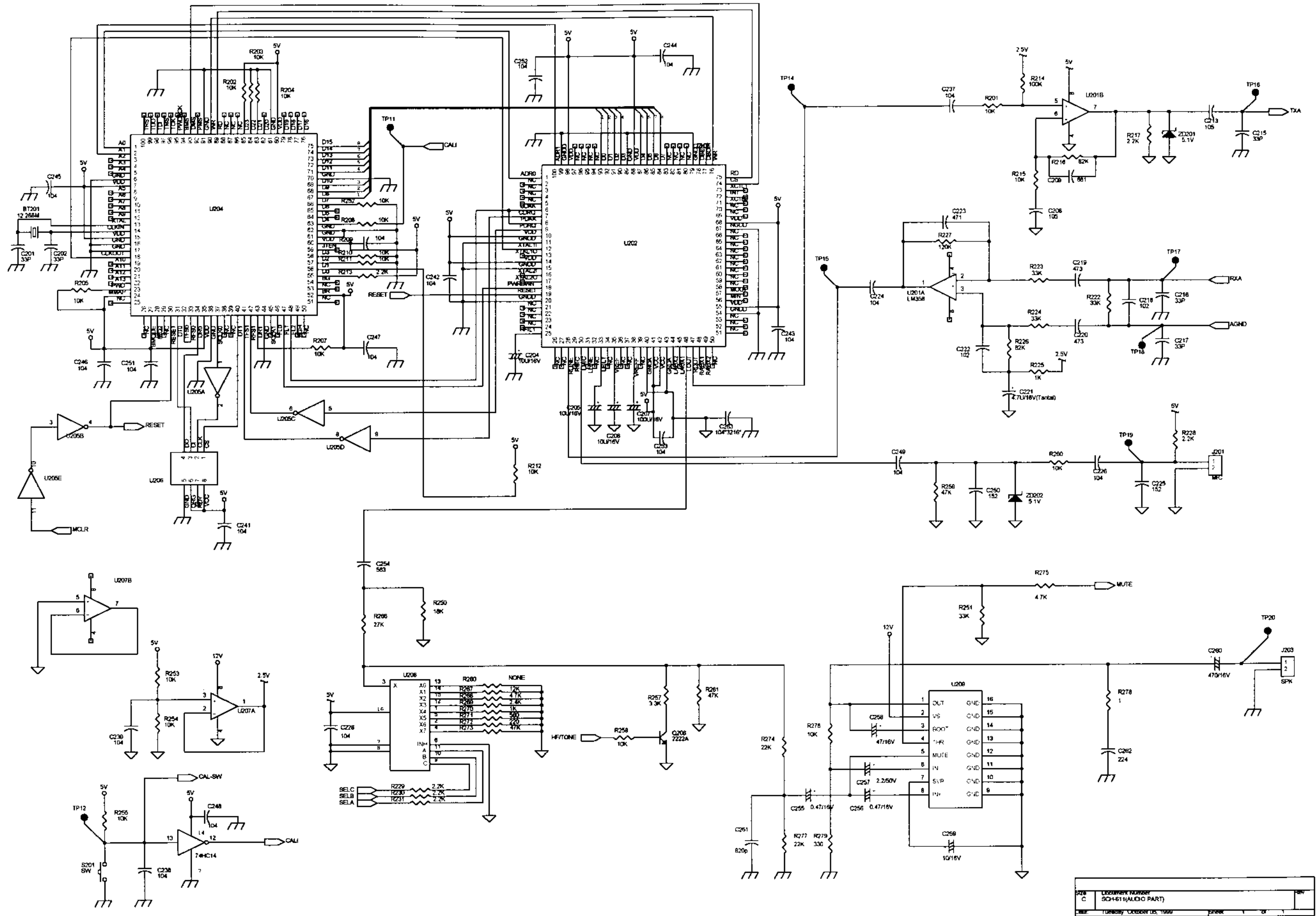
ANAM CONFIDENTIAL PROPRIETARY

THIS SCHEMATIC AND INFORMATION HEREWITH ARE PROPRIETARY TO ANAM INSTRUMENTS CO., AND SHALL NOT BE USED OR DISCUSSED IN WHOLE OR IN PART WITHOUT ANAM'S CONSENT

NOTES : UNLESS OTHERWISE SPECIFIED, ALL RESISTORS ARE IN OHMS, 5% 0905 AND ALL CAPACITORS ARE IN MICROFARADS, 50V

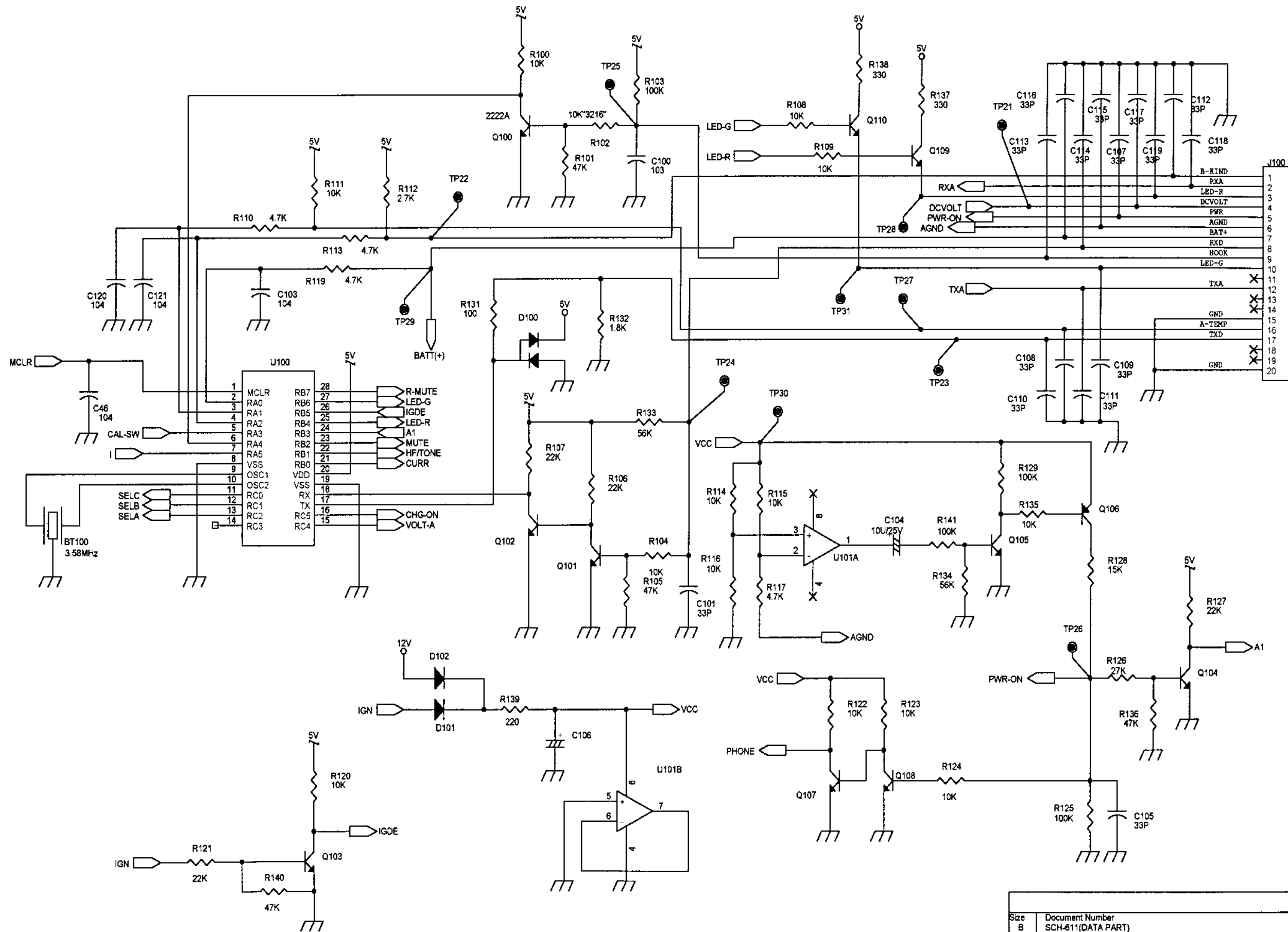
MATERIAL	FINISH	Q'TY	MODEL	DTC61AB	
			INITIAL RELEASE	1999,01.26	
			FINAL RELEASE	1999,04.26	
			SCALE	TITLE	SCHEMATIC
			TOLE.	PAGE	1 OF 1
ANAM Instruments Inc.			DWG.NO	3XS0178A4	

11-6 Hands-Free Kit 1 Circuit Diagram (Audio)



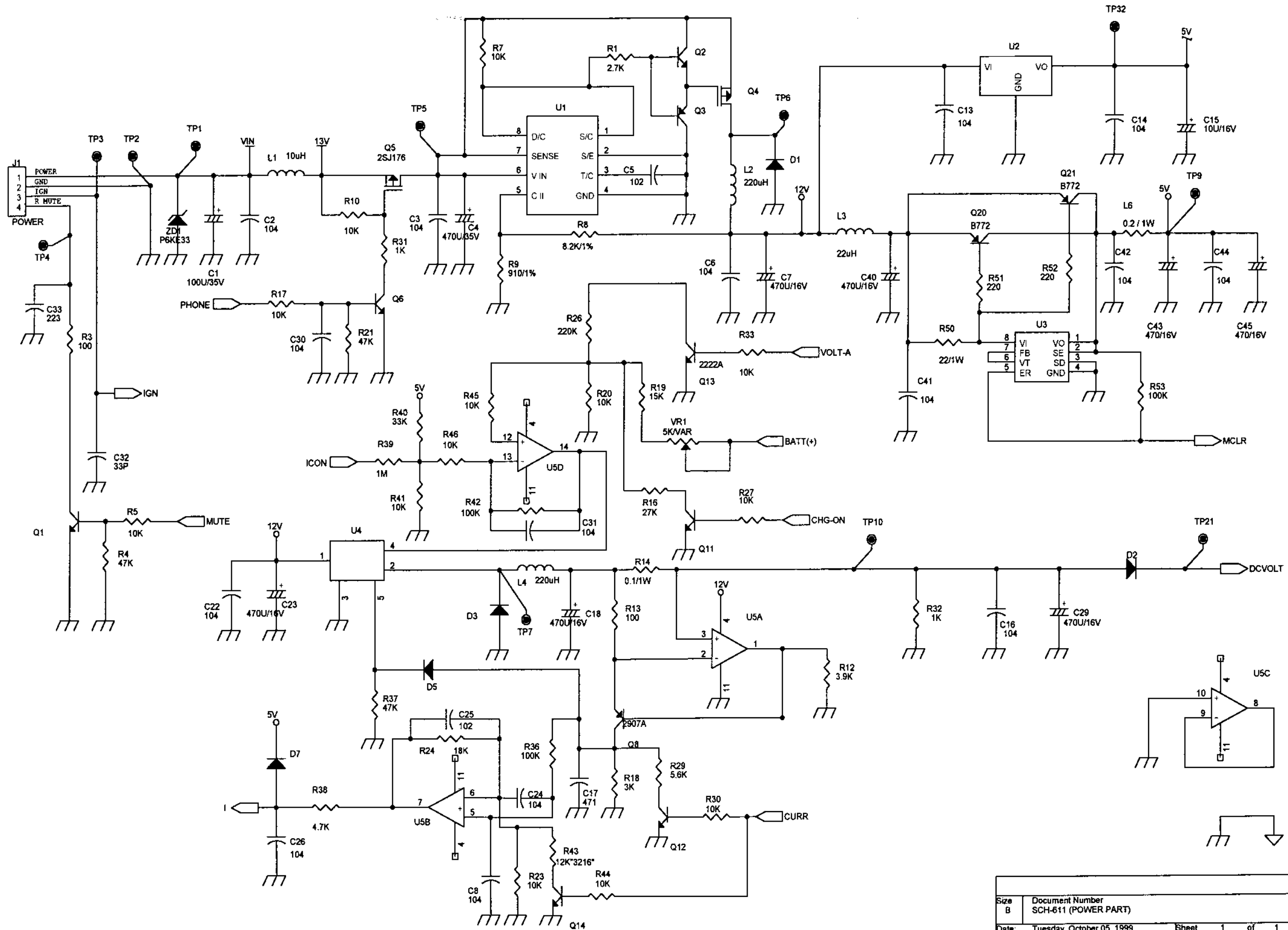
528	DOCUMENT NUMBER	REV
C	SC1461 (AUDIO PART)	
DATE	Tuesday, October 16, 1990	3/28K 1 of 1

11-7 Hands-Free Kit 1 Circuit Diagram (Data)



Size B	Document Number SCH-611(DATA PART)	Rev
Date Tuesday, October 05, 1999	Sheet 1 of 1	

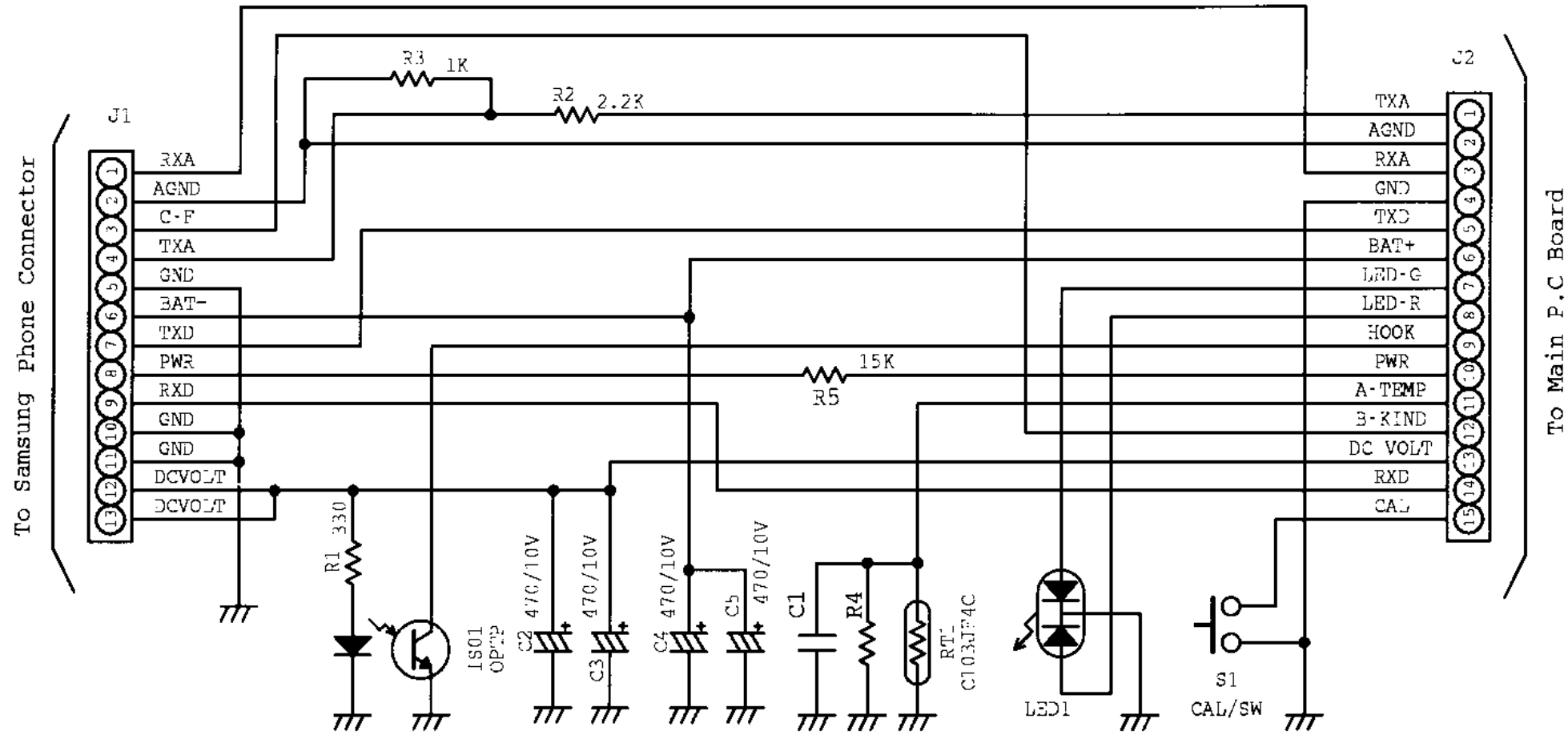
11-8 Car Adaptor 1 Circuit Diagram



Size B	Document Number SCH-611 (POWER PART)	Rev
Date: Tuesday, October 05, 1999	Sheet 1 of 1	

11-9 Cradle 1 Circuit Diagram

CRADLE CIRCUIT BOARD

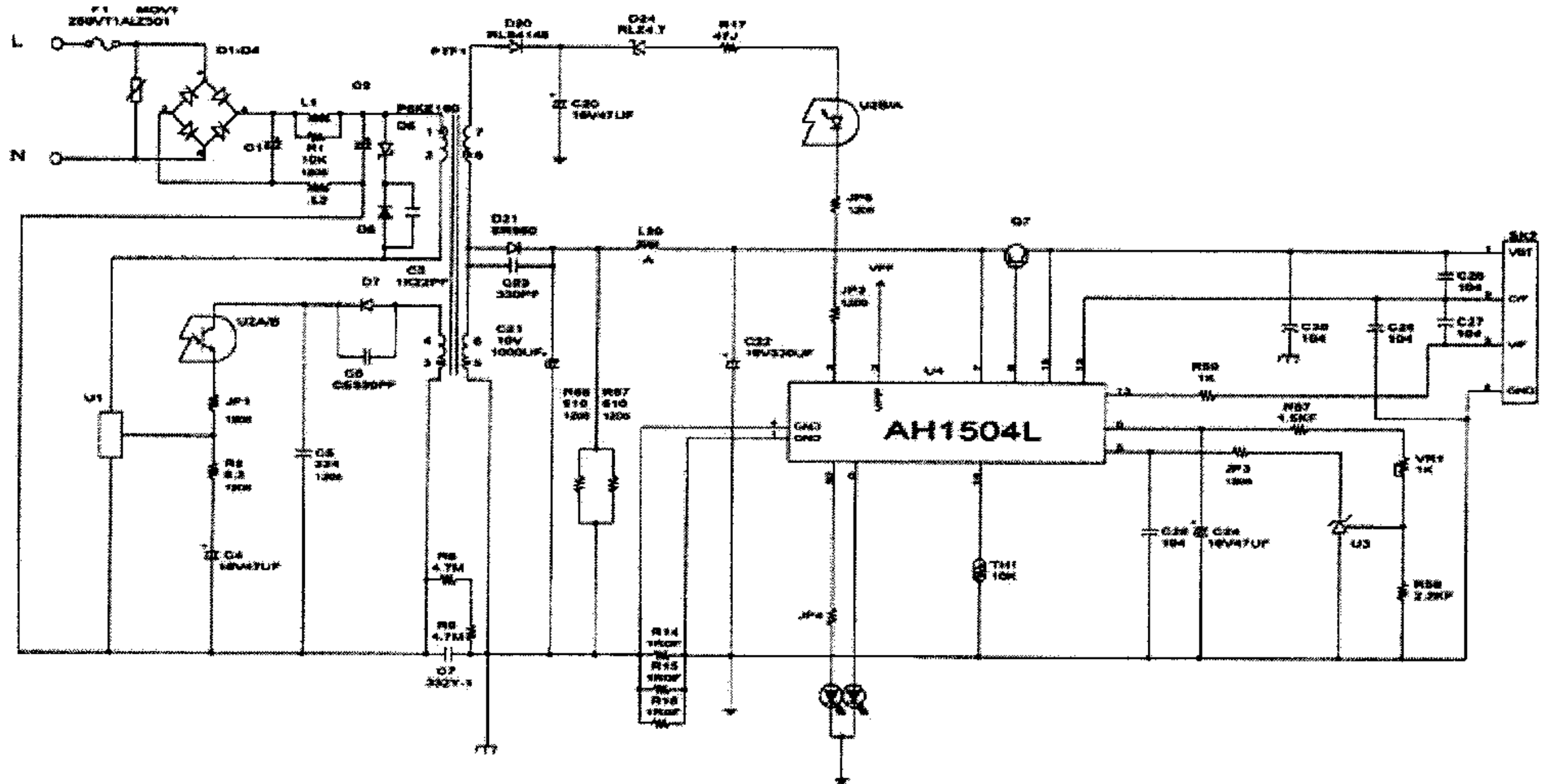


DESIGN	CHECK	APRO	DATE	1999.09.05.	PART NAME	SCHEMATIC HOLDER PART
K.J.W			JNIT	mm		
			SCAN	/	MODEL NO	SCH-611
					DWG NO	

JATY ELECTRONICS CO., LTD.

11-10 Travel charge Circuit Diagram

110/220VAC



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NOTES : UNLESS OTHERWISE SPECIFIED ALL RESISTORS ARE IN OHMS, 5% 0503 AND ALL CAPACITORS ARE IN MICROFARADS, 50V.

DRAWN	DESIGN	CHECK	APPROVED	TC010	
				INITIAL RELEASE	1999.07.10
				FINAL REVISION	1999.08.19
ANAM Instruments				DWG. NO	3XS0202A0
				SCHEMATIC	

11-11 CLC (Cigarette Lighter Charger) Circuit Diagram

